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GIT SECURITY

MAGAZINE FOR SAFETY AND SECURITY

EMEA

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- Fire Detection
- Access Control
- Storage
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- Key Management

COVER: SimonsVoss
No Birds in Last Year's Nest

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Intelligent World

When video analytics was introduced into the security market many years ago, the first phase was quite frustrating for end-users, installers and system integrators. A lot of promises were made by software developers about how easily security can be improved by just adding some clever software to the existing security cameras. Plug-in tools were installed directly on the cameras or the software was run on the server side to analyse the data on a central system. In those early years, most projects failed, could not deliver and caused a lot of trouble within the industry. Too many false alarms, frustrated end-users and endless discussions about who is responsible for poor performances were the result.

The products were not robust enough, processing power at that time was mostly limited and the mindset of the industry was too self-centered. Integration and partnerships between companies were not standard.

As of 2018, the situation has drastically improved. Many projects and installations use all kinds of video analytics tools and most users are happy with the performance. Provided that a proper integration is done, the sky seems to be the limit. People counting, video fire detection, virtual tripwire, face recognition, heat maps, advanced searches and other applications finally made the life of security officers and business managers easier.

Now the question is, are we ready for the next round of innovation? Are you ready for Artificial Intelligence (AI)? Are you ready to create an intelligent world? In our last issue we gave you an insight on the AI vision of the big Chinese players, Hikvision and Dahua. If you have missed it, you can look it up on GIT-SECURITY.com. Creating an intelligent world was not only a big topic at the Milestone MIPS event in Barcelona and Las Vegas in February, but AI was also in the centre of a lot of presentations at Intersec Dubai. Whole Keynote sessions about current developments in AI were held at the Bosch Connected World Conference in Berlin. According to McKinsey, it is true that more than 50% of our day-to-day tasks could easily be automated. However, considering factors like shrinking population rates, it is also very much necessary. Sooner or later we will gladly take all the AI and robots we can get to manage our workload sufficiently.

When you look at the history of video analytics in our industry, one may say that talking about AI is too much of a marketing talk and it will take years until we see AI and Deep Learning applied in our industry. I don't think it will take that long. Things have changed dramatically since the launch of video analytics. The biggest difference is that large companies with extensive resources in research and development have taken the lead here, in contrast to the small software start-up companies as seen in previous years. Users will have the choice to select between proprietary systems from one vendor with the advantage of the integration work done by another company or best-of-breed systems that combine the strength of all companies involved.

The mindset in the industry has changed, too. More and more companies develop systems together, partner with IT companies and experts from other industries. Some of the big players in security can rely on technologies they use in other parts of the industry like Bosch, who use sensors and algorithms from their automotive sector for applications within the security industry.

If there is one factor that may slow down AI development within the next years, I think it will be data protection initiatives especially in those European countries that have strict regulations or that have privacy protection as a big topic.

No solution and no project can be developed without state-of-the-art products. GIT SECURITY AWARD. The award is going into the next round now and is a great opportunity for the industry to introduce products to an international audience and to test how popular their products are. If you work for a vendor of security or safety products we would like to invite you to apply now for GIT SECURITY AWARD 2019 and submit your product entry. The registration page is open until March 31 and on page 23 of this issue we show you where you can submit your product.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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Wisenet AID Shortlisted for Intertraffic Amsterdam Innovation Award

Bob Hwang (Hanha Techwin) and Paola Clerici (Sprinx Technologies)

The Wisenet Automatic Incident Detection (AID) solution, developed by Hanwha Techwin and analytics specialist Sprinx Technologies, has been shortlisted for the Traffic Management category of an Intertraffic Amsterdam Innovation Award. The winner will be announced at the exhibition from 20-23 March 2018 at RAI Amsterdam. The solution takes full advantage of the massive chipset processing power built into Wisenet X cameras, allowing simultaneous applications at the edge. The 3D object recognition technology significantly negates the risk of false alarms compared to 2D technology. Wisenet Automatic Incident Detection (AID) is an easy to deploy and highly accurate city-wide incident detection solution, designed to be affordable for budget-conscious local authorities. It lets operators know instantly when traffic is slowing down and whether there is a lengthening queue. It will also detect broken down or illegally stopped vehicles and if there is a driver going the wrong way, a pedestrian in danger or there is smoke in a tunnel. It will even spot if some cargo has fallen off a lorry. **www.hanwha-security.eu**

New President for Assa Abloy AB

The Board of Assa Abloy AB has, as announced earlier, appointed Nico Delvaux as the new President and CEO. Delvaux started his employment with Assa Abloy AB on February 3, 2018 and took up his position as President and CEO on March 15, 2018. He succeeds Johan Molin, who will leave his position after 12 successful years as President and CEO. **www.assaabloy.com**

Morse Watchmans Announces Partnership with Grinta Iberica

Morse Watchmans announces an expansion of its ever-growing dealer network through the addition of Grinta Iberica of Barcelona, Spain. As the exclusive Morse Watchmans dealer in Spain, Grinta Iberica will carry the full line of Morse Watchmans products, in addition to having full product demos available at its corporate headquarters. The dealer's parent company Grinta Venezuela has been a Morse Watchmans dealer for many years, and the expansion into Spain will bring with it extensive knowledge of Morse Watchmans products. "Once again, we have been able to partner with a distributor who is dedicated to providing top-notch sales and service to our customers," said Fernando Pires, VP Sales and Marketing, Morse Watchmans. "Grinta Iberica brings years of industry experience and will provide outstanding customer support to the markets they serve." "The expansion and quality of Morse Watchman's global distribution network is a reflection of their successful sales strategies, positioning them for ongoing success," said Martin Ferrer, Engineer of the Commercial Area of Grinta Iberica.

www.morsewatchmans.com

Primion CEO Change

The Executive Board and the Supervisory Board of the primion Group have informed the staff that CEO Horst Eckenberger has not extended his contract for personal and family reasons. He will leave the company at the end of February 2018. During his time as CEO, the customer portfolio underwent a successful strategic expansion and many new and important customers were added. Profitability improved significantly and the mechatronic business unit was augmented through the acquisition of the Opertis company. Horst Eckenberger was appointed to the Board and made CEO of the company in February 2012. He says: „During the last six years, we have been successful in repositioning primion Technology AG step-by-step and in driving forward the integration of the foreign subsidiaries, GET in Belgium and DIGITEK in Spain. The strategy of manufacturing hardware and software in-house, of carrying out continuous development and of implementing the latest technologies has proved itself to be the right one. I am pleased to have been able to be a part of primion's success." Jorge Pons Vorberg, CFO of primion Technology AG has agreed to take over the position of CEO on an interim basis. **www.primion.de**

New Czech Office for Hikvision

Hikvision opened its Czech branch office in December 2017 in Prague's 4th district. The company wants to strengthen services to its partners in and around the Czech Republic and will house training and showroom facilities there, focusing both on products and vertical solutions as well as facilitating the Czech-speaking after-sales department. Liz Wang, Area Sales Manager at Hikvision Europe, says: "We value our distribution partners in the Central Eastern markets very much and want to strengthen the relationships we have developed with them." The Czech Republic is at the heart of the European region, with Prague quickly becoming Europe's tech hotspot, and an important and fast-growing market for Hikvision. **www.hikvision.com**

SCTX 2018 Launches Integrated Security Showcase

Organizers of Security and Counter Terror Expo, a UK national security event, have announced the launch of a live technology showcase at its 2018 event. It will feature a live security operations center where visitors can see innovative technologies, solutions and services in action, helping them to identify solutions to tackle the latest security threats. A carefully curated array of products will be displayed, with facial recognition, hostile vehicle identification, cyber threat mitigation, intrusion detection, perimeter protection, CCTV, video surveillance and biometric solutions all working in harmony. Among the suppliers taking part are Bosch Security Systems, Custom Consoles, HARP Visual Communication Solutions, Frontier Pitts, Warrior Doors, Technocover, Fast Lane Turnstiles and Zenus Biometrics. The event is designed to educate security system integrators, architects, consultants and end users looking to protect and secure critical assets from potential threats. It will offer visitors a unique insight into real-time operations and the chance to discuss the ever-evolving range of threats, operational strategies and technologies. The Security and Counter Terror Expo (SCTX) will run from 6–7 March 2018. **www.sctx.co.uk**

SAP Futurist Tom Raftery to Keynote ASIS Europe 2018

ASIS International, the association for security professionals worldwide, has announced that Tom Raftery, Global VP SAP, Futurist and Internet of Things Evangelist, will deliver the opening keynote at ASIS Europe 2018, taking place on 18-20 April in Rotterdam, The Netherlands. Raftery will set the tone for the conference with his expert insight into the business opportunities presented by big data, artificial intelligence and automation. Focusing on the perspectives of businesses, consumers, shareholders and communities, the keynote will address the parameters within which security professionals – and particularly security leaders – need to operate. Afterwards, a panel of security leaders, including Microsoft Chief Security Officer Mike Howard, will interpret what this future means in terms of security, risk, and responsibility. Over two days, ASIS Europe will help attendees navigate a broad sweep of risks, from the malicious use of the latest emerging technologies to the dangers of low tech attacks, particularly on soft targets in public spaces. **www.asiseurope.org**

PlateSmart Joins Arecont Vision Technology Partner Program

Arecont Vision announced that PlateSmart has joined the Arecont Vision Technology Partner Program. PlateSmart is one of the leading providers of Automatic Vehicle Recognition (AVR) solutions, based on ALPR (Automatic License Plate Recognition) technology, and Arecont Vision megapixel cameras are now integration-tested with PlateSmart's Ares software solution.

www.arecontvision.com

ASIS International's Annual Event with New Name: Global Security Exchange

ASIS International announced it has changed the name of its annual security conference from the ASIS Annual Seminar and Exhibits to the Global Security Exchange (GSX). Building on a 60+ year legacy of security event distinction, the newly branded GSX will take place in Las Vegas, Nevada, from September 23–27, 2018, in partnership with InfraGard and ISSA. "In what will be our 64th year of delivering the security industry's flagship event, the Global Security Exchange, or GSX for short, will build upon the change and reinvention introduced at ASIS 2017," said Peter J. O'Neil, CAE, Chief Executive Officer, ASIS International. "This name reflects the Society's commitment to unite the full spectrum of security – cyber and operational security professionals from all verticals across the private and public sector, allied organizations and partners, and the industry's leading service and solution providers – for the most comprehensive security event in the world." **www.asisonline.org**

Compliance with the General Data Protection Regulation for Geutebrueck Solutions

From May 2018, the General Data Protection Regulation will apply throughout the EU and the new Federal Data Protection Act (German law) will come into force. Both have significant consequences on the admissibility of the processing of personal data. However, many users of Geutebrueck solutions will already comply with the forthcoming legislation. The highly complex systems not only protect people, relationships, processes and values, but also safeguard data and personal rights, what is monitored or hidden, what is displayed and saved, what is searched for, exported or deleted.

www.geutebrueck.com

What are the steps to selecting a physical access control system and its practical implementation? Find out more about this advanced project rollout approach that offers several benefits, including standardisation across sites and shorter implementation times.

Visit the **ASIS Europe 2018**, our **Technology & Solutions Track**,
or join us at the **ASIS Welcome Party** powered by Nedap
or go to: **www.nedapsecurity.com/how-we-help/global-client**

nedap | security management

www.nedapsecurity.com

Successful Perimeter Protection Event

The fifth edition of Perimeter Protection ended on a highly successful note, with 3,639 trade visitors, over 31% more than at the previous event in the series. During the three-day event, visitors gained new insights into the latest mechanical and electronic solutions for perimeter protection from 135 exhibitors. The proportion of international exhibitors increased to 41%. The new center of competence for drone detection and defense at the heart of the exhibition was very popular, and the exhibitors had high praise for the quality of the visitors in particular: 91% of the visitors were in a position to influence purchasing decisions. The accompanying Perimeter Protection Congress also proved popular, attracting 150 participants to consider the latest topics in perimeter protection. Kai-Uwe Grögor, Managing Director MZT (German Metal Fencing Technology Association) and honorary sponsor of the event, said: "After being staged just five times, Perimeter Protection has established itself in the sector. The atmosphere at the stands was very good without exception. There was particular praise for the fact all the main market players were in attendance. In future, I expect even greater interest in the event because both private and public security requirements will increase. Perimeter Protection remains a compact specialized fair in this sense." The next Perimeter Protection will take place at the exhibition venue in Nuremberg, Germany, from 14 to 16 January 2020 – save the date! **www.nuernbergmesse.de**

Optex Introduces Iberia Team at Sicur

Optex demonstrated its entire product portfolio at Sicur for the first time, and also introduced its newly-created Iberia team. Mark Cosgrave, Western Europe Divisional Manager, says Spain is a growing market and there is a clear demand for highly reliable, high-quality sensor technologies. A dedicated team of native speakers, consisting of Milton Acosta, Regional Sales Manager, and Tony Singh, Technical Sales Manager will support the network of approved and certified partners in the region. Milton joined in September 2017 and has been working in video management, IP CCTV, access control, automation, intrusion sensors, video analytics, fire detection and integration since 1996. Tony has been part of the Optex EMEA sales and technical support team for 17 years and is now based in Madrid to bring greater training support to the region. He also supports ‚proof of concept' for projects that include long range PIRs, laser and fiber optics sensors. The company used Sicur to launch a new series of short-range sensors, the VX and BX Shield, for protecting residential and commercial buildings.

www.optex-europe.com

Milton Acosta

Tony Singh

Hikvision's Artificial Intelligence Roadshow Tours Europe

Hikvision will be touring Europe with its new artificial intelligence (AI) experience in trucks from February until June 2018. Visitors are invited to discover the exciting world of intelligent surveillance with the company's innovations. Three separate trucks will be traveling through various European regions, visiting a total of 71 cities. Their routes will take the trucks through South Western Europe, South Eastern Europe and North Western Europe. Visitors can climb aboard the Hikvision experience and discover technologies, such as face recognition, and see live demonstrations as well as presentations on cutting-edge topics such as cybersecurity. The company wants to show participants how innovations in surveillance technology make invisible intelligence visible and usable, and what is possible when surveillance is powered by artificial intelligence. **www.hikvision.com**

Hanwha Techwin Europe Marketing and Training Alliance with ADI Global Distribution

Hanwha Techwin Europe has teamed up with ADI Global Distribution to raise awareness and highlight the advantages of Wisenet cameras, recording devices and video management software on offer to installers and system integrators. The two companies will hold live demonstrations of the full range of Wisenet video surveillance solutions at roadshows and seminars, place advertisements in leading European electronic security publications and produce bespoke direct mail communications and eNewsletters. The campaign will primarily be focused on educating the market on the benefits of Wisenet X cameras: the 2MP and 5MP models have a powerful chipset and are equipped with a motorized F0.94 varifocal Low Light lens; the company's HD+ analog cameras which Full HD images in 1080p without the need to upgrade cabling infrastructure; premium Wisenet P cameras deliver high quality 4K (12MP) images. **www.adiglobal.com**

Restructuring of Eyevis to be Completed Within Insolvency Proceedings

Eyevis, the German manufacturer of professional visual display solutions, wants to complete its initiated restructuring with the help of insolvency proceedings. The company filed a respective application to the local district court on Monday 5th December. Business continues unchanged meanwhile. The approximately 120 employees are covered by the insolvency protection until February. Eyevis had already worked with consultants to develop a restructuring concept and started reorganizing the company well before the bankruptcy petition. Significant success has already been achieved and a targeted search for potential investors was initiated. The goal is to reorganize the company and maintain the highest possible number of jobs. The insolvency proceedings include eyevis Gesellschaft für Projektions- und Großbildtechnik GmbH and eyevis Holding GmbH. The other companies in the eyevis Group – Teracue, eyevis France and eyevis Spain – are not affected. **www.eyevis.de**

Wavestore Appoints Simon Shawley as Sales Director

Wavestore has appointed Simon Shawley as its new Sales Director to oversee the company's sales strategy and drive growth across EMEA. Simon, who joined on 1st February 2018, has over 25 years' experience in the electronic security market having previously held senior sales and business development positions for companies including Hanwha Techwin and DVTel. Simon said, "Organizations are increasingly utilizing VMS to maximize their investment in electronic security and Wavestore's ability to bring together third-party devices and sub-systems such as cameras, intruder detection, access control and video analytics from the around the world onto a common platform, delivers clear benefits from both a technology and total cost of ownership standpoint." **www.wavestore.com**

Assa Abloy Growth in 2017

Assa Abloy ended 2017 with strong growth in the fourth quarter. The company grew by 5%, with positive trends for all divisions. Global Technologies and EMEA had strong growth of 9% and 5% respectively, and Americas, Entrance Systems and Asia Pacific all had good growth of 3–4%. Demand was positive for nearly all regions and business units, with strong demand for electromagnetically products and smart door locks. Sales increased in all EMEA regions. All business units in Americas also showed growth – even Brazil. In Asia Pacific there was growth in Pacific, South Korea and Southern Asia, while sales in China were stable. Digital and mobile solutions continued to be very successful on the market, and there was strong growth in Global Technologies for access control products and mobile keys for both hotels and companies. Strong growth was registered in Entrance Systems for door automation, industrial doors and high-speed doors. Operating income for the quarter increased by 5% and amounted to SEK 3,359 M with an operating margin of 16.7%. **www.assaabloy.com**

Campus Security: Safety App at New Dublin City University

Dublin City University (DCU) is providing emergency supports to staff and students anywhere in the world through a mobile safety application called SafeZone which links users with the University emergency response team. Provided by CriticalArc, the app, which DCU staff and students can download at no cost, will enable students and staff to connect with DCU's emergency response team if urgent help is required, first aid is needed, or an emergency occurs. DCU is the first university in the Republic of Ireland to roll-out SafeZone, which will be available to a student and staff population of almost 19,000 across the Glasnevin, St Patrick's and All Hallows campuses. The app is also of use to University staff and students who are working and studying overseas. SafeZone is already in use in higher education institutions across the UK, Australia and the United States. Users can alert the University emergency response team by activating the app on their smartphone and by pressing either one of three alert button options (Emergency, First Aid or Help). The location of the user is then sent to security personnel who can coordinate to provide the necessary help, quickly and effectively. As the system is privacy protected, a user's location will never be shared, unless they activate an alert for help, within designated zones. **www.criticalarc.com**

Motorola to Acquire Avigilon

Motorola Solutions announced that it has entered into a definitive agreement to acquire Avigilon in an all-cash transaction that will enhance Motorola Solutions' portfolio of mission-critical communications technologies. Under the terms of the agreement, Motorola Solutions will acquire all of Avigilon's outstanding shares for CAD$27.00 per share. The enterprise value of the transaction is approximately US$1.0 billion including Avigilon's net debt. "This acquisition will bring Avigilon's advanced video surveillance and analytics platform to the rapidly evolving public safety workflow, while also expanding our portfolio with new products and technologies for commercial customers," said Greg Brown, chairman and CEO, Motorola Solutions. "We're very pleased to be joining Motorola Solutions, as their vision and strategy aligns fully with our own," said Alexander Fernandes, Avigilon's founder, chief executive officer and chairman of the board. "This combination will bring new opportunities to Avigilon, allowing us to accelerate our innovation and provide even more value to our customers." **www.avigilon.com**

Nedap Wins Twice at Security & Fire Excellence Awards

Nedap came away with not one but two awards from the prestigious Security & Fire Excellence Awards 2017 in London. Nedap's AEOS end-to-end security platform won both Access Product of the Year and Cyber Security Innovation of the Year. Both awards underline the smart innovation that Nedap Security Management brings to the industry. AEOS end-to-end security applies the IT security principles of encryption and strong authentication to physical access control. By combining physical and cyber security in one system, it offers clients needing the highest level of security the best of both worlds. It helps them to optimize their security against cyber attackers using controllers to spread malware to other systems in their network. Daryn Flynn, Global Client Manager at Nedap Security Management says: "We're very proud to accept these esteemed international awards and the recognition that goes with them from the professional jury. It emphasises that AEOS end-to-end security is undoubtedly seen as one of the leading security solutions worldwide." **www.nedapsecurity.com**

Idis with Deep Learning Analytics at Intersec 2018

Idis returned to Intersec Security, Safety and Fire Protection trade show this year in Dubai, as the company moves to highlight current and future innovation as it begins its third decade of innovation serving the video surveillance marketplace. At Intersec, the company featured its flagship DirectIP technology platform, enhancements to popular stalwarts (including the DirectCX analogue offering and the Idis Solution Suite modular video management software), and debut new technology, including new efforts in the area of deep learning, poised to redefine video surveillance as we know it for years to come. The fast, accurate and scalable IDIS Deep Learning Analytics, powered by the Idis Deep Learning Engine offers nimble monitoring of people, cars and bicycles; and alerts for object detection, loitering and intrusion – all adapted to fit a 16:9 ratio. **www.idisglobal.com**

Recipients of Scholarship Program Announced

Paxton has announced the first recipients of its scholarship program in conjunction with the University of Brighton. The initiative offered the chance for students to win one of three scholarship places, each worth £10,000 plus a 3-month paid work placement with the company, forming the final year project of their degree course. The three successful students are Yury Johnson, Laurence Budd and Sam Innes. Adam Stroud, Paxton's CEO, said: "We hope ... the Paxton Scholarship will mean much more than just financial help. We believe it will highlight the diverse range of roles available within the security industry and the opportunities offered by a growing and exciting business sector." **www.paxton.co.uk**

Euralarm on State of Fire Safety in Europe

Euralarm has presented its position on the state of fire safety in Europe. The association calls for several measures to keep Europe fire safe. A presentation of the position of Euralarm as a representative of the electronic fire safety and security Industry took place during the launch conference of the EU's Fire Information Exchange Platform (FIEP), an initiative announced by the European Commissioner Elzbieta Bienkowska during a plenary meeting at the European Parliament. Since 1970, Euralarm has worked intensively with stakeholders in the areas of policy, regulations, standards and guidelines towards keeping Europe safe from fires. This has saved an estimated 100'000 lives in Europe. Together with over 20 national associations and all the major suppliers, Euralarm will continue this work. To continue the effort to keep Europe fire safe Euralarm calls for the following measures: A holistic approach towards achieving and maintaining fire safety that covers: The building structure and its contents must be considered as to how they contribute to the overall fire load as well as how they can hinder and restrain a fire event. Technical means to provide early detection and evacuation of the building coupled with extinguishing. Organisational plans on what is to be done in such an event and who is responsible to execute what measures. Qualifications of the people and companies that define the (holistic) fire safety concept, design/engineer the solution, install and commission such and finally those maintaining the systems must be in line with the recently released EN 16763 Services Standard for Fire Safety Systems and Security Systems. A pan-European data collection of fire events is required. Euralarm has completed a 3 year study of several countries and concluded that a European approach is greatly needed. A European Norm based on the knowledge derived from the Euralarm report would advance this effort, allowing all to quantify and qualify the problem, but also define corrective measures. **www.euralarm.org**

Food and Beverage Company Uses PoLRE Switches for IP Phones

One of the world's leading food and beverage manufacturers needed to migrate their analog voice systems to IPT throughout multiple factories. The extensive replacement of single-pair/CAT3 wiring with Ethernet across all locations posed a massive barrier to the project, causing a 1-2 year implementation roll-out. That's when Avaya brought in NVT Phybridge to fast-track the migration with plug and play PoLRE IP-enabling solutions. "The PoLRE literally solved every migration concern we had, especially around costs and complexity. Its simplicity, stability, and ease of deployment quickly provided the IP we needed to support our new Avaya system and features for all of our users", said Sr. Manager, Telecommunications Multinational Food and Beverage Company. Solution: The customer engaged integrator JT Global who introduced the NVT Phybridge PoLRE (Power over Long Reach Ethernet) solution as the migration problem-solver. In just a few simple set-up steps, the plug-and-play PoLRE switch eliminated the infrastructure barriers the customer had been facing. In addition to supporting the new phone system and thousands of connected IP devices, the PoLRE switches enabled a point-to-point voice LAN dedicated to the new voice system, physically separating it from the production data LAN at each desktop, and providing a further layer of system redundancy. Result: The new, centralized VoIP solution was deployed across the 47 factories in only a 4-month IP migration. **www.nvtphybridge.com**

Dahua and Seagate 10 Years of Partnership

Seagate and Dahua held a ceremony to commemorate ten years' partnership at Shenzhen Convention & Exhibition Center of China. Dahua Technology VP and General Manager of the Domestic Business, Mr. Zhang Wei, and Seagate Technology Global VP and President of China Region, Ms. Sun Dan, were present at the ceremony to celebrate their ten years' partnership and join hands in riding the new wave of artificial intelligence in the development of the security industry. During the event, Seagate awarded Dahua the title of "Seagate Global Security Strategic Partner", further strengthening its cooperation between the industry leaders and continuing to jointly develop market opportunities and drive the development of the security industry. Seagate is a global leader in the field of data storage solutions. Ten years ago, Seagate established a specialized sales and technical team and started partnering with surveillance equipment manufacturers. Seagate Technology Global VP and President of China Region, Ms. Sun Dan, noted that during the ten years of cooperation between Seagate and Dahua, a strategic relationship was formed and many high-performance, large-volume, and high-reliability storage products had been released to provide stronger support to video surveillance storage. **www.dahuasecurity.com · www.seagate.com**

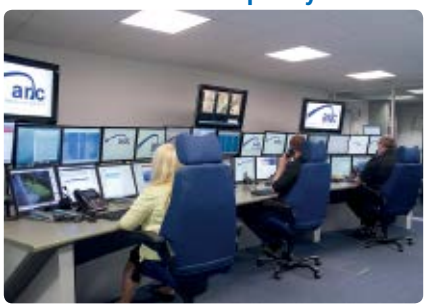
Hanwha Techwin Launches new VMS Brand Wisenet Wave

The new Wisenet Wave video management software (VMS) from Hanwha Techwin makes it almost effortless to display up to 64 high definition video streams. Hanwha Techwin already offers an entry level free VMS called SSM and for sophisticated Enterprise level VMS projects, the company integrates with technology partners such as Genetec and Milestone. Wisenet Wave has been launched to answer the needs of projects in the middle ground with an emphasis on simplified user experience. An intuitive 'drag & drop' tool makes it extremely easy for operators to set up a display of live and recorded images on a single screen or video wall, with customisable layouts and sizes. Other key features include a virtual PTZ which, with just simple clicks of a mouse, enables operators to zoom in to see close up detail of any suspicious activity, whilst motion detection and video analytics support can be configured to generate alerts when user defined incidents occur. A wide range of smart, keyword, calendar and time-slice search options facilitate rapid retrieval of recorded video. Wisenet Wave offers a wide range of options to allow users to choose how and where they wish to manage their video surveillance systems with minimal hardware requirements. **www.hanwha-security.eu**

Seetec Integrates Panasonic

Panasonic's latest camera lineup has been successfully integrated into SeeTec Cayuga, the Video Management System of Seetec, with the development of the Panasonic Smart Driver. SeeTec provides particular solutions for the retail, finance, transportation and logistics industry as well as for critical infrastructure and cities. **www.seetec.com**

Arc Monitoring Doubles Control Room Capacity



Arc Monitoring has completed a major upgrade of its control room facilities. The revamp of one of the UK's fastest growing independent Remote Video Response Centres (RVRCs), reflects the confidence Arc Monitoring has in the continuing growth in demand for the services provided by operators within its NSI Gold Category II control room. "The boom within the construction industry, as well as a large number of solar energy farms springing up all over the UK, are just two examples of where opportunities have been created for RVRCs such as Arc Monitoring, to offer a cost-effective alternative to having security guards on site 24/7," said Jonathan Sturley, Managing Director of Bristol based Arc Monitoring. "This is in addition to the demand for our services from a diverse range of other vertical markets including the luxury home sector, trading estates and car dealerships. "The significant investment we have made in upgrading our facilities will ensure we are able to continue to recruit additional high caliber operators in line with demand." In addition to doubling the number of work stations within its control room, Arc Monitoring has upgraded its IT infrastructure in order to take advantage of the latest data process and network recording and storage technology. It has also improved its demonstration and training facilities. **www.arcmon.com**

Genetec Announces New Executive Appointment in APAC

Genetec announced that Mr. Daniel Lee has joined the company as Managing Director for its Asia Pacific (APAC) region. In this executive appointment, Lee will be in charge of managing sales and strategy to bring the company's unified IP security solutions to broader APAC markets. Lee's responsibilities will include leading a growing team of sales, support, training, and marketing professionals to achieve continued growth and innovation across the APAC region and expand into new markets. Mr. Lee is a seasoned IT industry entrepreneur, CEO, angel investor, and board member. For 19 years, he grew his own IT and Physical Security services distribution business called Lan 1, which was acquired by Hills Limited, Australia, in 2012. Lee joined Hills as an advisor to the board and served as Head of Product Practice until 2016. Lee has a Bachelor's degree in engineering and electronics from the University of New South Wales, Australia, and speaks English, Cantonese, and Mandarin. Lee is a standing member of the Australian Institute of Company Directors, and will be based in the Genetec Singapore office, traveling extensively throughout the APAC region. "We are pleased to welcome Daniel Lee to the Genetec family as Managing Director for the APAC region," said Guy Chénard, Vice President, Global Business Development and Sales at Genetec. "Daniel brings many years of experience and a fresh determination and drive to expand Genetec solutions for security, intelligence, and operations to the APAC market," added Chénard. **www.genetec.com**

Zaun at intersec 2018

Zaun unveiled two brand new products at the 20th staging of Intersec. Zaun announced CorruSec SR3 and CorruSec Premier SR4, two new high-security fence systems that resist, for more than 5 and 10 minutes respectively, sustained attack with designated specialist power tools. Zaun's stand featured its full suite of SR-rated products, installations of its unique raking ArmaWeave fencing system and government-rated PIDs & PulseSecure electric pulse fencing from electronic and electrified perimeter security systems business Harper Chalice. Zaun co-founder and director Alastair Henman has made no secret of his intentions to refocus Zaun on its manufacturing strengths and set it apart with pioneering innovation and bold investment. To that he has added strengthened relationships with core contractor customers and architects, strategic acquisitions and renewed energy on collaboration and partnering. He said before Intersec: "It all contributes to a massively exciting future we are building at Zaun. We are confidently ready to forge into the future and approach 2018 with record consolidated turnover and profit." **www.zaun.co.uk**

British Prison Pioneers War Against Drones

A Channel Island prison has become the first in the world to use a new system designed to stop drones smuggling drugs, weapons and other contraband over perimeter walls. A group of British companies has collaborated to install a comprehensive perimeter protection package at Les Nicolles Prison on Guernsey, including the new "Sky Fence" technology. It creates a 600m shield around the prison to detect remote-controlled drones then uses a series of 'disruptors' – sensors to jam the drone's computer – to block its frequency and control protocols and divert it back to where it came from. Drones have become a major security problem in Britain's prisons and are increasingly used to smuggle in drugs, weapons, phones and other valuables. Les Nicolles has ordered around 20 disruptors on the perimeter fence line and within the jail. Sky Fence is the creation of British companies Drone Defence and Eclipse Digital Solutions, while steel fencing manufacturer Zaun and Coventry-based PIDs business Harper Chalice have also supplied product installed by the UK's premier prison perimeters installer Binns Fencing. **www.zaun.co.uk**

ONVIF at Intersec 2018

ONVIF has participated in Intersec 2018 in late January in Dubai, where Stuart Rawling, Steering Committee member, spoke as part of Intersec's AI and Information Security Conference. In this discussion, "It takes a Village: Addressing Cyber Security Threats Through Standardization, People and Process," Rawling discussed the interplay between the elements of standardization, people and processes, and how ONVIF leverages established best practices for cyber security in its specifications. Rawling stressed that the importance of cyber security is exponentially increasing, as the number of IoT devices is expected to surge in the next three years. Nearly 80 of ONVIF's member companies were also participating in the exhibition this year. **www.onvif.org**

The Expanded Metal Company Appoints Paul Green

The Expanded Metal Company has made a new appointment to drive further growth in the security sector. Paul Green – who first worked for the Hartlepool-based firm as a stock control clerk 40 years ago – has returned to take up a business development role, focusing on the company's ExMesh range of security solutions. In his role, Paul will be responsible for driving sales of ExMesh's certified high security products and expanding the firm's presence within the security sector on a national and international basis. Philip Astley, managing director at The Expanded Metal Company added: "I am thrilled that Paul has returned to his roots at The Expanded Metal Company. Paul has a wealth of experience that spans the security sector and this will prove highly valuable as we continue to develop the ExMesh range and support contractors and end users in protecting critical infrastructure and at-risk sites." **www.expandedmetalcompany.co.uk**

Dahua Recognized by the State Intellectual Property Office as a Major Innovator

Dahua Technology has been officially crowned by the State Intellectual Property Office (SIPO) as one of the "2017 National Intellectual Property Role Model Enterprises". Its patented "HD digital video signal transmission methods and devices, cameras, and aggregation equipment" are recognized as a winner of the 19th China Outstanding Patent Award. According to the Notice issued by SIPO on December 20th, Dahua is one of the 182 companies crowned with the title. These companies are widely acknowledged as key companies that can lead and greatly influence industry in their own realms. In 2016, Dahua continued its high investment in R&D, which reached 10.69% of sales revenue this year. Till the end of November, 2017, Dahua R&D Center, with more than 6000 employees, has filed more than 1340 patents, 654 have been granted including 146 invention patents. Dahua is working hard to accelerate the transformation of technological achievements to actual productivity, creating added values to its customers and partners. With a mission of "Enabling a safer society and smarter living", Dahua will continue to focus on "Innovation, Quality, and Service", to serve its partners and customers around the world. **www.dahuasecurity.com**

Optex presented Multi Layered Protection Approach at Intersec

Optex demonstrated its multi-layered approach to protecting critical infrastructure – from the initial outer perimeter to the inner areas including detection of unauthorised access at intersec 2018. "In the Middle East region", says Jacques Vaarre, Managing Director for Optex EMEA, "we are focusing on the high security element of our intrusion detection portfolio that protects critical infrastructure as there is the requirement to increase security provisions for oil and gas, utilities, and government buildings." "The fact that our fibre optic sensors, laser sensors, infrared beam towers and external PIRS are available as IP/PoE and integrated with all the major VMS platforms has proved a significant advantage in making security systems easier to install and more reliable in operation," Jacques adds. **www.optex-europe.com**

CyberSecurity Predictions for 2018

Researchers at Airbus' external Cyber Security business have compiled their top technology predictions for 2018, based on trends identified at its Security Operations Centres in France, UK and Germany during 2017.

- Prediction 1: A lack of social media security policies will create serious risks for enterprises. As observed during 2017, social media platforms are regularly being used for the spread of fake news or the manipulation of public opinion. But social media can also be used for sophisticated social engineering and reconnaissance activities which form the basis of many attacks on the enterprise. Criminals and hackers are known to use these platforms to distribute malware, push rogue antivirus scams and phishing campaigns to lure their victims.
- Prediction 2: Attacks on Wireless networks will escalate. Attacks on Wireless networks will increase as attackers seek to exploit the Key Reinstallation Attack (KRACK) vulnerability, first made public in October 2017. The vulnerability can allow an attacker to intercept and read Wi-Fi traffic between devices and a WiFi router, and in some cases even modify the traffic to inject malicious data into websites. It could also allow attackers to obtain sensitive information from those devices, such as credit card details, passwords, chat messages and emails.
- Prediction 3: Encryption will continue to represent challenges for law enforcement. Concerns about data privacy, the increasing use of cloud computing, an increase in data breaches and the introduction of General Data Protection Regulation (GDPR) will all contribute to the emergence of End to End Encryption (E2EE) as the most effective way for enterprises wishing to secure their data. But E2EE will also represent some challenges to law enforcement as criminals continue to use this technique for espionage and subversion. **www.airbus.com**

Nedap Equippes Swiss Re with Access Card Technology

Swiss Re will equip 48 of its buildings with the latest version of AEOS, Nedap's physical access control system. Through a state-of-the-art badge system, using Mifare Desfire card technology, employees with specific safety and security clearance will be able to access dedicated Swiss Re buildings. The implementation of AEOS is part of the Global PACS project to replace ageing access control systems in Swiss Re buildings around the world. The AEOS system is designed to ensure the best possible physical access control. Installation of AEOS technology at the 48 Swiss Re buildings will be done by local partners and supported through the Nedap Global Client Programme. Security & functionality combined Zürich-based Swiss Reinsurance Company Ltd, generally known as Swiss Re, is the world's second-largest reinsurer. Fokko van der Zee, managing director of Nedap Security Management says: "Swiss Re is a unique, landmark organisation, where security of information systems and premises are an essential part of their operations. With AEOS, we deliver a state-of-the-art physical access control system using the latest generation of high-end technology." Nedap's AEOS platform will replace two existing security systems at Swiss Re.

www.nedapsecurity.com

Panasonic
BUSINESS

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EVENT

A Fresh Breeze of Change in Essen

More Convenient, More Digital, More Networked: Security Essen 2018 Gets Smarter

Security essen, the global fair for civil security, will see some changes in content and space. Starting with the coming event, exhibitors and visitors will profit from a new hall allocation and enhanced content at Messe Essen. As well as access control, video, fire and intruder protection, the hot topic of cyber-security gets its own focus. We asked Sabina Großkreuz, Senior Vice President Marketing and Julia Jacob, Head of Project at Messe Essen for some advance information.

Head of Project, Julia Jacob, and Sabrina Großkreuz, Senior Vice President Marketing at Messe Essen

GIT SECURITY: Mrs. Großkreuz and Mrs. Jacob, a fresh wind appears to be blowing through your (fair) halls – in all aspects of security essen 2018 and of the Messe Essen in general. What has been going on there over the past few months?

Julia Jacob: In the last few months a lot has happened here in Essen. The conversion of the fair site is in progress and the East Foyer – as the new face of the fair site - will be opened with a festive ceremony on November 28th. We are using the new hall constellation to put security essen on a fresh footing as far as both the space and the content are concerned. Thanks to the modernization of the fair site, from 2018 we will be able to use eight large and clearly arranged halls, which will be state-of-the-art in technology and will permit two-storey booth construction and optimum experiences at the fair, both for exhibitors and visitors.

What about the new fair site, how far are you now – and how far will you be next fall?

Julia Jacob: The first construction phase will be concluded in the near future. security essen will take place from September 25 to 28, 2018 on a largely modernized site that will set new standards at the end of the work in 2019. The next edition of the fair will already enjoy modern, light halls with the newest ventilation and air conditioning technology, WLAN in all areas, a comfortable Guest Club and many other innovations that will not only make the stay pleasant but will also make the exhibition more efficient.

Messe Essen and (of course, particularly interesting for our readers) security essen has also been put on a new footing as far as the organization is concerned. Both of you have already been in office since September 2016. What are your precise responsibilities and tasks – and have you got to grips with them in the meantime?

Sabina Großkreuz: As a Vice President, I am responsible for all the events staged by Messe Essen itself which, of course, include security essen. In September 2016, Julia Jacob assumed responsibility for the project management of our fair for civil security. We place emphasis on the joint strategic and content-related refinement of security essen - on the market and with the market participants. In this respect, it is important to us

to provide the maximum benefit for exhibitors and visitors alike. security essen 2018 is not only an international marketplace for the sector and its trend barometer but also a meeting place for the exchange of specialist ideas and the transfer of knowledge. So both exhibitors and visitors can be very curious about the highly topical and informative support program. As examples we would like to draw attention to the Cyber Security Conference in cooperation with the Federal Office for Information Security (BSI) and BHE Federal Association for Security Technology, the Drone Course, the Fire Prevention Forum and the special area called 'smart home security'.

What subject fields will security essen 2018 cover – and what visitor structure are you hoping for?

Sabina Großkreuz: In the future, our fair in Essen will be oriented even more strongly to the range offered by the exhibitors and will be divided into six high-level themes: Services in Hall 1; Access, Mechatronics, Mechanics and Systems in Halls 2 and 3 and the Galeria; Video in Halls 4 and 5; Fire, Intrusion and Systems in Hall 6 and Perimeter Protection in Hall 7. The Messe Essen will also reserve the new separate Hall 8 for the subjects of Cyber Security and Economic Security for the first time. We will meet the needs of a lot of target groups and will be in close contact with our exhibitors in order to identify and strengthen new, relevant target groups that are important to the sector. Most recently, visitors came to us from almost 120 countries. We are expecting strong participation from abroad again in 2018.

Security is being sorted into an almost completely new form. What inspired you to make the new hall arrangements and how did you proceed with the decision?

Sabina Großkreuz: We consulted and agreed with our partners about the new thematic hall allocation. On the one hand, we naturally proceeded according to the layouts of the halls and the size of each of the subject areas in order to achieve an optimum utilization factor. On the other hand, there are certain subject areas that we want to extend even further – for example the areas of Fire Prevention and Cyber Security. So for these, we have chosen halls that can support growth in the long term so that exhibitors will have maximum planning certainty and development opportunity. Last but not least, we have of course adjusted the key topics to the market conditions. For example, it is now hardly possible to make a classic, very precise separation between mechanical and electronic security technology and so we have combined the areas.

In the past years, security has had to tolerate quite a lot of rebukes. From the air conditioning, the hall floor and the hall occupancy right up to the curried sausages: no aspect seemed to remain uncommented. Even the visitor structure as such and the meaningfulness of security itself were questioned by some individuals. What conclusions have you drawn from this and what measures have you initiated?

Julia Jacob: We have understood the criticism expressed in the past as a chance to improve ourselves, we have taken it seriously and have refined ourselves correspondingly. We will meet the needs of the sector with regard to both content and structure and will create the forum in order to redefine them. From 2018, the modernized halls and the new subject structure will offer the optimum conditions for this. When Security Essen opens its doors in less than a year, the fair venue will be one of the most modern in Germany. Security is becoming more digital and more networked, and the subject of civil security is more topical than ever. We are expecting a very successful fair in 2018. Over two thirds of the exhibition area for 2018 has already been marketed.

… and how do you see security positioned in the field of other fairs relating to all aspects of the subject of security – such as Intersec, Ifsec, Light + Building or the events in Nuremberg such as Feuertrutz, Perimeter Protection, U.T.Sec and itsa?

Julia Jacob: As a well-established international fair, it is not specialized in one area but instead has a holistic approach. In this respect, attention is focusing on future technologies. As an impetus-providing global fair, the event has a special position and becomes the meeting place of the security sector every two years. Other characteristics of the event are the number and internationality of our exhibitors, the size of the exhibition area and the number and quality of the visitors. The top decision-takers of large companies, the security experts from corporate groups, authorities and associations, engineers and the wholesale trade come to Essen, from Germany and abroad, to obtain information and place orders here. In the future too, we will create the conditions to ensure that the fair will be the meeting place of the security experts.

What environment is going to make it particularly easy for exhibitors and visitors to security to spend a few days in Essen in September?

Julia Jacob: The modernized Messe Essen, the new subject structure and user guidance, a highly representative exhibition with many innovations and a highly attractive supporting program tailored to the sector and, of course, the hospitable city of Essen. The attractive Rüttenscheid district is directly on the doorstep and, with cafés and restaurants, will encourage guests to enjoy the golden autumn in the Ruhr region.

Please just close your eyes and think of security 2018 – what do you see?

Julia Jacob: Market leaders, global players and newcomers and full halls on a highly attractive fair site – and since we are generally seeing that security is becoming ever smarter, a lot of digitization and Industry 4.0. In addition, subject worlds, a fantastic support program as well as satisfied exhibitors and visitors.

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Get a visual impression of the show by watching GIT SECURITY's show video on our homepage:

EVENT

Intersec 2018: a Review by GIT SECURITY

Celebrating the 20th Edition

GIT SECURITY explored topics, trends and exhibitors for you! Product launches, product demonstrations and interesting discussions accompanied us through the exhibition.

GIT SECURITY says Thank You to their helpers at the Intersec App Stand!

Intersec 2018 concludes in Dubai with all eyes on AI and Cyber Security. This year, Intersec Dubai featured 1,337 exhibitors from 59 countries, while 29,532 visitors from 129 countries stopped by the Dubai International Convention and Exhibition Centre.

Sharing centre-stage were dozens of product launches, while live demonstrations of fire protection equipment and drones used across a wide range of applications kept thousands of buyers and industry professionals entertained and informed.

Among the new features at the 20th edition of Intersec was an indoor Drone Zone, along with two dedicated conferences on Drones and Artificial Intelligence. Greg Agvent, Senior Director for CNN Aerial Imaging and Reporting, spoke at the Intersec Drones Conference about the potential uses for drones in information gathering.

Al Razooqi said Dubai Police plans to open another eight Smart Police Stations in 2018, and while AI and robots will in the future take over more routine daily jobs, that won't mean less 'human' manpower: "There have been rumours that due to AI and robotics at Dubai Police, there will be less police officers but this is not true," he added. "We're going to create more advanced positions, where they can provide a better service to keep our residents and visitors happy and safe."

GIT SECURITY Highlights

Arecont Vision unveiled their MegaDome UltraHD. The camera is loaded with features, including a motorized remote focus/zoom P-Iris lens mounted in a 3-axis gimbal. "The MegaDome family continues to lead the dome camera segment with the many features and capabilities built into this installer-friendly camera series that our customers have come to expect," said Brad Donaldson, Vice President of Product Development, Arecont Vision. The true day/night indoor/outdoor MegaDome UltraHD dome camera is loaded with features, including a motorized remote focus/zoom P-Iris lens mounted in a 3-axis gimbal.

While Artificial Intelligence has become the most trending technology in the security industry, this year, under the theme "AI+ Empowering Partners", Hikvision showcased a series of their latest and most advanced technological innovations with AI Technologies.

With their state of the art KeyWatcher and AssetWatcher, Morse Watchmans demonstrated their products to us. "Morse Watchmans is evolving asset management systems with AssetWatcher," said

© GIT SECURITY

Intersec is held under the patronage of H.H. Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum

Fernando Pires, CEO at Morse Watchmans. "AssetWatcher adapts many of the features that our clients have come to rely on with KeyWatcher and implements RFID tracking technology to provide the highest levels of security and organization for assets."

Idis welcomed us with their slogan: 'It's not the same. It's Idis', referring to their constant improvement upon common industry offerings. With their newly launched deep learning technologies, Idis is poised to redefine video surveillance as we know it for years to come. Read all about their powerful range of vertical surveillance solutions, their fast, accurate and scalable Idis Deep Learning Analytics, powered by the Idis Deep Learning EngineA complete line-up of H.265 cameras and NVRs, including the newly enhanced Idis 12MP Super Fisheye Camera.

Evva´s product "AirKey" has been enhanced by a host of new features. Send a key, geotagging and iPhone compatibility – numerous, smart functions enhance the application range and maintain maximum security levels. GIT SECURITY saw AirKey onsite.

At Intersec 2018, Assa Abloy was showcasing connected solutions for smart buildings. New for 2018 is the Smartair Openow smartphone app which enables users to unlock protected doors via an encrypted Bluetooth connection. We also congratulate Assa Abloy for winning the first place of GIT SECURITY AWARD 2018.

Avigilon announced its latest innovation in video analytics capabilities with the launch of Avigilon Unusual Motion Detection (UMD) technology, available in its upcoming Avigilon Control Center (ACC) 6.8 video management software.

Genetec unveiled Citigraf, a decision support system that unifies public safety operations across city departments for interagency collaboration. Genetec also showcased Security Center 5.7, its unified, open architecture security flagship. Find a detailed exhibition recap on Genetec here. Congratulations are also in order for Genetec. They received their trophy for third place of GIT SECURITY AWARD 2018 already.

Bosch showcased the latest technologies in Commercial & Information Security, Homeland Security & Policing, Fire & Rescue, Perimeter & Physical Security, Smart Home and Safety & Health at intersec, including their GIT SECURITY AWARD Winner: The MIC IP fusion 9000i optical and thermal camera.

Nedap Identification Systems launched Mace Smart: a slim multi-technology reader for mobile access control at intersec. This elegant reader is the newest addition to the Mace platform, which enables the use of smartphones in any access control system.

New Discovery

In times of terror, Marshalls shows the security world how to safeguard public spaces very discretely by installing crash tested street furniture like litter bins, benches, planters and many more. The installation involves a lot of creative thinking, using their engineering and design know-how to create spaces that are safer by design from the outset. By incorporating their experience and expertise from a broad range of landscape design disciplines with a range of PAS/IWA-14.1 rated products in a selection of materials and finishes, Marshalls can help effectively mitigate hostile vehicular attacks without compromising the look, feel and safety of our urban environment.

Successful Show App

In collaboration with Messe Frankfurt Middle East, GIT SECURITY provided the exhibitors and visitors with a handy tool: The official intersec Dubai App. The GIT SECURITY team was proud to receive great feedback from a lot of visitors. 2,350 users downloaded the truly remarkable tool with a 3D floor plan, highlights and theme tours, plus navigating through the halls visiting intersec 2018 was an easy task.

Next Year

Ahmed Pauwels, CEO of Messe Frankfurt Middle East, said: "Intersec 2018 has further cemented its position as the world's premier trade platform of its kind for the security, safety, and fire protection industries. We've had participation from the majority of the world's foremost safety and security brands and attracted a wide representation of global experts and key influencers to our safety and security forums. Twenty years is a landmark for both Intersec and the region's standing as a major global security market. We intend to continue to build on our success and look forward to far greater developments and achievements in the future while working together with the authorities and the active support of the government."

The 21st edition will take place from 20–22 January 2019.

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EVENT

Sicurezza 2017: Success and Satisfaction

International Growth and a New Expo Synergy

Sicurezza 2017 has provided the complete offering, where everyone could find the answer to their needs. Business, training, integrated solutions, novelties and previews were all in the focus of the three-day event that operators, exhibitors and visitors have helped to make a major event in the security industry.

The 2017 edition of Fiera Milano's international biennial exhibition dedicated to security and fire ended with great satisfaction for exhibitors, visitors, and organizers. For the first time, the event took place alongside Smart Building Expo, the event organized by Fiera Milano and Pentastudio dedicated to the concept of smart buildings. And the figures are evidence of this success: 25,569 professional visitors (+35% compared to the previous edition), 465 exhibitors (+40%) distributed across three pavilions (versus 2 in 2015).

"The results [..] demonstrate that moving the event two years ago to odd years has worked," explained Giuseppe Garri, Exhibition Manager of the event. "The strategy has kept a keen eye on the international scenario and has received an incredible response, with the number of foreign exhibitors up 48% and the number of international visitors also on the rise." But such an event cannot be read just through statistics. The quality of the products on offer and the vast array of solutions have placed Sicurezza 2017 at the center of this industry at a very interesting time for those who want to exploit technological development to seize new opportunities.

Large and Small Solutions

Over the three days of the event, the spotlight was on video surveillance and the many AI applications that make systems even more efficient and multifunctional; access control and its combination of design and advanced technology, such as biometric recognition; passive security and mechatronic locks that can be controlled from your smartphone; anti-intrusion systems, which are increasingly user-friendly and integrated into other home or building functions; and fire protection, which is cutting out an increasingly dominant role with the presentation of the latest solutions for detecting and putting out fire.

Solutions for increasingly smarter cities also drew a lot of attention. These solutions ensure high-end services and comfort, as well as technologies that can be used to fight terrorism and

Albert Janicki: readers at CEM booth

AVS partners BKH: P Kane, C. Reichel

Iseo booth

Allegion and SimonsVoss booth

At Sicurit with Sebastiano Vento (m)

Interested visitors at the Hikvision stand

"Welcome to Dahua City"

improve security in urban areas. Even drones were demonstrated in this edition of Sicurezza, and how security really takes off with them when it comes to monitoring and rescue. Whether we are protecting our home or ensuring the freedom of those who feel threatened by possible acts of terrorism, or even defending our natural heritage from environmental disasters, today's challenge focuses on the integration of highly innovative technologies and flexible solutions that can be managed in any situation, even remotely.

This evolution could be seen even among the stands, which were very different from the ones at the past editions of Sicurezza. Homes, roads, cities and offices were recreated to illustrate the good practices and solutions applied. This way, operators could understand how the new technologies perform and how they can be integrated.

Learning and Legislation

Over the three days of the events, there was also room for professional updating, which has become just as important as developing new solutions to be competitive. The two events offered 150 sessions with the participation of over 2,500 operators, meeting the needs of security professionals and building designers. The sessions focused on hot topics such as privacy and the new European regulations; security in vertical markets, such as retail; the use of technology to fight terrorism; security in cities and the role of Public Administration. There was the opportunity to delve into technical and regulatory issues, cyber security and the role of artificial intelligence in the management of security systems. Insights into fire protection were also provided.

The synergy with highly qualified industry players, professional associations and editors, as well as the rich training program, themed areas and initiatives proved to be a huge success. They offered an alternative point of view, drawing interest to hot topics such as privacy, cyber security, smart cities, retail, even drones, new materials for smart cities and the advantages of technology integration. Interactive spaces full of information and opportunities to share created the ideal setting for networking and to make new professional contacts.

A Very Promising Start: Smart Building Expo

The partnership between Sicurezza and Smart Building Expo, the event for the building automation industry organized by Fiera Milano and Pentastudio, was a success. It was an opportunity to improve Sicurezza's scope and to create an interesting synergy with the world of smart building networking, for which security is an increasingly important aspect. Both exhibitors and visitors had the chance to find a broad overview of the complex smart building market all in one place, without having to chase other events specializing in particular niches.

Together with Sicurezza, Smart Building Expo has clarified its original focus: integration. This means providing a completely new work model that brings together the interests of an articulated supply chain based on a partnership strategy, which identifies its growth potential no longer in the sale and installation of individual products but in the pursuit of a common base among the different professional figures involved (designers, manufacturers, technology developers and installers) and the development of structured solutions for buildings. Smart Building Expo has consolidated the concept of smart building as a factor in technological progress, which can drive economic growth and raise awareness about the need for a cultural leap for the world of design, installation, and construction.

The Importance of Synergy: Itassicura

The growing importance of the security industry was also demonstrated by Itassicura, a two-day event organized by 3C Advertising in partnership with Osservatorio, an online magazine dedicated to insurance sector professionals. This sector is becoming increasingly synergistic with the security segment, which is currently experiencing a period of great transformation with implications for the industry as a whole. The next Sicurezza and Smart Building Expo events will be held in two years, from 13 to 15 November 2019. Save the date!

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Chat at Infinite Play

Talk about Iseo access control

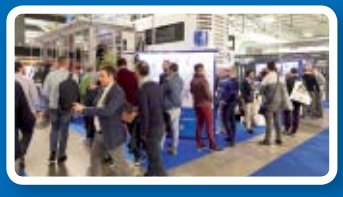
Hikvision cameras

Big entry: Inim booth, showing intrusion detection

Lot of visitors at Ksenia booth, Sales Director Flavio Zarlenga explaining

Discussion at Inim booth

Traffic at Sicurit booth



Johnson Controls and Tyco

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EVENT

Light + Building 2018

Focus on Safety and Security Technology

'Connected – Secure – Convenient' is the motto of Light + Building, which will be held in Frankfurt am Main from 18 to 23 March 2018. More than 2,600 exhibitors are preparing to present intelligent and networked solutions, future-oriented technologies and current design trends, which increase not only economic efficiency of buildings but also the comfort and safety and security of the users.

Electronic Security Is an Indispensable feature in Smart Buildings

One of the top themes of the coming fair will be safety and security technology. With leading companies from the fields of building automation and safety and security technology, the conference Intersec Forum and the new 'Secure – Connected Security in Buildings' special show, Hall 9.1 forms the heart of the integrated building-services technology sector. Accordingly, several companies are showing smart-building and security solutions in addition to presentations by the building-standard organisations, such as LON, BACnet, EnOcean, Z-Wave and KNX.

Secure!

Additionally, the 'Secure!' special show presents innovative electrical security products in a realistic setting with fully interconnected safety, security and building-services products and systems. Altogether, more than 40 companies are supporting with their products, solutions and services. Also in Hall 9.1, the yearly Intersec Forum conference takes an in-depth look at the subject of interconnected safety and security technology on five days, from 19 to 23 March.

Moreover, leading manufacturers from the safety and security technology and building automation segments are presenting their innovations in other halls at Frankfurt Fair and Exhibition Centre. In total around 150 companies show innovations in safety and security technology.

CONTACT

Messe Frankfurt
www.light-building.com
www.intersec-forum.coml

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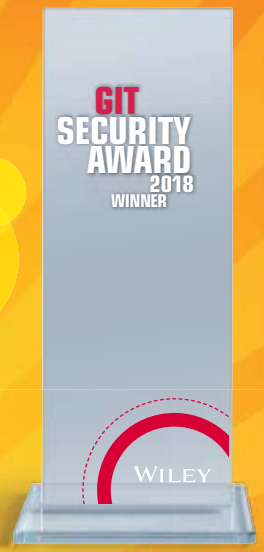
GIT SECURITY AWARD 2018

The Winners

It is always a special occasion to hand over the GIT SECURITY AWARD trophy to the winners. This year, we could reach out to some of the winners at Intersec Dubai. But the excitement is not over yet: The other winners will receive their trophies later on, as you will see in our next issue.



CATEGORY C
VIDEO SECURITY

Dr. Heiko Baumgartner (l.) and Steffen Ebert (r.) were pleased to award Hanno Vogels (m.l.), VP Sales EMEA and Erika Görge (m.r.) from Bosch Security Systems.

(fltr) Dr. Heiko Baumgartner, Etienne Van Der Watt (Engineering & Training Manager MEA), Philippe Kubbinga (Regional Director Middle East & Africa) and Sheetal Rao, Distribution Manager MEA

Award winning Axis team: Torsten Kasten (m) and Jochen Sauer (r)

CATEGORY E
SAFETY AND SECURITY MANAGEMENT

Robert Wang, Technical Director at Hikvision, receives the award at Intersec in Dubai

Matthias Rabe (m) and Willy Klein (r), winners with Dom Tapkey

CATEGORY D
ACCESS CONTROL, INTRUDER ALARM, PERIMETER PROTECTION

Wiley´s Steffen Ebert (l) with Assa Abloy: Murtaza Huseini (2nd, fltr), Thomas Schulz, Robert Siegmund and Jochen Wizemann are as happy…

…as Andreas Wagener (l), MD at Assa Abloy, about the Award for Cliq Go

Teresa Herbert (l) and Verena Fischer taking the Award for Uhlmann & Zacher

WILEY

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STANDARDS

The Evolution of ONVIF

Celebrating Ten Years is Not a Standard – it's Exceptional

ONVIF began in 2008 as a small group of manufacturers collaborating to accelerate the acceptance of systems based on network surveillance cameras. The mission hasn't changed much, but its application and influence has: ONVIF is now an industry alliance for the physical security industry that calls most of the industry's major manufacturers as its members. With more than 9,000 ONVIF-conformant products and members on six continents, their specifications for video and access control have also been adopted by the International Electrical Commission, one of the world's most influential standards organisations. Not bad in ten years.

Like other standards, ONVIF has evolved incrementally and its development, use and acceptance have as well. Global standards, such as those from the International Electrotechnical Commission and Bluetooth as well as manufacturer standards like HDMI have experienced similar ebbs and flows in many of the ways that ONVIF has. Over time, these organisations have expanded the scope of their standards, adopted their approaches to standardisation when needed and have dealt with issues of false conformance, just as ONVIF has.

Building a Foundation

Standards organisations are often initially founded to create a specific kind of benchmark within an industry. ONVIF was founded by Axis, Sony and Bosch to create a global standard for the interface of network cameras and video management systems to offer an alternative to the long since standardised analog CCTV industry. The organisation sought to provide greater freedom of choice so installers and end users can select interoperable products from a variety of different vendors. The founders also hoped to rationalise product development for manufacturers by establishing a basic integration standard, enabling developers to devote resources to product and technology innovation rather than creating multiple APIs for basic integrations between products.

Although members had agreed on how to specify APIs for video, how different manufacturers deployed ONVIF in their products varied. All followed the specification, but there was not agreement on which features to support. For example, a camera manufacturer may have only implemented specific video functions to interact with another manufacturer's VMS using ONVIF, but that particular VMS supports many additional functions of that camera. So when users of the VMS expected to be able to utilise a specific function in the camera, it was not supported through ONVIF.

The Profile Concept

To address these variations in supported features between manufacturers, ONVIF implemented the Profile concept, which defines groups of individual features and implementation specifics under one umbrella. ONVIF's first profile, Profile S, was released in 2011 following two years in development. If a product is Profile S conformant, it will always be conformant, regardless of when it was manufactured.

Bluetooth experienced a similar chain of events in 2005. Bluetooth's newer version of the specification didn't initially support an older version of the specification and, as a result, conformant devices did not work with newer devices. In response, Bluetooth introduced 'Headset Profile,' designed to work regardless of manufacturing date.

Once HSP was defined, it wasn't to be changed. A new profile with a new name was created when future changes were needed – the same profile approach ONVIF employs.

Two years after its founding, ONVIF extended its scope to include access control. Because of the framework established, the group's scope for standards can include any discipline within the physical security industry and is no longer solely focused on video. ONVIF has continued to use the profile concept to develop and release five additional profiles: Profile G for video storage, Profiles C and A for access control, Profile Q for easy installation and the Release Candidate for Profile T for advanced streaming, due for final release in mid-2018.

Collaboration Between Standards

Standards bodies and the standards they create cannot operate independently. Like many other established standards, ONVIF incorporates into its specifications a number of accepted networking standards – think communications protocols such as HTML, XML, IPv6, SOAP, Web Services – to create a common language for security devices and systems to communicate with one another. Leveraging these existing networking and IT standards enables ONVIF to harness the collective development power of these other standardisation bodies, which are working to continually harden and improve their individual protocols to the benefit of the industry at large.

With the rise in demand for interoperability and the expanding Internet of Things, today's world demands cooperation and collaboration. The ONVIF specification has been adopted by the international IEC 62676 standard for Video Surveillance Systems, the first international standard for IP-based video surveillance systems, and have been extended to include Electronic Access Control, as well as the newest access control specification of ONVIF. This type of cooperation between standards organisations from different industries, like that of ONVIF and IEC, must continue in order to provide the highest levels of interoperability, which ultimately benefits end users.

The Future

The physical security market is predicted to experience double digit growth in the next three to four years, with research firm MarketsandMarkets projecting the market to top $112 billion by 2021. As more new products enter the market, the demand for interoperability will with no doubt continue to increase, making industry standards increasingly more important to the future of this market in the interconnected world.

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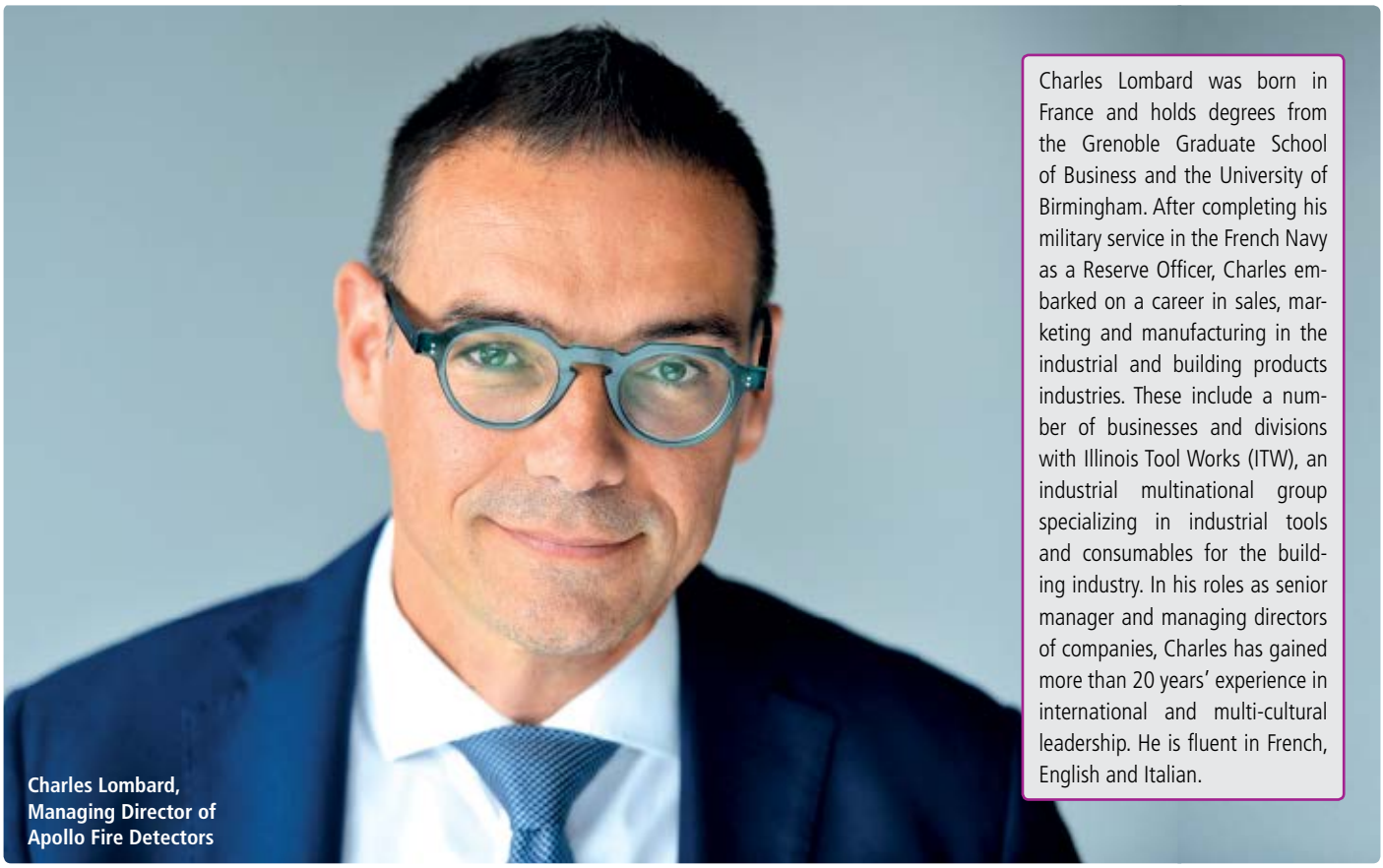

Charles Lombard, Managing Director of Apollo Fire Detectors

Charles Lombard was born in France and holds degrees from the Grenoble Graduate School of Business and the University of Birmingham. After completing his military service in the French Navy as a Reserve Officer, Charles embarked on a career in sales, marketing and manufacturing in the industrial and building products industries. These include a number of businesses and divisions with Illinois Tool Works (ITW), an industrial multinational group specializing in industrial tools and consumables for the building industry. In his roles as senior manager and managing directors of companies, Charles has gained more than 20 years' experience in international and multi-cultural leadership. He is fluent in French, English and Italian.

INTERVIEW

Best-of-Breed in Fire Detection

Apollo Fire Detectors Invests in Manufacturing and Product Portfolio

In August 2017 Charles Lombard has taken over the role as the new Managing Director of Apollo Fire Detectors with regional responsibility for the EMEA region. With a career working in many European countries, Charles has led global businesses of increasing size and complexity based in Italy, Australia, Denmark and France. At a visit to Apollo head office in Havant, UK, the GIT SECURITY team had the opportunity to talk to Charles about his plans and the strategy of Apollo.

GIT SECURITY: What was the motivation for you to take over the new role?

Charles Lombard: I was thrilled to join the Apollo team and to work for a truly global company and leader in its field. Apollo can look back on a rich heritage and tradition, and I am planning to work with the team to continue building on these foundations and develop the next generations of innovative fire detection technology. I want to continue the great work Steve Brown and his team have done over the last few years. My background from the building industry is a good fit to Apollo's business as part of the Infrastructure Safety division within the Halma group. The goal of the division is to make products that improve the safety and mobility of people, and protect infrastructure. This is a meaningful mission and I am more than happy to be part of it now.

During our visit to Havant we have seen that Apollo has invested a lot in the R&D department but also in your production facilities. Can you give us some background?

Charles Lombard: You are right. We have massively invested in our manufacturing capacity here in Havant. The fully automated high throughput production lines give us every opportunity to grow the business in the future and they are a demonstration of the strong commitment made by Halma to the production site here.

Can you tell us more about Apollo's strategy for the next months?

Charles Lombard: Our strategy is based on three pillars. The first one is the geo expansion where we want to expand our sales outside the UK. Already today two thirds of our production is sold outside the UK and we have established local presences in the key markets in the US, Germany, Dubai, India and Singapore to serve the markets there. In addition to this plan, we have launched a panel partner program where we work closer with the manufacturers of fire panels and last but not least we will further invest in the launch of new and innovative products to expand our market position.

What is the goal of the panel partner program?

Charles Lombard: Apollo fire detection systems are partnership systems. Typically detectors and interfaces are supplied by Apollo and the control panel by an independent manufacturer. As a specifier, you may also choose sounders or interfaces designed and manufactured by independent suppliers in order to have a system that best meets the needs of the project. You make the choice and choice is at the heart of Apollo's philosophy. In an ideal system, detectors, sounders, interfaces and control panel form a powerful, reliable system. We help to achieve this by testing manufacturers' products for compatibility with Apollo products. These manufacturers submit their products to Apollo's Product support department which carries out a full test program. Products that pass all the tests are then certified. Specifiers can request copies of the test certificates when designing fire detection systems. This ensures that the different elements of the system will work perfectly with the others. In every country where we are active we want to strengthen our relationship with global and local fire panel vendors. We work with them on the best possible integration of our products into their systems so that the end-user gets the maximum out of an Apollo product. We see a trend towards best-of-breed products in fire detection and a high level of integration secures that all the competitive advantages our products offer can be used.

Can you give us a glimpse of what is in your product pipeline for the next months?

Charles Lombard: All I can say at the moment is that we will expand our Soteria range detectors, which uses the latest in innovative technology to help eliminate some of the main causes of false alarms. Early in 2018, we will launch Soteria Dimension, a completely new range of sleek, flat optical fire detectors for flush mounting, using chamberless fire detection technology. The new range consists of an Optical Detector designed for commercial environments with high aesthetic requirements and a Specialist Optical Detector, designed for custodial and care environments and has been tested and approved for the anti-ligature certification for TS001 and meet the requirements of Ministry of Justice specification STD/E/SPEC038. Over the coming weeks, more information will be released as the new range of detectors is launched.

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www.apollo-fire.co.uk

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

Security Products

Casino Automation Technology

Dallmeier has announced its return to the ICE show, which was held in London's Excel Exhibition Center on 6-8th February. The company's Casino Project Team presented their Casino Automation Technology (CAT) at the coming gaming show dedicated to live gaming and table gaming automation. Recently the system has successfully carried out numerous tests in live Casino environments and has proven to be an accurate, secure and market ready product. The main function of CAT is overall Table Game tracking and real-time Player Rating, going far beyond the mere monitoring of the gaming table. The system was created to help casino operators to increase profits, mitigate risks, protect gaming table integrity, streamline operations via real-time data analysis, achieve gaming floor transparency and understand gaming table performance as well as reduce labor costs and minimize human fallibility. **www.dallmeier.com**

Software Technology Partnership

The connection of Gallagher's Command Center and Seetec's Cayuga through a recently announced technology partnership between the two firms enables customers to evaluate situations based on a synopsis of event and video data, allowing a faster and more targeted response to critical incidents. Seetec Cayuga can now receive and display events from Gallagher Systems, such as "access granted" or "door opened". In return, live and archive videos from cameras operated with Cayuga can be displayed in Command Center, with the ability to control PTZ cameras. Since there is a clear trend of applications in security ecosystems growing together, the technology partnership is a further important step towards ensuring that Command Center operators have the critical information they require for incident management readily available within one system. **www.seetec-video.com**

Large Format Monitor

Eyevis expands its portfolio of high-resolution 4K / ultra-HD LCD large-format screens with the EYE-LCD-7500-QHD, thus closing a previously existing ‚gap' between the 65 inch and 84 or 85 inch diagonals. This new display has a 75 inch (190 cm) screen size with native ultra-HD resolution of 3,840 × 2,160 pixels, and can be connected via Display Port or HDMI inputs. With a brightness of 500 cd/m² and a contrast of 1,200:1, the EYE-LCD-7500-QHD delivers crisp, high-quality images, even under difficult lighting conditions. High-quality industrial components and robust production allow it to be used in demanding, professional applications. A series of specially-developed non-stick functions prevent the burning in of static image content under continuous operation. With a depth of only 72mm, the device is extremely slim and easy to integrate. The design also allows operation in a horizontal position, for example in table applications. Interactive applications can also be realized in combination with customer-specific touch systems. **www.eyevis.de**

Access Controller

Dahua's ASC2204C-H master access controller is a solution for large-scale projects such as business parks, office buildings, banks, prisons, libraries or commercial centers. It allows third party integration with Onvif Profile C, CGI or SDK and is equipped with an alarm of 8 zones, synchronizing NTP, DST and P2P. While capable of initiative register to platform, the system can also work offline to ensure uninterrupted operation. It supports 200,000 valid cards and 150,000 records. To keep large areas safe, the master controller is designed with global anti-passback and global multi-door interlock, meaning any door in the system can be setup in an anti-passback rule, thus the function is not restricted to just one controller. With CAN bus, each master controller can cascade 16 ASC2104B-T/ASC2102B-T slave controllers and manage up to 68 doors. Each slave controller itself supports 20,000 users and 30,000 offline logs and supports all Dahua readers as well as 3rd party wiegand 26/34bit readers. **www.dahuasecurity.com w**

VIDEO FIRE DETECTION

Certified Detection

Bosch and VdS Co-developed a Certification for Video Fire Detection Products

The VdS, a German certification body, has developed a demanding test procedure for video-based fire detection software e.g. as the new Bosch Aviotec, incorporating the established VdS 2203 guidelines. At Intersec 2018, Dr. Heiko Baumgartner and Lisa Schneiderheinze of GIT SECURITY had the chance to bring both parties to one table and talk to Dhaval Shah, Regional Product Marketing Manager for Fire Alarm and Intrusion Systems at Bosch, to Stefan Kratzmeir, Head of International Market Development Fire Protection at VdS and to Ulrich Rabe, Head of Customer Service Fire Detection Systems at VdS.

GIT SECURITY: Mr. Rabe, could you tell us a bit how VdS gets approached for projects like this and how you proceed from the start to the final certification?

Ulrich Rabe: Normally, we get a request from a customer like Bosch, if everything starts with an idea on the customer side. The whole project gets then delivered to the laboratory where we develop a frame test program. This can be understood as laying ground rules for testing. Sometimes there are no standards for a certain product or technology. Then we need to find out if there is anything comparable in the field, or we can develop new test procedures for it. For Bosch's video-based fire detection software, for example, the tests were out of range of EN54. Based on this, we had to develop a guideline that might also act as a base for an international standard. In general, after going through a lot of thorough testing procedures we then release a proposal for an independent standard. Very often this is much appreciated by engineers in the field. We create a state of the art guideline.

Stefan Kratzmeir: If you look at it from an international perspective there are a lot of challenges outside Europe. The product certification is different in Europe, the Middle East, and the US. We do always compare the specifications in the various countries and try to communicate with the authorities. The situation at the start was the following: EN 54 did not include any standards governing video-based fire detection. ISO has published a technical specification, but this is not binding and many experts consider it to be incomplete. North America has progressed one stage further: there, video-based fire detection can be certified in accordance with FM3232 and UL268B. But this is of course not accepted within Europe and other countries.

Why is a certification so challenging in this topic?

Ulrich Rabe: In case of fire detection in general, there is one ground rule: Fire detectors have to be reliable. So, video fire detection has to detect smoke and flames at any time, even in dusty environments. It was a big challenge to combine the super-fast detection capability with a highly reliable alarm. But reliable detection is not the only criteria. Reliable detection needs to be paired with a very low false alarm rate. If there are too many false alarms, people don't trust the system anymore. We tested forth and back many times in our laboratories before we had a test procedure that products complying with it met both criteria.

Dhaval Shah: Niche applications are always linked to a high-risk potential and they are simply expected to work. We as a manufacturer need to look for the highest quality in that area. High-end niche applications are not price-driven, but high standards for developing a high-quality product are involved since we needed to detect fires at an early stage. There are no fines or penalties for a false alarm in fire detection but you need to limit false alarms to the absolute minimum.

Mr. Shah, what was Bosch's motivation to have a trusted certification for the product? And at what stage of product development was VdS involved in testing?

Dhaval Shah: Without a certification from a trusted certification body you have little chance to introduce a product in highly regulated markets like the fire safety industry. This is why we turned to VdS as they have the expertise and experience in a lot of countries and are a trusted partner for a lot of authorities. We are video experts and we wanted to use our deep knowledge to develop something for the fire Industry, a very conservative and regulated industry. We developed many beta versions and pre-releases before we finally gave it to the hands of VdS to co-develop the tests together with us and to get the feedback to improve the product. We started working with VdS when we were convinced that this product is going to work. We wanted someone we could trust to give our product to.

Stefan Kratzmeir: Right from the beginning when Bosch approached us we were more than happy to do the project as it really is a product out of the normal scope. No traditional detector can detect smoke and flames at the same time. For a project like this trust is the key. You need people to trust and people who trust you that it works, and then you can really move something.

Certification processes are not considered to be the fastest in the world. When did you approach VdS and how long did the whole project take?

Ulrich Rabe: Bosch applied for testing in November 2016. And the whole testing period lasted for a good year. So, it was a very good project from our point of view also having in mind that new test procedures had to be developed.

What is the result?

Stefan Kratzmeir: Finally we have developed a demanding test procedure for Aviotec starlight 8000, incorporating the established VdS 2203 guidelines, "Requirements of fire protection software" and the "Specifications for the testing of flame detectors", and it has been certified under the reference G217090. This serves to underline the quality of the product since it has complied with our stringent testing requirements for safe and speedy detection of test fires. Aviotec IP starlight 8000 is, therefore, the first system worldwide to hold a VdS certification as an "automatic video camera for visual monitoring of fires, which is used for the purpose of visually verifying fire events".

Can you give us a little more background on the application side of the analytics software?

Dhaval Shah: The design software is very open since it must fit into a VMS (video management system) and other management platforms. We wanted that the whole system is able to work together seamlessly at all components. Our analytical software uses algorithms for both, the detection of smoke and the detection of flames. In order to detect smoke quickly and efficiently, Aviotec's algorithms use a physical smoke model to detect smoke rising directly from the source. This model is based on the shape assumed by smoke as it rises and loses density and its characteristic pattern of movement, amongst other information. The algorithms are able to draw a reliable distinction between smoke and moving objects. They detect smoke haze levels as low as 30 percent, whereas most video-based solutions require levels of 50-65 percent. Flame detection uses a physical flame model, based on factors such as flame color, flicker, and shape. The flame characteristics of various fires have been comprehensively analysed to make intelligent video analysis just as reliable as the smoke detection.

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320 guests from the entire DACH region met in 'Flora' in Cologne: SimonsVoss technology and system partners of the 'Keyless World' trade partner program

COVER STORY

No Birds in Last Year's Nest

SimonsVoss Moves with the Times and Presents Product Developments to its Trade Partners

The 17th century proverb in the title translates today something like "Circumstances have changed and nothing stays the way it was". A world without keys would be an example of that – one that could recently be experienced during the Partner Days of SimonsVoss in Cologne.

The bi-annual „Keyless World" meeting is conceived as a community of trade partners in the DACH region who actively drive forward the future of keyless locking. It was founded in 2015 (GIT SECURITY reported) – with the aim of raising market potential and creating digital competencies. On offer are, amongst others, marketing and sales support, training and discussion groups as well as an exclusive 5-year guarantee extension. 320 technology and system partners from the entire DACH region came together on November 10th 2017 at ‚Flora' in Cologne. The main focus was placed on the subject of „Creating the Digital Reality".

As well as strategic insights and foresights, the agenda this time also included the presentation of the new AX Platform and had the SmartHandle AX at the center of attention. AX stands for Advanced Xchange and forms a solid basis for all of the manufacturer's products.

More than three years of development work have gone into the new platform. AX will form the

… and Ludger Voss ▶
SimonsVoss Directors Bernhard Sommer … ▼

basis for a new product era. The background: the existing electronic platform is reaching the limits of its capability – in particular with regard to the controller, the operating system and BLE capability. The particular challenge for the R&D department of SimonsVoss was to create a new system architecture that is future oriented but simultaneously fully supports the existing system.

The result is a building block system: the AX platform contains a powerful 32-bit controller, a central security architecture, is BLE-ready (Bluetooth Low Energy) for new „active+"-applications and uses its own operating system (AXEOS). The first product is the SREL 3 Advanced control unit. The second product stage was ignited in Cologne with the exclusive introduction of the SmartHandle AX – a totally new fitting.

Software and Mobile Key

Apart from the AX Platform and the Smart Handle AX, new software developments (LSM with its own monitoring tool „Smart.Surveil" and the Smart.Xchange CSV interface) were presented. Both features provide more clarity and ease of use in locking systems.

Things are changing with Mobile Key too: MacOS will provide programming abilities for Apple users in Q1/2018. Thanks to the networking of Pin-Code, the online administration of user pins will be extended as from Q2/2018. This function is very helpful, for example for the administration of rented properties or temporarily assigned access authority. Online opening (Key4Friends) will also be quicker now thanks to shortened LN.I wakeups.

In addition during the Partner Day, a new customer-oriented marketing strategy was presented. This includes, above all, a relaunch of the website planned for November.

In Focus: SmartHandle AX

- SmartHandle AX allows a free choice of door handle with digital locks – can be combined with all commonly available locks from FSB or other manufacturers. Familiar attractive design with high-quality look and feel
- SmartHandle AX is completely modular, i.e. can be adapted on site to
  - different handles
  - door thickness
  - spindle diameter
  - clearance and
  - left/right opening
- Intrinsic Security Architecture (ISA) with Secure Element – continuous from the central software basis right through to the actuator – for the highest standard of security
- Integrated latch sensor (context – intelligent reaction) ensures that only the authorized person can enter
- Plan proactively instead of reacting: Receptor Grid creates a sort of nerve system that connects all AX devices and central software: the benefits are continual self-diagnosis, energy usage monitoring, battery prediction and actuator monitoring
- Investment safety: SmartHandle AX is completely backwards compatible and fits smoothly into system environments
- The SmartHandle AX can even be opened with transponders of the first generation.
- WaveNet, DoNotDisturb and DoorMonitoring can all be retro-fitted.
- SmartHandle AX has a long standby battery life
- More functions for the same price: BLE ready, i.e. Bluetooth Low Energy can be activated by a patch
- Marketing start is Q2 2018

No Key Necessary

The Digital MobileKey Locking System from SimonsVoss

Why shouldn't you open and lock the door to your house as conveniently as you have been doing for years with your car door? With MobileKey from SimonsVoss, that's easy – and without a key ring. But you do get a bag full of smart features that a zig-zag mechanical key could never provide.

MobileKey is ideally suited to smaller offices and medium-sized companies, but also for private homes – essentially, for all buildings that have a maximum of 20 doors and 100 users. The solution is easy to install, economic to purchase, free-of-charge to administer – and it comes in a timelessly elegant design that blends into any environment. Locking and unlocking any door in the building us-

The traditional key is making way for convenient digital transponders, a PIN code keypad or your smartphone. All can open the dual-knob digital cylinder

No matter where you are, doors can be remotely unlocked and their status monitored on Internet-capable devices via the intuitive app

ing the electronic remote control is made simple and economic. And the system is secure. Consistent encryption from end-to-end makes sure of that, and all the data lands on an audited server at SimonsVoss in Munich. The user can relax and not worry about data security at all.

Transponder, PIN Code, Smartphone

The traditional key is making way for the convenient digital transponder, a PIN code keypad or the smartphone – and instead of mechanical lock cylinders, we now have the digital dual-knob cylinder. It's suitable for inside just as well as outside, and is equipped with an access control function: you can set up schedules to authorize access at specific times and to record every time someone goes in or out. The integrated button cell batteries are sufficient for 400,000 locking/unlocking events. Fitting the lock is totally uncomplicated, without any cables and without any drilling. Anyone can do it in just a few steps and without any special tools, also retroactively on existing doors.

The easy-to-use lock system is configured with the help of a free web app. If a transponder is lost, it can be simply blocked and a new one activated – the well-known problem of lost keys in the mechanical world that requires the lock and keys to be changed doesn't exist with MobileKey. That saves a lot of stress and expense.

Simple Administration by Web App

Users can set up and administer their MobileKey lock system on any conceivable internet-capable device. They only need to download the free app onto their tablet, smartphone or onto their PC (Mac or Windows). A few clicks on the clearly laid out screen will define who can open which doors and at what times. SimonsVoss has further optimized the user interface in the latest version – this now includes the MobileKey PIN code keypad and programability via an Android app.

The access authorizations created on the web app are stored in a locking plan on the SimonsVoss server. This records accurately and clearly, and enables the user to call up at any time who entered each room and when.

The intuitive web app is available for all internet-capable devices such as PCs, Macs, tablets and smartphones. So you are always kept technically up-to- date without have to perform any time-consuming backups. Locking plans with access authorizations are created with the web app and stored on the SimonsVoss server. The locking plan can be displayed and altered by any conventional browser, independently of the operating system. The web service generates the locking plan data automatically for the individual MobileKey system and provides the data for programming.

USB Programming Drive or SmartBridge

There are two options for programming: either you use a USB flash drive – this is used to transfer all the data to the locking elements; or you use the online version - here the locking system is directly connected to the MobileKey web service via a SmartBridge. This negates the need for programming using the USB drive. The online extension also provides a lot more functionality including, among others, remote opening of doors or push messages when doors are opened.

Let the Repair Man in by App

In the basic version of MobileKey, access data is transmitted to the individual system components and the transponders via a programming device. In the online extension of the MobileKey system, the networked locking components are directly connected to the server via a SmartBridge. So changes to authorization and system elements are communicated and implemented practically in real time. In this version, doors can also be opened remotely – so, for example, work colleagues, repair technicians or the cleaners can be granted access from afar.

The Key4Friends function is especially conceived for short-term access requirements: this allows friends, relations or perhaps the decorators to be sent a time-limited access code – and that simply from the smartphone (Android or iOS) of an administrator. The visitors only need to download and use the app to receive the code and gain authorized access – the code can be made valid for up to six months. And that also works from your lounger on the paradise beach – shortened ‚LN.I Wakeups' are the technology that make remote door unlocking particularly quick.

Door Monitoring and SmartRelais

A further convenient feature of the online extension of MobileKey is an optional door monitoring function of the cylinder. It reports the status of every individual door in real time: Is the door open? Is it closed, locked, single or double? Intelligent sensors in the cylinders deliver the answer – they constantly monitor every door and register every change. The SmartRelais allows, for example, garage doors to be incorporated into the MobileKey system too.

The future is always delivering new ideas – even MobileKey development at SimonsVoss is not at a standstill. For example, soon you will be able to set your house alarm by locking the door.

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ACCESS CONTROL

Safe against Manipulation?

How Reliable are Electronic Access Control Systems?

Electronic or digital access control opens a lot of opportunities. But how can you protect yourself against manipulation? We interviewed industry experts Axel Schmidt and Werner Störmer from BHE, the German Association of Security Systems Manufacturers and Installers to get tips for installers, integrators, operators and end customers. Our scientific editor Heiner Jerofsky spoke to graduate industrial engineer Axel Schmidt and industrial engineer, technical author and advisor Werner Störmer. They are respectively the chairman and the deputy chairman of the specialist access control committee at BHE. They talk about new trends, security, hacking, mechatronics, biometrics and a wide range of security levels for access control technology.

GIT SECURITY: Axel Schmidt, where do you see the most important benefits and opportunities to use mechatronic locking systems?

Axel Schmidt: The differentiation between mechatronic locking and offline/online systems is almost a thing of the past. These days the lines are usually blurred. The mechatronic locking system is one part - and usually an extremely large component - in the access control system. With mainly battery-powered components (locks, cylinders, padlocks etc.), parts of buildings can be reached, which could not be mapped cost-effectively with conventional online access control systems. This applies mainly to doors, but also cabinets, furniture, lockers, etc. The life cycle costs of offline access control systems are lower compared to mechanical locking systems, combined with a disproportionate increase in security and flexibility.

Access control systems are used in a wide range of offline and online systems. Can you explain the differences, function and use, as well as the advantages and disadvantages?

Werner Störmer: Depending on the level of security and conditions at an access point, both autonomous and online access control systems are available. Autonomous terminals or mechatronic locking systems operate independently, without a connection to a higher level access control center and are each responsible for a single access point. The advantage is the low installation cost, however, there is usually no possibility of transmitting the door status and alarm messages (e.g. unauthorized access attempts) to a control center. Their benefits, use and possible integration into networked access control systems have already been explained by Axel Schmidt. Networked systems with a higher level access control center, to which separate pass or biometric reading devices or access control systems/separation devices can be connected, are more user-friendly and can be put to a wider range of uses. What should be noted are the possible number and type of network connections (e.g. star or bus-type connection, by radio or cable) for the access control devices that need to be connected. In addition, the following features are worth mentioning:

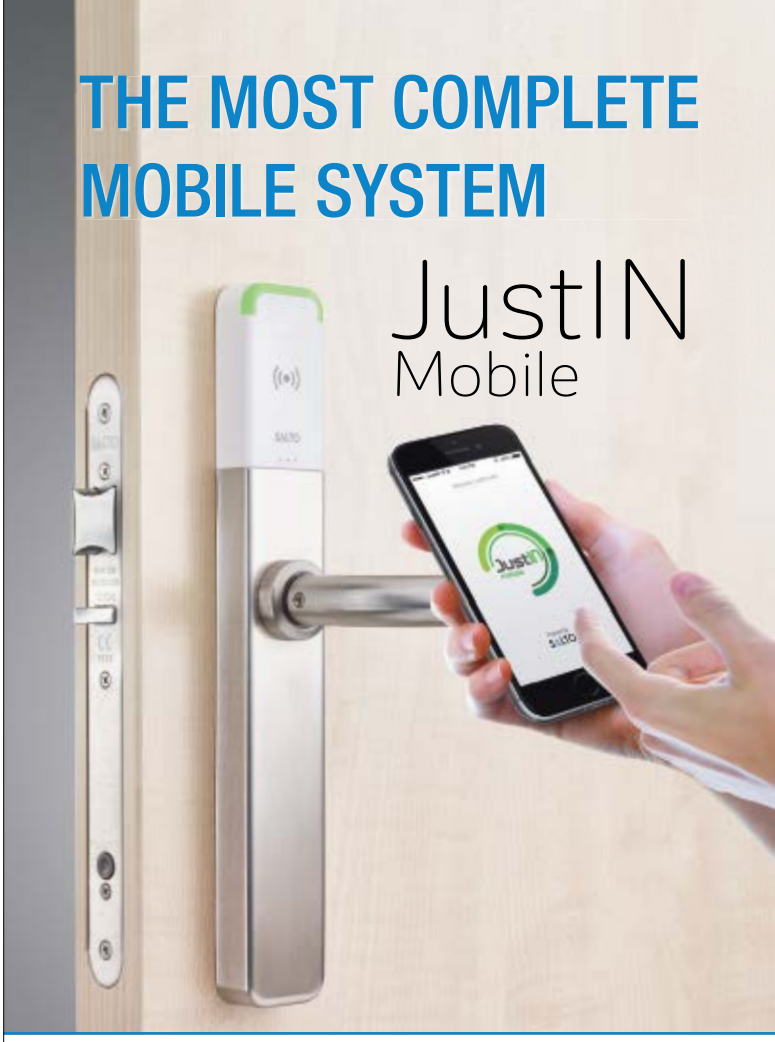
Axel Schmidt

Werner Störmer

- Rapid blocking of lost cards
- Convenient input, processing and editing of saved access and authorization data
- Cross-area functions, such as route monitoring or automatic control from a central point
- Possible integration of other IT or card-controlled applications

If certain software functions and checks are allocated in the access control system or access control terminal, increased security can be achieved, by means of an additional emergency power supply. If the access control server fails or cable break(s) occur, the access control system or access control terminal continues to operate autonomously until all the system components are functional again.

There is a tendency to link time and access control systems, together with vehicle access control and visitor management. To save costs, it may be advisable to use the same network, pass and identification systems and possibly even the same terminal. With a single logging process, the time when an em-



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Bidirectional Online system.
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Efficient.
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Convenient and user friendly app.
App design makes it simple and easy to use.

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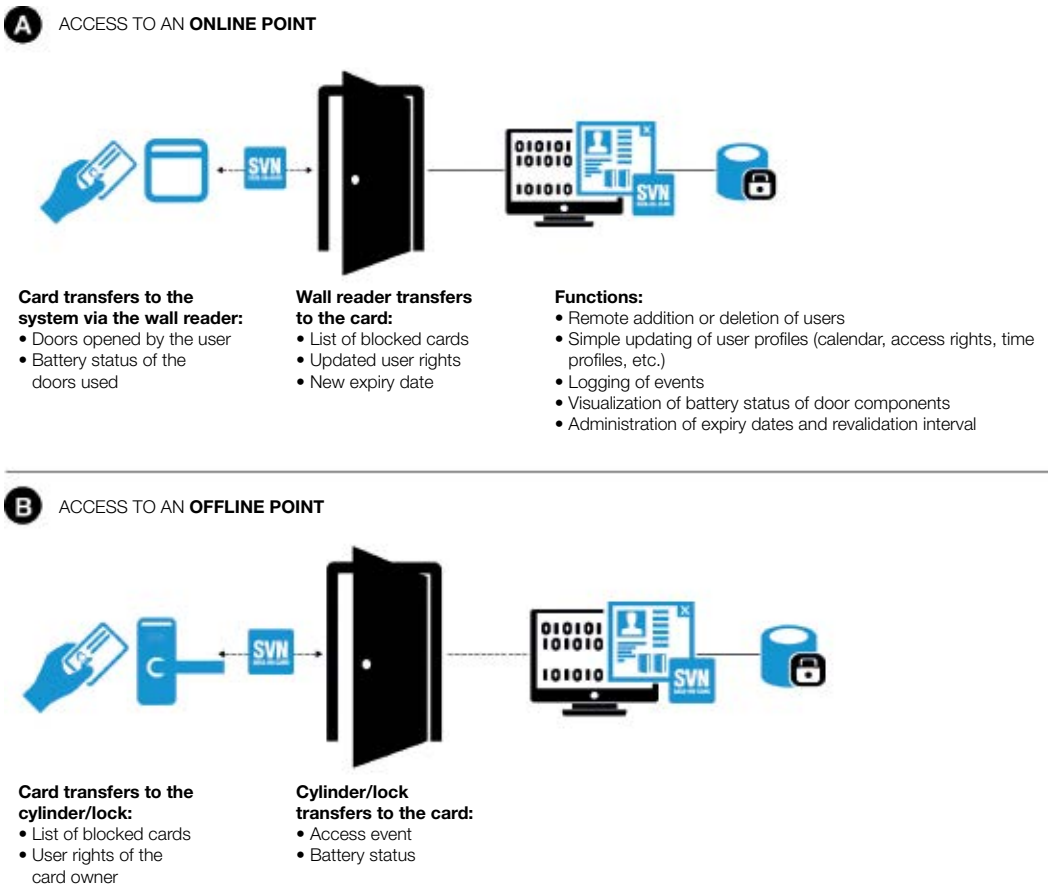

ployee begins work can be recorded and access can be authorized. A further advantage is that the same master data can be used with the entry and access authorizations of the employee. Networked access control systems usually form part of an integrated security concept with intruder alarm systems, video surveillance and central control. This also includes the integration and control of separation devices, such as turnstiles, access locks and barriers.

Radio-networked, Cloud and smartphone-based, or mobile access control systems are becoming increasingly available. What are the advantages and disadvantages compared to conventional networked access control systems?

Axel Schmidt: A major disadvantage of offline access control system components is precisely that they are offline and have no connection with the host system. To alleviate this disadvantage, over the past decade, virtual networks have been developed, in which information is distributed and collected using means of identification, according to the snowball principle. The ball started rolling with the development of battery powered radio technology solutions. Smartphones have become an essential part of our lives and BLE (Bluetooth Low Energy) provides a standard, which can be widely used for access control. The development of online access control is also moving away from the old models and browser-compatible systems towards Cloud-based solutions. For many years now, the major software companies (Microsoft, SAP, DATEV, etc.) have shown that the future lies in Cloud-based software. Access control is a part of digitalization. This will result in more users, more data, greater flexibility and increased security.

Smartphones are becoming increasingly popular when it comes to access control solutions. How do you see developments in terms of local conditions, user mentality and legal aspects?

Axel Schmidt: These developments are both opportunities and risks. The opportunity is a continuously available medium with online function, which always has almost all technologies on board, including BLE, NFC and HCE. I consider the main risk to be inadequate protection against manipulation, hacking, data theft, etc., especially with unqualified developments and products. It must be

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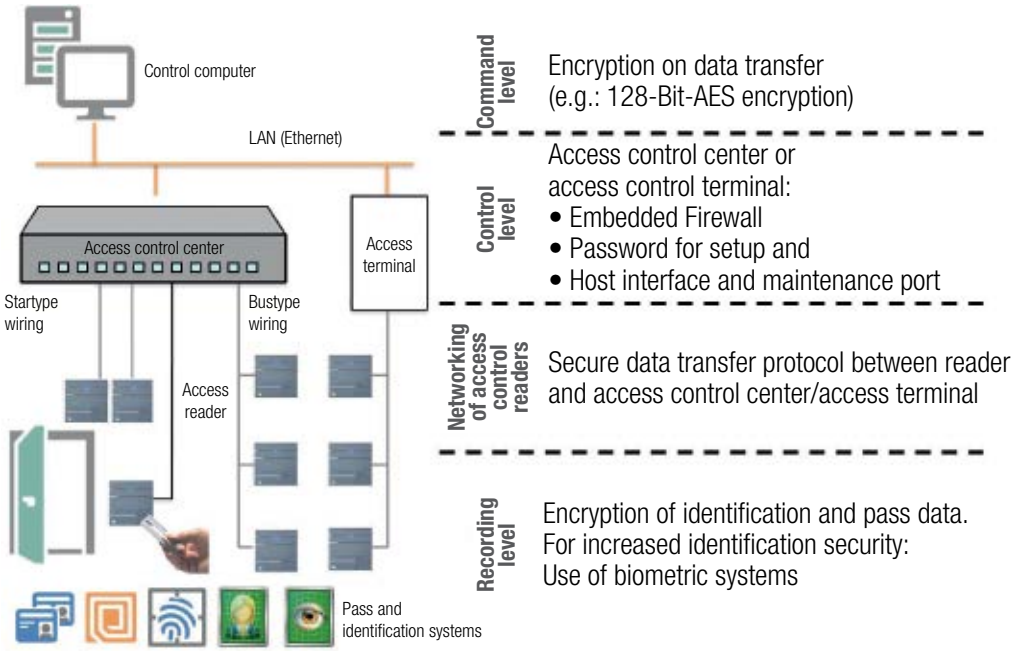

possible for users to clearly identify whether products are professional security technology or unreliable Smart Home technology.

Werner Störmer: From my point of view, although the possibilities of using smartphones in and for access control are very promising, they are not suitable for all companies, areas of use or groups of users. For example, carrying smartphones is prohibited in medical facilities and departments where there is a risk of espionage. Legal aspects, such as the handling of personal data and co-determination regulations, must also be considered. There is hardly any way of influencing what a user saves on his smartphone and how he uses it. I consider the BLE standard to be especially critical, as it enables hackers to obtain access via the radio connection and possibly take control of the device. Within a radius of up to 10 m, there is also the danger that an authorized person unlocks one or more secured doors with their smartphone using BLE, so that unauthorized persons can pass through them. In my opinion, due to the effort and expense involved in making the change, companies will continue to use tried and tested passes. The best example of this is the magnetic strip, which has been used for money transactions since 1950. In spite of technologies, such as chips, NFC and BLE with smartphones, it will be a long time before we arrive at a comprehensive solution.

What about the security of networked systems? How great is the risk of hacking?

Werner Störmer: Mechanical, software, structural, electronic and personal security measures are necessary, in order to protect the weak points of an access control system, while also ensuring high system availability. System crashes or faults, e.g. due to failure to comply with installation instructions, critical ambient conditions, power failures or quality defects in the components that are used are more probable than the risk of encrypted connections being hacked. In order to protect the transferred data against manipulation or hacking, encryption can be carried out at various levels, from with identification (ID) and data transfer to control and application level.

- At recording level: ID carrier (pass/biometric feature) and exchange of data with an access control reader
- For transfer via the data lines: between the recording level (ID system/access control reader/access control terminal) and access control center, as well as in the LAN between the access control center and application server.
- For a defined, closed group of users.

A four-level hierarchical password concept can ensure that any personal data that is recorded remains confidential. At the lowest level, the in-house technician can configure the communication protocol or set the IP addresses for the Ethernet connection using his password. A supervisor can allocate additional passwords, specify maintenance groups or change parameters in the access control terminal. The system administrator at the highest security level is, for example, the only person that can change encryptions and activate the firewall in the terminal or access manager. Secure access control can only be ensured if there are no weak points in the specified security chain.

Do we need to worry about smart homes?

Axel Schmidt and Werner Störmer: Smart products offer greater comfort and more efficient use of energy. Many suppliers wish to keep up with trends and use attractive adverts to flood the market with countless, reasonably priced smart home products. But caution: With these products, which are intended for DIY installation and can be purchased online for a few Euros or from your local DIY store, we need to consider a few points. They rarely meet security quality criteria and are not usually installed and used "correctly". They also claim to provide people with total security, which certainly cannot be achieved with these systems. For customers, the differences between high quality security technology and cheap products are difficult to identify. Consumers who want their homes not only to be "smart" but also protected against burglary and smoke should consult a qualified specialist security company. They are familiar with the relevant regulations, know which aspects need to be considered and use professional security systems. Several points must be considered, if the systems are to run smoothly and provide reliable protection.

What do the differences in security level and classification mean for the use of access control solutions? What do users need to know?

Axel Schmidt: The current EN 60839-11-1 contains four risk levels. The categorization is made by the operator according to his security and organization requirements, as well as a previous risk assessment conducted, if necessary, with the supplier. The risk assessment is not the subject of the standard, but it does provide relevant instructions. Annex A of the standard is also crucial, as it lists the requirements for the 4 security levels, which do not necessarily need to be met in every system that is installed, if this is not required by the operator. However, the systems that are used must be able to meet the requirements, which depend on security levels. In practice, this view results in access control systems that include several or all security levels. The standards only cover the access control system with its interfaces to the access point, users, operators and other (alarm) systems. Other standards apply for the other mechanical components.

In mid-2017, a critical article in a German security magazine claimed that it is technically possible to open any lock. What do you think

about this idea? How well are electronic access control systems protected against manipulation?

Axel Schmidt: The article showed our industry in a very negative light and was not very helpful, but rather discouraging for users, planners or installers. According to these statements, almost all access control systems with online access must be insecure. That is nonsense.

Werner Störmer: It is a truism that with sufficient effort, almost any type of lock can be opened. There really is no such thing as absolute security. The amount of criminal energy needed to open or break through an access point always depends on the level of security that is implemented. In a hotel, I know that employees can enter my room and, in an emergency, they can also open the room safe, so I act accordingly. It is just the same in a company. A baker's shop can be secured more easily than a bank. If a lock or a door is opened without authorization, the networked online door monitor should trigger an alarm. In addition, for access control, not only "door locks" are used but also, for example, separation devices with video surveillance. Careful planning and sound technical knowledge on the part of the installer ensure that sabotage, manipulation and unauthorized access are largely excluded. Starting with personal identification from secure identification procedures and/or biometric features and encrypted data transfer at all levels to an emergency power supply and suitable perimeter protection, the highest possible security level can be achieved.

How secure are the currently available identification and reading methods?

Werner Störmer: RFID technology has established itself in this field. It provides contactless identification (including without visual contact), protection against copying, encoding of information and multifunctional use (time, access, log-in, canteen, etc.), with protection of applications amongst/against each other. The absence of reading apertures, such as those used for insertion or swiping procedures, also means that it can be used in dirty environments and reduces its susceptibility to faults and manipulation. The encryption technologies Mifare DESFire EV1/2 (AES-128) and Legic advant (DES/3DES) provide relatively high security.

What is the current status of developments and security against manipulation for biometric identification methods?

Werner Störmer: Biometric methods are intended to eliminate the weak points of other ID methods, such as "forgotten, lost or damaged passes". At the moment, fingerprints, hand geometry, vein detection, iris and facial features are used as static methods for access control. When it is used for the first time, on "enrollment", the key features of each participant are saved as reference data (template) and compared against the currently recorded measurement values, which are required as identification for access control. If these concur and access is authorized, access is enabled. The saved data record does not contain any "raw data", such as a passport photo or fingerprint, but only features that are extracted from them, such as a mathematical description of the ends and branches of the fingerprint lines or the iris pattern in the case of iris detection. One of the most secure biometric technologies is hand vein recognition. In contrast to fingerprints, the vein pattern on the palm of your hand cannot be forged. If a latest generation RFID card for opening a separation system is combined with hand vein identification in the access lock, access can be secured so that unauthorized access can be almost completely excluded. Data protection problems are almost completely eliminated if the template is not saved centrally and users administer the pass as the storage medium for the biometric features. Central storage leads to the risk of misuse and potential damage, e.g. due to hacking. As passes are usually used for other card-controlled applications, if the security requirements are very high, the pass input can be combined with biometrical identification. For data protection reasons, the template can be saved on the RFID card. ■

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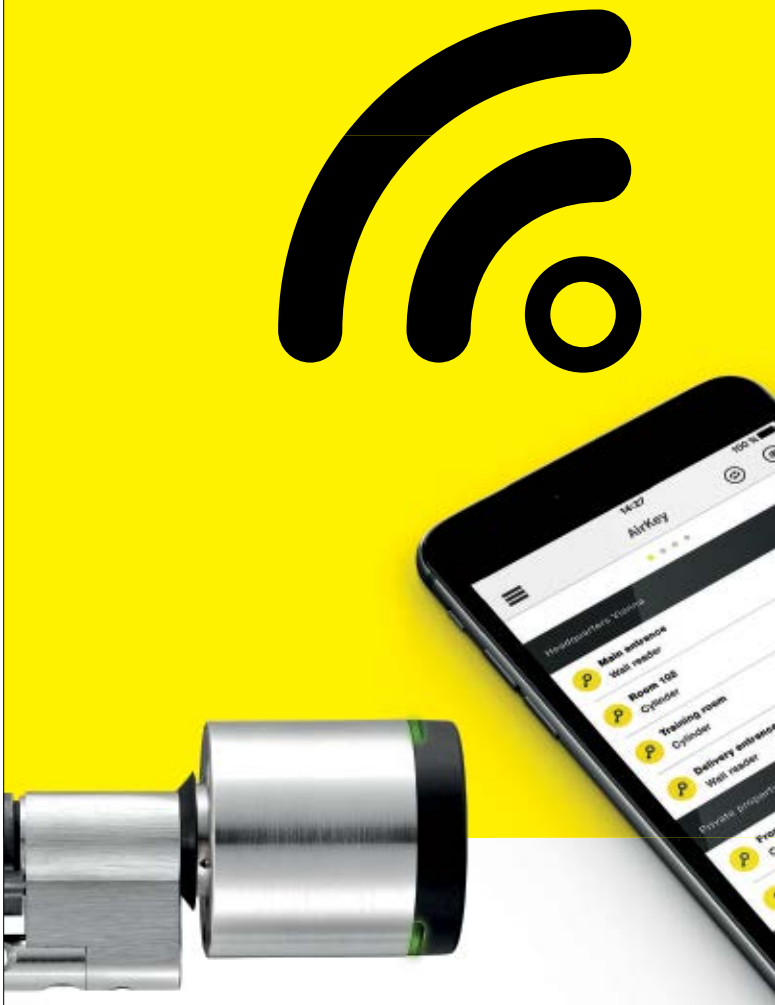


AirKey. Simply smart.

AirKey turns your smartphone into a key.
As you approach, your cylinder is unlocked by Bluetooth and your hands remain free for the really important things.

Other features

- Send a key – Key by text
- Easy find – Cylinder with navigation information
- Component sharing – Lease keys

www.evva.com

Connected Solutions Protect Next Generation Smart Buildings

At Intersec 2018, Assa Abloy showcased connected access control designed to protect the smart buildings of the future. In Sheikh Saeed Hall 2, S1-B11, visitors could see innovative security solutions to help structures, systems and technologies truly integrate. The company's Aperio wireless access control technology is built on an open platform to enable seamless integration with security and automated building management solutions from over 100 different OEMs. A new addition to the product range, the Aperio H100, packs wireless electronic access control into a slim door handle. Like all Aperio devices — cylinders, escutcheons, security locks or wall readers — it is easy to retrofit to existing doors. Live integration demos of Aperio devices working with various third-party security systems were shown and also Aperio integrations up and running with Nedap and Maxxess, two key integrator partners. SMARTair is a standalone access control system for small and medium-sized businesses who want advanced access control without breaking the bank. The Wireless Pro Online option comes with real-time monitoring and remote access rights management functionality and the Openow smartphone app enables users to unlock protected doors via an encrypted Bluetooth connection. Also showcased at Intersec 2018 were Cliq, a key-based electronic access control ecosystem with applications ranging from securing sensitive locations, including utilities and critical infrastructure sites, to small offices. Assa Abloy's Protec2 Cliq system combines the mechanical security of Protec2 cylinders with the convenience and features of electronic access control.

www.assaabloy.com

New VMS Software Release

Indigo Vision's security management solution, Control Center, has been released in version 15.1. Suitable for small and large installations from 10 to 10,000+ cameras, from basic security monitoring to pursuit mode or alarm escalation, the system is flexible and trusted in over 15,000 installations globally. This latest release has realigned software tiers, support for the soon to be released BX130 8/16 Channel Encoder with easy migration of analog systems to IP, and smarter automatic NVR switching export. The company's software tiers allow a mix-and-match of any Indigo Vision cameras, storage and software product combinations. Two lower-priced tiers, Indigo Pro and Indigo Lite, mean that the purchase of Indigo Ultra is no longer necessary to access key software features. The company's BX130 Encoder in a single 1U device, available in 8 or 16 channel options, will save both space and money.

www.indigovision.com

Intelligent Perimeter Lighting and Sensing Solution

Combining high performance LED lighting with accelerometer-based sensors, Senstar LM100 is the world's first intelligent perimeter lighting and sensing solution. Detection of any fence manipulation and effective deterrence by illuminating the fence line. Developed for future requirements the LM100 saves up to 95% energy and light pollution as only activated in case of triggering compared to a permanent illumination. Designed for almost any type of fences and walls the system is very flexible through wireless communication with low cost of installation and maintenance.

www.senstar.com

Security Thorns

Mobotix has announced the ‚Mobotix Cactus Concept', which aims to deliver a comprehensive approach to protecting the company's products against the threat of cyber-attacks, along with education and tools to help customers and partners build and maintain secure video surveillance and access control environments. It will raise awareness among potential and existing Mobotix customers of the importance of data security in network-based video security systems and how organizations can protect themselves through cost-efficient and intelligent solutions. End-to-end encryption with no blind spots is required, from the image source via the data cables and the data storage through to the video management system on the user's computer. Like a cactus, whose every limb is covered in thorns, all of the modules (camera, storage, cables, VMS) in the Mobotix system have digital thorns that protect them from unauthorized access. CEO Thomas Lausten says, "With the Internet of Things trend adding billions of IP connected devices each year, our industry must lead the way in creating secure platforms that can reduce the risk posed by these damaging attacks." Mobotix uses the services of SySS, an independent third party security testing company that examines the security of both software and hardware elements. Sebastian Schreiber, SySS CEO said, "Mobotix has a contract with us to provide further penetration testing of its technology elements. The initial platform testing on a current camera model revealed very positive results." Lausten adds, "We look forward to working with our peers in the industry, customers and government agencies to protect the very technologies and systems that help make society safer for all."

www.mobotix.com

Camera Range Integrated with Smart Driver

Panasonic's latest camera lineup has been successfully integrated into the SeeTec Cayuga Video Management System through the development of the Panasonic Smart Driver. SeeTec provides particular solutions for the retail, finance, transportation and logistics industry as well as for critical infrastructure and cities. The integration, which has been done for the current Cayuga R11 software version, includes models from the Full HD i-PRO Extreme range. Panasonic H.265 compression mode enables delivery of high-quality CCTV images, whilst reducing streaming and storage requirements by approximately 50% over H.264.

business.panasonic.eu

Golden Tower Panama Hotel Equipped with Comprehensive Security System

With 285 upscale bedrooms and suites, the 30-story Las Américas Golden Tower Hotel Panama is a landmark in Panama's financial and business district, which is now protected by a comprehensive safety and security system covering fire protection, public address, access control and video security provided by Bosch. The objective was the highest safety and security for guests, visitors and staff, with security being as unobtrusive and invisible as possible, blending in with the interior design and able to be managed centrally from one platform. A Bosch Series 5000 Modular Fire Panel supervises over 1,000 detectors and also controls the Plena Voice Alarm System with 250 loudspeakers. For video security, a mix of 220 Bosch network cameras have been installed to monitor the perimeter, the parking area and inside the hotel. All cameras are managed centrally via the Bosch Video Management System (BVMS). Only employees and authorized hotel staff can enter restricted areas as Flexidome IP 5000 HD cameras have been integrated with the access control system to enable access via video verification.

www.boschsecurity.com

SECURITY FOR PUBLIC TRANSPORTATION

Virtually Open

A STid Mobile ID Access Solution Secure New Company Headquarters

Smart Contactless, a value-added distributor for contactless solutions, ABS Technology and STid have announced that they have been selected by INIT Innovation in Transportation, a provider of intelligent transportation systems for public transit, to create a new mobile access control experience for its employees and visitors.

INIT Innovation in Transportation has installed numerous STid Architect Blue readers at doors and entrances to secure their new corporate headquarters, applying Smart Contactless and ABS technology expertise. Employees and visitors use the patented identification mode features and can access the building or other sensitive entrances within the offices without taking their smartphones out of their pocket or bag. Jamie Thomas, Systems Engineer for ABS technology in Virginia Beach USA, selected the STid Mobile ID solution for its innovative dimension. "This Bluetooth reader has so much technology built into it; it's future proof, easy to install and program."

Feedback on the mobile access solution has been positive and the client is exploring the system's options to remotely assign and revoke mobile credentials to employees and visitors over the air. "As a provider of innovative technology to our public transit customers, INIT desired an access control solution which mirrored our innovative technology solutions, matched our company culture and was simple to install and administer" said INIT USA Director of IT, David Page. „In addition, we wanted the ability to start with a small proof-of-concept and eventually grow it as this type of technology inevitably transitions to a fundamental employee expectation instead of a bleeding edge innovation."

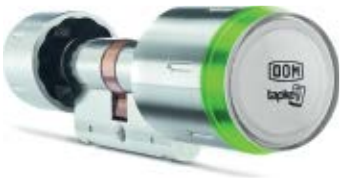
Multi-Credential

STid Mobile ID is a Bluetooth access control reader whose common supported credential technologies are MIFARE, MIFARE DESFire EV1/EV2, NFC and the company's own mobile credentials, using your smartphone and Bluetooth for communications. The instinctive solution includes a free mobile app, the latest generation of multi-technologies Architect Blue readers, offline and online programming tools.

Robert Gailing, President of SMART Contactless, STid's US Distributor says, "The new reader with its 5 methods of mobile credential presentation, using the smartphone and customizable distance up to 60 feet (20 meters), means there is virtually nowhere the reader cannot be utilized throughout any access control deployment." According to Vincent Dupart, CEO of STid, this new implementation is a testament of the growing smartphone adoption that merges high security and convenience. "The ability to use smartphones for high security access control is becoming increasingly important, as these devices are part of our everyday lives in the business workplace."

CONTACT
STid
info@stid.com
www.stid-security.com

The Smartphone is the Key



The Tapkey from the Dom Group enables the creation of a digital locking system within minutes. The three steps are to download the Tapkey app via Google or the Apple store, activate an account, then connect the locking device for the digital cylinder in the entrance door and garage (for example). Users can then be authorized to open a door with a digital device or DOM Tapkey tag. Simply tap the smartphone against the lock and access is granted - the app activates a device via the NFC (Near Field Communication) function of a smartphone. The admin user can authorize other users via a highly secure Tapkey ID or Google ID. If someone loses their phone or transponder, access can be simply revoked and the safety of a home is maintained. The smart management tool can program transponders, send authorizations to other users, share access and receive event notifications. The DOM Tapkey digital cylinder locks exclusively work with devices with an accessible NFC. **en.dom-group.eu**

Video Management Software Upgraded

SeeTec has released an update of its product line with R11 of its video management software (VMS) Cayuga and SeeTec BVI solutions. The updates contain many improvements ‚behind the scenes' for customers and users. The new versions mainly focus on refining many of the established features, but especially large installations (with a master and slave structure) will profit from an increased overall performance. The Isearch feature has been tweaked so that it now delivers up to 20x faster search results. The search function does not require any previously generated meta data and displays first results already while the search is still in progress. A new notification window now gives detailed information when there is a problem with the Device Manager (DM) or the Media Data Base (MDB). R11 fulfills the requirements of the German UVV Kassen again, thus certifying its use for room surveillance in the banking environment. R11 now also supports more cameras and functionalities with smart drivers, e.g. for cameras from Dahua and Panasonic. For critical environments with strict security policies in place, communication between the hardware and Cayuga can now be encrypted using TLS 1.2, depending on whether the cameras used support this protocol as well. The list of supported cameras is extensive, however please make sure to use only cameras that are officially certified. **www.seetec-video.com**

More VMS Features

Wavestore has launched v6.10, enabling simplified camera setup alongside new features and performance enhancements. Automatic camera configuration has been introduced for ONVIF-compatible cameras, greatly reducing the time it takes to set up systems on-site. For projects with a large number of servers, systems integrators can simply create a single customized configuration file and roll it out across all Wavestore units. With lip-synchronized audio as standard, v6.10 fully integrates compatible ONVIF cameras with built-in microphones and speakers as part of a cost-effective two-way audio system. In addition, major improvements have been made to minimize the latency when using joystick controls, a common problem for network based security systems, providing users with accurate control of connected ONVIF PTZ cameras and Axis' native HTTP PTZ protocol. **www.wavestore.com**

Analog CCTV Cameras Migrated to Complete IP Solution

BNP Paribas, a European-centered banking group with over 190,000 employees in 74 countries, is facing a range of threats like robbery, vandalism and card fraud and bank staff aggressors. Low image quality from analog cameras frequently made it difficult to identify suspects. BNP opted to move to an IP-based network video security solution to integrate cameras into existing network infrastructure, as well as to enable remote video monitoring. More than 4,400 Sony IP network cameras have now been installed at the bank's Belgian headquarters and commercial buildings all over the country. A mix of discreet minidome cameras (SNC-EM630, SNC-EM631, SNC-EM600, SNC-EM601 and SNC-EM641) protects BNP Paribas Fortis premises. The cameras' sensitive Exmor R CMOS sensor ensures crisp images with HD or Full HD resolution, while selected models offer IK10 resistance standards against unwanted tampering and vandalism. Hemispheric SNC-HM662 cameras offer a 360-degree all-round view in self-banking zones and bank lobbies, while ruggedized SNC-WR602 and SNC-WR632C rapid dome cameras provide round-the-clock surveillance of outdoor areas. **www.boschsecurity.com**

Idis: Modular Cameras

New cameras strengthen Idis' range of cameras perfect for retail and banking solutions. Idis has unveiled its Covert Modular Cameras (DC-V3213XJ) at this year's Intersec. Available in options featuring a 4.3mm or 2.5mm fixed lens the new covert cameras offer easy installation with new and existing DirectIP network video recorders (NVRs) so that customers can simply add the cameras to their current systems, effectively protecting their existing investment. The new covert cameras also feature full-HD resolution, two-way audio, alarm in and out, PoE, a day and night infrared cut filter (ICR), true wide dynamic range as well as supporting ONVIF. Customers have the option of using micro SD/SDHC/SDXC cards to benefit from Idis Smart Failover, so that in the event of a lost connection between the camera and NVR, the camera's card beings to temporarily recording, and once the connection is restored the card automatically transfers the data back to the NVR. Speaking at the show, Peter Kim, Idis Senior Director, Global Technology Center, commented: "The new convert cameras really bolster our product and technology line-up, especially for the retail and banking sectors where we are seeing the most demand." **www.idisglobal.com**

Intelligent Mobile Camera

Aerialtronics, a brand from Drone Volt Group, has launched the latest version of its Pensar camera-computer driven by artificial intelligence. It is a platform with dual spectrum digital vision that allows real-time analysis of images or data. Customizable, it can be mounted on a professional drone, mobile robot or used as an independent camera. It uses a miniaturized Nvidia embedded processor with 1.5 teraflops of power. Its computing power, accelerated by the same company's Jetson GPU processor, enables it to detect, recognize, analyze and classify objects or people in real time. Simultaneous data acquisition and processing allows for immediate decision making. Its integrated camera with a 30x optical zoom makes it possible to spot very small details. Another Flir thermal camera is used to identify heat sources and determine their temperature. The streams from these two cameras, recorded simultaneously, help optimize image analysis in day and night time and bad weather conditions. This camera-computer can be adapted for multiple applications, such as surveillance, inspection, public security and anti-terrorist operations or search and rescue. **www.aerialtronics.com**

Today AirKey already meets strict data protection guidelines which will be introduced as the European data protection directive in May 2018. AirKey was developed together with certified data protection expert Christof Tschohl as a data-protection-friendly access system. Apart from smart, new features, the usual professional online administration features make several elements easier. Be it public holiday calendars, schedule-based access, importing lists of persons, key handover confirmations or office mode activation; all these elements make the system particularly convenient to use as part of everyday activities.

ACCESS CONTROL

Locked Away

Evva's AirKey System is Already Compliant with Forthcoming Data Protection Legislation

AirKey has been enhanced by a host of new features. Send a key, geotagging and iPhone compatibility – numerous, smart functions now enhance the application range and maintain maximum security levels. "Imagine you can send registrations online to any smartphone. Authorized persons receive a text message (SMS) and with it a digital key. Easily and securely send digital keys thanks to end-to end encryption. This is no longer a vision of the future, but reality", EVVA AirKey product manager Hanspeter Seiss explains. "This functionality is enabled by the new AirKey send a key function, available as part of an update. However, it's not just ‚Send a key' and the other existing functions that make access easier. We have also added geotagging functionality. In this process, smartphones know where master key system components are located and guide the way using the navigation app. This is particularly handy if persons are granted temporary access and must initially become familiar with the environment."

Thanks to the extension to available NFC components (near field communication) featuring Bluetooth Low Energy (BLE), we have significantly multiplied the number of users. "AirKey users can now choose which technology matches their usage characteristics most and which software they would like to apply to gain access", explains Seiss. They can either use NFC or BLE – both systems meet today's maximum security standards.

App Turns Smartphones Into Keys

The re-designed app complements online administration. It saves access authorizations to consequently turn a smartphone into a key. It also converts smartphones to coding stations with the functionality to update the system's locking components and identification media. The way from smartphone to key is to download the app to a smartphone, enter the registration code received by text message (SMS) and decide whether the app should be additionally protected using a PIN. Installed encryption methods additionally guarantee effective protective mechanisms on the smartphone itself. Consequently users can additionally increase security levels by entering a PIN code and/or screen lock (fingerprint, face unlock).

Further keys can be generated by the administrator and sent as an SMS

The AirKey cylinder has security features such as plug pulling and drilling protection, a rotary damper and an integrated element for secure data storage. The modular design of the cylinders (SYMO) enables elongation adjustments on site and simplifies planning. In 2017 the product range was completed by the padlock and hybrid cylinder to link mechanical and electronic systems within doors as part of a smart process.

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Awarding the GIT SECURITY AWARD 2018 to Uhlmann and Zacher

The electronic door fitting with CX6174 short plate manufactured by Uhlmann and Zacher was awarded the GIT SECURITY AWARD this year. The door fitting won the award in the category Access, Intrusion and Perimeter Protection. With its elegant and sturdy stainless steel design, the electronic door fitting with short plate is well suited to both old and new architectural situations. The hole layout also precisely matches the standard holes for short plate fittings, allowing it to be used for fire and smoke resistant doors. The new fitting with short plate can even be installed together with the appropriately certified lock in emergency exit locks according to DIN EN 179. The compact design, in which the entire electronic and mechanical system as well as the power supply and LED signaling is housed within the door handle, makes the new fitting attractive, especially due to its compact size (14.7 mm thick). This is the seventh award so far for the door fitting solutions from U and Z and thus proves the innovative strength of the company.

www.uundz.de

Metal Mesh Specialist Expands Physical Security Range

The Expanded Metal Company has bolstered its offering to the physical and perimeter security sector with the introduction of a new high security gate solution. The company has launched a new SR2 Gate system, which forms part of its ExMesh range of security products. Designed and manufactured by The Expanded Metal Company, the ExMesh SR2 Gate has been certified to Loss Prevention Standard (LPS) Security Rating (SR) 2: Issue 7, meaning that it can resist attack from attempts at forced entry with tools including bolt cutters, hacksaws, drills and claw hammers. It has been developed to offer a flexible, certified and physically robust access solution for at-risk buildings and sites, and offers one of the largest security rated opening options available, enabling two lanes of through traffic to move through a perimeter. The ExMesh SR2 Gate offers pedestrian access ranging from 800mm to 2m wide and vehicle access ranging from 2m to 12m wide. Both pedestrian and vehicle gate options open 180° for inward and outward use and are available at heights of 2.4m and 3m. They can be fitted with toppings such as anti-climb measures and have anti-climb flats and anti-lift brackets, plus inverted hinges, as standard.

www.exmeshsecurity.co.uk

Wireless External Detector for Perimeter Protection

Pyronix announces one of the first wireless low-mounted external volumetric detectors to be added to its range. The new XDL12TT-WE combines Pyronix Enforcer two-way wireless technology with its established external detection protocols, including: Dual-Vision Pet Immune, Tri-Signal Detection Logic and Gaussian Frequency Modulation (GFM), to deliver a highly dependable wireless external detector. The new XDL12TT-WE is IP55 weatherproof rated and consists of two independent passive infrared (PIR) sensors and one microwave (MW) sensor in one common housing. This Tri-Technology (TT) of the XDL12TT-WE delivers advanced outdoor protection. To identify the presence of an intruder, the XDL12TT-WE utilises Tri-Signal Detection Logic alongside TT, whereby all three sensors must be activated sequentially in quick succession to create an alarm. This heightens the detector's immunity to false alarms and ensures optimum detection performance in external conditions.

www.pyronix.com

Economic Video Surveillance Kit

Uniview has launched the Ultra 265 PoE kit. The kit is an especially appropriate choice for owners of small and medium-sized stores. The NVR has 4/8 IP video interfaces and one hard disk for storage. The kit is easy to use, has a quick response and is cost-effective for store owners. To solve the problem of fan noise, a low power consumption chip is used so no fan is required, which eliminates noise completely and extends also device life. The UNV NVR supports up to 250 meters range PoE. Users only needs to plug cameras into PoE interfaces and then watch the live view and recordings via the monitor. The Ezview version searches for devices in the LAN automatically. All the company's NVRs support UNV P2P cloud, so recordings or live views can be received on a smartphone at anytime, anywhere. The system also supports alarm push notifications to a smartphone, so if a thief breaks into the store at night, store owners will get an immediate alarm and the evidence will be recorded.

en.uniview.com

Touch Wireless Alarm System

The Secvest Touch wireless alarm system's control panel features an elegant touchscreen interface. Its capacitive user interface can be backlit either constantly or only when touched, with backlighting adjusting dynamically according to the lighting conditions, ensuring optimal readability at all times regardless of the lighting conditions. The alarm features a cleaning mode, to clean it without accidentally triggering other functions. In addition to classic alarm functions for protection against intrusion, fires, flooding and emergencies, it provides a variety of modern security functions: electronic access control systems can be integrated directly into the alarm system. Live video verification is also possible – users can integrate up to six IP cameras into the system and pull up live streams at any time using the app. Up to 48 individually identifiable wireless detectors and four wired detectors allow for flexible system extension and configuration as needed using the integrated web browser.

www.abus-sc.co.uk

EVVA: AirKey Features For Simple And Smart Access Control

EVVA´s product „AirKey" has been enhanced by a host of new features. Send a key, geotagging and iPhone compatibility – numerous, smart functions enhance the application range and maintain maximum security levels. GIT SECURITY saw AirKey at Intersec 2018 show in Dubai. „Imagine you can send registrations online to any smartphone. Authorised persons receive a text message (SMS) and thus a digital key. Easily and securely send digital keys thanks to end-to end encryption. This is no longer a vision of the future, but reality", EVVA AirKey product manager Hanspeter Seiss explains. This functionality is enabled by the new AirKey send a key function, available as part of the new update. However, it's not just „Send a key" and the other existing functions that make access easier. We have also added geotagging functionality. „In this process, smartphones know where master key system components are located and guide the way using the navigation app. This is particularly handy if persons are granted temporary access and must initially become familiar with the environment."

www.evva.de

Access restrictions for lifts, doors and car parks are managed by Assa Abloy's SMARTair system components

Zaragoza hospital has swapped mechanical keys for real-time security

ACCESS CONTROL

Patient Rejuvenated

Keyless Access Control in Plans For More

Multiple key systems, various entrances including fire doors, glass doors, offices, pharmacies, car parks and lifts plus hundreds of workers and contractors using different access systems and needing different, constantly changing permissions; faced with these challenges, managers at Hospital MAZ in Zaragoza, Spain, knew that the ageing mechanical keys could not provide the 21st century security their hospital needed.

The MAZ has now upgraded its locks to Assa Abloy SMARTair Wireless Online electronic access control, which keeps facility managers constantly updated about their premises in real time. Approximately 115 escutcheons and wall readers now filter access to internal and external doorways, including wooden and glass doors, fire doors and safety doors. Wall readers control hospital lifts, car parks, fire sectoring doors and the gym. Wireless escutcheons lock offices, kitchens, the canteen, the pharmacy, the archive and storerooms.

This single, unified access system is controlled by secure TS1000 management software installed in the central server and managed via client servers in different hospital departments. The Web Manager runs inside any standard internet browser, with https protocol communication and SSL password encryption, and makes day-to-day administration simple. Adding or deleting a user via the Web Manager takes a couple of clicks to cancel or amend a smart card's access rights. So, in contrast to the previous mechanical key system, hospital security is not compromised if an employee loses their credential.

Single Card

The Smart Air Wireless Online system updates via communications hubs in real time so security managers can implement all changes via the central system, without needing to walk through the hospital, changing rights one door at a time. Because the devices are wireless and battery-powered, installation and operation are inexpensive too. Employee convenience has been greatly enhanced. Staff and contractors now carry a single Mifare smart card programed with their constantly updated, individual access permissions, which they use to open authorized doors. Cards are delivered blank and then personalized to work also as employee registration ID, so 625 staff and approximately 100 contractors only need to carry a single card.

"We have achieved all our objectives with the installation of the system," says Miguel Angel Hernández Jerez at Hospital MAZ. In fact, the hospital is already planning to expand its Smart Air installation to another 50 doors. Thirty more centers in the same group are also planning to switch to Smart Air – all of which can be controlled by a central server.

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STORAGE

Up in the Cloud

The Changing Nature of the Surveillance Industry

The surveillance market has changed dramatically over the last 10 to 15 years. Whereas once, all that was needed for people to secure their business was a simple CCTV system to give you that much needed peace of mind, today the needs and possibilities are far more complex.

One of the biggest factors for this increased complexity is that criminals have become a lot more sophisticated and companies are losing out as a result. A recent report stated that retail crime is now costing the industry over £660 million a year. Unsurprisingly, organisations in turn are looking for more sophisticated systems to keep their businesses and staff safe.

How is Technology Advancing?

This desire for increased sophistication has already started to be recognised in the industry, with a lot more companies using IP surveillance cameras, allowing for the transfer and recording of video through a computer network system. What's encouraging however, is that whilst the surveillance industry is becoming more complex, surveillance technology is also evolving, becoming ever more tailored to meet each business's needs and requirements.

Nowadays, organisations are looking to advance video analytics systems that can monitor customer behavior using video cameras and data analytics software, meaning their businesses can not only monitor customer behavior and reduce crime, but also mine the data for marketing purposes. For example retail businesses are able to analyse where certain types of shoppers go in the store, where and what they're likely to buy and how much they are likely to spend. Using this data, companies are able to better target their customers, all whilst keeping their business safe and secure.

It's not just fixed surveillance cameras that are advancing the market though. Once thought to be little more than a toy, the potential of drones is increasingly being realised, becoming one of the surveillance industries most ground-breaking tools. Seagate is already taking on the challenge of drones through the partnership with DJI to create the Fly Drive, allowing drone users to efficiently back up their photo and video content on location, thanks to an integrated and easy to use MicroSD card slot.

21st Century Surveillance

One of the key drivers behind the advancement in technology such as drones is that the surveillance industry needed to change to keep up with the demands of the modern world. Criminal behavior continues to evolve which means the wider surveillance industry, including its technology partners, has had to respond by improving the capabilities surveillance systems offer, moving to a truly 24/7, real-time, always-on model.

Because of this, using a single camera and tape recorder just won't cut it in the modern era of 21st century surveillance, and businesses need to be considering a whole lot more than they previously did just a few years ago. To implement the sophisticated surveillance systems of today, businesses need to fully understand what they aim to achieve and know what technology and hardware they need to get the job done. The biggest opportunities will be in adopting to new technological practices, particularly around the Internet of Things (IoT) and cloud storage.

The Explosion of Connected Devices

Recently, Seagate and IDC released a whitepaper looking at the future of data and the factors that will contribute to worldwide data exploding to 163ZB by 2025. One of the biggest reasons for the increase in data is the increase in connected devices because of the IoT. Specifically within surveillance this occurs already, thanks to drones and other wearable security devices becoming connected and coming online. With so many more transactions being created and tracked it's crucial to think about how the surge in data will be managed.

Companies need to start looking at how these connected devices (whether they're cameras or sensors) will interact with people too – and what opportunities can be created as a result. During past events Seagate talked about the rise of smart cities, such as Singapore, and how using the data from connected devices and cameras relayed in real time would help provide feedback to

emergency services or planning officials on where public services are required. Similarly, there's huge potential for retailers to use heat mapping sensors and data from cameras to track real time footfall in order to manage the layout of their store better and provide a more enjoyable, safer shopping experience.

Video in the Cloud

However, as already alluded, the rise of connected devices is also generating a substantial volume of data. This poses the question of where and how this data can be stored; and conversations are already taking place around storage and access to video in the cloud.

As consumers people have become very familiar with the cloud – maybe without even realising it – thanks to subscription services such as Netflix and Spotify. Cloud storage is also becoming a hot topic within video surveillance too and there are many benefits to consider. Firstly, the data is stored in a central, shared system so users can access the content quickly and easily from wherever they are. Secondly it's possible to improve a cloud-based product on an ongoing basis, often in real-time, and once improvements have been made they are immediately visible and available to customers.

A key driver of the shift to cloud-based, fast-access, and truly mobile data usage is that data has increasingly become a critical influencer for not only our businesses but also our lives in all aspects. Seagate's research with IDC revealed that data usage is changing and it now has to be analysed by its level of criticality. Going back to smart cities, real-time data from traffic cameras and traffic light sensors is crucial for ensuring people don't end up in accidents or cause huge traffic jams for example. Rapid access to data through a cloud-based service could make a significant difference in effectively delivering these kinds of hyper-critical solutions.

Bottom Line

What's apparent is that the surveillance industry is changing in a much more sophisticated and complex way than in previous years. For businesses to take advantage of the increased benefit that surveillance can give them, they'll need to take in to account a lot more than what surveillance camera they're going to use and look further in to the hardware that's required for the specific job at hand.

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

Security Products

Avigilon with Latest AI Innovation at intersec 2018

Avigilon announced its latest innovation in video analytics capabilities with the launch of Avigilon Unusual Motion Detection (UMD) technology, available in its upcoming Avigilon Control Center (ACC) 6.8 video management software. UMD is an advanced artificial intelligence (AI) technology that brings a new level of automation to surveillance and is designed to reveal events that may have otherwise been missed. Without any predefined rules or setup, UMD technology is able to continuously learn what typical activity in a scene looks like, and then detect and flag unusual motion. This allows operators to search through large amounts of footage faster, as UMD focuses their attention on the atypical events that may need further investigation, helping to reduce hours of work to minutes. The enhanced ACC 6.8 user interface allows users to filter their recorded video timeline and automatically review the unusual motion events. These events are displayed in an intuitive playback screen that intelligently guides users through highlighted clips. ACC 6.8 with Avigilon UMD technology is expected to be available in the first quarter of this year.

www.avigilon.com

VIDEO SURVEILLANCE

Game On!

Hikvision Cameras are used by Premier Football Club AFC Ajax for Game Analysis

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Hikvision has become an Official Sponsor of the Dutch top tier football club Ajax. As part of the agreement, the company is applying its expertise in camera technology with the club, both in the Arena stadium in Amsterdam and on the club's training grounds – the ‚Sport Complex of the Future'. Together with the Ajax Performance Team, monitoring of training and soccer matches will be carried out using the company's cameras in partnership with software from video analysis experts Game On. This powerful combination will deliver even better analyses, in turn further improving the game.

There are various challenges facing performance coaches like Max Reckers, Ajax's Performance Technologist. "Firstly there are physical issues, like where to position a camera. There's not enough space on the midline, and mounting cameras on training ground poles make them too close to get a good view. There's also the question of manpower, since a camera operator (or operators) would be needed constantly. Existing analysis tools are too time-consuming and their process is not flexible enough. They also don't provide real-time feedback."

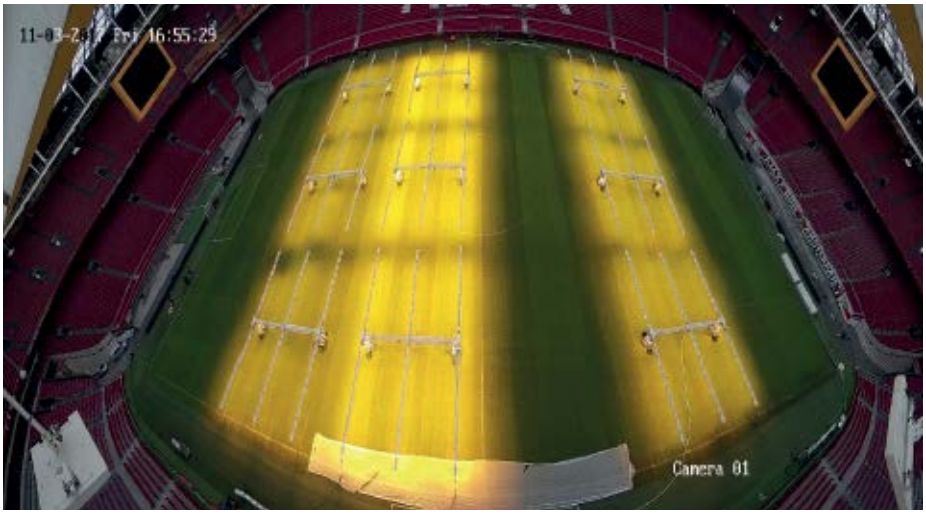
To overcome these challenges, a solution was needed that provides a 180 degree view covering the whole playing field. It would also be necessary to be able to track the players accurately as they crisscross the pitch. In order to achieve these things, a camera would need to be placed near the field, at a suitable vantage point, and the system would need to work seamlessly with software to track the players and allows in-match and post-match analysis. A recording facility is vital for performance managers like Reckers to make an effective analysis and be able to present interesting findings, and clarity of image is always a plus when dealing with such a fast-paced game with so many moving elements.

Analysis Software

The solution came through collaboration between Hikvision cameras and Game On analysis software. A 24MP Panovu camera was installed, both at all training pitches at the ‚Sport Complex of the Future' and at the main Ajax stadium in Amsterdam. The cameras were positioned so that the whole pitch could be seen – possible due to the panoramic nature of the camera. These cameras also provide very clear images – with four lens systems of 6MP each, making a total of 24MP – one of the highest definition Panovu cameras in the industry. They deliver images at 30 frames per second, meaning that nothing will be missed.

The initial image from the cameras is slightly bent or ‚warped', so specialized software from Game On and TNO came into play to stitch the streams from the four lenses together to complete the full detailed view of the entire pitch. This software also ‚dewarps' the images. Game On's soft-

The Hikvision DS-2CD6A64F-IHS/NFC 24MP Panovu camera delivers a resolution of up to 8208 x 3072 pixels



The ‚curved' Panovu image is straightened by TNO and Game On software

ware adds a ‚virtual PTZ' function which allows the software to zoom into specific players and track them on the field. The NVR (recorder) used in the solution brings full flexibility, previous images and recordings to be easily retrieved.

The combination of contemporary technology and the latest software from Game On allows Ajax to track players across the pitch, both in training and matches. This will really make a big difference to the way Ajax sees its games and hopefully have the knock-on effect of making one of the most popular spectator sports become even more exciting.

Full Pitch

Reckers added: "We are amazed by the Hikvision technologies that we recently implemented at our training ground and stadium. The Panovu camera is opening an entirely new world for us in performance analysis. Being able to capture the full pitch at high resolution is simplifying our analysis process so much. And also being able to provide real-time feedback to coaches and players empowers us even more."

Derek Yang, President of Hikvision Europe, says: "This is an interesting project for us because it shows a whole new application for our technologies. Working with Ajax, TNO and Game On has been a revelation, and we're thrilled that our cameras could play such a central part in this sports solution. We are now planning to use the cameras to detect goals and to predict the best way to pass the ball."

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Security Products

Arecont Vision Unveils MegaDome UltraHD

Arecont Vision has unveiled the newest member of the MegaDome feature-rich camera series. The new MegaDome UltraHD camera was on display at Intersec Dubai 2018. The true day/night indoor/outdoor MegaDome UltraHD dome camera is loaded with features, including a motorized remote focus/zoom P-Iris lens mounted in a 3-axis gimbal. The installer-friendly, IP66 environmental-rated and IK-10 impact-resistant housing encloses integrated IR LEDs with adjustable beam angle and LED intensity, SDHC onboard storage card slot, and mechanical IR cut filter. Wide dynamic range (WDR), NightView low light technology, binning mode for strong low light performance, SNAPstream (Smart Noise Adaptation and Processing) technology for reduced bandwidth without impacting image quality, and dual encoder H.264/MJPEG capabilities are built in as with other members of the MegaDome series. Features include privacy mask, motion detection, flexible cropping, bit rate control, multi-streaming, multicasting, forensic viewing, and non-integer scaling. The camera offers network protocols for security and management including SNMP, HTTPS, 802.1x, IPv4, and DHCP. Power requirements are met entirely via PoE (Power over Ethernet) or optionally via 12-24V DC. **www.arecontvision.com**

NVR for Small to Medium Sized Projects

Arecont Vision announces the availability of the AV NVR all-in-one network video recorder series. The new AV NVR was on display at Intersec Dubai 2018, and is the first network video recorder to be offered by Arecont Vision. "Customers have increasingly requested that Arecont Vision provide them with a NVR platform for their small to mid-sized project requirements," said Brad Donaldson, Vice President of Product Development, Arecont Vision. "The new AV NVR will address those specific needs, while our ongoing integration with the industry's leading hardware and software providers will continue for customer projects of all sizes." The AV NVR offers the choice of 8 or 16 channel models (one channel = one camera sensor), each with built in PoE network switch, customer-replaceable hard drives, and Arecont Vision GUI interface. Smart Plug-and-Play technology simplifies setup with both Auto Discover and Auto Configuration. Camera licenses are included for a complete all-in-one solution. A free mobile app is available for remote viewing and playback. Both the AV NVR AV800 and AV1600 models offer H.264, H.265, and MJPEG compression. **www.arecontvision.com**

◀ The 12 MP Wisenet PNF-9010R camera

SECURITY FOR RETAIL

Buying Intelligence

Learning about Customer Behavior with Intelligent Retail Video Analytics

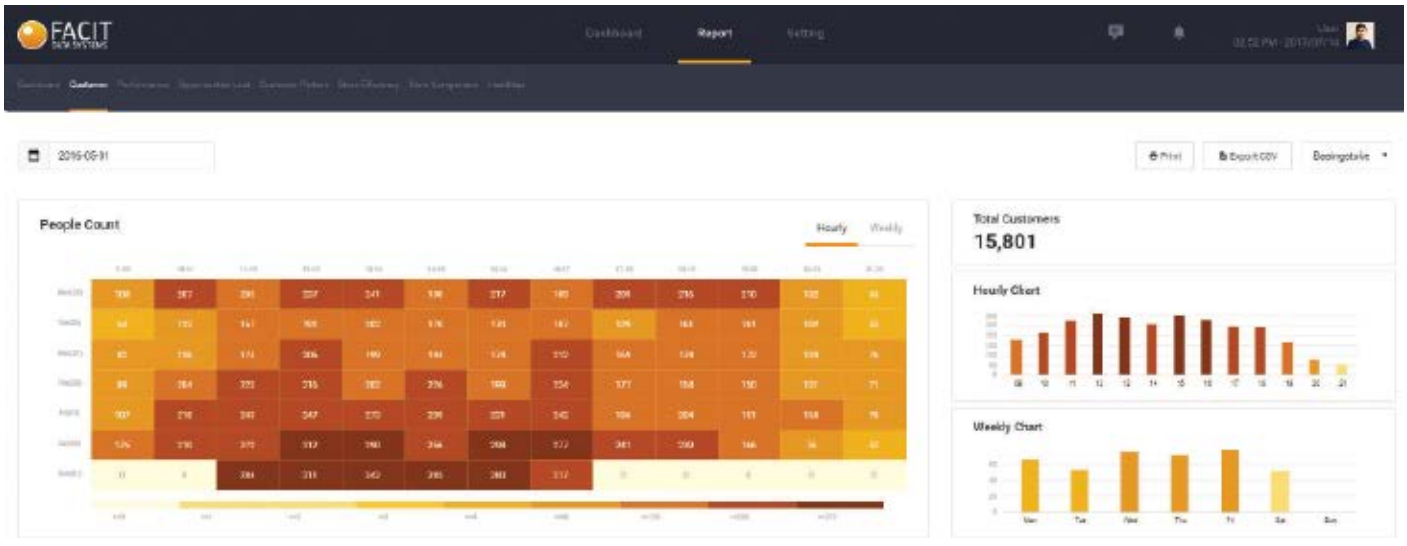
The long standing technology partnership between Hanwha Techwin and Facit Data Systems has resulted in selected Wisenet cameras being able to take full advantage of Facit's powerful Calculus server-based intelligent retail video analytics software to deliver Retail Intelligence solutions.

The Wisenet Heatmap and People Counting cameras enable retailers to identify lost sales opportunities by monitoring continuously updated live reports and view comparative hourly and weekly reports on footfall, store hotspots and dwell times, as well as how long customers have to queue. "At a time when competition has never been fiercer within the retail sector, knowledge of customer in-store behavior is crucial to ensure every sales opportunity is seized," said Tim Biddulph, Head of Product and Solutions for Hanwha Techwin Europe.

Creating Competitive Advantage Through Intelligence

"The reports that are generated by the cameras and the analytics software will assist retailers, from small convenience stores to superstores, to identify in a number of different ways how to enhance the customer experience and minimize lost sales opportunities. These include comparing the number of people who enter a store with actual sales, customer buying patterns and helping to manage the peaks and troughs at checkouts.

The Calculus solution is designed for large retail stores and supports bi-directional people counting and heat mapping with real time and time lapse viewing functions. Up to 64 cameras can be connected to the system using a single core i7 PC. Ongoing multiples of up to 64 cameras can be added by installing additional PCs, with almost limitless configuration options to enable the end-user



The reports assist retailers, from small convenience stores to superstores

to tailor the system to meet their precise requirements. Reports are available in real-time from anywhere on the network.

Argus Small Store Solution

For smaller store applications, Facit's Argus analytics solution is available in four variations. These provide a choice of single and two channel aspect view with a bi-directional people counter and a single and two channel real-time/time-lapse heat map, as well as a combined single channel with bi-directional people counter and a single channel real-time/time-lapse heat map option.

"Our aim in pre-loading the Facit applications onto our open platform Wisenet cameras is to save system integrators considerable time and effort in having to research the wide range of video analytics software on the market," said Tim Biddulph. "Peace of mind comes with the knowledge that Hanwha Techwin has extensively evaluated and tested all the specialist applications which are supplied out-of-the-box with selected cameras."

Heatmapping and People Counting

The 12 megapixel Wisenet PNF-9010R/FHM 360° Heatmap camera has on-board dewarping, enabling a variety of alternative viewing modes such as single panorama, double panorama and quad views. The 2 megapixel XND-6080/FPC bi-directional people counting camera is part of the X camera series, which features wide dynamic range and a motorized varifocal low light lens. A powerful proprietary chipset enables X series cameras to meet the requirements of any retail environment, regardless of the lighting conditions, from bursts of bright sunlight to almost total darkness, without the need for IR LEDs or supplementary lighting.

Sound Recognition

Depending on the field of view, images captured by the cameras can also be used by security personnel to detect any suspicious activity as well as to provide valuable business intelligence for marketing, merchandising, human resources and retail operations departments. The XND-6080/FPC even has an audio analysis function which recognizes different types of sound, such as gunshots, explosions, screams and broken glass. The cameras are fully supported by the manufacturer's comprehensive range of video recording solutions. They have also been integrated with Smart Security Manager (SSM) and Facit analytics software to enable people counting and customer behavior data to be monitored in real-time, and for the generation of customized reports covering defined time periods.

The Calculus solution supports bi-directional people counting and heat mapping

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SECURITY FOR LOGISTICS

Value Added Surveillance

Improving Process Optimization with Video Surveillance

Galliker Transport and Logistics was founded in 1918, is a logistics service provider in Switzerland, operating internationally across six different countries and focuses on the core areas of cargo, food, refrigeration, healthcare, automotive and flower logistics. It uses 400 Panasonic video surveillance cameras throughout its 18 branches.

Galliker uses video surveillance primarily as protection for their buildings and goods, but also for the optimization of work processes. Video cameras also capture access to the grounds and buildings. With the porter being the initial point of contact for incoming suppliers, the video surveillance is used for the allocation of parking lots and ramps. The gates and barriers open automatically for Galliker's own and pre-registered vehicles when approaching the office site, which is triggered by means of automotive number plate recognition.

Powerful Cameras In Use

Many factors played a role when choosing the cameras: the picture quality, reliability and a reasonable price-performance ratio for the entire project. The best Panasonic cameras were installed at critical locations: the WV-SW395A is a weatherproof camera with versatile 360° Pan-Tilt-Zoom control, auto tracking and HD/Full HD definition at a frame rate of up to 60 images per second. The PTZ control functions permit surveillance of the whole 360-degree field of view, divided into eight miniature images at 45-degree intervals. A click on the relevant preview image moves the PTZ camera to that sector.

All of the cameras record outside of the organization, whilst being centrally managed in one location based in Switzerland, which saves a lot of network bandwidth and time in IT integration. The entire IT infrastructure and support is managed by the IT department of Galliker. Fredy Feurer comments, "We are very pleased with the Panasonic video surveillance cameras. In recent years, we have acquired a great deal of know-how about these products, but because of the more efficient installation and easier maintenance, only a few camera models are in use."

The cameras mounted within buildings deliver an overview of the ongoing processes

Expectations Exceeded

Galliker has opted for Milestone's VMS (video management system), which allows for easy and fast integration of various camera manufacturers. In 2013, Comtronic Communications, a video surveillance solutions specialist, introduced the first Panasonic cameras with Milestone software to Galliker, who are very satisfied with the cooperation. Fredy Feurer adds, "The Panasonic cameras have far exceeded our expectations in terms of image quality. In the meantime, 400 cameras are in use and the number will increase to 500 by the end of 2018. The cameras have a long service life and a good price-performance ratio, and the video surveillance solution allowed us to streamline processes and simplify work processes."

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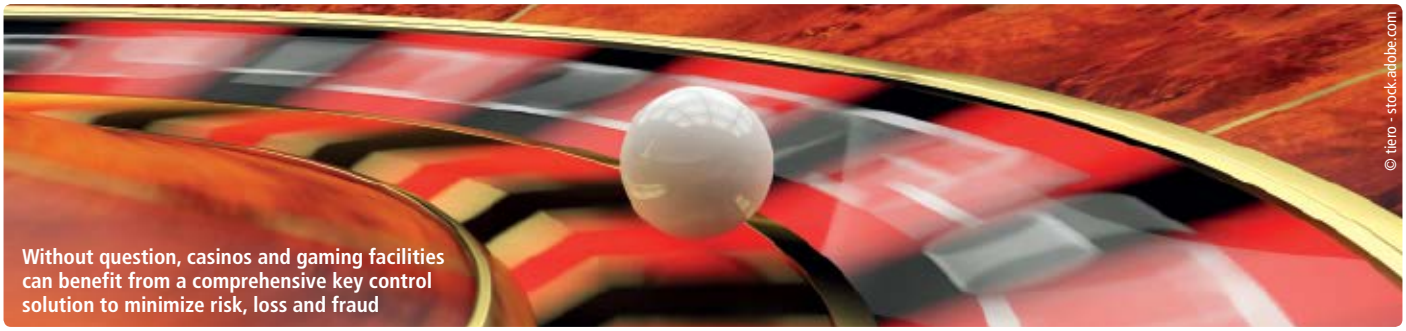

Without question, casinos and gaming facilities can benefit from a comprehensive key control solution to minimize risk, loss and fraud

KEY MANAGEMENT

Rien ne Va Plus!

Automated Key Control Systems Secure Casinos and Gaming Properties

Casinos and gaming facilities have a great number of security challenges, including large crowds, huge sums of cash on gaming floors and in cashier's cages, strict compliance regulations and extensive physical property and assets. It is necessary to dedicate significant resources to protecting people and material goods, reducing casino liability and creating an effective security management program, which includes key control. In addition, as with many private enterprises, casinos must protect themselves from their own personnel. With so much temptation, it is to be expected that employees will attempt to steal, or commit fraud and other crimes.

In most gaming organizations, physical keys are still used to access all of the most sensitive and highly secured areas, including counting rooms and drop boxes. But with so much at stake, casinos that are still using manual logs for key control are at high risk. There are myriad inaccuracies inherent in a manual system, starting with signatures that are missing or illegible. The manual sign-out process for keys is time consuming and error-prone. Analysis, reporting and investigation are highly labor intensive as they involve digging through piles and boxes of log sheets, making it difficult to keep an accurate accounting of key use. This also has a negative impact on compliance.

Turn conventional Keys into Smart Keys

Without question, casinos and gaming facilities can benefit from a comprehensive key control solution to minimize risk, loss and fraud. For this reason, many of the largest – and some of the smallest – casinos and gaming properties in Las Vegas and around the world rely on key management. The systems can provide more control for highly sensitive keys, more reporting and compliance, and more convenience. A well-run key management program takes conventional keys and turns them into smart keys, helping control access to critical assets while tracking key usage and compiling comprehensive management information.

Highly Sensitive Regulations

Key management systems help casinos maintain compliance. For certain keys or key sets that are highly sensitive, regulations require signatures from three individuals, one each from three separate departments. These may include keys to drop boxes and counting rooms. Typically the three individuals would include a drop team member, a cage cashier and security officer. A secure key management system is programmable and can recognize these keys or key sets and only open the cabinet door and release them once the three required logins are complete and the credentials verified.

Alarms and Alerts

Systems can be configurable to manage several levels of security for returning highly sensitive keys as well. Alarms can also be triggered for certain predetermined circumstances such as the use of force to gain access or remove a key, invalid user codes, a door left open for more than 10 seconds after use, power failure, a key missing or not returned on time or a key returned by the wrong user. A key management system can also limit access to drop box keys to specific authorized individuals and alert management if they are returned to the key cabinet by anyone other than the people who removed them.

Convenience for Reports

In addition, key management software enables set-up of many types of reports, including many required by state and tribal gaming agencies, which can run and be delivered automatically to management on a regular basis. The robust reporting system will help to track and improve processes, assure employee honesty and minimize security risks.

Electronic key control systems also provide convenience of key access. Solutions for key security can be tailored to the varied needs of a casino/hotel/entertainment property, including the flexibility to have differing levels of security (i.e. dual or triple authentication) in different areas of the premises. When compared to manual systems, electronic key control systems help provide for an effective security management program while delivering valuable business intelligence for the organization.

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COMMUNICATION

Fast As Light

Com Net Fiber Units Team up with Vanderbilt's SPC

At night time, the toll system on the M1 between Dublin and Belfast is automated and therefore an intruder alarm system was needed for protection. The distance between the toll booth and plaza is 6.2 kilometers and the security systems – SPC and video cameras – had to be able to connect and operate over that distance so that operators could get an overview of activity at each site. Vanderbilt's SPC was recently deployed to act as part of the security and communication solution between the toll booth and plaza.

The ComNet FDX60 multimode fiber units enabled the data between the Vanderbilt SPC expanders to travel further distances

SPC replaced an existing legacy product that had the IFS fiber drivers connected and working on multimode fiber over the 6.2 kilometer distance. The fiber driver was bespoke because of the distance. Multimode is usually only specified for approximately two kilometers. However, when the 3GS legacy system was replaced by a new SPC panel, the communication over the fiber link stopped working.

The installation company, Precision Security, previously had to deploy a pair of fiber cables – two transmitters and two receivers – to transmit the signal back and forth successfully. However, in updating the site, they found that a single pair of Com Net fiber units, straight from the box, could successfully execute the task, despite only being specified for 4.5 kilometers. The Com Net FDX60 multimode fiber units allowed the SPC X-Bus transmission to be converted from RS485 protocols to optical and back to RS485. This enabled the data between the SPC expanders to travel further distances.

Transparent

The FDX60 (M,S)[-M] data transceivers provide point-to-point transmission of simplex or duplex EIA RS232/RS422/RS485 (2W/4W) data signals over one or two optical fibers. The transceivers are transparent to data encoding, giving wide compatibility. Models within this series are available for use with multimode or single mode optical fiber.

"Com Net came straight out of the box and was easy to use and to install. Its threshold is only around four kilometers, but it is working well beyond that. We previously worked with fiber managed switches from the same manufacturer, and we found that they always work as a sweet as a nut," said Victor Fields of Precision Security, who installed the fiber solution on site.

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Steve Hodges, Dallmeier's Airport Projects Sales Manager

VIDEO SURVEILLANCE

Fly Eyes

Video Security Solutions by Dallmeier at Bristol Airport, UK

Security requirements at airports are extremely high and it is vital that every area is being monitored, including hangars, car parks, terminal and access roads, runways, the apron and the perimeter. The Airport Operators Association (AOA) and ITN Productions have made a news and current affairs-style program entitled 'Airport Matters 2017', which features stories from the aviation industry and explores the challenges, procedures and future of security matters in aviation and at airports.

Nowadays airside and landside security is a hot topic and airport operators look for the latest technologies to identify, analyze and proactively resolve dubious situations in time. Dallmeier offers a range of flexible solutions for multi area surveillance and, in the movie produced by AOA and ITN they showcase the Dallmeier Panomera multifocal sensor technology in operation at Bristol Airport.

This program – available on YouTube at https://youtu.be/qRHPIzGC788 – features special reports about airport security and explains why and how monitoring our airspace becomes more and more important in order to protect travelers, their belongings (such as parked cars and baggage) as well as airport employees. The essential component of the manufacturer's video solution is the Panomera multifocal sensor system, which provides a comprehensive overview of all activity around the airport.

The multifocal sensor system Panomera was specially developed for the all-encompassing video surveillance of expansive areas

Proactive Surveillance

In conjunction with intelligent video analysis and management systems, the monitoring of the landside and airside areas contributes significantly to the overall safety and security of visitors and passengers, as well as maintaining smooth operations across the airport. Proactive video monitoring provided by such video information systems, instead of just passive surveillance, is the way forward across different industries – and especially airports.

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The AC2000 Airport system does more than just control access at Muscat International Airport

AIRPORT SECURITY

Access All Areas

Johnson Controls Wins Contracts to Secure Oman's Two New Airports

Oman Airports Management Company (OAMC) is the government company responsible for the management and operation of Muscat International Airport – the largest airport in the country – and also Salalah Airport. The aviation-specific CEM Systems AC2000 Airport access control system has been selected as the access control solution that goes beyond security by helping in airport operations.

With intelligent IP card readers and S3040 portable hand-held readers, the CEM installation will ensure the highest levels of integrated security. Currently undergoing an expansion phase, Muscat International Airport will have the capacity to handle 12 million passengers annually. Salalah International Airport currently handles more than one million passengers annually.

"Johnson Controls is delighted to be supplying the access control system for these two important projects in Oman's infrastructure development," said Philip Verner, regional sales director, Building Technologies and Solutions, Johnson Controls. "The team behind the AC2000 Airport system has a proven history of understanding the dynamics and needs of airports, and the system has been used to secure airports around the world for over 25 years."

More Than Just Access

The powerful system not only provides the airports with advanced access control throughout terminal buildings, airside and landside boundaries, but it also provides a range of software applications to enhance the airport's onsite operations and increase business efficiency.

ID cards can be personalized and printed using the VIPPS (Visual Imaging Pass Production) application, allowing the airport to produce card passes that include logos, staff signatures and images. The system also provide the airports with aviation-specific modes such as 'Passenger mode', which provides efficient management of gate rooms for departing and arriving passengers. Passenger mode controls door open times and, via interlocking, ensures Gate Room doors are opened or closed depending on the configuration set for the specific flight on the stand. The user-friendly LCD display on the CEM Systems intelligent card readers also allow staff to easily manage the process and see the current status of the door mode at the gate.

Triple Check

Additionally the S610f intelligent combined fingerprint card reader and controller can be used in high security areas where there are requirements for three stage verification (card, PIN, and fingerprint).

The CEM Systems S3040 lightweight and rugged hand-held portable card reader will provide Muscat International Airport and Salalah Airport security staff with the ability to conduct random checks on airside and landside personnel as well as providing ID card validation at temporary entrances or remote sites that have no power.

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PERIMETER PROTECTION

Safe as the Crown Jewels

Layers of Perimeter Security

For all the startling advances in technology, security must start by limiting access at – or even beyond – the perimeter and integrating systems that can monitor, check and allow passage through perimeters with those that then offer access to buildings themselves, says Steve Bailes, business development manager at Zaun.

After Intersec 2018, samples of Zaun's fencing systems were 'attacked' in front of potential clients and accreditors in the Middle East, where there is a stated requirement for fencing to meet the highest of security standards.

In fencing, this is Security Rating 5 (SR5) as tested by the Buildings Research Establishment (BRE). LPS 1175 certification was introduced by the Loss Prevention Certification Board (LPCB) at the BRE in the mid-1990s.

Standards for Fences

The LPCB works closely with UK government security agencies, police services, risk consultants, and architects to determine standards for fire and security products and services and independently tests and certifies systems to LPS 1175 SRs. An SR5 fence must resist a serious attempt at forced entry with top end battery power cutting tools used by fire and rescue teams including a 750W reciprocating saw with specialist blades and 18V circular saws, jigsaws and disk grinders with a spare power pack, axes including an 850mm felling axe, a hooligan bar, 1.5kg lump hammer and 500mm long bolt cutters. To be certified to SR5, the system must resist breach for more than 10 minutes by testers from BRE mounting a sustained attack armed with this astonishing arsenal.

Rings of Defence

But perhaps there is a better way of securing the most critical and sensitive assets than going on adding more and more layers of steel mesh to perimeter fences to gain higher and higher SRs. That may be tempting in this fearful age of apparently random acts of terrorism and lone wolf attacks, but it feels like a case of 'throwing the kitchen sink' at security. Whereas, a conversation at the UK Security Expo (UKSec) late last year broached a potentially more appropriate and proportionate approach of adding PIDs to a simpler perimeter security fence. This is consistent with the old 'onion skin' principle to security that can't be beaten easily – successive 'rings' of deterrent and defence for an intruder to overcome at a deeper and more robust level the nearer they get to the most critical and sensitive assets.

Guarding the Crown Jewels

The Crown Jewels are a perfect example of this. They are displayed behind bombproof glass under

the watchful eye of armed guards and more than 100 hidden CCTV cameras. The Jewel House itself is a vault within a former barracks at the Tower of London, protected by the 22-strong Tower Guard, on detachment from the British Army, and the 38 resident Yeomen Warders or Beefeaters, who are ex-military too. And heaven only knows how many fences, gates, barriers, blockers, cameras and other high-tech wizardry are employed around the perimeter of The Tower to restrict and control access. But few facilities have the equivalent of the Crown Jewels to protect – or the budgets that that security costs.

Site operators need to weigh many factors in order to determine the appropriate and proportionate physical, electronic and human building access and security measures to put in place. First are the threats posed to their building or facility; second, the chances of those being realised; third, if they are, the costs to the organization or enterprise, both monetary and potential downtime, diversion of focus and reputational damage. And, of course, what investment they are prepared to make in mitigating against those threats and risks.

Successive onion skin layers of protection – integrating physical, electronic and human security measures – is one of the best ways to protect our sites of critical national infrastructure.

Within and Beyond the Perimeter

And we need to think outside the box, literally. With radar detecting threats up to hundreds of metres away, this now enables us to look beyond the perimeter, at the perimeter and within the perimeter! Within the perimeter, technology in access control is advancing at a staggering pace. A few years ago, it was felt sufficient to block unwanted access with old-school metal keys or basic swipe cards. Now, IP-based security systems can monitor and record in HD signals, warnings and alerts from a multiplicity of sensors and systems anywhere on site and send responses back in real time. This means every event is recorded and analysed, both in real time and for training, learning and prosecution purposes after the event.

One of the most significant events is entry through building access points. The swipe of a card, the print of a thumb or even the scan of a retina can trigger a cascade of recording and monitoring systems, allowing security operatives to track personnel while on site. We are even now seeing a growth in the use of trusted identities with smart cards, mobile devices, wearables, embedded chips and other 'smart' devices, especially in industries with a focus on regulatory compliance, such as government, finance and healthcare.

Integration of Layers

A clever combination of physical and high-tech electronic measures is the key. Zaun's installations, for example, have typically involved a Critical National Infrastructure ArmaWeave Plus fencing system on the outer perimeter. They have also employed hostile vehicle mitigation measures to avert against vehicle-borne attacks. CCTV and enhanced video analytics on the outer layers and at doorways allow us to gather intelligence about attackers and relay them live to guards via their mobile phones or tablets. We also integrate lighting, surveillance and perimeter intrusion detection systems to deliver a holistic solution to security. Biometrics are even being incorporated into advanced CCTV-based face-tracking systems to identify unique facial traits. But just make sure you're not wowed by the sci-fi and forget the basic know-how of time-honoured security principles.

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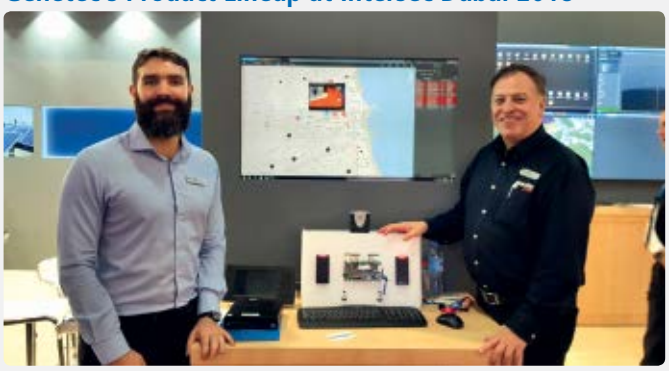
Security Products

Genetec's Product Lineup at Intersec Dubai 2018



Genetec showcased its latest unified security technology solutions and initiatives at Intersec Dubai 2018. Genetec unveiled Citigraf, a decision support system that unifies public safety operations across city departments for interagency collaboration. Genetec also showcased Security Center 5.7, its unified, open architecture security flagship. This latest version allows users to make insight-driven decisions based on security and analytics data. Security Center 5.7 now automatically identifies edge devices and cameras that need firmware updates, helping assure network protection, integrity, and ‚Security of Security'. Privacy ProtectorTM is certified with the European Privacy Seal (EuroPriSe) and ‚GDPR-ready', providing image blurring and pixelization with encryption to assure privacy and compliance. A new efficient distribution feature with HID mobile access control credentials ensures business continuity with native access control failover and mobile HID credentials management. Security Center 5.7 is available now through the global network of Genetec certified channel partners. **www.genetec.com**

Fixed Focal Lens for Latest Machine Vision Sensors

Fujinon HF-5M fixed focal lens series from Fujifilm is extended with a 50-mm lens compatible with image sensors of up to 1.1" optical format and pixels pitches down to 3.45 µm. With this latest addition of the HF50XA-5M, the Fujinon HF-5M series now consists of seven high performance fixed focal length lenses with C mount and focal lengths between 8 mm and 50 mm. The new lens HF50XA-5M broadens the range at the upper edge of the focal length. For imagers of up to 2/3" optical format, these lenses show a consistent resolution power of 3.45 µm and below from the center to the corners even when the aperture is wide open under low light conditions as well as over changing working distances. This corresponds to a pixel count of 5 megapixels, as provided by many widely adopted CCD imagers and new image sensors with CMOS global shutter technology. **www.fujifilm.eu**

PERIMETER PROTECTION

An Aesthetic Change in Fighting Terror

Approaches to Anti-Terror Protection are Shifting

Vehicles have become the weapon of choice for terrorists and to mitigate this new threat, security experts have largely focused on erecting temporary measures, such as concrete barriers and metal barricades. But, these can create fear among the public. Jaz Vilkhu, Managing Director of Landscape Protection at Marshalls, argues that those protecting busy urban spaces should consider a holistic, more aesthetic approach.

From large complex bomb plots to vehicle attacks, the terrorist threat is evolving. The longer it takes to plan an attack and the more people involved provides our security services with a greater chance of disrupting them. So rather than expose their efforts to this risk, terror organisations are shifting their approach – stripped down to an individual with motivation, intent and access to a vehicle, the gap between planning and execution has been reduced to a matter of hours and minutes.

This method is incredibly difficult to detect. There have been eight vehicle attacks across Europe since January 2017 alone, and the threat of future plots has seen anti-terror barrier installations erected around busy, urban areas to help protect the public. But while these measures send a visible message that governments are taking security seriously, they imply that the threat is very real. The very action of fortifying our town and city centres is increasing the fear that people feel and this can all too easily translate into action, with falling footfall severely hitting businesses and urban areas.

Cutting the Threat Perception

Addressing this issue should be of equal priority for security experts alongside introducing measures that can prevent attacks. Late last year, Stefano Boeri, a leading Italian architect, specified planters to protect Florence's government buildings and squares from vehicle attacks, which are more in-keeping with the surrounding environment than military-style barriers.

This represents a significant shift in thinking, and forms part of the multi-layered, aesthetic, more holistic strategy we're seeing security experts, architects and planners consider. According to joint research Marshalls conducted with IFSEC Global, 79 per cent of architects have seen the number of projects requiring aesthetic protection increase over the last three years, and almost all believe the demand will rise sharply moving forward.

The approach is designed to reduce the threat long before a vehicle can reach its target, with protective measures that integrate well with the surrounding environment. The first step involves reducing the speed and mitigating the angle that a vehicle can approach a target, which can be done redesigning the layout of the road infrastructure and adding in traffic calming features – think chicanes, speed bumps, width restricted lanes and the creation of pedestrianised areas and 'buffer zones', which redirect traffic away from people. Additional kerbing can then be specified to prevent any rogue vehicles from mounting the footpath and deflect them back onto the carriageway.

The Final Line of Defence

The landscape furniture then acts as the final line of defence. But rather than using concrete blocks and metal barriers, more security experts and architects take the approach adopted by Stefano Boeri and use planters, seating, little bins, lighting columns, cycle stands and bollards. While they may look fragile, they are built with PAS68/IWA 14.1 certified cores – the latest Publicly Available Specification for products used in hostile vehicle mitigation. A single piece of this landscape furniture can stop a 7.5 tonne articulated lorry travelling at 50 mph.

While preventing vehicle attacks is clearly key, finding the right balance between security and keeping measures out of sight and out of mind should be a priority given the potential social and commercial impacts concrete blocks and metal barriers can have.

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Comprehensive perimeter protection can only be created by a combination of mechanical and electronic components. Depending on the type of perimeter, this should include exterior protection with fences, crash bollards or other barriers, vehicle sluices with quick folding gates or a barrier gate combination. The experts from French perimeter protection specialist Orep develop integrated solutions together with their clients.

The Peristop sensor net detection system uses detection bent arm systems on the upper part to detect climbing

PERIMETER PROTECTION

Protect Critical Infrastructure

Combining Physical Barriers With Intrusion Detection Systems

Analysis First

Installing custom-designed systems requires that each project begins with a thorough survey of the proposed deployment site. At the start of every project it is strongly recommended that a team of security experts carefully surveyes and assesses the site. A security risk analysis includes the analysis of current and future security needs and as a reaction the development of appropriate countermeasures to mitigate the risks.

A good partner for perimeter protection offers a wide spectrum of products and services, depending on the individual needs and requirements of a client and is not limited to a certain type of equipment or technology. In the December issue of GIT SECURITY we have provided our readers with an overview about the different technologies that can be used to protect perimeters.

Expertise is Required

Orep has more than 40 years of expertise in the protection of sensitive sites. On the occasion of the French electronuclear program, OREP has developed a system of detector wire netting Peristop. Since that, Orep has specialized in the design, manufacture and installation of intrusion detection systems and the Peristop system is still a key component for their perimeter security installations.

Sensor Net Detection System

Peristop is a 20 cm by 20 cm stainless steel mesh. The mesh is made to be a detector sensor net. All meshes are made with a 3mm stainless steel detection wire and all detection wires are mounted and connected to form a current loop which is an alarm area. The mesh size of the detector is a net vertical resistant barrier which can't be crossed without deterioration. The mesh sensor Peristop is locked on end braces and posts using profiles and Peristop detection wire.

The system uses detection bent arm systems on the upper part of the fence in order to detect climbing. The detection bent arms are articulated in both directions, inside and outside. A pressing force increased or trigger an alarm. The Peristop system is managed by an Electronic Control Unit that continuously monitors the status of loops (Monitoring of electrical continuity, impedance, leakage current and short circuits). The breaking of a wire or a grounded causes an alarm.

Intelligent Fence

Part of many Orep solutions is the Perifence+ system, a detector fence that consists of panel with rigid welded mesh. The horizontal tubes are instrumented with sensor cables that detect when there is a cut off. This perimeter detection device is fully integrated in the fence and totally invisible. The detection wire is placed in a way to form a current loop in which, analyzed by an electronic control unit that will constitute an alarm.

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

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Off the Record

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

Name: Stuart Rawling
Position, Company:
Director of Segment Marketing, Pelco by Schneider Electric and member, ONVIF Steering Committee
Date of Birth: October 19th 1978
Hometown: York, England
Favourite homemade dish:
Bread and Butter Pudding

1. **Right now: Right Here –** is almost a great fat boy slim song.
2. **When I'm stressed** I drink a lot of coffee.
3. **My biggest struggle on a workday is** when someone sent 2342348 emails instead of picking up the phone.
4. **I can never resist** trying to make people laugh. Even at the worst of times, there is always a lighter way to look at the world.
5. **My biggest motivation is** seeing people who get fired up every day at their job.
6. **At 7 o'clock in the morning** I am usually 2 hours into my work day.
7. **The natural talent I would like** to be gifted with is fluency in multiple languages.
8. **Guaranteed to make me laugh is** a guy called Eddie Izzard.
9. **Three characters I would like to have dinner with (dead or alive, fictional or non-fictional) are** (Dead) Queen Victoria, (Alive) Stephen Hawking, (Fictional) Captain Kirk.
10. **I have the completely useless talent of** being able to fall asleep anywhere. Seriously, plane, train, meeting room floor, sat up in a park, anywhere I need to I can make it work.
11. **Three things that I am most grateful for in life** are my wife and 2 children.
12. **The best decision in my career so far** was to move to the US and try a career in technology.
13. **The best compliment anyone has ever given to me** was actually intended as an insult: You care too much for people around you. The business world can be cutthroat, and as a leader you have to make hard decisions that impact people's lives. The least we can do is be humane and dignified about it, if hard decisions have to be made.
14. **If my life was a movie, I would be portrayed by** Liev Schreiber.
15. **I am entering the wrestling arena and the crowd is calling out my wrestling name:** "The Geeky Brit!"
16. **At the most horrible job I ever had** I cleaned the men's bathroom and locker room at a golf club.
17. **The language I would most like to speak is** Spanish **and I pretend to know how to speak** Chinese**.**
18. **The biggest challenge for me/my industry at the moment is** we are on a cusp of another game changer – intelligence and automation are incoming fast, and cyber security issues are going to start to get painful.
19. **When I have done something forbidden** I never tell anyone about it except when I catch someone doing the same.
20. **The last thing/gadget I bought was** a ridiculously expensive, yet amazing OLED TV.
21. **In the shower I sing** musicals, because I was born for Broadway.
22. **As a child I was teased, because** I was a know-it-all – but that stopped when it became apparent I could help with homework.
23. **The most hideous/favorite piece of clothing I own is in my possession, because** I never clean out my wardrobe.
24. **As a child I collected** allergic reactions – I used to drive my poor mother crazy, I am sure.
25. **From the first money I earned I** bought a terrible CD – anybody remember Shampoo? #Guilty.
26. **If I was trapped in a skyscraper for one night, I would** sleep on the roof looking at the stars, and watch the sun wake the city slowly. At least that would be the dream, I would freeze my backside off and invariably sleep past sunrise in reality.
27. **I was utterly perplexed when** people are in a meeting to discuss a topic – and someone wants to take a critical item "offline" – i.e. Have another meeting about it.
28. **I would like to have the superhero superpower of** mind reading – that has a wide variety of applications.
29. **My first car was a** Toyota Corolla – silver with only a handful of cracks in the windshield.
30. **I had the opportunity to shake hands with** too many people who don't take personal hygiene seriously.

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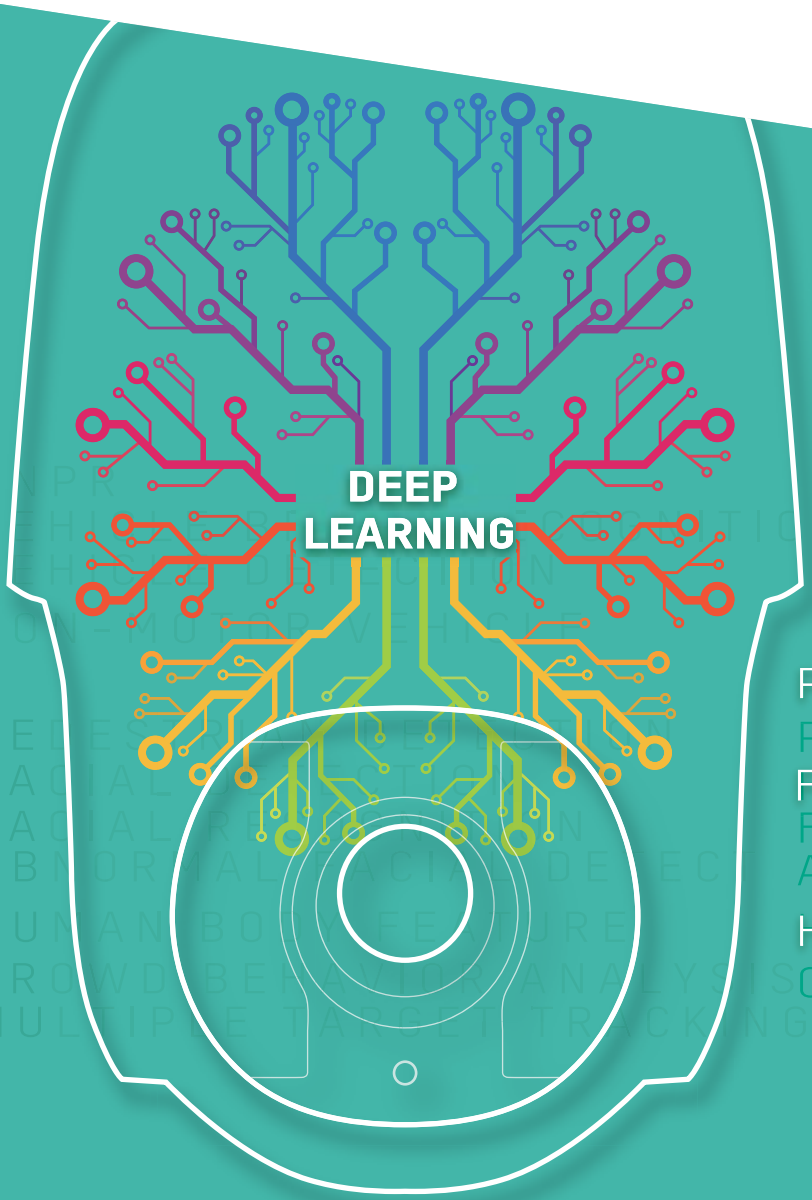

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