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MAGAZINE FOR SAFETY AND SECURITY

SECURITY

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EDITORIAL

It's IFSEC Time again

As the industry landscape has changed over the years, also the events have changed. The times are gone when IFSEC was just about CCTV and the UK market. Taking place in London, 20 – 22 June, IFSEC will be a good way to keep up to date, protect your business and enhance your career in the security industry. As you can see in the preview on page 12, IFSEC is launching several new features and revamping some existing favourites for its 2017 edition.

The security industry is evolving fast in terms of technology and IFSEC reflects this trend by having a strong focus on the rise of IP, cyber security, growing terror and cyber threats this year. These topics are in the centre of this issue, too.

Airports and ports airports have always been targets for terrorism and crime, because attacking them is a way to attract the greatest amount of attention all over the world in the shortest possible

time. In our special focus on security at ports and airports starting on page 30 we show ways to protect these facilities.

Leading the way to product innovation is the goal of GIT SECURITY AWARD. Our award is going into the next round now and we present the nominated products in each of the categories on pages 8 to 28. It is a great opportunity for the industry to introduce products to an international audience and to test how popular their products are and it would be great if you take some time and vote for your favourites. With a little luck you can win a professional camera.

If you attend IFSEC and FIREX please feel free to visit our stand G580 in London.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team



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WELCOME TO THE KNOWLEDGE AGE.
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Tyco Security Products Enhances Connected Partner Program

Tyco Security Products has announced the addition of a partner portal for its Connected Partner Program to further simplify the third-party integration process with various some of the company's products. With a simple online application, enhanced access to comprehensive integration documentation, download SDK/Web Service and APIs and brand software, as well as access online training resources and FAQ documents, the new portal improves the speed of delivering integrated solutions to market by providing a single online access point. The Connected Partner Program, from Tyco Security Products, includes nearly 200 partners with over 400 integrations across several of its leading brands, including Software House, Kantech and American Dynamics.

www.tycosecurityproducts.com

New Operations Director for Apollo Fire Detectors

Apollo Fire Detectors is pleased to announce the appointment of Georgios Kastias as its new Operations Director. Georgios's appointment reflects the commitment made by Apollo to achieving organizational excellence within the company, spearheaded by a dynamic and effective leadership team. He joins from Danfoss, where he held the role of Operations Director, transforming the business into a high performing organization.

www.apollo-fire.co.uk



DEF Network Takes Over Detectomat

DEF Network announces the acquisition of the German company Detectomat specializing in the design, manufacture and marketing of fire detection systems. This acquisition includes Detectomat's production and sales sections, as well as its section dedicated to domestic detectors: Detectomat Living. Through this acquisition, DEF Network strengthens its position on the European market and more specifically in Germany. This strategic merger will allow for the two companies' expertise in innovation to be combined for the development of even more efficient fire detection solutions, relying on a consolidated team of 130 engineers in Research and Development. The combined entity will therefore be able to offer a larger range and meet the requirements of the VDS standard held by Detectomat.

www.job-group.de/en

Hanwha Techwin Announce Enhanced Warranty Program

Over 200 delegates who attended the Hanwha Techwin Wisenet conference held in Barcelona in March heard Managing Director Bob Hwang announce the introduction of enhanced warranty support for STEP Partners. Silver, Gold and Diamond level partners will benefit from a new 5 year warranty program that covers parts and labor on all the company's IP cameras and NVRs, with the exception of zoom/focus functionality, pan/tilt motor assemblies, slip-rings and HDDs, which will remain at 3 years. The Wisenet X series introduces 26 new cameras in 2 and 5 megapixel, with H.265 transmission. They feature dual SD slots providing 512 GB on-board storage and gyro sensors for more accurate stabilization to combat wind and vibrations.

www.wisenetx.com



STid Wins Best Access Control Mobile App Award

The Security Industry Association (SIA) recently awarded the Gold Trophy for Best Access Control Mobile App at ISC West to STid for its Mobile ID secure and intuitive access control solution. The company's Architect Blue readers and app provide user-friendly identification solutions by transferring the user's access card onto their smartphone, to work alongside or replace their RFID card. „We were impressed with its various identification methods, allowing the user to open a door without getting their phone out of their pocket ... This is a real improvement for organizations in search of simplicity and efficiency”, said one of the Judges.

www.stid.com



Arecont Vision Technology Partner Program Welcomes AMAG

Arecont Vision has announced that AMAG Technology, an access control, IP video, identity management, visitor management and intrusion detection solution provider, has joined the Arecont Vision Technology Partner Program. Their Symmetry Complete View video management system is certified for use with Arecont Vision's megapixel cameras and is available in the Megalab as part of the program. Combining high resolution and multi-sensor cameras to provide situational awareness with an access control and intrusion detection system allows for quicker response times and an improved overall security system.

www.arecontvision.com

Italy's Credito Cooperativo Invests in Vanderbilt's Security Solutions

Vanderbilt, a provider of security systems, has announced that its technology is currently being installed across Italy's Credito Cooperativo (BCC) consortium of banks. Work has already started on the Banca di Cesena and Banca di Gatteo that are benefitting from the company's SPC5000 and SPC6000 control panels, which provide effective integration of intrusion and access functionality. BCCs are found throughout the length and breadth of Italy as 317 mutual not-for-profit organizations comprising over 4,300 branches. The two banks are the first members of the BCC to initiate a new security infrastructure being implemented by Gatteo-based Smart Security. The control panels are being fully integrated with Vanderbilt's SPC Connect system – a cloud-based solution that allows Smart Security to monitor, manage and control the SPC control panels remotely from any location.

www.vanderbiltindustries.com



Thomas Lausten New Chairman of the Board at Mobotix

The supervisory board of Mobotix has appointed Thomas Lausten, former Vice President EMEA at Milestone, as a member of management board and chairman of the board for three years. Thomas Lausten will start not later than July 1, 2017.

www.mobotix.us





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Idis Opens New UK Office

To support continued robust growth and an expanding customer base, Idis, has opened new offices and training facilities in London. Remaining in the recently refurbished and prestigious building,



The Mille in Brentford, the new facility features significant additional desk and recreational space, meeting rooms and has doubled the capacity of the company's training and demonstration facility. Over the last two years Idis has significantly grown its sales force in the UK as well as strengthening its technical support team. This growth has corresponded with a larger partner network and customer base that has seen the demand for Idis product demonstrations and training soar. Commenting Brian Song, Managing Director, Idis Europe, said: "Our new UK office is testament to the growth surge Idis has experienced over the last four years. Since the launch of our own brand business 2013, we have expanded our workforce and infrastructure both here in the UK and at our global headquarters and manufacturing facility just outside Seoul, as well as opening regional headquarters in the Middle East and the US. The new facilities in Brentford mean that we can continue to deliver world-class sales and technical support at a local level both now and in years to come." Idis will showcase its core technologies, including the flagship DirectIP offering at this year's IFSEC International at London's ExCel on 20th – 22nd June on stand G700.

www.idisglobal.com

Intersec Saudi Arabia 2017 Debuts

The inaugural edition of Intersec Saudi Arabia got underway, with 170 exhibitors from 26 countries zooming in on the Middle East's largest commercial security and fire safety market. Running for three days at the Jeddah Centre for Forum and Events, Saudi's foremost security, safety, and fire protection trade show targets the Kingdom's burgeoning market where, according to analysts Frost & Sullivan, the spend on commercial security, homeland security and fire safety was worth US\$5.4



HH Saud Bin Abdullah Bin Jalawi Al Saud

billion in 2016, comprising a 42 per cent share of the Middle East market that year. With 73 per cent international participation, more than 500 brands, three country pavilions, and an enlightening three-day conference programme, Intersec Saudi Arabia caters to growing demand for an integrated platform providing crucial access to one of the world's most promising markets. Jointly organised by Messe Frankfurt Middle East and Al-Harithy Company for Exhibitions (ACE Group), Intersec Saudi Arabia is held under the patronage of HRH Prince Khalid Al Faisal, Advisor to the Custodian of the Two Holy Mosques and Governor of Makkah Region. The show was inaugurated today on his behalf by HH Saud Bin Abdullah Bin Jalawi Al Saud, Deputy Governor of Makkah Region for Security Affairs.

www.uae.messefrankfurt.com · www.intersec-ksa.com

Winners of International Safety Awards 2017

The British Safety Council has announced the winners of its 2017 International Safety Awards, which recognise and celebrate organisations from around the world which have shown a real dedication to keeping their workers and workplaces healthy and safe during the 2016 calendar year. This year, 531 organisations of all sizes and sectors won an International Safety Award, including businesses from the UK, Africa, Asia, India, mainland Europe and the Middle East. 31 organisations were awarded a distinction, 300 were awarded a merit and 200 organisations achieved a pass. The winners are drawn from various industry sectors and include construction, housebuilding, civil and rail engineering companies, such as Connell Brothers Ltd, Ductclean (UK) and Amana Group; engineering and manufacturing businesses, such as Airbus UK Ltd, Glaxo SmithKline Montrose and ISS Facilities Services, as well as transport, distribution and logistics companies, such as Aberdeen International Airport, Bibby Distribution Limited and Nahdi Medical Company. The leisure sector is also well represented with winners, such as Arsenal Football Club and the Rugby Football Union's Twickenham Stadium. International winners include Abu Dhabi Island, Fatima Fertilizer Company, Indian Oil, Garda World International Protective Services and Sotech General Contracting Limited.

www.britsafe.org

Onvif Holds 16th Developers Plugfest in Québec City

Onvif hosted its 16th Onvif Developers' Plugfest (ODP) May 10–12 in Québec City, Québec, at the Delta Hotel Quebec City in the Old Town district. With multiple testings of Onvif conformant products, the Developers' Plugfest offered interoperability testing for five Onvif profiles, including the Release Candidate of Profile A for broader access control configuration, which is scheduled for final release this summer. During the Plugfest, engineers and developers from Onvif member companies tested their products' implementation of ONVIF Profile Specifications with other Onvif Profile-conformant products to ensure interoperability between conformant products from other vendors. In addition to Profile interoperability tests, attendees were offered one hour of testing using the Onvif Device/Client Test Tools, as well as the opportunity to discuss with Test Tool developers any issues that arose during conformance testing. The Onvif Developers' Plugfest in Québec City drew 32 attendees from 17 member companies from 13 different countries. Attendees logged 177 hours of total testing time during the three-day event, testing five Onvif profiles for interoperability.

www.onvif.org

Siqura Becomes TKH Security Solutions

As of the first of April 2017, all security vision products from Siqura will be branded TKH Security Solutions. This change comes as a direct



response to the large number of partners and end users that utilise Siqura products and services, and want to engage in small, medium and large scale security and safety projects with the TKH Group. "The TKH Security Solutions brand is nothing new. We have delivered many projects, including several high-level projects under the TKH Security Solutions name over the last few years," explains Dr Magnus Ekerot, CEO of TKH Security Vision Group. "What is new is that we are now taking the final step in branding and collecting our products under this strong identity name, to show our partners and end users our commitment to them and their work." www.siqura.com

Pelco: New Direction and Initiatives at ISC West 2017

ISC West attendees met the new Pelco. The company is taking strides to re-establish its position as a global leader in surveillance and security, with new technologies, integrations and quality advancements along with significant support initiatives to provide value and meaningful innovation to the security industry community. "We have been making changes across the entire organization for the last couple of years, from technology developments to new sales, support and operations programming," said Diane Feliciano, VP, Global Marketing, Pelco by Schneider Electric. "Our focus today is on delivering the industry's best comprehensive security solutions, from video surveillance cameras with advanced analytics to video management systems. We have also launched a new resource website, securityinsights.pelco.com, as part of our commitment to provide all security industry professionals with the support they need, when they need it. We've got it all covered." www.pelco.com

Hanwha Techwin Expand European Sales Team

Hanwha Techwin has announced a significant number of new additions to its Pan-European sales teams.

Czech Republic and Slovakia – Jaroslav Novovesky has been appointed as a Business Development Manager for the Czech Republic and Slovakia. Jaroslav, who has worked within the electronic security industry for almost 20 years, was until recently Business Development Manager for D-Link Europe and he has also worked for Honeywell Systems Group where he was Sales and Project Manager.

France – Alain Grinbaum has been appointed a senior member of the Hanwha Techwin business development team in France. Alain will be working at a strategic level with the company's business partners in order to ensure it is positioned to compete for major video surveillance projects. Prior to joining Hanwha Techwin he was country manager for the video surveillance division of Canon and has previously been senior sales director of Aasset Security.

Germany – Jens Wittkamp joins Hanwha Techwin as Business Development Manager for Germany. Jens, who has worked within the electronic security industry for 17 years, was until recently Account Manager for the Enterprise Cabling & Security Solutions division of Anixter. Till von der Osten has been recruited as B2C Business Development Manager for Hanwha Techwin's home security range which includes smart home cameras, wireless baby monitors and 'all-in-one' CCTV kits. Till has worked within the retail electronic channel for over 14 years and prior to joining Hanwha Techwin Europe, was National Key Account Manager at Samsung Electronics.

Spain – Jordi Gracia Vergara, who joins Hanwha Techwin as a Business Development Manager for Spain, has worked within the electronic security industry for more than 30 years. He was until recently Key Account Manager for the security division of OHL Industry, and he has also worked for Niscayah/ Stanley Security Systems, Siemens Building Technologies and Securitas.

Turkey – Burak Demir has been appointed Business Development Manager for Turkey. Burak has worked within the electronic security industry since 2009 and prior to joining Hanwha Techwin was Company Manager for systems integration specialists, IBC Electronic Sec. Sys. Ltd. Co.

UK – Ian Stewart has been appointed Business Development Manager and will be responsible for developing relationships with market influencers, including consultants, specifiers and system designers within the construction industry. Prior to joining Hanwha Techwin, Ian was a Business Sales Consultant for Honeywell Building Solutions and he has previously worked for ADT Fire & Security as a Key Account Manager. Luke Duncanson has joined as a Field Sales Executive – North, and will provide pre-sales support to the fast growing list of installers and systems integrators who are choosing to recommend Wisenet video surveillance solutions to their clients. Prior to joining Hanwha Techwin he was a sales executive for Elite Digital Systems. www.hanwhatechwin.com

Garry Carson Appointed as UK Technical Manager at VCA

Garry Carson has been appointed to the newly created role of UK Technical Manager for VCA. Working closely alongside the UK sales team, Garry will be responsible for ensuring VCA's fast expanding list of UK customers are provided with the highest level of pre and post-sales support. This will include the provision of training to assist end-users in achieving maximum benefit from the video analytics incorporated into all VCA's own brand cameras and appliances. Garry has worked within the electronic security industry for almost twenty years, during which he has performed technical support roles for Aasset Security, ADT Fire & Security, Vindex Systems, Xtralis. "Our sales in the UK have grown significantly over the last twelve months and the timing is now right for us to employ a dedicated, locally based technical manager," said Kevin Waterhouse, Executive Vice President, Global Sales for VCA Technology Limited. "Garry is a welcome addition to the VCA team. We will be able to put his extensive technical knowledge, interpersonal skills and enthusiastic approach to customer support to very good use." www.vcatechnology.com

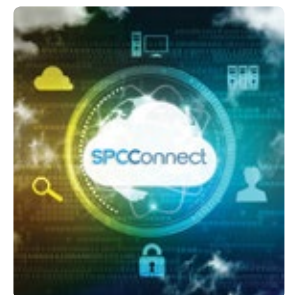


Hanwha Techwin Global Partnership with Nvidia

Hanwha Techwin's security business group, under the leadership of President Lee Man-Seob, has agreed to establish a partnership with AI (Artificial Intelligence) company Nvidia. This is intended to strengthen the competitiveness of AI-based security products and solutions. Nvidia is a US-based company which has pioneered modern computer graphics and has achieved success through the development and manufacturing of GPUs (Graphic Processing Units). Recently, Nvidia has been leading the AI technology field by revealing GPUs for computers, robots and self-driving cars, based on Deep Learning algorithms. Through this global partnership, Hanwha Techwin and Nvidia are planning to collaborate on the intelligent video analysis platform which is currently being developed by Nvidia. Nvidia's intelligent video analysis platform will feature AI GPUs based on Deep Learning on security devices, such as cameras and storage media, which will allow for fast and accurate video analysis data that provides meaningful information to customers rather than giving simple video data to them. Hanwha Techwin plans to concentrate on developing AI cameras and storage devices capable of autonomously detecting abnormal movements and situations by utilising the AI video analysis platform from Nvidia. www.hanwhatechwin.com

Cloud-Based Installer Solution

The development from Vanderbilt SPC is a hosted cloud-based solution designed specifically for installers to monitor, manage and maintain SPC panels remotely with financial grade SSL security from any location. Access is granted to the full programming function of any SPC panels to remotely perform operations and status checks across groups of systems. As this removes the physical need to visit a site, it saves time and money that would otherwise be spent traveling. The pay-as-you-go nature of SPC Connect means that businesses only pay for what they need. For a lot of SPC installations, all that is required is a browser connected to the Internet. End users can download the SPC Connect app free of charge from the Apple App Store or Google Play. www.vanderbiltindustries.com



Onvif Speaks on Evolution of Onvif

Onvif speaks at ISC West 2017 at the Sands Expo in Las Vegas, as part of SIA Education@ISC, the Security Industry Association's educational program, held in conjunction with ISC West. Onvif Steering Committee Chair Per Björkdahl and Onvif Communication Committee Chair Jonathan Lewit spoke on behalf of Onvif on "Using Onvif for Network Connected Security". The joint presentation focused on how end users, security system designers and systems integrators can use Onvif to integrate access control, video surveillance and other security and operational elements as part of a security deployment. The session also provided an overview of the history and current profiles of Onvif, as well as opportunities for industry involvement within Onvif standardization activities. Lewit and Björkdahl joined a panel discussion entitled "The Standards Developers Panel," to include panelists representing SIA and other organizations involved in standards initiatives affecting the physical security industry. www.onvif.org

TDSi and LiteStar Announce New Partnership in Singapore

Integrated security manufacturer TDSi is proud to announce its new partnership with Singapore-based installation specialist LiteStar Technologies. LiteStar is a provider of integrated total electronic security solutions to small and medium-sized enterprises, along with multi-national corporations and governments in ASEAN markets. LiteStar's Jason Ang commented, "TDSi offers high quality enterprise-level, fully integrated access control solutions. The robust technology and solutions are the perfect platform and an ideal fit for our business as a provider of security solutions." www.tdsi.co.uk

Pyronix and Hikvision Exhibit Together at Ifsec

It's been a whole 12 months since the revelation of the new, combined Pyronix and Hikvision branding at Ifsec 2016. Lots has been happening at Pyronix since last year's show and they will show their latest innovations at Ifsec 2017, as well as provide visitors with sneak peaks and plans that they can look forward to and expect over the coming months. Exhibiting alongside their parent company Hikvision on stand E800, Pyronix will be manning a security and surveillance super-stand at one of the biggest exhibitions in the security industry calendar and one of Europe's large-scale security events of the year! With all their product ranges on display, visitors can ask questions, speak with dedicated account managers, join the Pyronix Training Academy, join the Enforcer Club and see live demonstrations and demos. There'll also be a great competition where visitors can win fantastic prizes, so making a visit to the stand enjoyably educational. Hot topics for the industry and for Ifsec continue to be the shift to IP communications, the convergence of smart apps, home automation compatibility and cloud technologies. www.pyronix.com

Siemens: Air Cargo Center at London Heathrow Airport Installed

Siemens Postal, Parcel & Airport Logistics (SPPAL) has been commissioned to install a highly efficient air cargo center at the international London Heathrow Airport. International Airlines Group (IAG) issued the contract for IAG's subsidiary British Airways. Siemens is equipping a complete new cargo terminal allowing the airline to profit from a substantial expansion of the existing air cargo capacities and an optimization of complex cargo processes. To this end, Siemens will employ an intelligent system layout and innovative material handling systems. A highlight of the center will be a "fast-track facility" to process particularly urgent air cargo in only 45 minutes. "With our many years of experience and our in-depth knowledge of air cargo logistics, we will be able to help IAG strengthen their competitive position," says Michael Reichle, CEO of Siemens Postal, Parcel & Airport Logistics. Sarah Coulson, Head of Strategy and Business Development at IAG Cargo adds: "We are proud to have held our ground for years as a major player in the highly contested air cargo business." www.logistics-airports-solutions.siemens.com

Siklu Appoints Eyal Assa as New CEO

Siklu has announced the appointment of Eyal Assa as new CEO of the company. Mr. Assa is a veteran executive with over 20 years of leadership experience in the telecommunications industry. Siklu is a strong participant in the fast growing 5G fixed wireless access market, which will rely to a great extent on the millimeter wave spectrum. 5G fixed wireless access is a major telecommunications infrastructure upgrade and the first step on the way to ubiquitous 5G speeds. Assa's extensive experience heading growth in the telecommunications market makes him uniquely qualified to lead Siklu in the growing market for millimeter wave solutions. "Eyal understands what drives success in the telecom industry, and I'm confident that with his leadership we'll play a significant part in the 5G fixed wireless ecosystem," said Izik Kirshenbaum, Siklu's Co-Founder and Chairman. Mr. Assa most recently held the positions of VP Customer Business Executive and VP Global Sales at Amdocs. Prior to that, he held leadership positions at Ceragon, including EVP & General Manager of their Long Haul business unit, COO Sales and VP OEM and Business Development. Prior to Ceragon, Mr. Assa served as VP R&D of Seabridge. www.siklu.com



FST Biometrics and Genetec Strategic Partnership and Product Integration

FST Biometrics and Genetec announced a new collaborative relationship.



The two companies will work together to integrate the FST biometric fusion of identification technology, which combine face recognition and body behavior analytics, with the Genetec Synergis access control system in Security Center. FST's cutting-edge In Motion Identification (IMID) technology will be deployed as a part of Genetec Security Center, a unified IP security platform, and will manage physical secure access to facilities through a simple and easy integration that allows Security Center customers to maintain their existing security setup. Security Center users will now have the option to implement an identity management component that will admit users based on their biometric profile as they approach access points. IMID can also be combined with RFID cards for organizations that require multi-factor identification.

www.genetec.com · www.fstbm.com

Arecont Partner with Amag

Arecont Vision has announced that Amag Technology has joined the Arecont Vision Technology Partner Program. Amag's Symmetry CompleteView VMS (video management system) is certified for use with Arecont Vision megapixel cameras, and is available in the MegaLab as part of the program. "Arecont Vision is a long standing Symmetry Preferred Partner," said David Ella, Vice President, Product and Partner Programs, Amag Technology. "By combining high resolution and multi-sensor cameras to provide situational awareness with our access control and intrusion detection system allows for quicker response times and an improved overall security system." "Amag is a perfect fit in our Technology Partner Program offering industry leading access control, intrusion detection, and video management," said Jason Schimpf, Director of Arecont Vision's Technology Partner Program. "Combined with Arecont Vision single- and multi-sensor cameras, integrators have a fantastic total solution for their customers. Customers can now be even more confident that the joint solution will work seamlessly with AMAG that is now officially MegaLab certified." www.arecontvision.com

Uhlmann and Zacher: Half a Million Electronic Locking Units

Uhlmann and Zacher celebrated the magic number achieved at the beginning of 2017: the 500,000th electronic locking unit manufactured. To mark the occasion, dealer Wagner Sicherheitstechnik was presented with a gold-plated electronic locking cylinder. 26 years of the company's history began in 1990 when the founding partners Martin Uhlmann and Dr. Marc Zacher cooperated to develop software and hardware and to distribute computer hardware. The range of products grew steadily: locking cylinders, door fittings, furniture locks, cabinet locks, radio modules, readers, add-on components and management software were developed and launched. Now with approx. 70 employees at their headquarters in Waldbüttelbrunn, development, customer service and technical support for electronic locks and cylinders are all available from the original proverbial inventor garage that turned into a professional industrial operation. www.uundz.de

Vanderbilt and Citel Spa Join Forces in Italy's Financial Sector

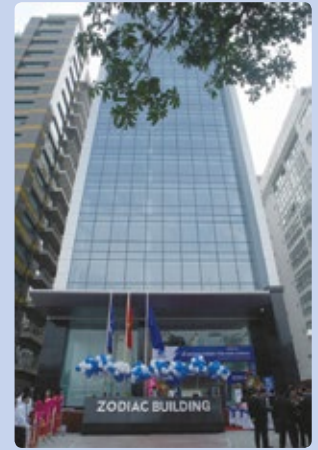
Vanderbilt has announced a new partnership with Citel Spa, a supplier of physical security information management (PSIM) software to Italy's financial and industrial sector. Citel Spa uses IT solutions to improve security, safety and building management processes, supporting operations and management with compliance to PSIM paradigm and business continuity rules. The company works with the majority of Italy's leading banks and financial services providers, applying its Centrax PSIM system. Vanderbilt has adopted the CEI-ABI protocol for its EN 50131 compliant SPC intrusion detection system, available in the forthcoming SPC 3.8, which will allow it to be fully integrated with Centrax. www.vanderbiltindustries.com

Apollo Fire Detectors for Bulgarian Project

Nearly 500 devices from the Apollo Fire Detectors XP95 range have been specified for a new office, meeting and leisure development in Bulgaria's capital city of Sofia. The Collider Activity Center provides meeting spaces, offices, a restaurant and bar amenities and many leisure facilities. Fitted by installation partner, Elve, the fire detection system comprises 300 XP95 optical detectors, 90 XP95 heat detectors, 50 Manual Call Points, 30 XP95 open area sounders and 20 input/output modules, all from Apollo. www.apollo-fire.co.uk

Eyevis Visual Solutions Names Zodiac Exclusive Partner for Vietnam

Eyevis, the German manufacturer of professional visual display solutions, has strengthened its network of worldwide distribution partners with the appointment of Zodiac as exclusive partner for Vietnam. According to the latest economic data released, Vietnam's GDP rose 6.68%, the export earnings increased and the inflation rate remained low. Zodiac Investment Corporation, founded in 1991, is a recognized pioneer in the Vietnamese AV business with a team of professional consultants and more than 20 years of experience. Zodiac supplies products for various applications in control rooms, corporate communications, digital signage, education, medical, broadcast and simulation. www.zodiac.com.vn



Flir Systems Acquires Armasight

Flir Systems announced that it has acquired Armasight, a leading developer of precision sporting, hunting, and military optics products, for approximately \$41 million in cash. Armasight, based in San Francisco, is a global player in night vision, thermal, and daylight imaging products for hunters, outdoor enthusiasts, law enforcement, and military customers. Armasight develops and distributes a wide range of rifle scopes, spotting scopes, binoculars, goggles, and illuminating tools that improve safety and the enjoyment of the outdoors as well as enable military users to detect, recognize, and identify targets from extreme ranges at any time of day or night. The acquisition will combine Flir's existing lines of Personal Vision Systems and Thermal Weapon Sights with Armasight's products thus providing Flir the ability to better serve hunters, wildlife enthusiasts, police, and military customers with advanced day and night capabilities. The combined business line will be named Flir Outdoor and Tactical Systems and will be reported within Flir's Surveillance segment. www.flir.com



AD500

The Most Convenient, Reliable, and Versatile
Automatic Door Operator



EVENT PREVIEW

It's IFSEC Time

If you thought IFSEC was just Wall to Wall CCTV – Think Again

Taking place in London, 20 – 22 June 2017, IFSEC International gives exclusive hands-on access to over 10,000 security solutions, live product demonstrations, and networking with over 27,000 security professionals. Covering every aspect of security, from access control and video surveillance to smart buildings, cyber, border control and so much more, visiting IFSEC International is a good way to keep up to date, protect your business and enhance your career in the security industry.

IFSEC is launching several new features and revamping some existing favorites for its 2017 edition. The security industry is evolving fast in terms of technology (e.g. the rise of IP, cyber security and the internet of things), the threat landscape (e.g. growing terror and cyber threats) and how the supply chain does business.

What's Expected in 2017

■ 1. Borders & Infrastructure Expo

Long the go-to event for security installers, integrators and distributors, IFSEC International has been adapting to its increasingly diverse visitor demographic for several years now. That is why 2017 marks the launch of Borders & Infrastructure Expo. Catering to senior security professionals from government, utilities, transport, logistics, sports stadia and events, and border control and law enforcement, Borders & Infrastructure will provide solutions and education around counter-terror, border security and the protection of critical national infrastructure.

This brand new show within IFSEC 2017 will host leading suppliers of innovative solutions in cyber, perimeter, UAVs, surveillance and other cutting-edge technologies. The expo will also feature an exclusive meeting service to pair high value buyers with exhibitors, as well as a dedicated seminar theatre tackling security trends, pitfalls and best practice for high-security sectors of critical national importance.

Borders & Infrastructure will welcome a range of brand new exhibiting companies including L3 Security & Detection Systems who will be showcasing the SafeView and trace detection solutions, CLD Fencing who'll be presenting a range of perimeter fencing solutions. In addition IFSEC

welcomes back Parking Facilities who'll be displaying their selection of automatic barriers, automatic bollards, automatic sliding gates, cantilever gates, turnstiles and speed gates.

■ 2. The Drone Zone

Officially launched at IFSEC 2016, the Drone Zone will return to ExCel London bigger, better and now more appropriately housed, centre stage, within Borders & Infrastructure Expo. Whether you want to find out how drones can aid security at sports events, in counter terror or in traffic monitoring, protect your organisation against drones, or simply want to see this incredible technology in action, the Drone Zone will provide some compelling aerial theatre in the heart of IFSEC.

You'll have the chance to speak to experts from leading drone manufacturers and, of course, see them in action, flying above your head within ExCel London.

■ 3. Brand-New Seminar Theatre

IFSEC 2017 will feature a brand new seminar theatre. Hosted within Borders & Infrastructure Expo, the Borders & Infrastructure Theatre will feature seminars, case studies and panel debates dedicated to counter terror, border security and the protection of critical national infrastructure. Anyone with a standard IFSEC pass can access the Borders & Infrastructure Theatre.

The Tavcom Theatre, meanwhile, offers technical advice to installers, integrators and engineers on installing, maintaining and optimising security systems.

The ever-popular Security Management Theatre will this year have an even bigger focus on getting the best out of IP surveillance, access control, intruder alarms and other security technology, while the Smart theatre is branching out from last year's

home automation focus to cover smart commercial buildings, integrated security solutions and the internet of things.

■ 4. The Installer World

Not forgetting the thousands of installers, integrators and engineers who return to IFSEC year after year, in 2017 we're dedicating a specific area of the show to these loyal visitors. Installer World will bring together manufacturers and distributors, the Tool Zone, workwear, the Engineers of Tomorrow competition, recruitment consultants and a networking bar – all in one place.

This year IFSEC welcomes Anglia Tools as their exclusive partner for the Tool Zone and visitors will be able to sample a wide range of hand and power tools and take advantage of some highly attractive IFSEC offers.

■ 5. Smart Technology

Building on the success of 2016, IFSEC 2017 will be showcasing smart solutions across integrated security systems, home automation, smart commercial buildings, and will also offer home automation training away from the show floor.

Following on from last year's hugely successful Home Automation House, a fully functioning smart home in the middle of the exhibition floor, visitors can expect an even more heightened focus on all things 'smart' in 2017. This June, smart technology will feature across all three days of the show, with the latest smart products on hand to test and trial throughout the exhibition as well as a dedicated smart seminar theatre, and training sessions running away from the show floor. IFSEC 2017 will not only cover home automation but also the wider IoT, including smart commercial buildings, smart offices, and connected security systems.

■ 6. Attack Testing Zone

Part of Borders & Infrastructure Expo, this year will also see the launch of the BRE Global/LPCB Attack Testing Zone whereby expert technicians will execute live tests on perimeter fencing, security doors, and shutters.

■ 7. ARC Village

Part of Installer World, the ARC Village is dedicated to promoting the services of alarm receiving centres, giving installers the chance to find the perfect Alarm Receiving Centre to support their business.

Installer World takes what IFSEC has done with the Installer Zone in previous years and makes it bigger and better than ever. Sponsored by Risco, Installer World is a dedicated area where installers, engineers and integrators can discover test and trial runs of over 10,000 of the latest products from leading suppliers. They can benefit from free training in the Tavcom Training Theatre or grab a beer with clients, suppliers, and industry recruiters in the dedicated Installer World bar. Visitors can fulfil their shopping list at the Oprema Trade Counter, with next day delivery, and exclusive IFSEC offers.

■ 8. Four Seminar Theatres

Learn best practice, learn from worst-case case studies, discover future trends, and put your ques-

tions to industry thought leaders, across four seminar streams covering all 3 days of IFSEC International 2017.

Hot Topics

IT & Cyber Security

As all our systems and software become increasingly connected, the consequences of a cyber-attack become greater and greater. Discover how to protect your most valuable personal and business assets, and discover the latest innovations.

Access Control

Driven by rising concerns over public and private sector safety, the access control market is set to be worth a substantial \$8.6 billion by 2018. Whether you're a security, or IT manager, discover the latest products designed to protect your buildings at IFSEC 2017.

Integrated Security

At this purpose built area of IFSEC 2017, you'll see how systems are integrated so that each product doesn't work in isolation, providing you with a more efficient and effective solution. Meet manu-

facturers and distributors face to face, and see their products first hand.

Perimeter Security

With increased security threats from terrorism, the need to protect your business, property, and assets is of continued importance. Physical Perimeter Security products will feature as part of the Borders & Infrastructure Expo, a newly created IFSEC show for 2017.

Engineers of Tomorrow

Promote businesses young talent, aid their learning, showcase your organisation, and highlight your commitment to employee development. This year apprentices from Telcam, SES Alarms, and Banham triumphed in the heats – will it be you in 2017?

CONTACT

UBM EMEA London

Tel.: +44 20 7921 5000

www.ifsec.events



GIT SECURITY AWARD

The Finalists Are Chosen

After our jury chose the best of all the products in each category, it is now on you, dear readers, to vote for the top three products that will receive a GIT SECURITY AWARD 2018.

In the following we will display all the product finalists of each category:

- A – Safe Automation
- B – Fire and Explosion Protection, Industrial Safety
- C CCTV, Video security
- D Access Control, Intruder Alarm, Perimeter Protection
- E Safety and Security Management

In order to have fair voting, companies cannot vote for their own product. Moreover you will have to vote with your company address. Private persons are not entitled to vote and a business address is essential. Select one product in each category. You will find an overview of the finalist's products on the next page.

Vote now – voting is possible until August 31, 2017!

Voting is only possible on: www.security-award.com

There you will also find again all nominated finalists.



picture similar

Win the reader prize!

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



Jury A – Safe Automation and Jury C – CCTV, Video security: f. I. Steffen Ebert, Manfred Guegel, Regina Berg-Jauernig, Thomas Kunz, Dr. Heiko Baumgartner



Jury B – Fire and Explosion Protection, Industrial Safety: f. I. Steffen Ebert, Prof. Reinhard Ries, Lars Komrowski, Heiner Jerofsky, Dr. Heiko Baumgartner



Jury D – Access Control, Intruder Alarm, Perimeter Protection: f. I. Steffen Ebert, Joerg Crauser, Lars Komrowski, Heiner Jerofsky, Dr. Heiko Baumgartner



Jury E – Safety and Security Management: f. I. Steffen Ebert, Peter Krapp, Dr. Peter Schaefer, Dr. Heiko Baumgartner



Jury E – Safety and Security Management: f. I. Dr. Heiko Baumgartner, Bernd Sassmannshausen, Steffen Ebert

Why do you have to do a strange dance to try and open a door?



Instinctive technologies for a world without constraint



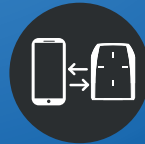
Card mode



Slide mode



Tap Tap mode



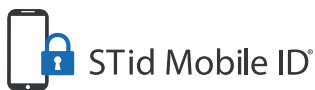
Remote mode



Hands free mode

Be STid, be smart

Intuitive solutions for mobile access control



www.stid.com



Category A:

Safe Automation

Balluff: Safety over IO-Link

Integrated Safety Solution via IO-Link

With Safety over IO-Link from Balluff machine and systems builders now have a cost-saving automation and safety solution in one system. The integrated safety concept builds on the proven standards IO-Link and Profisafe. Safety-relevant data are tunneled from Profisafe to the controller through a standard IO-Link master. Safety requirements up to PLe / SIL3 can be achieved. M12 standard cables are used to simply plug safety components from Balluff or safety devices from other manufacturers into the newly developed safety I/O module, the Balluff Safety Hub. Safety over IO-Link is simple to install and easy to integrate into existing systems.



Dold: UH 6900

Bidirectional Radio-Controlled Safety Module

The new radio-controlled safety module UH 6900 of the Safemaster W series for the safety-oriented, bidirectional transmission of e-stop and control functions offers more flexibility in safeguarding hazardous areas. By implementing the latest radio technologies a high degree of availability and safety is achieved. Two safety zones can be connected wirelessly to each other over a considerable distance. The TÜV-certified system for safety applications reaching up to PL e/Cat. 4 or SIL 3 is characterized by its large range of up to 800 m. Fields of applications for example are extensive facilities in the intralogistics sector and mobile applications, such as fully automatic internal transport vehicles and driverless transport systems.



Georg Schlegel: QRBDUV

Emergency Stop

The active illuminated emergency-stop QRBDUV with diagnostic unit and anti-lock collar enhances safety at work in producing enterprises. According to the previous valid standard DIN EN ISO 13850 an inactive fix mounted emergency-stop had to be covered in order to prevent any possibility of confusion in case of emergency. In practice however, this

was not always easily feasible so that inactive and not covered emergency-stops possibly could cause accidents. This standard has been extended and allows the use of active illuminated emergency-stops as alternative. In case the modular plant part is connected to the overall system, the active status of the emergency-stop is signaled by illumination. If there is no connection the actuator is not illuminated, thus transparent and so it informs on the inactivity of the actuator.



Keyence: SZV

Safety Laser Scanner

The SZ-V Safety Laser Scanner has a protection range of 8.4 meters. The integrated camera further simplifies installation and can even capture images and videos when an object or person enters the protected area. The SZ-V also has a detachable display unit that provides real-time feedback, protection zone information and even access to historical data, all without interrupting the scanners operation. Additional features include a system memory plug, network compatibility such as EtherNet/IP, and the ability to receive encoder inputs. Cascading with up to three units is also possible with the SZ-V, greatly reducing and simplifying the necessary wiring.



SSP: Safety Simplifier

Wireless Safety

The Safety Simplifier makes it much easier to make user friendly safety systems. This you achieve by utilising wireless safety techniques, plug and play, and a safety service. The Simplifier allows safety possibilities to where they are locally required, for example at door entrances where you make the choice for a safety solution, the push buttons you need and troubleshooting information. Machine stop functions can be connected wirelessly through other Safety Simplifiers or direct to an existing safety system. The Safety Simplifier is the first new product resulting from the co-operation between SSP North AB and SSP GmbH with Mats Linger (former Jokab Safety CEO) and Johann Aulila (CEO from SSP).



Schmersal Group: SLB
Safety Light Barriers

The SLB 240/440 series safety light barriers are extremely small and have built-in analysis. They are simple and quick to install, even in confined spaces. SLB are ideal for safeguarding hazardous areas with small openings, e.g.



loading machines for printed circuit boards. They have safe semiconductor outputs (2 x PNP) and can be included directly into the safety circuit, even without external safety evaluation. They can also be used for process protection. In high-shelf warehouses, they allow object recognition and height recording, for example. In the autonomous transport of packaged products, they can detect deviations from pre-defined positions and prevent damage. All SLB versions have a visual set-up guide which makes commissioning significantly easier. The SLB models have 4-way coding which allows up to four sensor plates in one direction to be operated on one application without affecting one another. Configuration does not require tools such as PCs or commissioning systems, it simply uses a command device (button). Set-up, automatic and restart modes and a diagnostics mode are available.

Pilz: PROBms

Force and Pressure Measurement System for Human Robot Collaboration (HRC)

With the new rental-based force and pressure measurement system PROBms Pilz now offers a complete package for validation of human-robot collaborations (HRC) in accordance with ISO/TS 15066. So the limit values for force or pressure of the robot movement, as specified by the ISO/TS, can now be measured precisely and therefore validated using PROBms. User software and product training complete the overall package. The worldwide rental concept guarantees that users always have an up-to-date measurement system at their disposal. PROBms is suitable for all HRC applications in which humans and robots share a workspace, in accordance with ISO/TS 15066. These include pick and place applications in the automotive and electronics industry, for example. The force and pressure measurement system PROBms is available from Pilz worldwide on a rental basis. The rental concept includes maintenance, calibration and regular updates, so that users always have access to a fully functional, state-of-the-art measurement system. The new measurements that are needed when an HRC process is changed can be carried out independently at any time. That increases the availability of robot applications, as well as the productivity of such applications.



**IFSEC
International**

20-22 June 2017
EXCEL LONDON UK
Stand: South Hall
G600

They just see an airport.

You see reliable safety and security innovations for a world on the move.

Bosch empowers you to build a safer and more secure world. With an integrated portfolio designed to protect people and assets, no matter where they are, or where they go to.

Find out more at boschsecurity.com



Category B:

Fire And Explosion Protection, Industrial Safety

Asecos: V-MOVE-90 Safety Storage Cabinet

The V-Move is the only safety storage cabinet for hazardous substances with innovative vertical drawer technology. The vertical drawer is easy to open and close at the push of a button. The double-sided access offers to overlook and reach stored containers conveniently at any time. Furthermore, the depth of 86 cm uses the previously unused space behind the only 60 cm deep conventional safety storage cabinets. The width of only 45 cm saves space for a maximum coherent work surface. The V-Move, in accordance with DIN EN 14470-1, has a 90 minutes fire resistance, an anti-trap protection, an automatic closing system after 60 seconds and a battery puffer in the event of a power breakdown.



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Honeywell Industrial Safety: ChemPro Plus User-friendly Protective Glove Programme

ChemPro Plus is a user-friendly protective glove software that provides an excellent tool for finding the correct hand protection. It comprises over 15,000 chemicals and mixtures and provides all product data and information for proper hand protection. In order to address all risks and select the right protective gloves, ChemPro Plus offers a number of different selection criteria. ChemPro Plus is available offline at any time. Customers who work with Honeywell to develop tailored protective glove plans can use the ChemPro Plus tool to manage these plans. Chem Pro Plus can be downloaded for free and lists only Honeywell products.



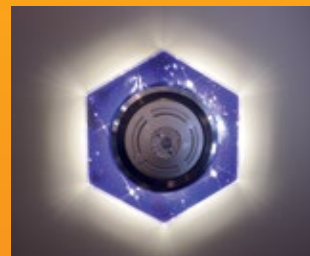
Fuji N2telligence : QuattroGeneration Fuel Cell System For Preventive Fire Protection

QuattroGeneration is a fuel cell system with four-fold usage. It uses low-oxygen air from the fuel cell for the purposes of preventive fire protection. This results from efficient energy conversion of natural gas to electricity, heat and cooling air. The controlled and permanent reduction of oxygen content is the safest form of fire protection. Where there is no oxygen, there is no fire. QuattroGeneration uses the nitrogen-rich air from the fuel cell produced during the energy conversion. In this way, we reduce the oxygen concentration in the air and take away the basis for fires to develop. This leads to a long-lasting protective atmosphere where fires are unable to start.



Novar a Honeywell Company: Fire Detector Integrated Fire Detector and Design Luminaire

A fire detector as multifunctional all-rounder integrated into a design luminaire fulfills the challenging aesthetic requirements of architects. The development of a patented, VdS-compliant combined fire detector and LED luminaire meets legal regulations for the installation of fire detectors and other depending ceiling-mounted devices. The new luminaire has been developed to cover the various requirements of customers in terms of an aesthetic device, using both modern materials as well as energy and resource efficient LED technology. From the very basic need to illuminate passageways up to the highest standards with regard to quality and aesthetic design.



Prymos: Prymos Combined Fire Protection Fire extinguishing spray and PM10 DIN EN 3 fire extinguisher

When a fire starts, every second counts. That is why this fire extinguishing spray, always at hand and intuitive to use, as well as providing distribution across a wide area, is a good alternative to the conventional fire extinguishers that weigh in at up to 20 kg. As a backup, especially for use by trained firefighters, it is also wise to have a larger fire extinguisher at the ready. That is why Prymos, in addition to its fire extinguishing spray, also offers fire extinguishers made from non-corrosive composite materials such as Kevlar and HDPE, including gas and vapour barriers. The advantage? These Prymos PM10 extinguishers manage for ten years without maintenance, making them a significant cost-saver. Prymos Combined Fire Protection meets the requirements of ASR A2.2 (technical regulations for workplaces) and of the new German Operational Safety Ordinance, which means that it complies with the essential standards and regulations in all its professionally designed variants.



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Socomec: Arc Detection System RESYS AFD Arc Extinguishing in Photovoltaic Systems

In last years, the number of photovoltaic systems installed worldwide has increased. The safety and quality standards have been further developed and today offer a high degree of safety and reliability. In this context, potential weaknesses in the system are analyzed. A current topic in this context is the short circuit in photovoltaic systems. In DC circuits the arc is stable due to the lack of periodic zero crossing. Appropriate measures must be taken for plant and personal protection. An arc detection system with a DC shut-off element is favored as a solution approach.

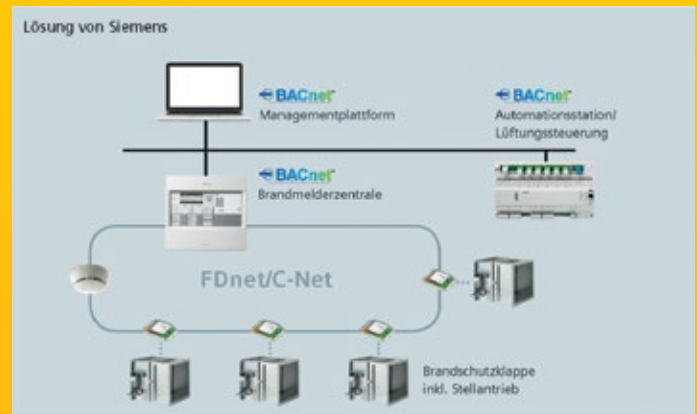


The idea of the arc detector between the inverter and the solar panels in the DC circuit is based on the fact that the occurrence of a short circuit results in significant changes in the frequency response of the current, which are analyzed

and detected by electronic evaluation logic. This gives then an instruction to the upstream protective element, e.g. DC load break switch with electronic tripping function, which then switches off the PV system and thus clears the arc. With the RESYS AFD arc detection system and the DC load breaker series up to 1500V DC and 1250A DC INOSYS LBS Socomec offers a corresponding solution portfolio (also UL-certified).

Siemens Switzerland: FC360 Addressable 1-loop Fire Control Panel

Cerberus FIT FC360 from Siemens is an addressable 1-loop fire control to which up to 126 detectors and other peripherals can be connected. The FC360 fire control panel provides 4 programmable inputs/outputs and optional output card with 4 additional monitored outputs. What makes the FC360 unique is an integrated configuration tool which makes commissioning faster and easier without requiring additional software. In addition, an offline Desktop Editor is available to view site configuration and amend as necessary. On top of this, the tool provides installers with self-learning opportunities by creating a virtual setup. This quickly builds solid expertise and reduces training cost and effort. The FC360 is built according to the newest standards and certified through LPCB (Loss Prevention Certification Board) for EN54-2 & 4 plus EN54-13.



Siemens Building Technologies: Integrated Fire Dampers Integrated Fire Dampers

A fire panel bearing a new functionality may now replace a fire damper control panel: control modules integrated in the field bus of the fire system allow control and test runs of fire dampers. This technical solution also works properly in case of line break or short circuit and is EN 54-approved. Reduction of line network does not only save costs but also decreases fire load of a building – the more lines the higher the fire load. On the other hand you gain more flexibility: as lines of the fire system are usually all over the building supplementary installed fire dampers may be integrated and controlled very easily. Using the new functionality of the fire control panel the interface between the fire detection system and the operation of fire dampers is omitted. Both subsections are operated by the same control panel and share the same cable network in order to operate the peripheral devices. Additionally the reduction of lines contributes to the decrease of fire load.



Wagner: Titanus Rack-Sens Air Sampling Smoke Detector for Server and Control Cabinets

Titanus Rack-Sens is Wagner's air sampling smoke detector for monitoring 19" equipment such as server and control cabinets. The fire detection unit can also be expanded to include fire suppression using either integrated or externally attached extinguishing gas cylinders. The integrated extinguishing provides maximum protection. Ten air sampling points provide cost-effective, false alarm-proof monitoring of up to five server cabinets. This special fire detector is available in two different installation heights (one or two U), and using either Novec™ or nitrogen as its extinguishing gas.

Category C:

Video Security

Avigilon: Appearance Search Technology

Video Analytics Technology

As Avigilon's newest and most advanced video analytics technology, Avigilon Appearance Search technology is a sophisticated deep learning artificial intelligence search engine that sorts through hours of footage with ease, allowing users to quickly locate a specific person of interest or vehicle across all cameras on an entire site. Avigilon Appearance Search technology is designed to address the problem of big amounts of data by making real time event response possible. Users can search for all instances of a specific person of interest or vehicle across all



cameras on an entire site, with the click of button. It allows users to easily search all known locations of a specific person and track their route. This can dramatically improve incident response time and enhance forensic investigations by allowing operators to build robust video evidence and create a powerful narrative of events. The Technology is designed to make searching for a person as easy as searching the internet.

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Axis: Axis P1368-E

4K Network Camera

The Axis P1368-E Network Camera offers 4K Ultra HD resolution at 25/30 fps. The camera is suitable for all weather conditions and offers IK10-, IP66- and NEMA 4X-ratings at temperature range -40 °C to 55 °C. Equipped with i-CS lens, the camera enables remote zoom and focus and supports standard CS-mount lenses. In complex lighting the WDR -Forensic Capture together with Lightfinder will discover all details. The use of interchangeable lenses comes in handy. Instead of installing an indoor camera in an outdoor housing, the camera was built modular. The image sensor is mounted on a guide rail and can be moved very far backwards in the housing to provide enough space for longer CS mount lenses. In combination with the i-CS technology, compatible lenses can be controlled completely via remote control. The processor of the camera is located near the base plate, which means a significant advantage for temperature management.



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Bosch: MIC IP fusion 9000i

Optical and Thermal Camera

MIC IP fusion 9000i moving cameras are designed to perform in practically any environment. These cameras have an optical and thermal imager in one rugged housing, combined with Intelligent Video Analytics. Their unique metadata fusion feature fuses metadata of the optical and thermal imager. If an alarm is detected, but not necessarily visible in the video stream being watched, an alarm is triggered anyway. The solid metal bodies of the MIC IP fusion 9000i can withstand severe weather conditions.



That includes high winds, rain, fog, dust and 100% humidity (NEMA 6P and IP68), temperatures from -40 to +65 °C, extreme vibrations (IEC60068) and high impacts (IK10). The superior metallurgy and finish of these MIC IP cameras provide unprecedented protection against corrosion (ISO 12944 C5M). Built-in starlight technology ensures highly detailed color images in extreme low-light situations. Additionally, MIC IP fusion 9000i cameras offer Intelligent Dynamic Noise Reduction and intelligent streaming, combined with H.265 video compression. This can reduce bitrate by up to 80%.



ComNet: CTS24+2[POE][HO]

Modular Ethernet Switch with 24 Ports

The CTS24+2[POE][HO] is a flexible L2 managed commercial grade Switch providing 24 ports of 10/100Mb Ethernet using 7 different 8 port modules. These are available as Standard Ethernet with or without PoE+, SFP Slots for direct fiber connection and Extended Ethernet Coax or CAT5 with or without PoE (up to 30W). Two additional combo ports are for 10/100/1000TX or 1000FX SFP Slot. Customers can select one of the 3 Chassis with either no PoE or PoE options of 400 W or 1000 W. Programming can be done either via Web-page or USB port. Further software features are VLAN support, STP/RSTP, PoE management, CopperLine rate management and IGMP snooping. The switch has a Switching fabric of 8.8 Gbps and comes with a 5 Year Warranty.

Eneo: IPB-73M2812MWA

3MP Network Camera

The 3 MP network camera from the eneo Candid series has an integrated WiFi interface for fast and easy initial configuration with optional WiFi dongle. The push-focus function allows for comfortable adjustment of the motorized lens, (variable focal length: 2.8 to 12 mm). In addition, the network camera provides a secure, cross-browser user interface in responsive design. Smart IR technology automatically adjusts the illuminance of the integrated IR LEDs to the ambient conditions. Onvif mapping can be used to define any events (such as manipulated alarms) as Onvif alarms so they can also be processed by VMS or NVRs that only detect Onvif motion alarms. The eneo WiFi interface allows convenient configuration of eneo IP cameras via laptop, tablet or smartphone.

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DuraVision FDF4627W-IP

Eizo: DuraVision FDF4627W-IP
 IP Decoder Monitor

The IP decoding monitor allows connecting to security and surveillance cameras without a computer. It carries out control records for Axis (Vapix) and Panasonic IP cameras in keeping with the ONVIF standard. Layout and camera options can be adjusted using the included remote control or via the user-friendly web UI. The monitor features a Web API that supports integration with the local VMS. The system offers high flexibility and runs high-performance IP decoding technology and multi camera connection up to 16 streams on a 46inch screen without need for a computer or a decoder box.

Flir: FC-SERIES ID
 Thermal Cameras With Intrusion Detection

The FC-Series ID combines built-in analytics for high performance intrusion detection, industry-leading image quality designed for high-end commercial users, and an expanded selection of high-performance lenses. The camera features easy to create custom trip wires and regions of interest. It's also capable of determining human or vehicle intrusions, without human intervention, to reduce the number of false alarms. The FC-Series ID delivers superior image quality in low-contrast conditions. It sees clearly in complete darkness, without any illumination, in bright sunlight, through smoke, dust or even light fog. As a result, the FC-Series ID provides around-the-clock intrusion protection regardless of lighting and environmental conditions. The FC-Series ID of thermal security cameras introduces built-in analytics to reduce false alarms. Intelligent analytics and new lenses help commercial security users distinguish between human or vehicle intrusion from other benign events.



CLEAR SIGHT COATING WEATHERPROOF YOUR VIEW

Panasonic's hydrophilic coating prevents water droplets from covering the camera dome ensuring your view remains clear and your analytics are accurate, no matter the weather.

Panasonic
 BUSINESS

We're pleased to announce that the WV-X6531N camera is a finalist for the GIT Security Awards 2018.

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Hanwha Techwin Europe: PNP-9200RH 4K PTZ Camera

The 4K-IP-PTZ-Domecamera PNP-9200RH, with integrated IR-Illumination offers 30 Frames/s at 8MP resolution is combined with 20x optical zoom in a IP66-/IK10-conform housing with IR-range up to 200 m. Bandwidth efficiency is improved by up to 75% compared to current H.264 technology when WiseStream is combined with H.265 compression to ensure most bandwidth friendly transmission and recording. Integrated analytics, 120dB WDR, Hand-over and auto tracking provides best support for all security applications. Dynamic privacy masking, SD-recording and Open-Platform third-party Software upload to run additional applications on the edge to meet individual customer requirements. Wisestream controls the GOV length automatically depending on movement in the scenario. With less or no movement in the scene the distance between key frames will be increased to save bandwidth.



Panasonic: WV-X6531N Weatherproof PTZ Camera

The weather proof PTZ dome network camera delivers extreme image quality for evidence capturing under challenging conditions, extreme H.265 compression with new Smart Coding and a built-in Vehicle Incident Detection. It detects incidents like wrong-way or stopped vehicles and sends an alarm to the Video Management System and/or Traffic Management System for immediate response. The image stabilizer increases visibility even under blurry conditions especially designed for pole mounts on roadways. 40x zoom lens allows long-distance vision. Intelligent Auto (iA) monitors scene dynamics to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. The self-learning Region-of-Interest encoding (Auto VIQS) dynamically detects motion areas to keep vehicles and human in good picture quality while lowering bandwidth.



Hikvision: iDS-2DF8225IH-A Dual-Sensor Camera

The new Hikvision iDS-2DF8225IH-A camera combines Dual-Sensor Imaging and Bi-Spectral Fusion technology. The camera has 1920*1080P HD output, and IR range of up to 200m and supports the new H.265+ codec. One IR imaging sensor guarantees image brightness, and another visible light sensor guarantees vivid colour. The combination of the two makes one full colour image. This ultra-low light technology is based on the retina imaging human eyes use that process the colour and brightness, and provide full colour images in the ultra-low light environment.



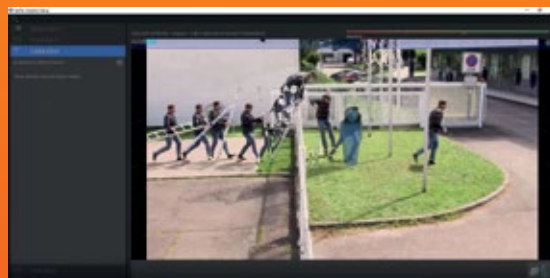
Promise Technology: Auryn High-Capacity Surveillance Storage

Auryn is ideal for deployments requiring a large centralized storage solution for surveillance data as it offers simple plug and play deployment and provides up to 112 drives and 672TB of capacity. Auryn creates a centralized storage pool that can be easily managed for your deployment of a few to thousands of cameras. Since Auryn is an open platform storage solution, it can be used together with a wide range of VMS and cameras from different vendors and it is also analytics ready. Auryn is a purpose-built solution for the 24/7 video surveillance environment. It's not pieced together hardware designed for IT applications. Auryn comes equipped with a range of features designed specifically to deliver the best performance in video surveillance environments: Opas is a fast hardware diagnostic mechanism to keep surveillance systems up and running. PerfectRebuild delivers fast recovery from hard drive failures for continuous surveillance video recording and playback. The Online LUN clone is a preventive disaster recovery mechanism for video surveillance. It saves two copies of surveillance video, so if one is damaged the video is still safe somewhere else.



SeeTec: Analytics Server 3D Server-based Video Analytics

The server-based video analysis SeeTec Analytics Server 3D is based on predefined alarm scenarios and intelligent filters - and thus gets the maximum from the video data. Analysis scenarios: unauthorized intrusion, zone crossing, loitering and conditional intrusion in a certain order. Through the filter functions even stubborn disturbing factors (like shadows or changing weather conditions) are detected and eliminated. A distinctive feature is the simple self-learning calibration. Few snapshots of a video sequence in which a person moves through the scene suffice to capture the entire detection area three-dimensionally. SeeTec Analytics Server 3D provides an intuitive, easy and reliable handling right from the first click. For example, project planning using the Camera Placement Tool gets much easier.



Category D:

Access Control, Intruder Alarm, Perimeter Protection

Abus Security-Center: wAppLoxx Eye Management App for Access and Video

wAppLoxx Eye is the fusion of access control and video surveillance. This gives the user full control over the access via web, app and video. Per one wAppLoxx Control (central control unit of the wAppLoxx access control system), up to 6 IP cameras can be integrated, which respond to specific events according to the user's request. wAppLoxx Eye offers many advantages by linking two security technologies. There is, for example, a recording function which can be used for checking on access, or also if someone wants to gain access with an unauthorized locking medium. In addition, it is also possible to obtain a live image. This could be very useful in conjunction with remote access, such as parcel services. The cylinders are connected to the respective camera and the events are defined via the administrator area. The app communicates safely with the control via P2P and via the ABUS server with the IP Cam.



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Assa Abloy: Cliq Go Mechatronic Access Control

Cliq Go extends the Cliq mechatronic locking and access control ecosystem to enable easy, secure cloud management from a smartphone. Managers can administer their Cliq Go system from a phone, tablet or PC, using the intuitive Cliq Go app. A few taps on the screen is all it takes to issue or revoke a key's permissions, or to instantly revoke and replace a lost key and update a cylinder at the door. The app allows administrators to amend any individual access rights or schedule time-limited access on the move, and to reprogram a Cliq key. There's no need for software installation or maintenance at the client end. Customers manage their entire system in the cloud with the user-friendly Cliq Go app. Just one coding for all systems enables Locksmiths to keep keys and cylinders in stock, and to program and configure on demand using the Cliq Express software. It is perfect for installers and resellers who want to offer quicker, more efficient services to their small and medium-sized clients.



Automatic Systems: ParkPlus ANPR Barrier

ParkPlus barriers of Automatic Systems are available in an Automatic Number Plate Recognition (ANPR) version. The complete solution allows ticketless parking, which is very user-friendly: The customer does not have to open the window in order to receive a ticket from the control element or to give it back. In private or company parking areas the number plate can be deposited in the system. Therefore, no unknown vehicle is granted access. The sensors are integrated in the barrier housing. In this way, an installation of a separate pillar for the camera and its wiring is not necessary. Due to the integration, preceding vehicles cannot conceal the number plate, but it can be detected immediately. Thus, a fast and contactless passage is possible. Another advantage is that all commercially available number plate recognition cameras can be integrated within the barrier system.



CES: Omega Flex ILS Electronic Security-Handles

Omega Flex ILS Electronic Security-Handle-Sets offer high mechanical protection against burglary and an intelligent electronic controller using both Mifare Desfire and Legic advant locking media for the best possible copy protection of the electronic keys. With stainless steel as the main material and a timeless design, the handle sets will perfectly fit in every building. Weather resistance and fire resistance up to 120 minutes allow unrestricted use on exterior and interior doors. The flexible programming concept makes it possible to integrate the handle set from family homes to large-scale projects with online programming over a radio network.



Dormakaba: exivo
Internet-based Access Solution

The system exivo is a flexible, internet-based access solution for small- and medium-sized businesses and those in trade and industry that are looking for a managed solution and want to simplify their IT set-up. With exivo, it is easy to plan, configure, order, install and operate an access system. Using the system, you can define easily and quickly who is permitted to open which doors or not. Access rights can be dynamically assigned and revoked by any internet device.

Doors are secured and monitored using online, wireless or mechanical locking components. Companies using the service will not require any IT server structure or software on site. The unique solution is entirely web-based and runs on a central exivo platform. The desired functionalities are all provided in the form of software as a service. New functions and updates are automatically sent via

the exivo platform, meaning the system is always kept up-to-date. The central management of the exivo platform on secure and protected servers guarantees the highest level of security. Since exivo is operated via a web browser, system managers can access the system from anywhere via smartphone, tablet or PC.



HGH Infrared Systems:
Spynel-M, Thermal Radar for Intrusion Detection
Infrared Panoramic Radar

Spynel-M is a new compact and cost-effective panoramic infrared camera. Continuously capturing full 360-degree infrared images every second, it provides real-time security against conventional and asymmetrical threats including hardly detectable targets such as UAVs, RHIBs, or crawling men. One single Spynel-M sensor is able to perform 24/7 early human intrusion alerts over a 1.5 km-diameter area and can replace up to 16 traditional cameras over 360 degrees. The performance and cost ratio of Spynel-M has been especially designed to meet the security needs of critical infrastructures such as solar and wind farms, prisons, water treatment facilities, power plants and sub-stations, oil depots, airports, ports, large storage areas. It is a fully passive system, totally undetectable unlike radar.



Dom: ix TwinStar
Reversible Key System

The new reversible key system ix TwinStar is especially well protected against unauthorized copying by a floating double-role in the key. Because of a complex system – 11 spring-mounted tumblers, 10 pin tumblers and 1 locking bar- it is suitable for homes as well as large objects with high safety standards. In addition, the convenient „2 in 1“ version for registered cylinders (from quarter 3/2017) offers the possibility of deactivating the key set by transcoding the cylinder in case of key loss. The System offers high protection against manipulation by 23 lock authorisation requests per key.



Institut-Neuscheler: ArgosTronic
Car Theft Protection System

ArgosTronic is a car theft protection system based on RFID and videotechnology for outdoor car companies. ArgosTronic is equipped with a highly sensitive sensor system and an integrated Battery which is placed in the cigarette lighter of the car via plug and play. The system communicates with the Outdoor Reception Center and is easy to install. ArgosTronic recognizes the jacking, moving of the car, the slamming of a disc and the improper opening of doors. It triggers an alarm and sends it to our VdS certified security service, which connects itself via the Internet to the system, detects the alarm and responds through an audio system to live perpetrators, as well as interventionists on site.



PCS Systemtechnik: Intus ACM80e
Access Control Manager

When developing the Intus ACM80e Access Control Manager for up to 16 doors, PCS Systemtechnik placed particular emphasis on increasing environmental performance. PCS Systemtechnik designed the INTUS ACM80e for minimized environmental impact by utilizing all the latest technological options, from the device's housing to its electronics, while keeping the price for the new Access Control Manager at the same level as before. Power consumption was reduced by 65 percent compared to the previous model, while the rack version's heat loss was brought down from 155 BTU/hour to 99 BTU/hour. The rack version has a housing made from aluminum. Combined with new electronics, this saved half the weight and not only reduces shipping costs, but also CO₂ emissions during transport. The reader and door opener voltage can be switched from 12V to 24V. Four digital inputs and four digital outputs are additionally provided for system tasks.



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SimonsVoss: MobileKey

Keyless Access Control

With its recently developed product line MobileKey, SimonsVoss is offering the smart yet innovative access to the keyless world – on highest possible security level and at a reasonable price level with full transparency and cost control. MobileKey's clearly defined product range is targeting SME as well as residential customers up to 20 locking devices and 100 users. How does it work? In fact it is only few steps to keyless with MobileKey: Easy installation of cylinder and wireless Pin Code keypad, self-explanatory handling, tracking and maintenance via a free of charge Web-Application. The online extension allows remote opening, Key-4Friends, wireless Door Monitoring functionality and additional alarm features.



Uhlmann & Zacher: CX6174

Electronic Door Fitting With Short Plate



The new electronic door fitting with short plate CX6174 extends the range of door fittings of Uhlmann & Zacher. It convinces with its elegant and sturdy stainless steel design, which allows it to discreetly adapt to the architecture of existing and new buildings. The combination with functional and appealing handle shapes allows an additional level of customisation. The fitting can be installed in fire and smoke resistant doors as well as emergency exits (DIN EN 179). The hole layout corresponds to the standard holes for short plate fittings and can be installed without additional holes in existing doors of this type. The door fitting with short plate can be flexibly programmed and made available for all types of standard transponders.

Sued-Metall Beschläge: ÜLock-B Inductive

Inductive Locking System



With inductive energy transfer between the lock and the strike plate, battery replacement and wiring are a thing of the past. And without the need for a battery, the lock contributes to environmental protection. In addition, ÜLock-B Inductive does not limit

a door in its design, since any standard fitting can be combined with it. Existing electronic lock systems can be connected, making it ideal for new and existing objects. ÜLock-B Inductive is compatible with its versatile control systems (fingerscan, RFID, keyboard, hand-held transmitter) that communicate with an AES 128 encrypted wireless device. The lock has a panic function and is self-locking, thus offering permanent anti-burglary protection.

Vanderbilt International: SPC Connect

Cloud Service Tool

SPC Connect is a cloud service that can be used by installers or end system users to securely access their systems. The SPC panel and Connect can communicate using FlexC. This is a powerful protocol and can be used to support multiple paths such as IP, GRPS and 3G. This can ensure the system is always connected. The FlexC system makes use of the latest state-of-the-art security measures to ensure that the security of the system is not compromised. The Connect server itself can communicate with thousands of SPC systems and can instantly inform a customer if a fault occurs or action is required. Connect has been designed for both installer and end system user. Installation company customers who are Connect enabled can offer their customers instant support, the ability to change any element of the system remotely, as well as change auto arm times. Connect enabled customers also have the comfort that SPC Connect is powered by FlexC, the AES 256-bit encrypted protocol built into all SPC panels. Each SPC panel can automatically connect to the cloud and, through a secure registration process. Users can immediately see all the SPC panels in one single app.



Tyco Security Products: istar Ultra Video

Security System for Access Control and Video



istar Ultra Video is an integrated security solution at the edge. With the ability to fit into your hand, istar Ultra Video combines the robust access control features of istar Ultra with embedded video recording – and analytics in a small appliance. This appliance offers highly distributed, small site security to meet the security needs of small remote facilities without sacrificing enterprise scalability. istar Ultra Video is remotely managed and monitored by Ccure 9000 Security and Event Management software and provides a highly secure approach to security at the smallest sites. istar Ultra Video supports up to 8 readers and 8 IP cameras in one small device. With scalability to thousands of sites, istar Ultra is the ideal solution for key critical infrastructure sectors whose assets, systems, and networks, whether physical or virtual, are considered so vital that their incapacitation or destruction would have a debilitating effect on security, national economic security, national public health or safety, or any combination thereof. Up to 500,000 cardholders can be managed in the device's local memory.

Category E:

Safety And Security Management

Asa Abloy: Close Motion Technology for Door Closers

Close-Motion is a new door closer technology that guarantees that doors close quickly and virtually silently. In hotels, offices, schools or hospitals, doors fitted with door closers often cause disruptive closing noises. It was developed for doors where the closing function is essential due to their function, e.g. smoke protection and fire doors. Close-Motion is integrated in the door closer housing and guarantees optimal damping when the door closes. The door is also pulled closed securely, including against the seal pressure. On many doors, the setting for secure closing is often so forceful that the door causes high levels of noise when closing. To solve this problem and to combine closing comfort with increased sealing or noise protection requirements, additional components were required in the past. Close-Motion integrates the function in the door closer housing which means that it can be coordinated between the door closer and closing function. The integration of the elements and the associated system check enable versatile use, including on mandated doors.



Deister Electronic: smartCabinet Smart Tool Management

Where are the tools? Who's got that device? When does it need service? Deister Electronic's smartCabinet has got the answers. The cabinet also keeps record about age and usage of its content. Access to the cabinets is controlled and granted using an authorized transponder. The software is documenting all activities such as taking and returning of devices and is giving information about the person that took them. This way, tools and medicines can be managed automatically and transparently. The system provides information once the stock is low or needs replacement. The cabinet is made for quick access so that interactions only take a few seconds, working 24/7. Taking and returning of items is seamlessly doable in less than 5 seconds – without any training or guidance. The system is automatically keeping records of interactions and is storing log files.



Coredate: Coredate Online Guard Control System

Coredate is an assistance system for every security service. The security guard can document visits, incidents, tasks and key transfers on site in real-time, because of the smartphone app. Therefore the app provides a workplace protection, which sends an alarm with GPS data in case of emergency and builds up a voice connection. The operational control gets a live overview of all active employees and their activities. Incidents and alarms are also transmitted in real-time so employees can react quickly. Evaluations and reports are automatically generated and sent to the client after the tour. Transparency and customer loyalty increase because of an additional client access.



Dom: Tapkey Virtual Key Ring App

Tapkey is a cloud-based app that works like a virtual key ring. In combination with the digital cylinders and fittings from DOM, a digital access control system can be created in just a few minutes: Mounting the DOM Tapkey cylinder/fitting or similar into the door, downloading the Tapkey app from the Google or Apple Store and activating the account, connecting the account with the DOM Tapkey cylinder/fitting or similar. After that, all access rights can be organized from a smartphone.



Gehrke: NeuroKom IP Serverless Intercom System

NeuroKom IP from the Intercom Series DS/WS 900 is a modular intercom system that is easy to configure and expand. It can easily be extended from 2 to 9000 units. NeuroKom IP operates with its own real-time operating system. This makes the applications extremely secure and reliable. As NeuroKom IP has no server, "single point of failure" is eliminated. Compared to a centrally organized solution, it works very cost-effective. All current network protocols are usable, so the system can be configured independently.



Morse Watchmans: KeyWatcher Touch
Key Management System

Morse Watchmans' KeyWatcher Touch is a scalable key control and management solution with easy to use, time-saving features. KeyAnywhere enables return of a key to any KeyWatcher in the enterprise; KeyFind lets the user locate which KeyWatcher a specific key is in, or determine who has it out; My Keys Out allows users to see which keys they have out, if any of their keys are overdue and when their keys will become overdue. With the new "Key Filter" feature, users who have access to a large number of keys can input text and have the KWTouch narrow down the list of keys presented to the user. The list shown to the user will only show keys that contain what was typed into the filter. KeyWatcher Touch is now integrated with Amag Technology's Symmetry V8.0.2 Access Control System. The integration allows users to provide access to KeyWatcher Touch assets to card holders from within the Symmetry system.



Geze: Geze Cockpit
Building Automation System

True Smart buildings are complete, safe and efficient only when windows and doors are included. With Geze Cockpit, all automated Geze products from the areas of door, window and safety technology and from associated products can be controlled and monitored precisely from a distance. Three software packages are available: Geze Cockpit Basic allows the integration in a higher-ranking building management system. The system can be used for independent building automation with Geze Cockpit Visu and Visu+. The networked products are visualised, each of their status can be recognised and changed at any time independent of the place. A monitoring of all products can be ensured without visual inspection, e.g. through an email notification service. Through the use of open standard BACnet, Geze Cockpit offers a significantly better network base, ensures a networking across product categories and is therefore extremely compatible in the market. Contrary to the proprietary systems, an approach independent from the manufacturer is feasible any time.



Genetec: Mission Control
Decision Support System

Mission Control is a Decision Support System that provides organizations with new levels of situational intelligence, visualization, and complete incident management capabilities. It allows security personnel to make the right decision when faced with both major threats and routine tasks, such as guiding security and maintenance teams when dealing with operational and maintenance issues. Mission Control empowers organizations to manage the entire lifecycle of an incident, from data consumption (sensor and security device event and alarm monitoring) through to incident resolution, reporting and auditing. While other systems let operators react to presented situations, this approach provides operators with an incomplete picture of the operational environment and leaves organizations exposed. Mission Control allows for greater situational intelligence by using a platform that properly assesses situations, qualifies a variety of incoming sensor data, and translates that data into incidents that expose the true nature of a situation or a threat. Instead of simply sending alarms, the product guides operators through the entire lifecycle of an incident, from trigger to resolution.



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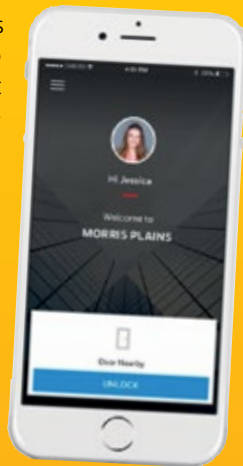
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Honeywell Building Solutions: Vector Occupant App Building Management App

The Honeywell Vector Occupant App connects building occupants to their workplaces to promote safety and productivity and optimize the occupant experience. Smartphones can be used to unlock access controlled doors, to raise requests to indicate discomfort with temperature in workspaces, and to use photo ID in digital format. The Honeywell Vector Occupant App is supported by a cloud-based infrastructure and a rich collection of analytics to help increase efficiency and cost effectiveness of building operations. It is available for iOS and Android devices.



Siemens Building Technologies: Siveillance Viewpoint PSIM

Siveillance Viewpoint is a Physical security information management system, that is able to combine information intelligently. For the first time danger management is combined with process oriented incident handling of a command and control system – without system break. Based on security policies of a company, workflows are configured in the system, which can dynamically be adjusted dependent on all available information and the current threat level. This enables the operator to take fast decisions, even without knowledge of the individual disciplines.



SecuriX: SecuriX Guard Tour Patrol System

SecuriX is a guard tour patrol system that allows security companies digitize their alarm response process, mobile patrol and reception services. In a back-office system they manage all data on objects, customers and contracts. In addition they can easily offer their customers reports and invoices, if preferred completely automated. Security officers use a smartphone on which they record findings and thanks to the unique interface with Alarm Receiving Centres they digitally receive alarms and respond to them efficiently. In the customer portal customers have easy insight into planned tasks and carried out activities. Where other solutions only support a part of the process, SecuriX supports all processes of security companies; from scheduling duties to the reporting from security officers on location and the reporting and billing to customers. Alarms are sent digitally to the SecuriX software, which determines, based on factors such as type of alarm and GPS location, which security officer can best respond to the alarm. The officer receives the notification on his/her smartphone and in a blink they have access to all the instructions needed to follow up the alarm message. The officer then registers his findings digitally. The report is sent to the ARC and findings can be seen directly in the back-office system.



Tyco Security Products: Complete Security Solution Management Software for Video, Access and Anti-Burglar

Comprised of exacqVision video, DSC PowerSeries Neo intrusion and Kantech EntraPass access control, the Complete Security Solution is a pre-integrated solution that provides all-in-one, comprehensive security covering intrusion security, access control, and video surveillance for any size multi-residential, commercial or public site. These deep, native integrations of video surveillance, intrusion, and access control provide small to mid-sized business customers with a holistic analysis and intuitive control of their security data and information and allow dealers to deliver a full solution with ease and confidence. End users can arm and disarm the system from the VMS software's user interface, view partition and zone status on cameras. The complete security solution opens up the possibility to relate video recordings to other alarm events and lets end users add a few or a few thousand doors from multiple locations across the globe. With the intrinsic mapping feature within EntraPass, the status of the doors, intrusion partitions / zones and the CCTV cameras can be instantly viewed, helping operators react more quickly and effectively to adverse events.



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PRODUCT TESTING
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Fraport operates one of the most important air traffic hubs in Europe. The airport's success is also based on stable and modern security management. Erich Keil has over 40 years' experience in criminal investigation, security and management/executive work. Most recently, he was head of Corporate Security at Fraport. Since 1st of April last year, he has been head of the Airport Security Management division and Chairman of the Board at FraSec Fraport Security Services. FraSec is a wholly-owned subsidiary of Fraport. With almost 4,000 employees, FraSec is one of the largest airport security companies in Germany. FraSec has its headquarters at Frankfurt Airport. The company currently operates as a specialist in security and services at Frankfurt/Main and Stuttgart airports, and will soon be doing the same at Berlin's Tegel, Schönefeld and Brandenburg airports. Our Scientific Editor, Heiner Jerofsky from GIT SECURITY, asked Erich Keil about his new duties, current developments and security.

GIT SECURITY: Your role has changed. Since 1st April last year, you have been head of the Airport Security Management (ASM) division and Chairman of the Board at FraSec. Can you briefly describe your new role as head of the ASM division?

Erich Keil: ASM is a division that carries out operational services relating to aviation security such as passenger and luggage checks, airport security and access control services. ASM employs some 880 employees in total, of which more than 550 are in passenger and luggage checks alone. By the end of this year, all staff will be transferred to the "FTU" (Flight Operations, Terminal Management and Corporate Security).

Based on integrated involvement, ASM is assigned directly to FraSec. A wholly-owned subsidiary of Fraport, FraSec is one of the largest airport security companies in Germany. What services can the company provide?

Erich Keil: FraSec will continue to be the security service provider for Fraport. The plan is that there will be no further build-up of security staff at the parent company Fraport. In the future, security staff will always be replaced by the subsidiary FraSec. This means that, in addition to the legally regulated tasks of airport security, FraSec will also perform the access control services as soon as Fraport is no longer able to do this itself. FraSec already carries out all the tasks relating to staff and

goods checks on behalf of Fraport. In Frankfurt, about 1,300 people are also currently working in the area of aviation security. And our company also has to carry out a significant portion of other services.

Having worked in managerial positions within aviation and airport security at Frankfurt Airport for decades, you have a wealth of experience. How have you adapted your security philosophy to the constant changes in the situation and what are your biggest challenges at the moment for ASM and FraSec?

Erich Keil: Well, one's own philosophy is, of course, shaped by the requirements placed on



◀ **Erich Keil, Head of the Airport Security Management division and Chairman of the Board at FraSec Fraport Security Services**

an airport or a service provider by law or by the authorities. My own philosophy has always been that the tasks set must be completed with the highest possible competence in close coordination with the various airport departments and the relevant authorities. In this respect, you are right to ask that question because one's own ideas always have to be adapted to the respective security situation.

Preparations for setting up the new Berlin station are already in full swing at FraSec. Where will the new employees work and which specific services are they intended for?

Erich Keil: Their main tasks will be checking staff and goods, issuing ID cards outside regular working hours, and access and patrol duties, with and without a vehicle.

FraSec is sharing the airport security work in Berlin with the security service provider Securitas Aviation who has been operating there for several years. Will you work together or are the tasks split?

Erich Keil: The airport operator has defined how the tasks will be allocated between the two providers, but both companies were involved in the relevant discussions beforehand. It has been agreed that the companies will make sure the two persons responsible on the ground will cooperate. However, there are no plans to mix personnel from the two providers. One of the reasons for this is the new Employee Transfer Law.

Passenger and hand luggage checks are an important part of work at the security checkpoints. The screening devices are getting

more and more technologically sophisticated and can show many suspicious substances on the screen. But the images must be correctly interpreted. How do you make sure this happens and avoid incorrect interpretations?

Erich Keil: Within the scope of airport security, not only are screening devices used, but the quality of them is now, of course, increasingly optimised. In Berlin, we have a system called CASRA, which is used to provide our staff with the ideal conditions for interpreting X-ray images. On top of that, we now use explosive detection devices (or ETD devices).

Passengers, employees and business partners expect a high standard of security. Will you be using body scanners more in the future too?

Erich Keil: Airport security does not currently use any body scanners. These are only used in aviation security, i.e. for passenger checks.

If necessary, explosive detection dog teams certified by the Federal Aviation Authority (LBA) are also provided. What experience do you have in using dogs?

Erich Keil: As you are no doubt aware, explosive detection dogs have been used in Frankfurt Airport for years. In this respect, we have a wide range of experience in using these teams, which are certified by the LBA. At the moment, however, it has not yet been determined if, or when, such dogs or guard dogs will be used.

Responsibility, commitment, thoroughness and friendliness are important characteristics for security staff. How and through which

measures do you achieve this? Is a fair pay according to a collective labour agreement offered?

Erich Keil: You have already mentioned the most important characteristics that our employees must have. In this respect, there are already components within basic education that address precisely these topics. The fact that the employees now have relatively high hourly wages supports the whole thing, of course, because we have the ability to recruit staff that are better qualified for this kind of work. We pay according to a collective labour agreement and we offer our employees an excellent basis for shaping their lives.

How would you assess the current security situation at German airports and what are your wishes and goals for the future?

Erich Keil: Right now, we have a security situation that has never existed before, not only in the public areas of airports, but wherever larger numbers of people gather. However, airports have always been targets for terrorism, because it is a way to attract the greatest amount of attention all over the world in the shortest possible time. All of this, of course, is supported by modern, very fast social media. This is a burning issue and I am very pleased that in the new Aviation Security Act (Luft-SiG), legislators have also implemented a reliability check for all operatives involved in airfreight. For the future, I wish we could be spared from attacks at airports around the world. My goal is to continue ensuring a high standard of security for our airports.

Thank you for your situational assessment and the insights into your important job.



AIRPORT SECURITY

Maximizing Security Resources

Sundsvall Airport Invests in Security Management Platform to Enhance Staff Efficiency

While there is a security monitoring desk in the baggage makeup area, guards are rarely stationed there. Instead, the team relies on the Security Center Mobile App to oversee security as they move through the airport, handling their many responsibilities. If someone tries to access a restricted area, the unified platform automatically alerts guards on their phone. From the app, they can acknowledge alarms, view video and quickly determine if it's a false alarm or something that requires their immediate attention.

According to Maria Sundin, Airport Security Manager at Sundsvall Timrå Airport, "At our airport, staff often move with our passengers, handling various tasks from check-in areas to security check-points through to gates. That's why Security Center has been so critical to our team's effectiveness. If an alarm comes up, they can quickly see what is happening using their phone, and respond. We are fully maximizing our resources to provide the best service to travellers."

Meeting EU Regulations with an Intuitive Platform

The unified security platform's ease of use has been a major advantage for the team at Sundsvall Timrå Airport. Guards get an overview of their security environment with Plan Manager, the map-based interface of Security Center. At a quick glance, they can locate devices, change cameras' fields-of-view, monitor alarms and ensure devices are online.

Business Challenge

Big or small, all airports commit to providing the best service. It's why regional airports like Sundsvall Timrå Airport on the north-eastern coast of Sweden always seek to optimize its team's efficiency. The airport understands that when its staff can do more in less time, its 300,000 annual passengers will have a better and smoother experience from parking to gate.



Security Center offers Sundsvall Airport a highly-advanced security solution meeting EU regulations

Working with limited resources isn't easy. On any given day, the same staff at Sundsvall Timrå Airport will manage security, handle baggage, clean the terminal, de-ice planes and more. Furthermore, compliance regulations mandated by the European Union required two full-time guards to patrol and watch over the critical parts of security restricted areas (CRSA).

That's why Sundsvall Timrå Airport decided to investigate an alternative option offered by the EU – to implement more advanced security technologies that could automate intrusion alarms and extend monitoring capabilities to guards anywhere in the airport. The objective? To maximize resources and reduce costs. With the help of Nikolai Berglund, Owner at IP Security, a local system integration company specializing in airport security, Sundsvall put together a business case for unified security. The airport discovered that an advanced and open security platform capable of unifying video surveillance, intrusion detection and other systems could accommodate EU airport legislation and help the team save time valued at \$120,000 USD (\$1.2 million SEK) per year.

These efficiency savings were enough to convince Sundsvall Timrå Airport to move forward with Genetec Security Center, the unified security platform that combines video surveillance, access control and other security systems in one intuitive application.

Reaching New Levels of Efficiency

Today, the team at Sundsvall Timrå Airport is managing just under 20 cameras within the Omnicast video surveillance system of Security Center. The video system is unified with third-party video analytics and intrusion detection solutions, providing staff with complete visibility of the airport terminal, gates and perimeter.

"Security Center is a highly-advanced security solution, and it's also very intuitive. Having the ability to bring our systems under one platform and automate alarms simplifies tasks and increases the efficiency of our personnel. Our team can confidently secure all critical areas in our airport, and meet the regulations required by the European Union," said Sundin.

Flying Higher with Unified Security

Moving forward, Sundsvall Timrå Airport plans to continue expanding its platform. Priority number one is to upgrade an existing disparate access control solution to the Synergis access control system of Security Center. Adding more cameras and other device integrations such as body and baggage scanners will come next.

"We are very pleased with our investment in Security Center at Sundsvall Timrå Airport. We have so much more flexibility to add different solutions and expand the capabilities of our system within the unified platform. These capabilities help our team become more efficient, maximize resources and ultimately, save money. As a smaller regional airport, these are the results we need to keep moving our business forward," concluded Sundin.

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PORT SECURITY

ImPORTant Cargo

An Introduction to Harbour Surveillance

Man has always been dependent on the ocean. As we began to trade with foreign lands, the importance of ports around the world grew and today they play a critical role as a fundamental part of the world's transport infrastructure. They provide gateways to the outside world and have enabled nations to transform into export-oriented economies and benefit from foreign trade. With enhanced globalization, the role of ports has changed but coupled with the benefits of trade are the challenges and pressures of security management.

The industry is fraught with contradictions. Whilst ports are rapidly expanding, there is no doubt that they need security management, but at the same time there is an urgent need for safe, highly-efficient and manageable services. There is also pressure on operators to ensure proper systems are in place. However, with large port supervision areas and sometimes complex situations, managing this civil defense can be difficult.

Port Security is Under Threat

Usually a port area covers several square kilometers, but some port zones can reach tens of square kilometers. So covering a large jurisdiction combined with complex transportation, then add a large number of entrances, perimeter fences, long channels, large scale storage yards, and the numbers of berths it is not surprising that security needs have led to a dramatic increase in the number of workstations across a port. If only dependent on civil defense, how can maritime security

keep checking of regular operations? Now with the development of technology, illegal immigrants and organized crime have also affected safety management. But putting the human resources in place to effectively combat, this issue would be very wasteful and in most cases the role would be pretty monotonous. Therefore it makes sense to combine the protection approaches with intelligent defense.

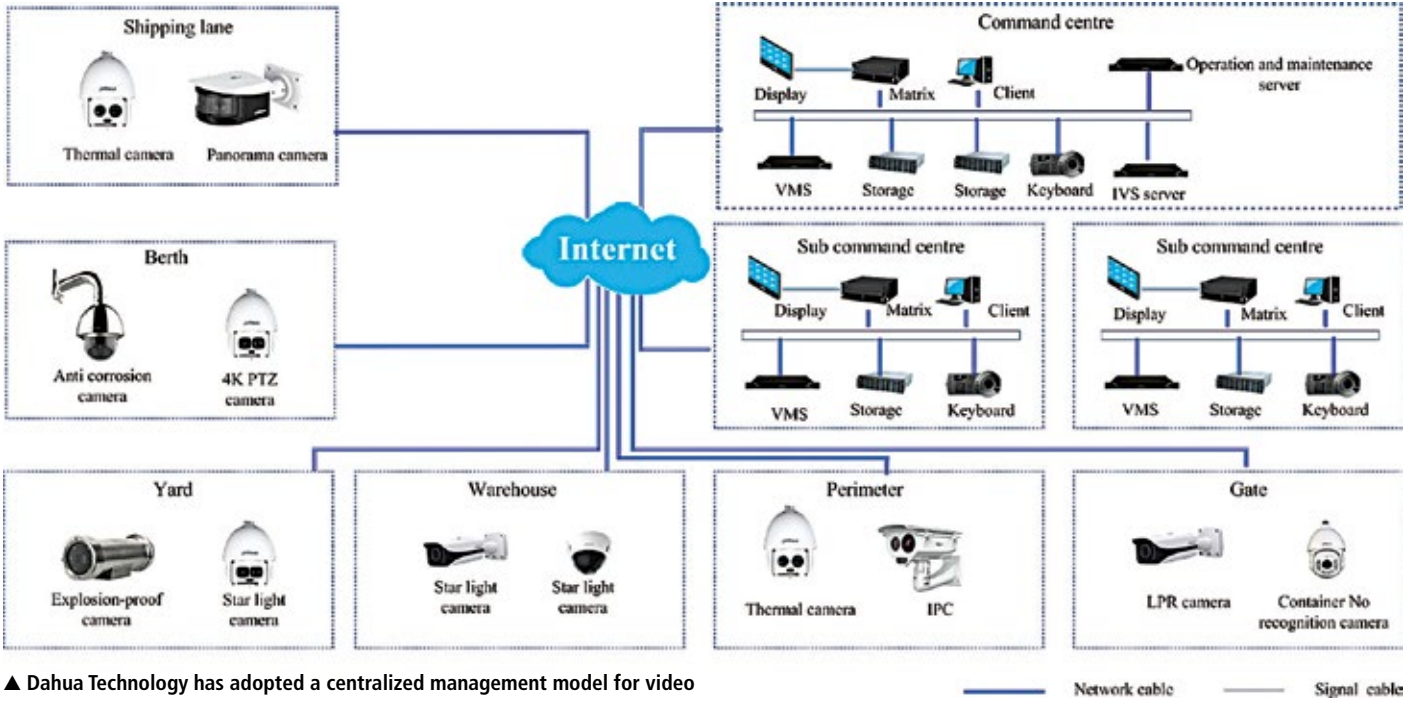
Multiple Managements

Exchange and data-sharing is a part of informationization. Ports view each workstation as a unit in terms of achieving video monitoring data. In most cases, the utilization and management of video and business data are comparatively independent at each station. So there is a lack of an integrated, systematic and multi-level security network system. On top of this, ports have to balance demand for the correct allocation and access control from monitoring centers to sub-centers, sub-centers to monitoring points in customs, port

bureaus of public security, maritime bureaus and border defense etc.

Intellectual Reformation of Ports

With the emergence of smart ports, the need for intellectualized safety management has become very apparent, particularly for the automated identification of containers, staff and drivers who frequently entry and exit the harbor. A multimedia integrated management system is required to support the Information Management System (IMS) notification at each critical step of flow, and could be used in conjunction with a sign-in system and security system. Integrators can obtain basic data via electronic tags and cameras, to realize a whole-process and omnidirectional management control system for incoming and outgoing cargo. At the same time, the port safety can be guaranteed through facial recognition technology, tracking analysis and video motion tools in cooperation with broadcast and sound-warning devices.



▲ Dahua Technology has adopted a centralized management model for video surveillance systems which considers the port's inner operational management mechanism. See all the different camera options for ports and beyond

Challenging Monitoring Demands

With the continual evolution of video surveillance products and technology monitoring requirements, their application in port zones needs to keep up with the times. Firstly, high definition imaging: Since ports gather large crowds of people, vehicles and boats across their extensive grounds, if you want to differentiate the details, you need to use a high resolution camera in order to support the application. In addition, poor light and remote monitoring at night are considerations. In a harbor, the majority of attacks happen on a dark night or during heavy fog, so it is important how to ensure port safety in this kind of situation. Current high demands for use in ports include remote surveillance, panoramic monitoring and products which must be explosion-proof and anti-corrosive.

So global ports are finding themselves in challenging situations. It is critical to find a way to turn this situation around.

Intelligent Video Surveillance for Ports

Dahua Technology, as an end-to-end intelligent security solutions provider, is devoted to making the world safer, especially ports. It is advocating an intelligent video surveillance solution against potential danger.

A Centralized Model

Regarding system architecture, Dahua Technology has adopted a centralized management model for video surveillance systems which considers the port's inner operational management mechanism. The centralized management model belongs to a second-tier monitoring, which means a monitoring center is established in the port to realize centralized management for all system resources. Command centers and sub-control centers meet the requirements of command dispatch and monitoring management from top level customs and police stations to subordinate customs, maritime affairs and frontier inspection departments. Overall, the chief control center is responsible for all access and management of system resources. This includes the monitoring management platform, device access, intellectual analysis system, video storage system and video surveillance system. The control center monitors the general running of port operations, and coordinates safety commands at each unit of the port. In this centralized management model, the control center plays a role obtaining, displaying and controlling the key video resources, while the sub-control centers mainly provide real-time video surveillance and safety guard management for business departments, such as customs, frontier inspections, and quaran-

tine and inspection departments and so on. It is not difficult to realize that this infrastructure efficiently solves the challenge of sharing and multi-level administration between departments. It also provides highly-efficient and easy-to-operate services for ports. ▶



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Star Light Camera: Delivers comprehensive surveillance with thermal imaging for stacking points of valuable cargo at yards

Although Dahua Technology has excellent system architecture, in order to further satisfy users it is continuing to research on the particular needs of ports.

Port Entrance

The entrances to ports have undergone technological transformations in recent years. Dahua Technology has developed an ID system at the entrance control which can identify the license plate. It is a multimedia management system which is combined with a variety of advanced technologies including image contrast, character superimposing, voice function, query service, etc. Users can check the vehicle access and statistics reports from any terminal. Meanwhile, a "Blacklist" database is stored in the platform software, so any blacklisted vehicle will be recognized and prohibited from passing, otherwise, it can pass freely.

For entrance zones, Dahua Technology has started an automatic container equipment identification system, which automatically recognizes the container number. It has a well-run development kit and software interfaces which make it easy to integrate with other systems. The system operating process includes an interface for immediate alarm triggers, photo shots, number recognition, data storage and data transmission. After receiving results from the recognition system, clients can undertake relevant operating procedures or back-end processing, such as comparison, analysis or release. The warning function module of image identification is used in container terminals. This can function as an early-warning system and protect cargo from being stolen. An Intrusion Prevention System can also be added to enhance security and confidentiality.



Explosion-proof and anti-corrosive – Dahua Anti-Corrosion is suited to even the harshest conditions

The facial recognition system from Dahua Technology is installed in different places, but has a unified management system. Real-time video surveillance was developed following in-depth research into the technology of neural networks, mass data storage, and data computing technology. The monitor would transmit the images and videos in forms of video stream or image stream. It does not only show people's faces in any given situation, but can also store all still images. The real-time videos and images of vehicles and containers will be transferred to digital information storage. By using the ISO number, container number or facial recognition information and integrating it with the logistics, quay, yard or customs system, users can find the global location information of containers. This means that the daily management procedures are more automated and efficient including the gateway and cargo management, container inventory management, site planning, management charges and other related logistics management. It saves time in checking the containers, and minimizes rates of manual error, then strengthen safety of quay entrance.

Berth Monitoring

Berth monitoring is the most important step in the process of port protection. For the loading and unloading of cargo in large container terminals, there is high demand for high-definition video surveillance to record all information. For the coastal location, there is a need for cameras with a wide dynamic range, backlight compensation, and an anti-shake function. Dahua PTZ is equipped with quick and smooth control, high quality image and anti-corrosion protection, so it is well-suited for berth monitoring. This camera is suited to even the

harshest of anti-corrosion conditions. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning. With a temperature range of -40°C to +70°C (-40°F to +158°F), the camera is designed for extreme temperature environments. It also conforms to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP68 rating makes it suitable for demanding outdoor applications.

Yard Monitoring

The container yard, is a crucial stage of the cargo distribution process. It is a wide open space, but can present complex issues, because it can easily become crowded with vehicles and people making it hard to identify personnel. So the key facilities should be monitored by using 24-hour monitoring that is uninterrupted. Then for critical places, comprehensive surveillance should be added for the loading and stacking points of valuable cargo. The system needs to be reliable, stable and able to respond quickly. Any abnormalities can be immediately detected and are linked to all departments so that timely action can be taken. Specifically for this issue, Dahua Technology has introduced a TPC series of thermal-imaging cameras, which include thermal imaging technology using small and medium sized gun-shaped cameras for night protection. Unlike other companies using laser infrared lighting technology, Dahua uses thermal imaging technology, which is far more effective than other methods. Specifically designed, this dome camera has a separable lens and wiper function, which means it can adapt to extreme weather conditions and can be installed in an open yard.

Port Perimeters

Since ports usually cover customs and excise, only authorized personnel are permitted. For perimeter areas, factors such as long distances, the effects of night images and intrusion have to be considered. Dahua's thermal-imaging dome camera's monitoring range can cover hundreds of meters and even a couple of miles. The thermal imaging system can set up an intelligent intrusion analysis and alarms, coordinating to discover and detect illegal personnel and foreign object. Once it sends an alarm signal to a control center, it will issue visual images to staff on duty for confirmation and identification. It can also recognize the intruder and track the location using video image. It has excellent performance for fire detection, overstepping and zone intrusion.

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PERIMETER PROTECTION

Magic from Milan

Border and Object Protection Designed and Produced in Italy

Sicurit Alarmitalia has been producing and distributing security systems since 1971. Today the company is a major player in the Italian market and, since 2000, has been exporting its perimeter protection systems to more than 25 countries, from the USA across to the Far East. Here we take a look at the diverse perimeter protection solutions emerging from the factory in the north of Italy.

The Sicurit Alarmitalia administrative and commercial offices are in an industrial area north of Milan. The company has seven national agencies, two international subsidiaries and also two international representative offices. The company has its own RandD department, a production plant and also an outdoor test field. Set up in 1990, this division has contributed to company growth and internationalization, becoming one of the main suppliers of perimeter protection solutions, mainly for industrial, governmental and military applications.

Great attention to detail is given during the manufacturing process, from the choice of raw materials to the rigorous tests carried out by technicians. The company provides comprehensive support, both pre-sale and post sale, that has allowed Sicurit to gain the trust of major customers in the security market. It has made a commitment to its clients to achieve and maintain the highest quality standards for its products and services that are in line with the quality targets required by its clients and by applicable laws. The company's quality management system is certified to ISO9001:2008, one factor which has allowed it to become a trusted supplier to many highly sensitive areas. Its products are deployed for the protection of civilian, industrial and military sites including airports, government compounds, financial institutions, electrical and nuclear power plants and correctional facilities.

Two Eyes are Better than One

Perhaps the most familiar Sicurit product are the dual tech barriers that combine digital bi-directional IR beams and microwave technology within one unit. These are well suited for high risk areas located in critical environments where conventional technologies fail to grant continuous proper operation. The Absolute Pro is the active barrier able to properly maintain high security during thick fog, heavy rain, strong snowfalls and sandstorms. The system provides maximum reliability of intruder detection with minimum false alarms and can be custom designed to any height and component array, suiting each security requirement. It is completely immune to direct solar rays or the car headlights that are often a cause of nuisance alarms in conventional IR beam barriers.

Data communication between the Absolute Pro slave (TX) and master (RX) units is optical and does not require any sync. cable, which would make installation procedures longer and more costly. The security of the optical data

transmission is guaranteed by continuous regeneration of specific codes protected with checksums. The columns can also be equipped with built-in CCTV cameras: the cameras are invisible and protected by a Plexiglas cover and are therefore completely protected against atmospheric agents as well as being hidden from tampering attempts. The columns have a useable range of between 50 and 200 meters.

IP Native barriers

SICURIT recent attention has been focused on medium-large scale project requirements for IP connectable devices with high remote control and eventual interaction if needed. Absolute Pro (Dual Technology barrier) and Avantgarde (IR Beam barrier) are Sicurit solutions for such requirements because are able to provide unique tools under both management and maintenance point of view. As an instance any IR Beam can be easily disconnected and reconnected by Software when drastic environmental changes or temporary obstacles require it; a precise signal efficiency analysis (SEA) constantly monitor condition of in-service equipment in order to predict when maintenance should be performed; IN and OUT dual alarm information can be set to better monitor with associated CCTV equipments nearby suspicious activities.

Perhaps one of the most discreet Sicurit products is a sensor cable to detect breaking through barriers and walls. Wall Guard sensor cable can be attached to or buried in a wall and will detect the typical vibrations of break-through attempts. If only they'd had one installed in the vaults in Hatton Garden, where the quite aged team of crooks were able to drill three adjacent holes through a solid concrete wall without being detected. The system would have not responded to heavy trucks in the street outside or even vibration from thunder, but vibrations caused by the cutting unit would have triggered the alarm.

The Sicurit Dave digital microwave intrusion link represents a further technological step forward in outdoor perimeter protections. It has been designed for quick and easy installation and it is suitable for any kind of environment that requires medium to high security standards. Advanced digital signal processing strongly increases detection accuracy and enables the discrimination of unwanted targets with more precision compare to traditional analogue microwaves. Intrusion detection, using a modulated amplitude sensitive system, takes place with changes of signal amplitude at the receiver that are directly



Sicurit's Absolute Pro dual-technology barriers make a formidable hindrance to intruders

object are detected according to the set sensitivity. The work of art needs only to be touched to trigger the alarm: total protection, therefore, both against theft and acts of vandalism.

The Michelangelo sensor has been devised to protect valuable objects on exhibition in museums, castles or private places to which the public has access. The sensor gives continuous protection (24 hours a day) by continuously monitoring their mass. It is particularly suitable for statuettes, vases, precious stones etc. Michelangelo triggers an alarm when the object is touched, moved or removed. The initial weight of the object is measured and memorised, and any successive increase or decrease of the mass will trigger the alarm. The sensitivity of the sensor is independent of the weight of the object, which can be from just a few grams up to 100 kilograms. Any jerks or nudges to the base of the sensor do not trigger false alarms.

Sicurit has a very varied product portfolio, built around highly effective detection techniques. Where the situation calls for a theft prevention or intrusion detection solution, either indoors or outdoors, the company probably already has a suitable product available. And we can be sure that new products will continue to appear in the coming years, making the best use of one, two or more types of technology to put insurmountable invisible barriers in the way of the many crooks of this world.

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related to the object's size, speed and density, allowing the sensor to discriminate between objects.

The Dave interface has been developed either for networking over IP RS barriers into the company's own Hyper Power security management system and/or into third party systems through programmable open-contact output modules. Being one of Geutebrueck's main commercial partners, the CMH9000 Dave interface has been implemented with GETAS protocols, allowing an easy and intuitive integration with Geutebrück's Gevisoft central CCTV management software.

Museum Solutions

Valuable paintings on exhibition in museums, castles or private places to which the public has free access can be protected by the Sicurit Raffael sensor. It gives continuous protection (24 hours a day) for paintings by protecting the canvas itself. It is particularly suitable for large canvases in heavy frames, hung on a wall where other systems cannot be used or require installation on the painting itself, and it does not damage them. The sensor detects the movement of the canvas by a flag. If the canvas comes too near or goes too far away from the sensor body, an alarm is triggered.

Leonardo is a wireless solution to secure museums, halls and private collections where the use of cable systems is not feasible. The system consists of a wireless receiver and detectors to be leaned on the object to be protected. Up to 30 detectors can be assigned to a wireless receiver unit and the communication is bi-directional between detectors and receiver. Detectors send status reports every 15 seconds and an alarm condition will send a message immediately. Wireless communications are encrypted and the whole message changes with every transmission, even from the same detector.

Heavy Art

The Van Gogh surveillance system for paintings has been devised to protect a large number of works of art hanging in museums and galleries. Paintings and tapestries are typical objects that require protection; the alarm is triggered if an object is touched or removed. The painting is hung by a straightened stainless steel wire attached to a sensor which evaluates the forces exerted on it. Very small movements and attempts to touch and/or remove the protected



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PERIMETER PROTECTION

Subtle but Effective

Security in Public Areas: New Threats Require New Responses

Increasingly aggressive, religiously motivated terrorism, the increase in vandalism, sabotage and organised crime continuously make new or extended security concepts necessary. Until now, high security products and systems for fence detection and outdoor monitoring have been used predominantly in prisons or forensics, embassies, military sites, nuclear power plants, airports or other critical infrastructures. But the demands placed on security concepts continue to rise in all areas. An article by Kira Lichte, Marketing PPG.

How the requirements and complexity of security products and concepts can change is exemplified by the increasing importance of certifications. These include, for example, the requirement for a 'known sender' in the logistics industry or the Food V6 certification for food manufacturers, but also the ISO/TS 16949 currently being updated that improves standards in the automotive industry. Amongst other things, this requires automotive suppliers to carry out audits to increase the requirements of safety-relevant components and procedures or to improve the source tracing capability of products.

Inner Cities and Public Places

The hot topic right now in the security industry is strengthening the protection of inner-city areas and public places. The very controversial law package presented by Thomas de Maizière, the German Federal Minister of the Interior, after the amok run in Munich, the attack in Ansbach and more recently on the Berlin Christmas market at Breitscheidplatz, anticipates an expansion of video surveillance of highly frequented public places such

as shopping centers – after corresponding amendment of the Data Protection Act in the sense of increased security. The Federal Data Protection Act is to be replaced by the EU Data Protection Code by May 2018. Political opponents of this package, such as Frank Tempel, member of the German parliament and the left wing in Germany considers it to be senseless. On Berlin Brandenburg radio he spoke of "placebos for the subjective feeling of security" because potential perpetrators could simply adapt themselves to video surveillance and act accordingly.

Video Helps with Perpetrator Identification

In practice, video surveillance serves to verify facts more easily, as recently demonstrated by the case of the 'Berlin metro kicker'. After publication of the surveillance video, a companion of the perpetrator was quickly identified. The video spread rapidly in the Internet and in social networks and, shortly afterwards, the police could establish the identity of the alleged perpetrator and arrest him. Definitely a success, but not effective or preventative protection!

The instrumentalisation of vehicles for attacks by the so-called IS is a threat that cannot be countered solely by increased video surveillance. Konstantin von Notz, a politician from the German green party, told a Berlin newspaper: "A thousand cameras at Breitscheidplatz would not have prevented this terrible attack". Furthermore, the cost-effectiveness of a pure video surveillance system is debatable since constant monitoring is necessary by trained personnel to verify real emergencies and initiate an intervention by the law enforcement agencies or to exclude false alarms.

Combinations Fashionable Again

For this reason, the trend of combining different security techniques definitely makes sense. The selection of a 'matching system' and the optimum combination depends on various criteria. In addition to the level of protection, the offenders profile and the type of possible threat, also the contours and texture of a building or terrain are influential factors. Securing inner-city areas is challenging due to the fact that they are partly very close to buildings or are subject to fundamental restric-

◀ Certified PPG bollards provide high security against unauthorised vehicles

tions due to underground cables and pipelines, or because of heavy traffic or many people. Another significant consideration is the visual appearance of a security system in public areas. Visually deterrent concepts are not wanted here as they create a feeling of constantly present threats and ultimately create further fear. Berlin has responded to the attack with a stronger police-presence and heavy concrete blocks as short-term solution.

However, in the long term, it is important to have modern, preventatively working security solutions that can be integrated into the environment in a discreet but effective way. Michael Luckey, PPG sales manager says: "The keyword is prevention! I am of the opinion that high security products that resist impact loads are an ideal and preventive complement to the protection of pedestrian zones or other public areas that can be reached by vehicles on access roads. Crash-tested movable bollards, such as those from PPG for example, are not really noticed in the lowered position, and can be easily crossed without hindering traffic. In case of emergency, they block roadways or entire areas effectively – even against heavy vehicles such as trucks – by rising out of the ground within seconds. Fixed bollards are also suitable for permanently secured areas.

The effective impact load of such products is documented by international crash test certifications, which are granted after successful tests under real conditions. Depending on the standard, vehicles with a speed of up to 80 kph (up to 7.5 tonnes) bounce onto the bollard systems and come to an immediate standstill. PPG has been carrying out such tests for about 30 years and they ensure the mandatory security of high security products."

Barriers and Crash Gates

He adds: "The PPG range includes further impact-tested products, such as wedge barriers, crash gates and bollards, certified according to the PAS 68, ASTM and IWA 14-1 international standards. The elkosta Wedge II needs a flat foundation of only 200 mm plus 100 mm road covering. With its decreased installation depth and foundation footprint, the Wedge II reduces installation costs significantly and permits usage in areas where foundation depths are limited due to underground utilities." It is clear that a long-term security solution that can be implemented quickly and easily in many places must be found in the short term.

It is clear that, ultimately, only a complete, consistent security concept that ensures secure shielding with a sufficient distance to the respective perimeter can really protect in case of emergency. Michael Luckey concludes: "Comprehensive perimeter protection in public areas can only be created

by a combination of mechanical and electronic components. Depending on the type of perimeter, this should include exterior protection with crash bollards or other certified, impact-tested barriers, vehicle sluices with quick folding gates or a barrier/sliding gate combination if necessary, entrance and access control systems for pedestrians as well as additional video monitoring. For places like the Berlin Breitscheidplatz, however, crash bollards are definitely in the forefront since these ensure that an unauthorized vehicle is effectively stopped before even reaching such an area.

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▲ Proven to defy 7.5 tonnes – an PPG crash bollard

▼ A truck after a crash test against a hydraulic PPG M50 barrier



COVER STORY

Changing Of the Guard

A Well-considered Product Range from SimonsVoss Extends Convenient Functionality for Users

A door has a lock, with a key, otherwise we couldn't secure it – simple and obvious. Or is it? Well, it has been for hundreds of years, right around the world, but that is no longer true. Electronics has changed that fact fundamentally, and the long-standing need to more easily control who goes through a door is now being met by the smart products of companies such as SimonsVoss. Managing Director Bernhard Sommer and his team from Unterföhring, close to Munich in Germany, are satisfying the surge of interest in convenient access control with intelligent access solutions that we will most likely take as a simple fact of life for the next hundred years or so.

Let's take a fresh look at the door handle. Its sole purpose to date has been to move the internal mechanics of the latch and to provide the 'human interface' to physically move the door. The SimonsVoss 3062 Smart Handle, however, does that and also takes on the role of the guard. It may not exactly smile when it lets you in, but it does efficiently control where and when up to 64,000 users are granted access. Developed, amongst others, to satisfy the special requirements of the hospitality industry and retirement homes, the underlying principle of the 3062 is that it communicates wirelessly with the identification media

in the company's 3060 digital locking and access control system.

The battery only needs to be changed every 10 years as the integrated button cells provide power for up to 150,000 operations. It can be installed quickly and easily without wiring and without having to drill holes in doors. The installation procedure is simply fastening the fitting with just one screw for a permanent, sturdy installation. Another version of the Smart Handle – the SC variant – not only delivers the convenience of the active variant, but allows you to use passive cards too. This is made possible via its integrated RFID reader,

which can read Smart Cards using MIFARE Classic and MIFARE DESFire standards.

Cable-free Configuration

The 3060 digital locking and access control system mentioned above enables easy management of dozens or even hundreds of doors. You can implement locking systems of varying sizes and complexity. You can easily make modifications, expand the system, block transponders – in short, handle all individual access authorizations – by mouse click in the GUI under Windows. At the same time, you can allocate up to three mutually independent

◀ **The 3062 Smart Handle is the efficient 24-hour guard at the door**

locking systems to any given transponder. This means, for example, that you can take convenience home with you and only need a single key to open the doors to the office, the private home or the club facilities.

In large locking systems, actions such as monitoring individual doors, reprogramming or reading out the access logging is usually time consuming and cost intensive. The convenient Network 3065 offers online programming of the entire locking system or selected doors from one or more PCs. The network node, installed in a flush socket device, takes over the cable free radio communication to the locking components and to the PC.

Real-Time Events

Control done over the network nodes offers real-time monitoring and, optionally, makes it possible to drive integrated external systems and to switch on lights or heating systems automatically when doors are used. Using the radio-based network, you can even monitor buildings from a distance, for example, by modem or Internet. The Event Manager allows you to define the most varied events in the locking system so an e-mail could be sent to an alarm control center or an SMS alarm message to the cell phone of the locking system administrator if, for example, a door has been opened but no regular entry has been determined.

Small is also Beautiful

But not everyone has so many doors that it warrants a comprehensive networked solution. For small and medium-sized enterprises there is a new version of the web app and an online extension: Mobile Key is designed for up to 20 doors and 100 users. The solution is easy to install, economic in acquisition and costs nothing to administer – and it is available in an elegant design that adapts to any environment. The system opens up the world of keyless locking with several functionalities to smaller and medium-sized companies as well as to private users. Opening and locking with the electronic remote control and the replacement of classic mechanical locking is now possible with Mobile Key for every building door in a practical and cost-effective manner.

The traditional key makes way for the convenient digital transponder, a PIN code keypad or – as the name suggests – a smart phone. And instead of mechanical cylinders, there are now electronic cylinders. With a freely rotating digital double knob cylinder, Mobile Key is suitable for interior as well as exterior areas, and is equipped with an access control function for time schedules and a logging function of all access attempts. The integrated button cells last for 300,000 opening and locking operations. Installation is without the use of any special tools, wireless and without any drilling.



The elegant SimonsVoss PIN code keypad

For special short-term authorization, there is the 'Key 4 Friends' function. You can send a temporary access code to friends, relatives or workmen – straight to the smart phone of the recipient of the authorization (Android or iOS). The recipient in turn merely has to download the app to be able to receive and use the code.

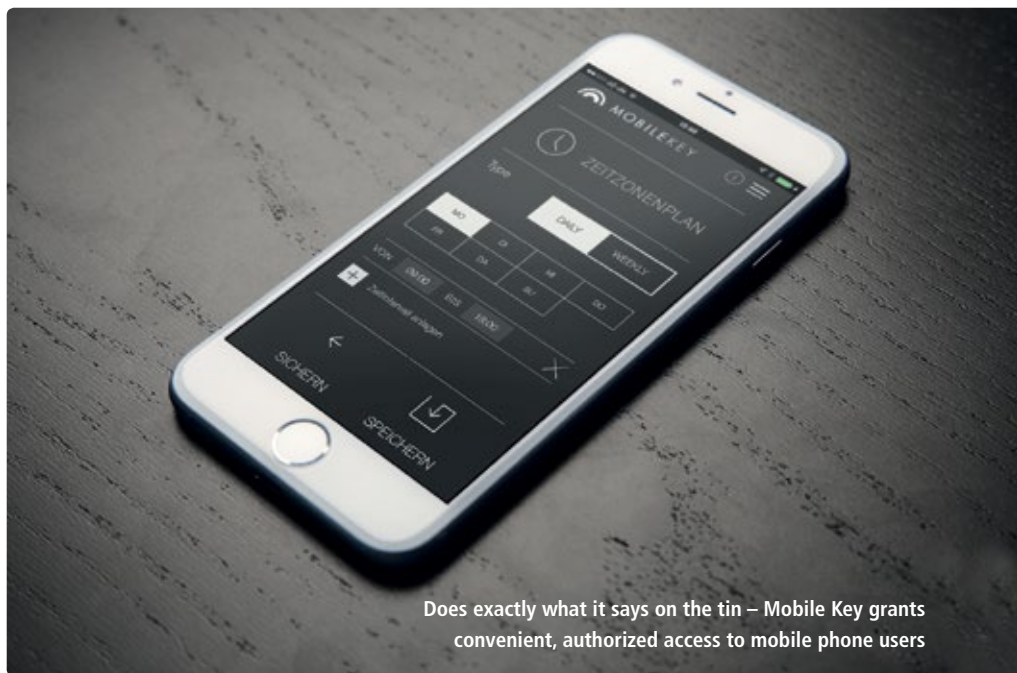
Integrate and Enhance

While a manufacturer can expect to sell his self-contained systems to customers with smaller requirements, he must face the fact that larger companies will already have other well-established safety and security systems in place, which they are not likely to throw out. So the only way he can get a piece of the cake is to provide seam-

less interaction with those systems and offer his products either as an enhancement or to upgrade older technology. The solution from Simons Voss is called Smart Intego and the system is designed from the ground up to interact with other existing access control systems. A Gateway Node does the necessary translation of signals and protocols.

Larissa Kaiser, Head of Systemintegration, describes the system integration product: "For many building operators, equipping an entire building with card readers and wiring them is too costly, too complex or, in some cases due to building specifications, simply not possible. Card readers are normally only employed for outside doors or safety-relevant doors. In other cases, the doors are equipped with mechanical systems and keys.

turn page ▶



Does exactly what it says on the tin – Mobile Key grants convenient, authorized access to mobile phone users

To replace these mechanical systems, SimonsVoss is offering a cost-effective overall solution that seamlessly integrates into the existing access control system, providing a fast return on investment."

Ace in the Hand

The electronic locking cylinder and Smart Handle electronic door fitting are components of the Smart Intego system, which supports the transmission standards of all conventional card formats such as MIFARE Classic, MIFARE Plus, MIFARE DESFire/EV1, Legic Advant UID, HID iClass UID and MIFARE UID. Installation is carried out without any cables or drilling. And with a battery life of

up to 80,000 locking operations in wireless online mode, the components do not require any maintenance for several years.

The Gateway Node delivers the integration of Smart Intego and provides the perfect connection between the digital locking cylinder or Smart Handle and the central building security control system. As an intermediary device between the intelligence in cylinders and door fittings on the one hand and the access control system on the other, the Gateway Node ensures seamless cooperation between peripheral devices and the security software. A series of unique characteristics transform the radio-based hub with an RS485 and TCP/IP interface into an exceptionally powerful access manager.

So we must be prepared soon to look fondly at our rings full of old, heavy keys, with all their manifold variations of patterns and sizes. The old guard is changing and its new, much more convenient replacement is electronic.

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3 Questions to Bernhard Sommer

GIT SECURITY: Mr. Sommer, SimonsVoss has brought attention to itself recently with a number of innovations. What are the most important – and how are they being greeted by the market?

Bernhard Sommer: Our digital locking solutions are innovative and customer-oriented – that builds trust and pays rewards. For our end-customers that need an electronic lock solution for up to 20 doors, we are raising the bar on security, user-friendliness and economy with our Mobile Key. Door status, access rights and alarms are all simply administered via the app that provides the user with full transparency and security. Mechanical cylinders can be simply replaced by digital Mobile Key cylinders. Mobile Key is available from our trade distributors and is an ideal introduction to the keyless world for new end customers. Smart Intego provides an interface for system integrators that can be integrated into partners' BMS software. The fully networked online version manages access rights and door status in real time. We have also been offering an offline version of Smart Intego for a while. This provides an economic solution for end customers via the SV virtual network. Many of our important partners have decided over the past few months to integrate the Smart Intego system. And things are also changing with respect to handles: the Smart Handle has become even smarter and makes door status apparent thanks to the door monitoring function. Our customers get a good feeling of transparency and the maximum possible security within a building. And the best thing is that everything can be simply retrofitted – without cabling or any electrical installation.

New products have been announced for Fall – could you let us know now in what direction they are heading?

Bernhard Sommer: Forwards naturally! Fun apart – we can't let the cat out of the bag completely. But ... new functionality and electronic handles are in focus right now.

You cement the SimonsVoss Community together with your successful Partner Days. When are the next ones planned – and what will be the topics?

Our „Keyless World“ Partner Day will be held on 10th November in Cologne. The innova-

tions I've mentioned will be presented exclusively to our trade partners during the event. And apart from exciting product topics, there is more waiting for our guests: a whole bundle of marketing news, an insight into the daily life of Olympic champions, the fastest car in the world and, of course, right on time for the start of the Carnival season on 11th November, a lot of Rhineland good fun with the mother of all Cologne carnival bands. We are looking forward to having a good time in Cologne that will cement the SimonsVoss community even closer together!



"At SimonsVoss our mission is to make a keyless world reality. SmartIntego meets today's decision makers at eye level and answers their need for a seamless integration process. Multi-Application is the core of SmartIntego and also the enabler to shift from mechanical to electronic locking systems. SimonsVoss components can be integrated on different levels, including existing databases such as access control, video surveillance, time and attendance systems, cashless vending or logical access. Various USPs, such as operational efficiency, handling, design and technical assets like door monitoring, make SmartIntego a future-forward solution and a logical step towards electronic locking solutions."

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Vincent Dupart, CEO of STid

ACCESS CONTROL

Access Control Using Smartphones

Combining Security and User-friendliness for a Unique User Experience

There are many possibilities that mobile technologies can offer for access control solutions. From smartphones to smart watches, mobile devices are everywhere and are well-suited for a vast range of uses. Vincent Dupart, CEO of STid, discussed with GIT SECURITY how important it is to tie in great user experience with the top security systems in order to meet the growing need for corporate mobility.

GIT SECURITY: How would you assess the impact of smartphones on the way we work today?

Vincent Dupart: Around two-thirds of workers use their smartphone to access company applications. They are more mobile than ever and need the right tools to access their professional data at any time. BYOD-type approaches (Bring Your Own Device) give workers new freedom and improve their user experience. If you leave your access card at home, you probably won't bother to go back for it, but if it's your smartphone, you won't think twice about turning the car around. Smartphones have become essential, making mobile technologies the logical next step in access control for offices, parking lots

and warehouses. Users find them easier and more natural to use and Directors of Security love their straightforward and secure administration systems.

Does the fact that access rights are stored on an ultra-connected smartphone require extra layers of security for data protection? What are your thoughts?

Vincent Dupart: Obviously, the choice of digital solution must not compromise the core principles underpinning your security policy. Why would you outsource your data to a third party? Where is the data stored? Are you independent in managing your security? No technical or technological constraints should prevent Directors of Security from

managing their systems independently, with the freedom to host sensitive data in-house if that's what they want... In any case, data stored in a mobile application and any data exchanges must be secured using encryption and obfuscation methods that comply with government recommendations. Virtual cards need to offer the same levels of security as traditional high-security cards, while improving the user experience for workers. This is where STid stands out from its competitors.

What do you mean by improving the user experience?

Vincent Dupart: Today's mobile access solutions should also take advantage of Bluetooth Smart

technologies and the latest advances in gesture technology so that users can unlock doors from a distance. This means that you could open a door by tapping twice on your smartphone or by swiping the access reader, even if you're in the middle of a call or if your smartphone is tucked away in your pocket. Over 90% of workers feel that access control is a nuisance! Virtual cards and their many identification methods help workers to accept and comply with the security policy of businesses, industries and governments.

Your STid Mobile ID solution recently won a new award at ISC West in Las Vegas. Can you tell us more?

Vincent Dupart: In April 2017, the Security Industry Association presented STid with the award for the best Mobile Application for our secure and instinctive access control solution, STid Mobile ID. The Architect Blue range of readers and STid Mobile ID application have reinvented access control by making identification a fun and intuitive user experience. This innovative solution transfers access cards to smartphones either alongside or as a substitute for traditional RFID cards. This fifth award recognizes STid's ability to drive the security market forward by offering non-proprietary open technologies that make everyday life easier for us-



SIA in the US awarded STid for the best mobile application at ISC West

ers. It reflects our desire to propose increasingly innovative solutions that will win over new markets, including in North America.


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ACCESS CONTROL

IP-Based, End-to-end

Axis Launch Mobile Access Control Solution with HID



Axis and HID components build the mobile access control solution

At IFSEC in London Axis Communications will launch their first integrated open, IP-based mobile access control solution together with integration partner HID Global. The integration of HID's Mobile Access with the Axis 1001 door controller and Entry Manager software allows mobile-enabled workforce to gain access to secured buildings, rooms and building areas.

The Axis and HID mobile access control solution meets business demands to support mobile-enabled workforces. It enables mobile devices like smartphones to function as a credential. This allows people to gain access to secured buildings, rooms and areas using mobile devices. The HID and Axis mobile access offering is the first IP-based, end-to-end solution – and is also available for third-party software integration.

Hand in Hand

The solution encompasses everything necessary for small-, medium- or enterprise-sized organizations to deploy mobile access control. This includes:

From Axis:

- Axis 1001 door controller stores approved end user and makes yes/no decisions about who may enter
- Axis Entry Manager, access control software integrated with HID Mobile Access Portal, used to add new users and manage mobile IDs

From HID Global:

- HID iCLASS SE and/or multiCLASS SE readers
- HID Mobile Access Portal integrated into Axis Entry manager
- HID Mobile Access App, which is available through the Apple App Store and Google Play

The solution stores secure identities on smartphones for opening doors and locks instead of managing traditional printed identity credentials. This improves convenience for end users and represents a more cost-effective and simpler to way manage credentials. It also provides the highest levels of security and privacy protection available in access control. The integration features Axis Entry Manager control software to manage all connected Axis 1001 door controllers with the HID cloud-based portal to manage users and mobile IDs. As an open, IP-based solution, other third-party software can also be used.

The Integration Partnership

Axis and HID are both well known global brands that are now partnering together to develop open, IP-based solutions. "Mobile credentials are finally gaining greater acceptance in market thanks to the mobile first priorities. This demonstrates Axis innovative solutions to the market in partnering with such a leader as HID. We have partnered to implement and use an easy-to-deploy solution for everyone", says Stephanie Hensler, Director of Business Development, Access Control at Axis Communications.

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www.axis.com

HID Global

www.hidglobal.com

THE MOST COMPLETE MOBILE SYSTEM

Electronic Lock With Sleek Reader

Salto Systems has launched the new AElement Fusion hotel lock, the latest addition to its class leading hospitality access control portfolio. AElement Fusion is an electronic lock with a sleek reader accentuated by an interactive light ring that illuminates when access credentials are presented. It eliminates lock hardware on the door by encasing all electronic components inside the door itself, making security virtually invisible. Its modernistic, minimal design blends effortlessly with any style of hotel décor, and its RFID, Near Field Communication (NFC) and Bluetooth Low Energy (BLE) compatible technologies enable it to seamlessly integrate with many mobile applications including Salto Systems' JustIN Mobile. "The small, customizable light ring reader of AElement Fusion provides a discreet electronic lock for hotels looking to deploy electronic access control with a stylish, yet technologically-advanced solution," says Rob Zijl, Salto Systems Vice President-Hospitality Access Solutions. "We've had great success with the first generation AElement product, however, time and technology wait for no one. To keep up with our latest innovations – such as our JustIN Mobile app – an update of our hardware was necessary, which is why we launched AElement Fusion." www.saltosystems.com



Wide-Angle Lens for Machine Vision

The Fujinon HF-XA series from Fujifilm has been extended with a 6mm lens compatible with 2/3" and 5 megapixel sensors. The company has announced the HF6XA-5M lens for Machine Vision applications. It has a 6mm focal length, supports 3.45 µm pixel pitch on a 2/3" sensor format (equal to 5 megapixels) and delivers stable sharpness from the image center to the corners. The small body has an outer diameter of 33mm and the slightly larger front lens of 39mm, enabling the HF6XA-5M to be integrated easily into compact inspection devices with restricted internal space in industrial image processing. The HF-XA series now consists of five fixed focal length lenses from 8mm to 35mm. www.fujifilm.eu

Cybersecurity Features and Improved User Experience

Tyco Security Products, part of Johnson Controls, has released version 8.4 of exacqvision VMS, enhancing both onsite and network security with features that benefit the user, integrator and IT department. A 'Click and Go' function finds and tracks suspects across a site. Using pre-defined clickable areas, the operator can click on exit points of camera scenes as the subject moves and jump to other cameras. Speeddome presets will automatically zoom in without the need to manually select a preset. exacqvision 8.4 will now safeguard and encrypt through HTTPS the important data traveling between the camera and NVR server, specifically through the Illustra and leading third-party branded cameras. www.exacq.com



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ACCESS CONTROL

Access Innovations

How to Create Keyless Buildings That Are Smart to Own, Operate and Manage

"IFSEC is always an unrivalled opportunity for Salto Systems to share our electronic access control innovations with trade buyers from a multitude of industries," says Ramesh Gurdev, Salto's UK Managing Director. At IFSEC 2017 the company will show a mix of new products and software that are technically advanced and offer a multiple range of capabilities that deliver real benefits to both customers and end users alike.



Salto KS offers a cloud locking solution for the access control market



JustIN Mobile combines BLE and NFC capabilities in one app

Additions to the XS4 2.0 Platform

Salto XS4 One is the latest evolution of the XS4 Original model and is part of the new XS4 2.0 platform design line. Smart, secure, innovative and easy to install, the XS4 One electronic escutcheon sets need no hard wiring and provide a totally wire-free networked electronic locking solution. It integrates the latest technology in mobile access and wireless locks including BLE + NFC mobile technologies. It features new generation micro controllers, increased memory capacity and its new built-in reader design makes it suitable for indoor and outdoor installation (IP56 Certified) and clearly indicates if access is granted or denied.

It comes in seven great finishes, including a BioCote Antimicrobial technology finish, and also provides for easy retrofit of existing Salto escutcheons as it has the same drilling template as Salto Comfort and XS4 Original models.

Combining BLE and NFC Capabilities

On the stand will be a groundbreaking new version Salto's class leading JustIN Mobile solution combining BLE and NFC capabilities in a single app. With just a single app, depending on the type of mobile phone used, it will activate its BLE or NFC element, enabling users to open doors just by presenting the smart phone to the BLE or Mifare equipped handle set, cylinder, wall reader, etc.

The secure encrypted technology is compatible with iOS (BLE) and Android (BLE and NFC)

and users can receive their access rights instantly and remotely. No need for any infrastructure, or any wireless handle sets. All that's needed is a 3G connection to the smart phone. It automatically detects if a door is Bluetooth or NFC equipped and then uses its secure encrypted technology to open the door – even if the user has multiple access rights to several doors across different sites in the app.

The app also provides a powerful online system wherever the user is, converting any Salto handle set to an online handle set as its bi-directional communication transmits audit trail and handle set battery status back to the operating system. It even sends the blacklist to the handle set, eliminating any cancelled cards or smart phones if they are used, even if the door is off-line – making this the most innovative, powerful, complete and user friendly mobile solution on the market.

Keys as a Service

Salto KS 'Keys as a Service' is the most advanced and flexible cloud locking solution on the access control market. Incorporating Salto's proven reliability and stability in cloud-based access control, Salto KS offers a solution which negates the need for complex IT infrastructures and provides superior functionality and performance over traditional security solutions.

Salto KS provides a flexible access control management system that requires no software installa-

tion or the added expense of a fully-wired electronic product. All that is needed is an online device with an Internet connection. Providing end users with cloud-based Salto KS Keys as a Service reduces cost and almost eliminates the need for maintenance. Salto KS cloud-based access control also provides flexibility, scalability, reliability, and the ability to manage access control from any Internet platform.

Salto KS Keys as a Service has also already been successfully integrated with a number of market leading products to offer a comprehensive security solution within connected services. An example of this is the partnership between Panasonic Camera Manager and Salto, the first example of integration between a state-of-the-art cloud CCTV company and the Salto KS cloud-based access control solution.

► IFSEC · Stand G1400

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www.saltoystems.com

Omnidirectional Multi-sensor Cameras with Remote Setup

Arecont Vision has introduced its 4-sensor, adjustable view (up to 360 degrees and anywhere in between) camera that offers no-touch remote setup with the push of a button. A single high-definition Surround Video camera can replace multiple pan-tilt-zoom cameras or a large number of single-sensor cameras for a wide range of surveillance requirements. The Omni G3 can be quickly installed and then connected to a single PoE (Power over Ethernet) IP network cable. The installer can then connect to the camera's integrated webpage for setup. 180°, 270° or 360° preset views can be selected, or the installer can adjust and position each of the sensors remotely, including remote focus, zoom and tilt.



www.arecontvision.com

Enhanced IP Dome Camera

In line with their continuous improvement process, Santec have technically upgraded their IP SNC-211FDIA dome camera. The latest generation is equipped with a high-performance processor and an adapted lens. The camera's performance has been improved by 120dB True WDR, which results in even more brilliant image quality. The camera is a 2 MP Full HD IP dome camera equipped with a 2.7 – 12mm motorized lens. The weather and vandal-proof housing (rated at IP-66, IK10) contains integrated IR LEDs with up to 20m range as well as the SD card for local recording. Remote access is possible via the BURGcam App or it can be integrated into the Burg-Wächter Cloud.

www.santec-video.com

Railway Automation and Communication with IEC 61375

Moxa recently presented its IP solutions for smart transportation at SIFER 2017 in Lille, France. These included onboard surveillance, train-to-ground wireless communication, cost and time saving onboard network solutions and data communication for wayside infrastructure. The company highlighted its IEC-61375 compliant solution for train control networks that comprises five different scenarios for automated onboard Ethernet networks. With Ethernet, the bandwidth increases to 100 Mbps, and the use of auto train-level IP assignment and R-NAT eliminates the definition of IP schemes for different consists and trains.

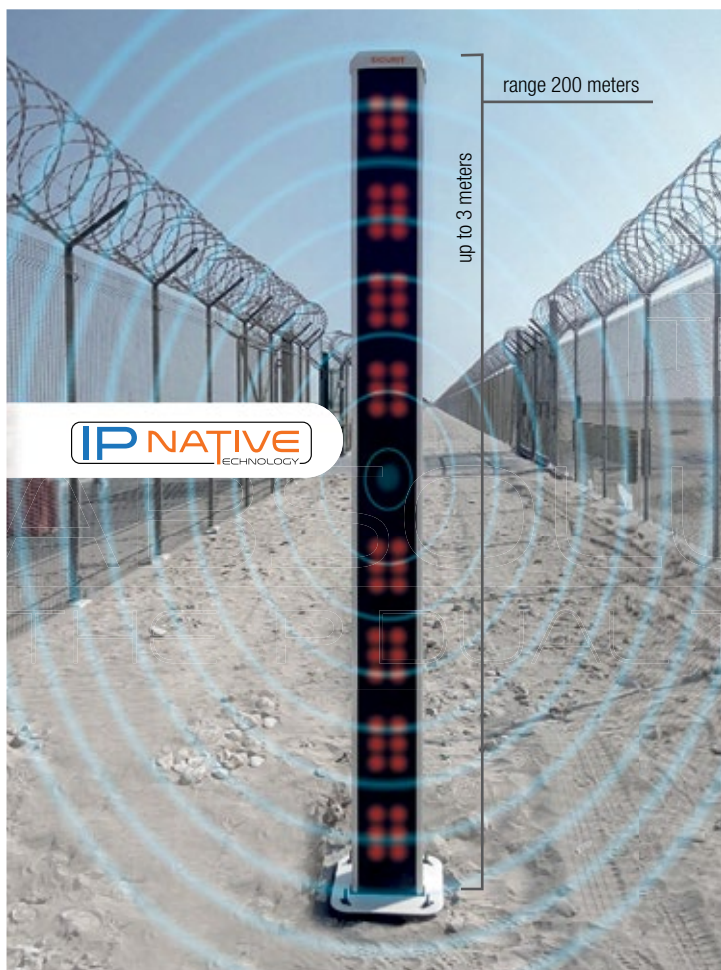
www.moxa.com

4K and 5 MP Surveillance in All Light Conditions

The indoor P1367 and outdoor P1367-E and P1368-E network cameras from Axis are additions to the P13 fixed-box series, ideal for city surveillance, transportation and retail environments. With improved light sensitivity, better image quality and higher frame rate, these cameras can provide up to 4K resolution images in large open areas with challenging light conditions, such as arrival halls at train stations, crowded city areas or parking lots. The P1367/-E both support CS and i-CS lenses, while the 4K AXIS P1368-E is delivered with i-CS lens as standard. Built-in camera rails allow larger zoom lenses to be installed, delivering greater detail as required.

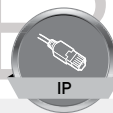


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ACCESS CONTROL

Oldies but Goldies

How Do You Secure Care Homes in the 21st Century?

Care homes present many unique security challenges. Above all, a residence needs to feel like an open, welcoming space. It must work for the resident, and provide a pleasant environment to greet family and other visitors. It should be a home, in every sense. Spending every night under lock and key can carry negative associations for elderly residents. But if care home managers introduce new technology, they must also be certain it is easy to operate.

At the same time, managers must ensure the security of the site, including its staff, sensitive data and areas where medicines are kept. If there has been an unauthorized access attempt, staff need to know about it as soon as possible. When residents have dementia or other complex conditions, it is crucial that care workers can find out where they are at any time.

That's why advanced access control that is easy for everyone to operate can have major benefits in a care home. A system that can feed back to site managers in real time, for example, can positively impact the quality of care, enabling staff to locate residents quickly, to respond to incidents or problems as soon as they arise and to organize staff workflow more efficiently, resulting in less staff time wasted through handling keys.

Wireless Access Control as a Solution

In 2017, old-fashioned mechanical security is not the answer. Managing all those keys puts a huge, unnecessary administration burden on care staff, and finding the right key in a hurry can cause critical delays. In any case, a physical master-key sys-

tem does not offer the standard of security now required in a modern care home. Mechanical keys cannot provide real-time monitoring or detailed audit trails, so there may be no easy way to trace a resident in an emergency.

Electronic access control must be intelligent, of course. It must also offer a user-friendly and affordable step up from traditional keys. Unfortunately, wired access control and magnetic locks are disruptive and expensive to install, and expensive to run in comparison to wireless solutions. In contrast, Smartair battery-powered wireless locks require only easy, cost-effective installation, and provide features designed to put care home managers in more control of their premises.

Intelligent wireless devices represent the easiest upgrade and replacement for mechanical locks, and are just as easy to retrofit to existing premises as to install from scratch on a new-build care home. Simply swapping existing locks for wireless cylinders or escutcheons with integrated card readers links a door to the central admin software, freeing care managers from key hassles and instantly upgrading resident security.

Lost Credentials No Problem

With a Smartair system manufactured by Assa Abloy, lost keys no longer cause a security risk. It takes just a few seconds to issue or revoke a key-card, using a computer or a smartphone. There's no longer any need to change locks when a key goes missing. Reprogram a card and you instantly have a new 'key', saving the time and money usually wasted on replacing compromised locks. It provides audit trails and real-time monitoring in standard configuration. It's also easy to expand the system at a later date, so an installation can start small, with a limited security budget, then grow later and adapt to changing security needs.

Smartair wireless access control is available with different management options for administration. With 'Offline' or 'Update on Card' administration, users' access rights are updated via wall or programming devices. Wireless online administration can give security managers a real-time overview of sensitive areas, including the pharmacy and storage rooms. It's straightforward to combine Update on Card and Wireless Online functions within the same installation, giving man-



Wireless systems simplify access control for staff and residents alike ►

agers the flexible control they need. So pharmacies can be monitored in real time while less sensitive storage areas use offline access management.

Not Just for Doors

The system has devices to fit any opening, including wireless electronic escutcheons, cylinders and locks that can be installed at any exterior or interior door. Component designs are slim and modern to blend unobtrusively with any decor. Smartair cabinet and locker locks (e.g. for medicine cabinets), as well as safes, are also tailored for the care home environment. Devices with an optional PIN code for an extra layer of security fit all types of access point, with battery-powered escutcheons and cylinders for wood, glass, emergency exit and fire resistant doors, barriers, elevators and more. The wall readers can monitor resident access to lifts and allow contractors to pass conveniently through car-park barriers, for example.

Users can open Smartair-equipped doors with various different types of credential, including tags, bracelets and cards as well as with a mobile app. This makes it easy even for elderly residents with limited dexterity to open their doors or room safes. For extra convenience, this same personalized credential can also be used at vending machines, payment points and for other services provided at the home.

Installation is quick and affordable: no extensive wiring and no cabling means there's no electrician required and no need for decorators to tidy up after the contractors have left. Smartair locks are powered by standard batteries, with easy installation and maintenance. These locks maximize energy efficiency and their low-energy consumption saves money and contributes to the sustainability of any premises.

In Use Abroad

Smartair is already deployed in residential care settings across Europe. To assist in the care of over 500 residents, Pamplona's Casa de la Misericordia demanded a new access system that offers real-time control over the premises. The choice was Smartair Wireless Online. "In a residence like ours it is critical to have real-time management that allows us to interact with a door at any time," explains Ernesto Serra, Facility Manager at Casa de la Misericordia.

The system had to be expandable so it could be installed in 2 phases, starting with a new-build before moving on to a 1930s building. Advanced wireless technology suited to retrofitting an old building was a must-have as the older building has walls up to 1m thick. "A wireless solution that allows us to install access control without wiring up the buildings is a big advantage," adds Ernesto Serra. The 2-stage project is now complete and includes 650 additional Smartair-enabled doors in the old building.

Operated by the Skanderborg Housing Cooperative, Dagmargården is a state-of-the-art care home with 54 accommodation units, some communal areas and a spa. The Cooperative sought modern access control suited to every user's needs. The team also committed to make their new Dagmargården care home a welcoming, key-free environment, without the negative connotations of key chains and mechanically locked doors.

Young Technology for Older Users

The site now has wireless Smartair Offline and Online escutcheons and wall readers, ensuring security managers are kept informed about the status of the premises in real time. This enables staff to respond quickly and makes residents more secure

in their care. Everyone at Dagmargården opens doors using standard credentials. Residents are issued with a tag which automatically opens their apartment door: they don't need to turn a handle, or even to push. "We do not have a problem with lost keys anymore," adds Ole Høi Sørensen of the Skanderborg Housing Cooperative.

Les Résidences Notre-Dame is a well-known provider of retirement accommodation in Geneva. Because the Smartair system supports complex, individually tailored authorizations, every site user only has access to appropriate areas. While trained medical staff can enter all rooms, including areas where medical supplies are kept, a resident's credential will only open the door to their own room and the communal areas.

Staff and residents appreciated the ease with which Smartair was installed. Residents experienced minimal disruption to their daily routines. No special wiring around the door was required, as new escutcheons were mounted directly onto the existing mechanical locks. And because Smartair puts ease of operation at the heart of its design, even completely non-technical users at Notre-Dame can work the new system without difficulty.

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ACCESS CONTROL

Accessing the Cloud

How the Cloud Will Catalyse Business Development in Our Industry

Although the cloud is radically reshaping how access control is specified, installed and used, when considering this type of solution the inevitable security questions arise around data management and protection. David Moran, Business Development Manager at Vanderbilt, examines how to get the most from the cloud and the ways to ensure it is as risk free as possible.

The internet protocol (IP) revolution has had a dramatic effect on the access control industry, allowing the development of new technologies that would have been unimaginable not so long ago. Now the cloud is playing a central role and Cisco predicts that by 2020, global cloud IP traffic will account for more than 92 per cent of total data centre traffic. This surge in cloud adoption also represents a huge uptake in spending by IT organisations, which Gartner predicts will carry out more than \$1tn dollars in IT purchases dedicated to the cloud by 2020.

Starter's Orders

Four to five years ago, cloud adoption was a low priority for businesses. This has changed dramatically with its potential starting to be realised as a central force driving commercial services.

To put this into perspective, the three most important elements to the success of any enterprise are customers, employees and profit. The most successful customer relationship management (CRM) package at the moment is from Salesforce.com, the most well known payroll human resources and accounting packages are from Sage and Workday.

Finally, profits end up in banks and companies are increasingly carrying out financial transactions online. The common factor between all of these packages and processes is the cloud – and it is having a positive impact upon access control too.

A cloud based access control solution will, of course, still require hardware – controllers, card readers, keycards, magnetic locks etc. – linked to a local area network (LAN) or GSM module. However, instead of being fed back to an on-premise server or PC, all information goes back to an off-premise cloud platform such as Microsoft Azure or

Amazon Web Services. All the information traditionally gathered by an IP access control system is then stored and retrieved via the cloud – in other words it could be considered to be access control as a service.

So far, so good – but what happens if the internet goes down? Obviously, the controllers won't be able to communicate with the cloud service but doors will still be secure and able to be used normally. Just as importantly, controllers can store up to 10,000 card holders locally including all access rights and data about who gained access and when. So, as soon as the internet is back online, all of this information is sent to the cloud and stored – ready to be retrieved as required.

Rules and Regulations

Data protection is a hot topic at the moment and security, legal and regulatory compliance, as well as data loss and leakage risks, are high on the list of barriers to cloud adoption, according to Cloud-Passage's Cloud Security 2016 Spotlight Report.

Enterprises are right to be concerned about this issue, as on 25th May 2018, the General Data Protection Regulation (GDPR) becomes European law. The primary objectives of the GDPR are to give citizens and residents control of their personal data and to simplify the regulatory environment for international business by unifying the regulation within the European Union (EU).

It requires any organisation that operates in the EU, or handles the personal data of people that reside in the EU, to implement a strong data protection policy, encompassing access, secure storage and destruction. It is all about a company's legal ability to protect data they hold on staff, customers and, in fact, anyone else that it deals with.

All Encompassing

The GDPR encompasses cloud, on-premise, the Internet of Things (IoT) and mobile – no matter where data is stored. If it meets the criteria of personally identifiable and relevant information then compliance is required and ignorance will not be considered a valid excuse.

It allows individuals to obtain and reuse their personal data for their own purposes across different services. It also includes the right to be forgotten, so that sensitive data that could prevent an individual getting a job, for example, must be removed. Furthermore, data controllers will have to be able to prove the 5W's:

- Why is personal data processed?
- Whose personal data is processed?
- What personal data is processed?
- When is personal data processed?
- Where is personal data processed?

The GDPR will introduce a duty on all organisations to report certain types of data breach within 72 hours to the relevant supervisory authority and, in some cases, to the individuals affected. Organisations that do not comply will be given fines of up to four per cent of global turnover or €20m – whichever is larger – and those that suffer a

data breach without having adequate measures in place will face the full force of the law.

Perhaps most worrying is that, according to a study by Symantec, 96 per cent of companies still do not fully understand the GDPR and 91 per cent of 900 businesses and IT decision makers polled in the UK, France and Germany have concerns about their ability to become compliant by the time it comes into effect.

Sticking Point

Installers who are trying to promote cloud-based systems can be met by what can be referred to as the 'folded arms gang'. Although less prevalent than they were a few years ago, these people are reluctant to entertain the cloud – primarily because they don't understand it.

Therefore, it pays to understand any security and governance requirements for a specific system and/or data store, so that minds can be put at rest. Many of those who deploy security around cloud or traditional systems don't understand what problems they are attempting to solve, so these should be defined up front.

End users often approach the cloud differently to other services and this can increase the instances of error so, ultimately, controlling access is as important as the location of the data. It is vital to look at how the data is accessed and by whom, and look specifically at whether there are opportunities for a breach that could be avoided. Most data breaches occur due to the exploitation of vulnerability, no matter if it's in the cloud or on-premises.

Prevention Is Better Than Cure

Cloud based systems are not inherently insecure but due diligence should always be carried out. It pays to ask questions about, for example, what measures a manufacturer takes to ensure that it is as secure as possible.

Some industry leading access control manufacturers go as far as employing professional hackers on a regular basis to try and penetrate their systems, so that they can then rectify any loopholes as soon as possible. Reputable manufacturers will also be prepared to give an in-depth appraisal of the mechanisms they have in place to keep information secure and, not only does it show that they take the issue seriously, end users can leverage these internal testing results for their own audits.

As cloud based information will be stored in a data centre, it is vital to ascertain where it is located and the physical and network security protocols the facility has in place. For example, Microsoft Azure data centres meet international and industry specific compliance standards such as ISO 27001, HIPAA, FedRAMP, SOC 1 and SOC 2, as well as country specific standards like Australia's IRAP, UK G-Cloud, and Singapore's MTCS. Furthermore, all data moving to and from its data centres is encrypted and if a user wants to access the data they have to go through an https:// password protected URL.

Whilst an important consideration, security should not prohibit the adoption of cloud based

access control. In many cases it will be more secure and well provisioned, and cloud services can deliver a range of great advantages including greater security, more resilience, ease of mobile user support, flexibility, reduced costs and an improved user experience. With cloud becoming increasingly reliable and secure, the benefits to organisations moving to the cloud for access control are becoming compelling.

Benefit Check

The cloud offers major advantages to both installers and end users. For the former, no server specifications, no SQL and no complex network routing makes it easy to install. Remote diagnostics, technical issues and servicing can be carried out from a web portal or smart phone. By simply logging in via a user name and password, it's possible to remotely view status, set and unset a system and access an event log. Last, but certainly not least, it provides an opportunity to earn recurring revenue by charging the customer for hosting, additional customer service and providing fully managed access control as a service.

Similarly, an end user can access its access control system from anywhere at anytime and on any device, and manage multiple locations seamlessly from one unified interface. On the financial side of things, there are no upfront server costs.

Competitive Edge

Security is obviously an important consideration, but it should not prohibit the adoption of cloud based access control. It is worth reiterating the role the cloud can play in optimising workflows and enhancing profitability. End users are already deploying their customer information, confidential employee data and cash transactions in the cloud, so it makes sense for their access control systems to be located there too.



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Packing a Picture Punch

Hikvision's H.265+ Codec Assists 4K Video Surveillance



Recently, ultra-high-definition surveillance cameras introduced 4K resolution to the security industry. However, 4K resolution has yet to achieve wide application, mainly because of the tremendous bandwidth and data storage requirements. Limiting the bitrate of an ultra-HD video feed while retaining a high-quality, 4K image remains the biggest problem, a problem whose solution will decide the fate of ultra-HD surveillance video. Jason Blandford, International Marketing Manager at Hikvision, gives us a technical look at the so-called H.265+ codec developed by his company.

Video transmission balances image quality, transmission capabilities and data requirements, i.e. how much information and how it's handled. Therefore, image transmission optimization lies in advancements in video compression technology. Until now, H.264 compression has been the industry-standard codec. When the H.264 codec found wide use, Hikvision developed its own compatible algorithm to go the next step, calling it H.264+. The next iteration in this codec lineage – H.265 – presently stands at the cusp of widespread adoption. And once again, Hikvision has already pushed this compression technology to a new level. H.265+ employs an intelligent algorithm whose encoding technology stems from the H.265/High Efficiency Video Coding (HEVC) standard.

H.265+ optimizes the existing codec most strikingly where specific criteria are met in a surveillance video feed. These criteria consists of 1) a stable background where information rarely changes 2) a primary focus on the objects moving across that stagnant scene 3) a substantial period of time where a scene's moving objects appear only occasionally and 4) 24-hour non-stop surveillance where visual noise has a relatively large impact on image quality. In this type of environment, field-tests show H.265+ radically decreases the

required bitrate of the ultra-high-definition surveillance video by up to 67% over H.265, thereby reducing required bandwidth and storage. Bitrate reduction means cost reduction for consumers, as well as increased efficiency, stability and reliability of all the hardware in a given surveillance system. Here's how it works.

Three Keys: Encoding, Noise and Bitrates

With ultra-HD resolutions and higher efficiency transmission as the two primary objectives, H.265+ improves the compression ratio based on three key technologies 1) predictive encoding technology based on a background or reference frame 2) digital noise suppression technology and 3) long-term bitrate control technology. Predictive encoding can be divided into "Inter-frame prediction," creating a prediction model from one or more previously encoded video frames and "Intra-frame prediction," where the samples of a macroblock (processing unit) are predicted by using only information of previously transmitted macroblocks of the same frame.

With inter-frame prediction, the bitrate can be reduced by compressing only the difference in rates between a reference frame and any other frame. This reference frame – usually the back-

ground of a scene – will contain few if any moving objects. Fortunately, in most security surveillance images, the background remains static.

In a traffic intersection field-test, three unique frames are analyzed from a video feed. The first frame is the empty intersection (T0), the second two (T1 and T2) include a moving object – in this case, an automobile. The first image gets encoded as the reference frame; thereafter, reference frame data no longer needs to be sent or stored with every frame. This liberates the VMS to follow moving vehicles only, since new data (bits) will not be required for each frame capturing the background. The requirement for bits, bandwidth and storage immediately drop. In the case where a strictly empty background or reference frame cannot be captured, the alternative is to encode two or more frames that might include a moving object. Intelligent software can fill in spaces that are vacated by those moving objects with similar information found in the immediately surrounding space. Thus, bitrate usage can be lowered while guaranteeing normal playback for the user.

Selective Encoding Strategy

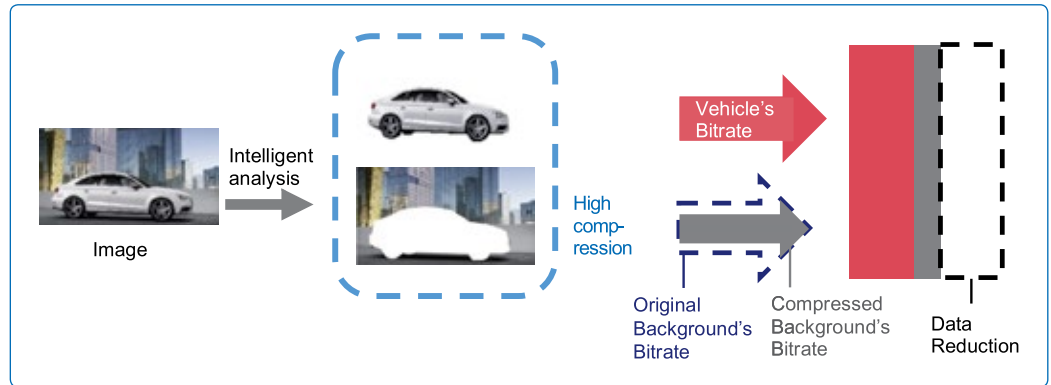
In order to guarantee a high image quality of moving objects, the encoding module also encodes the visual noise in the scene. However, using the

predictive encoding methods mentioned above, the H.265+ intelligent analysis algorithm distinguishes between the background image and moving objects so that each can be encoded with different encoding strategies. A background image is encoded with high compression in order to suppress noise and applies data to new or moving objects. Since data transmission is limited, the overall bitrate dips substantially when compared against conventional video compression.

Hikvision has introduced a concept it calls 'Long-Term Average Bitrate' to make full use of a data from a video feed. Long-Term Average Bitrate calculates the rates over a specified time period (usually 24 hours). With the average bitrate control, the camera can assign higher bitrates to busier hours while reducing it during idle hours, midnight to 6 AM outdoors or 8 PM to 7 AM in an office, for example. In the case of a constant bitrate mode for H.265 encoding, the bitrate varies slightly but stays near the predefined maximum bitrate value. Using H.265+, average bitrate can be as low as half of the maximum bitrate. Image quality can still be optimized since the H.265+ technology makes full use of every bit (Fig. 1).

In variable bitrate mode, the instant bitrate varies according to a scene's activity, while the image quality remains steady. Employing H.265+, the bitrate change can take two courses 1) if the configured average bitrate value is limited, H.265+ encoding can provide a better image quality within the limited bitrate and 2) if the configured average bitrate value is high for the scene being monitored, the actual average bitrate – the actual amount of data used – can be lower than the predefined value, lowering the total data storage requirement.

A bitrate-reduction test was conducted, based on cameras featuring 1080p resolution at 25 fps. The scene was a small café under video surveillance feed for a 24-hour period. Testing the same scene – a busy café – at different times of day, showed that the rate difference between codecs appears less significant as the number of moving objects in the scene increases. Nevertheless, the numbers are still remarkable. The average bitrate between H.264 and Hikvision's



Selective compression according to image content

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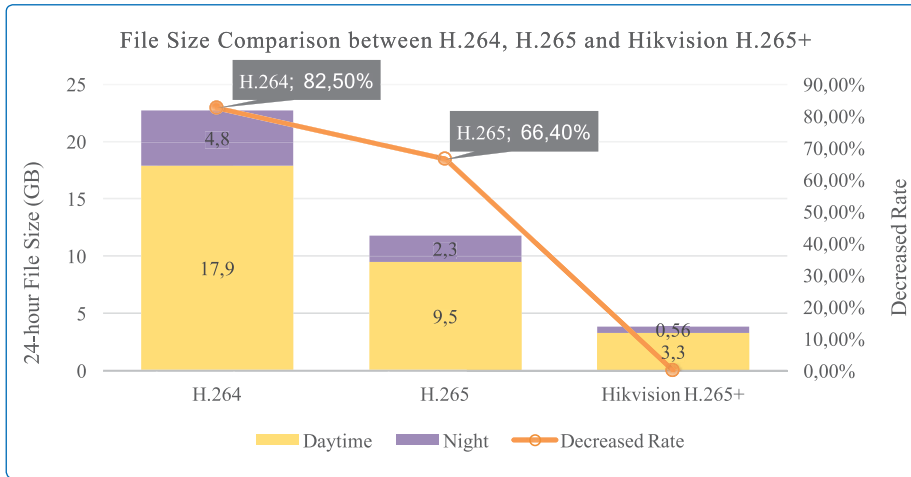


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Bitrate comparison for the 24 hour café test

H.265+ decreased by a substantial 83%. The rate between the standard H.265 and Hikvision's H.265+ codec decreased by 67%, a smaller difference but nonetheless significant when applied to real-world surveillance systems.

24-Hour File Size in Different Scenes

In a discreet 24-hour file size comparison of two different scenes, drastic reductions were plain to see. Scene one was a café, where the H.264 codec yielded an average of 22.7 GB and H.265 yielded 11.8 GB on average. Hikvision's H.265+ averaged only 3.9 GB. Scene two was a traffic intersection. Here the 24-hour file size comparison yielded similar results. H.264 averaged 36.4 GB, H.265 averaged 21.1 GB and H.265+ averaged the lowest bitrate again at only 7.5 GB.

Here are in those numbers in percentages. In the café monitoring scenario, the rate of the 24-hour file size between H.265 and Hikvision H.265+ decreased by 66.4%, while the rate between H.264 and Hikvision H.265+ decreased by a substantial 82.5%. For the traffic intersection monitoring, the rate of the 24-hour file size between H.265 and Hikvision H.265+ decreased by 64.5%, while the rate between H.264 and Hikvision H.265+ decreased by 79.4% (Fig. 2).

Improved Bandwidth, Storage, Imaging and VCAs

H.265+ makes the best use of every bit, so HD and ultra-HD resolutions looks as clear, sharp and focused as possible. Also, as H.265+ improves image transmission, target objects will have more pixels so the use of VCAs will arguably become more precise, more accurate. A network utilizing H.265+ has more bandwidth available at any given time. More bandwidth means better system functioning all round. In real terms, on a 20 Mb broadband network, the H.264 codec can accommodate five cameras. H.265 doubles that, carrying the load of 10 cameras. But H.265+ doubles even that, accommodating 20 or more cameras on the single network. Therefore, H.265+ will be the best choice for users expanding an installation and moving to 4K at the same time.

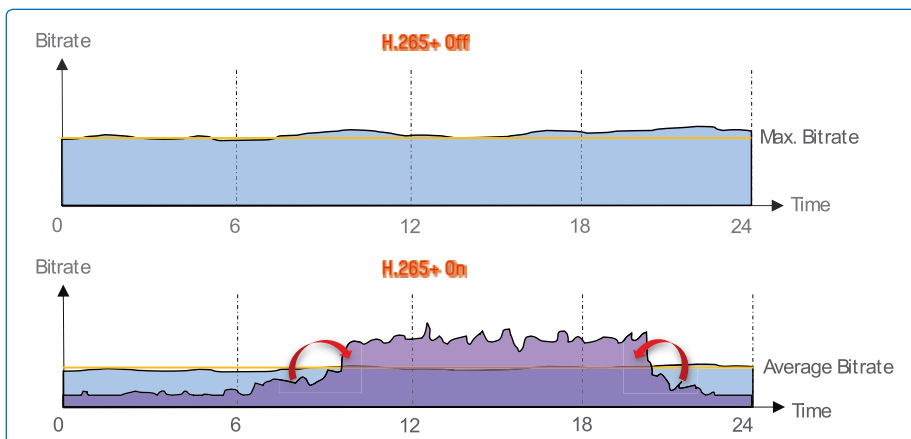
Users can reduce costs and other resources involved in storing video-feed data. Here's another scenario: when eight 2-Megapixel cameras are connected to a network and a storage device holds five 5-Terrabyte hard drives, recording capacities vary significantly. A system running on H.264 will hit its storage ceiling in about two weeks. H.265 will do a bit better, filling up after about one month. Hikvision's H.265+, however, will contin-

ue recording up to about two full months. When considering these results on a monthly or annual basis for budgeting expenses and hardware allocations, H.265+ reduces expenditures all around. While the jump to H.265+ might be slow initially, the benefits will prove advantageous far into the future (Fig. 3).

Applications Are Everywhere

The applications here extend at least as wide as those of any previous codec. However, under conditions like an unstable network or limited bandwidth, or where customers are required to store data for extended periods of time, H.265+ will be most profoundly effective. Furthermore, this codec can be integrated into comprehensive security solutions for specific functions – 4K, Panoramic and explosion-proof cameras, ultra-low light products and anti-corrosion products are a few examples.

As with any new technological improvement, industry-wide upgrading from current or legacy standards requires investing time and resources. For H.265, migration is accelerating, primarily in newly designed systems since upgrading existing H.264 systems only increases expenditure. H.265 will become more desirable to system integrators and end-users since its decreased bitrates yield high-definition resolutions and images come through more clearly. Added to that, target objects can be isolated and enlarged with more clarity and more accurate VCAs can be employed. So in summary, wherever it is applied, this new codec will cut storage costs, make the fullest use of surveillance video investments and broaden the use of 4K and ultra-HD security video.



The average bitrate sinks over a 24 hour period

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Professional Monitor Range

Especially designed for security surveillance and control center environments, Hikvision has launched a range of professional LED-backlit TFT LCD monitors. Featuring industry-grade panels, the range includes 19", 21" 32" and 42" models. They have a wide, 170 degree viewing angle for flexible monitor positioning and viewing and have a quick response time. Interfaces include HDMI and VGA inputs, with BNC (Loop) and DVI inputs on some models. 12VDC or 230VAC powered, they are simply integrated and compatible with analogue cameras and DVR/NVRs. The company has also released the DS-D5019QE, an economic 19" LED backlit monitor with 1366x768 HD resolution widescreen monitoring and ultra-high 100,000,000:1 dynamic contrast ratio.



www.hikvision.com

Integrations and Architecture Heighten Security

Pelco by Schneider Electric has announced the latest enhancements to its Videexpert video management system. Advances in system navigation have been made to ensure simple set-up and ease of operation for any size deployment, along with numerous integrations which allow the management and control platform to be highly customized to meet users' specific needs. Built on a powerful open architecture platform, the product enables third-party applications such as video analytics, license plate recognition and point of sale to be cost-effectively integrated for highly specialized deployments. Fault-tolerant software, distributed architecture and multiple levels of redundancy ensure high reliability.

www.pelco.com

Compact and Intuitive Smart Switches

Moxa has launched its SDS-3008 smart switch, a product line within its industrial Ethernet switch family. The smart switches offer an intuitive one-page dashboard, which allows users to activate pre-configured IA protocols in one click, simplifying HMI/SCADA integration. The switch has 3 pre-configured protocols, 2 installation methods and a one-page switch dashboard. It should be an ideal solution for the manufacturing industry, especially machine builders who are on their way towards the IoT and industry 4.0. The Smart switches support Ethernet/IP, Profinet and Modbus/TCP industrial protocols, and the configuration can be done in one click via the smart UI.

www.moxa.com

Power and UHD 8MP Video Over Coaxial Cable

Hikvision has announced that its Turbo HD 4.0 range, with ultra-low light performance and the ability to send power as well as 8MP video images over conventional coaxial cable, will be available from Q3 2017. The products take advantage of the company's H.265+ video compression technology, which provides savings on both bandwidth usage and storage requirements. The first products available will be 8 megapixel box and varifocal bullet cameras and DVRs with 4K UHD HDMI outputs. IP, analog, Turbo HD and third-party AHD cameras are all supported, providing a flexible upgrade path. The range not only supports the latest generation H.265 video compression standard, but also the company's proprietary H.265+ video technology.

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CYBER SECURITY

It All Comes Down to Defense

The Capabilities of Surveillance Devices



With the Internet of Things (IoT) growing in use across cameras, appliances, industrial machinery, vehicles, and smart home technology, malware has many more devices to both target and launch cyber-attacks from than ever before. Consequently, a major concern of the industry grounds on reoccurring cyber-attacks.

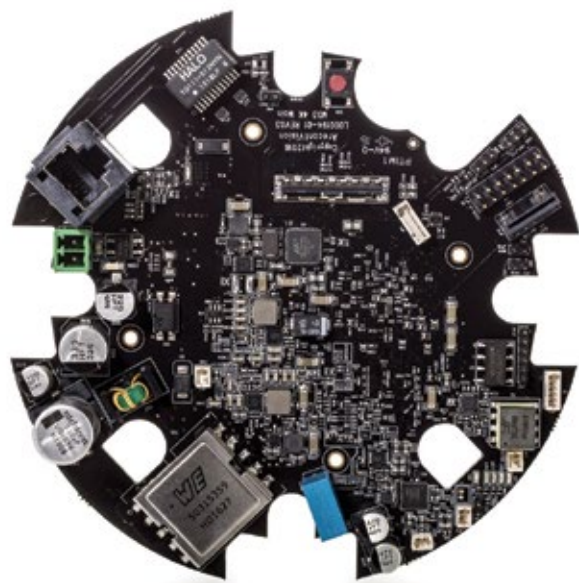
The sophistication of cyber-attacks and the types of devices involved are both increasing in number and evolving in complexity. Instead of traditional IT devices, a lot of attacks target network cameras and digital video recorders – loose ends of a security system. Transforming those devices into robotic attackers or “bots” by an infection of Mirai malware, they were generating Distributed Denial of Service (DDoS) attacks, keeping the targeted websites so busy that they were unable to respond to legitimate user requests.

In October 2016, a well-publicized DDoS attack impacted up to 85 web services for an eleven-hour period. Users across parts of North America and Europe were unable to access Amazon, the Financial Times, Netflix, PayPal, Reddit, Spotify, Twitter, and several other well-known services. Beyond the impact on user convenience, an estimated \$100M USD loss in revenue resulted from the attack, leading to both the FBI and Homeland Security become involved in the investigation. It is crucial that the security industry is committed to providing cyber security protection. Arecont Vision for

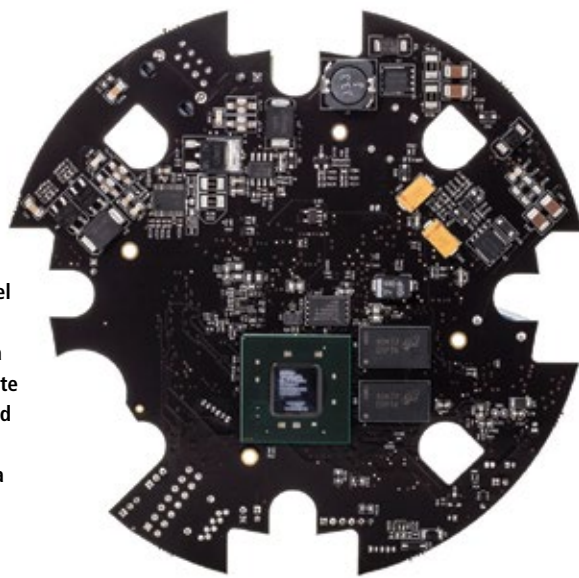
example focuses on the cyber security for their IP network cameras, and they inform about unique cyber benefits of their cameras, the nature of the attacks, and recommendations for our customers.

The Challenge for Security Manufacturers

Many manufacturers of security cameras have typically considered their products to be edge devices, relying on the IT department to provide the necessary network protection, limiting access only to those authorized while excluding external threats.



Arecont Vision's Parallel Image Processing architecture runs on a Field Programmable Gate Array (FPGA) integrated circuit (IC) in each Arecont Vision camera



Today more manufacturers and their customers are aware that anything connected to the network requires cyber security protection.

One challenge for manufacturers of network-enabled security products is to balance ease of installation and ongoing operation with the protection of the device, the network, and the connected infrastructure.

A product with extremely strong cyber security protection may turn away customers by being too restrictive or complex for their needs when setting up or during ongoing operation. Equally important, a product that is exceptionally easy to setup and administer may be a gateway to cyber-attack. Finding the balance between these two factors while meeting the requirements of IT is a challenge to be solved by manufacturers since not every organization has identical needs.

Arecont Vision addresses this challenge with user IDs/passwords and their own in-house designed architecture. Their cameras feature the ability to set user IDs and 16 digit ASCII passwords (use of which is recommended) for basic cyber security, and they provide systems integrator and customer training on best security practices through Arecont Vision University.

As further protection, the design of all Arecont Vision cameras differs from competitor offerings. Arecont Vision's Massively Parallel Image Processing architecture runs on a Field Programmable Gate Array (FPGA) integrated circuit (IC) in each Arecont Vision camera. This ensures that the camera cannot be used as a platform for cyber-attacks.

Considering Cameras

Organizations continue to rely on Arecont Vision cameras to not be hacked and repurposed in cyber-attacks on other networked devices. Arecont Vision cameras will therefore continue to balance the user experience with appropriate cyber security, including the recommended use of 16 digit ASCII passwords after the camera is configured for use by the installer. No device should be connected to the network without this capability enabled, including surveillance cameras. Users should be aware that Cameras which cannot be updated with the latest product features and security updates from the manufacturer should not

be part of the network and should be replaced. Also, operating systems with known security risks on the camera should not be part of the network and should be replaced. Customers should employ best practices in cooperation between the IT and security departments for basic cyber security. Having a cyber security action plan that is tailored to the needs of the organization is important. Employee education is another key to cyber security, and should be

a part of ongoing employee development. The Arecont Vision Try-and-Buy program for example ensures to obtain and install an Arecont Vision camera risk free for a trial at the customer site.

To find out more about Arecont's cameras and latest ideas about Cyber Security, check out their whitepaper, which provides further information on their products: www.arecontvision.com/whitepapers/#

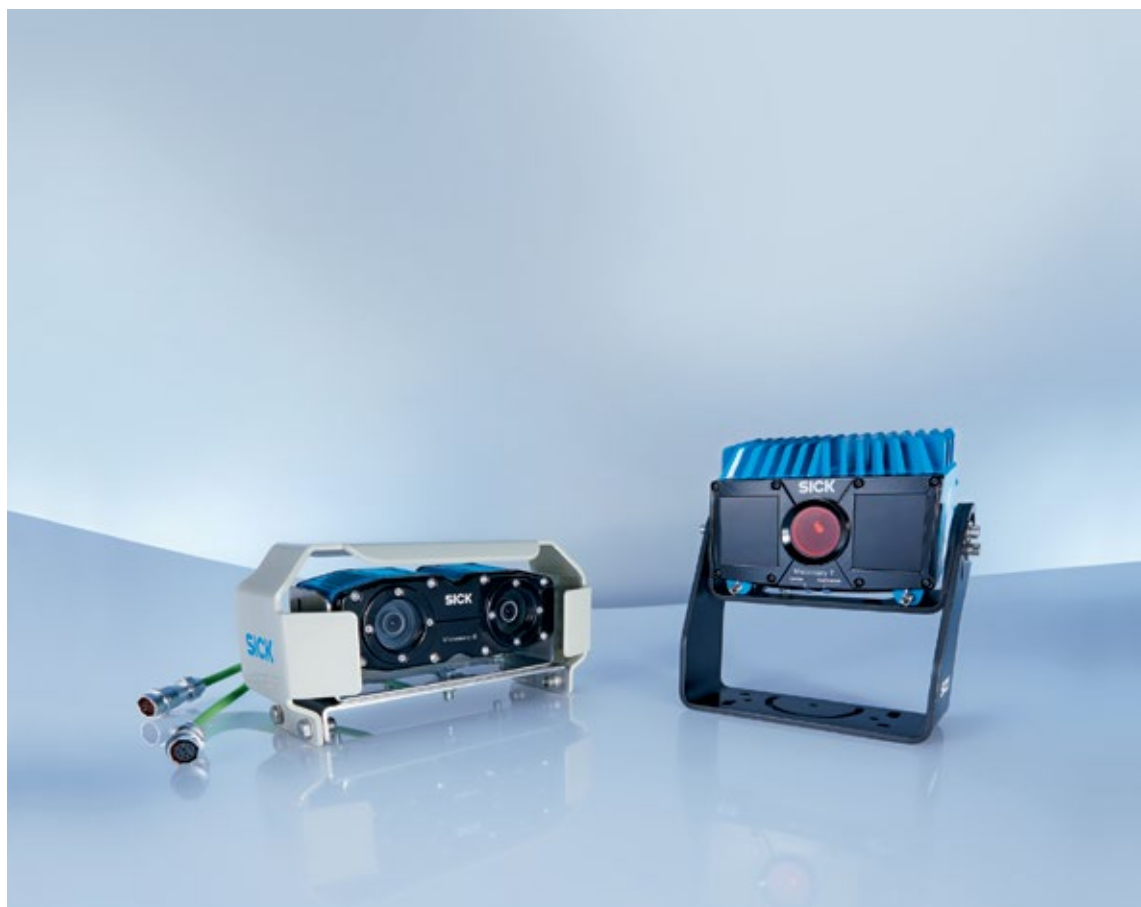
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VIDEO SURVEILLANCE

Icy in 4K

SCL Tigers Score Points on Security with a Panasonic Surveillance System



The SCL Tigers ice hockey team have a firm grip on their opponents and the safety of their visitors too. The Swiss Ice Hockey Federation (SIHF) sets out regulations focusing on the safety of people and the security of the building. The Ilfishalle, the home base of the SCL Tigers, one of Switzerland's most traditional ice hockey clubs, is secured using a Panasonic video surveillance system.

The SCL Tigers, based in the Ilfishalle in Langnau i.E., have been an established name in the Swiss ice hockey scene since 1964, currently playing in the National League A, the top division in Switzerland. Various incidents in the past have prompted the Swiss Ice Hockey Federation to impose regulations with regard to safety and security in and around the stadium. Peter Müller, CEO of the SCL Tigers, explained: „The stadium operators must be able to review the video material of the stands and the areas outside the stadium within hours of the incident taking place.“

When asked why the Ilfishalle opted for a complete video surveillance solution from Panasonic, Peter Müller replied: „Value for money was a key aspect, and Panasonic provides exactly what we were looking for. For us, it's important that we invest capital in the best way possible and get the most out of it.“

4K Technology

Panasonic 4K cameras capture an area which is four times larger than 1080p and nine times larger than 720p cameras. Equipped with a 6x optical zoom, the images allow objects and people to be clearly identified. 4K WV-SFV781L vandal-proof dome cameras were installed above the spectator stands where they monitor the area opposite as well as the sides of the stands. The entire length of a stand can be monitored with just two cameras. The side stands and fan curves are each monitored



Panasonic video surveillance fulfills the requirements of the Swiss Ice Hockey Federation. Stadium operators can supervise the areas outside the stadium and SCL.

with one 4K camera. Even the tiniest detail is recorded and documented precisely. A wide image angle is important, and the cameras with 4K resolution deliver sharp images in all areas, whether in the center or in the corners. This is possible even at a distance of over 50 meters between the camera and spectators.

Vandal-proof Full HD Fixed Dome vCameras

The vandal-proof WV-SFV631 full HD camera is ideal for monitoring smaller corners and areas. With auto back-focus and remote zoom features, installation is made easier because the camera can be set up with a laptop or from a PC. In the

event of a camera defocus, the problem can easily be rectified without the use of a ladder. A depth of field feature – encountered in photography – ensures that both close-up and long-distance images are sharp at all times.

Monitoring outside and inside the stadium is achieved with the WV-SW598A, a full HD IP dome camera with PTZ function. This model provides a 30x optical zoom and also features a vandal-proof IP66 housing. With a 128x dynamic range, the camera produces sharp day and night images and offers excellent performance even in rain, snow and fog, thanks to analytics. The special dome uses rain wash technology.

Video recording

The Panasonic WJ-NV300 NVR, to which up to 32 video channels can be connected, is used for recording. Live recordings at 30 fps are possible on all channels. An additional monitor can show the entire ice hockey game as an overview via the built-in splitter. Searching for or exporting photos or video sequences is very easy and can be done on the recorder itself or on a network PC.

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www.business.panasonic.co.uk

CPD Accreditation for Training Courses

Apollo Fire Detectors has achieved Continuing Professional Development (CPD) accreditation for two courses offered by the company. They aim to boost the understanding of how different sensors, conventional systems and analogue addressable systems work, and provide information on the EN54-23 standard for the use and function of VADs. The newly-accredited courses are the six-hour 'Fire Detection and System Principles – Product Training Course A' and the one-hour seminar 'Introduction to EN54-23' which provides information on the EN standard for the use and function of visual alarm devices within automatic fire alarm systems. apollo-fire.co.uk

Expanded Range of Network Illuminators

Raytec have launched the Vario 2 IP and Vario 2 PoE to provide purpose-built lighting solutions for network applications and enhance the existing range. Both products feature Platinum Elite LED technology, delivering up to 200% more power, distances up to 500m from a single LED panel and more light output. Vario 2 IP is a range of fully IP-addressable network illuminators that can be operated remotely via a user-friendly GUI or be fully integrated with 3rd party platforms or network devices to deliver an automatic lighting response to different events or alarms. Vario 2 PoE is a simple and low-cost lighting solution that can be powered easily from existing network infrastructure. www.rayteccctv.com



Improved Video Intercom System Functionality

Aiphone has updated its GT video intercom system with a high resolution camera and a 7" LCD monitor screen. The video intercom system is flexible and easy to use for anything from small multi-tenant buildings to large private housing developments with up to 500 video intercom stations. It has proved popular with installers needing a cost-effective and aesthetically attractive solution for commercial buildings, education campuses and healthcare environments. Wyatt Taylor, Sales Manager of Aiphone UK said, "We have just released an upgraded camera unit and new monitor stations that take advantage of the clearer picture. We are also planning to introduce an IP expansion and re-designed entrance station panels during summer 2017." www.aiphone.co.uk



Giesecke+Devrient Mobile Security Shows TAK Application Security Solution

The Trusted Application Kit (TAK) developed by G+D Mobile Security is an application security framework for mobile operating systems such as Android and iOS. Using TAK, developers can quickly and efficiently incorporate advanced security functions into their applications during the design process. It provides robust security without impact to app development time or the user experience and is therefore an ideal solution for all security-sensitive applications such as mobile payment, mobile transit or ticketing. www.gi-de.com

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While Cayuga now includes the support of the new H.265 streaming standard as well as bidirectional audio, BVI provides a new dashboard to visualize transaction and process data in real-time.

VIDEO SURVEILLANCE

Keeping an Eye on the Essentials

SeeTec has Announced R10 of their Cayuga and BVI VMS Solutions

VoIP-based communication has already been possible with SeeTec Cayuga using a SIP server. With the release of R10, bi-directional audio connections directly to the camera are now implemented as well. Many IP cameras already have built-in audio functionality, such as an integrated microphone or a line output. Cayuga now offers direct voice communication in both directions, without the need for additional software components. For example, an employee in the control room can now remotely evaluate a critical situation much better, especially as he can directly communicate with a person on site. This ability is particularly useful in combination with access control solutions, entrance doors or gates. Voice communication is supported with Axis devices as a first step, while the support of further manufacturers' products is in preparation.

Cayuga R10 now supports the transfer of image streams based on H.265/HEVC for many

manufacturers. Compared to MPEG-4, this new streaming standard reduces the required bandwidth by up to 50 % while keeping the same image quality, thus saving network resources and disk space. While Cayuga is primarily designed as a classic security application, Business Video Intelligence (BVI) can be used to combine video and transaction data, for example from PoS systems or scanners, enabling the gapless visual monitoring and documentation of business processes.

Added Value

The new R10 release creates visible added value for the user: transaction data and process data can be displayed graphically in dashboards in real-time with the recently developed visualization component. Predefined key performance indicators (KPIs) can be visualized quickly and easily using several diagram types, so deviations or recurring patterns become immediately apparent. An example from

the logistics sector: the head of a distribution center can recognize irregularities at an early stage when loss or damage occurs in his facility – even remotely via smartphone or tablet.

Customers holding a software maintenance agreement can retrieve and install the update to Cayuga R10 and BVI R10 either via the Auto Updater or manually. SeeTec also offers a free demo version of Cayuga on the company website.

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G-Health clients are categorized according to their locations (sites) and can be configured with appropriate access rights

VIDEO SURVEILLANCE

Proactive System Analysis

A Software Solution Provides Automatic Control of Geutebrueck Video Security Systems

With G-Health, Geutebrueck is providing a significant enhancement to the security level of its customers. The new solution monitors the performance data of video systems and automatically logs critical states. As a result, component failures that affect the functioning of the video solution are detected more quickly and reliably.

The monitoring software package supports the various operational rights of administrators, maintenance technicians and advanced users to constantly monitor the functions of a Geutebrueck video security system efficiently and with minimal time commitment. As soon as a critical condition is detected in a G-Scopes or Geviscope – for example a camera failure or database error – an e-mail or an alarm notification is issued in the G-Health web interface, locally or remotely on your smartphone. In addition, access is granted to all system parameters at all times, so you can proactively and preventively identify if malfunctions can be expected in the foreseeable future.

The data collected makes it possible to locate the cause more precisely as well as the affected

component. The responsible employee is able to arrive quickly with the right spare part at the right location, and the system can be put back into operation in the shortest time. For users, this means lower service costs combined with faster restoration of operation, for example, if production or logistics were to be affected by the disturbance.

Analysis Stats

The system is simple to install and integrate into new and existing systems with up to 1,000 NVRs.

It has a comprehensive, user-friendly rights management structure, which provides effective protection against unwanted external access. Another useful feature is the integrated statistics and history display with various display filters –

extremely interesting for long-term analysis of the functionality of a system. A user-friendly web interface provides performance analysis, overview functions and status displays as well as easy configuration of health alarms, rules, client and priorities.

Photos: © Geutebrueck

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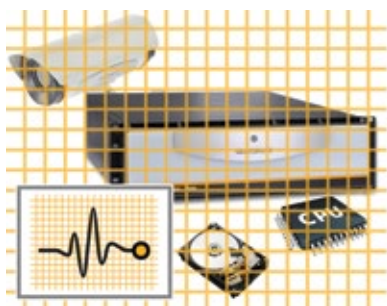
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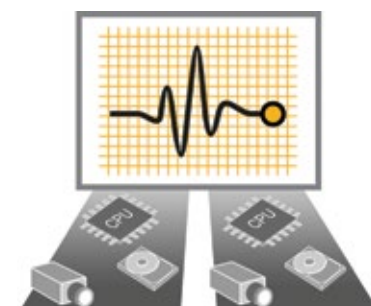
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G-Health Monitoring provides functional test, remote diagnostics and maintenance in a time-saving and highly efficient package.



The G-Health monitoring software package constantly monitors the operating parameters of the video security system and provides automatic notification of critical states

Free Video Management System Viewer

Bosch has expanded its range of VMS software with the introduction of the Windows-based BVMS 7.5 Viewer – a variant aimed at small and medium-sized applications and supporting up to 16 video cameras and five recording devices. This entry-level and free of charge version of the company's existing VMS enables small business owners to view multiple live video streams of their surveillance cameras in high resolution on their computer screen, with recorded video replay and forensic search of recordings. The viewer can be downloaded free from the Bosch website. The motion and forensic search function enables even a huge recording database can be scanned for a specific event within seconds.



www.boschsecurity.com

IP-based Video Intercom System

Panasonic has launched a full IP video intercom system aimed at meeting the increasing demand for integration between different building systems. The VL-VN1900 works with a wide range of devices, including networked CCTV cameras, SIP phones and network video recorders. Using Power over Ethernet, the system can be connected using a single cable, reducing installation complexity and cost. The system supports up to 2,000 SIP devices using standard PoE. The IP-based system can support multiple sessions at once, unlike incumbent analogue intercom systems. A new room monitor, the VL-MN1000, is a 7-inch LCD capacitive touch screen which connects to a Panasonic IP camera, as well as integrating with electronic locks. There's also extensive recording functionality.



business.panasonic.co.uk

New Generation Video Management System

Mirasys, a supplier of open platform video management and visual intelligence solutions, has launched the Mirasys VMS V8. The product scales to different size environments and offers several additional applications that improve the efficiency of customers' daily operations. Special attention has been paid to efficient centralized maintenance and management required by networked video management systems. Ready-made templates speed information input to the system and installation work. User profiles are easy to create, manage and modify. Servers can be pre-configured before delivery on site, and pre-installed and pre-configured cameras and applications on servers save time.

www.mirasys.com

Lock Technology Integrated with Access Control

The recently established technology partnership between Assa Abloy and Tyco Security Products has resulted in the successful integration of Aperio wireless lock technology with the CCURE 9000 security and event management system. The wireless locks communicate via iSTAR Ultra door controllers and provide the flexibility to expand an access control system to cover virtually almost every opening in any environment. The locks can be added easily to an existing system with little or no disruption. Online transactions update the management system in real-time, guaranteeing a high level of control and visibility of door activity and AES 128-bit encryption ensures data security.



www.swhouse.com

Uhlmann & Zacher: Electronic Door Fitting at SecurityExpo Munich

Uhlmann & Zacher participated in the SecurityExpo in Munich and presented new and innovative products from the world of electronic locking systems. One innovative product is the electronic door fitting with short plate CX6174. This product extends the product range of Uhlmann & Zacher and is characterised by its well thought out concept and sleek stainless steel design, which allows it to easily adapt to the architecture of new and existing buildings. The complete electronic system, power supply and LED signalling have been built into the compact space of the door handle. The installation can be done without any special tools or wiring and it can thus be installed quickly even by unskilled persons. Different handle shapes provide additional customisation. In addition, the company will present the new generation of Clex compact knob cylinder CX6162. Due to its compact size, it is especially suitable for tubular frame doors with small backset and it can be installed in almost any door.



www.uundz.de

Vanderbilt Integrates ACT Enterprise and Eventys for a Security Management Solution

The latest product offering from Vanderbilt blends access control with video management, as ACT Enterprise now supports integration with Eventys EX Network Video Recorders (NVRs) that record up to 16 IP cameras. Now, cameras connected to the NVR can be associated with access control doors. Any events recorded in the access control log such as 'access denied' or 'door forced' can be linked with the associated footage stored on the NVR. Events on a door with a camera associated will display a camera icon, where a click on the icon will replay the relevant footage.



www.vanderbiltindustries.com

Fiber and Ethernet Network Infrastructure

Altronix had a busy ISC West in April, highlighting three network equipment



ranges. The Netway Spectrum Series of advanced hardened PoE switches and Ethernet-over-fiber converters accommodate single or multi-mode fiber, as well as composite cable, which combines fiber with copper, to simultaneously deliver low-voltage power and data at distances up to a mile. The series includes rack-mount media converters for head-end installation, as well as a wide range of indoor and outdoor models with SFP Ports for remote deployment and embedded LINQ technology for remote monitoring, control and reporting of power/diagnostics from anywhere over the network. The Netway8E Endspan features an integral PoE switch with two 1 GB uplinks and eight gigabit Ethernet ports. It provides up to 30W full power per port to support PoE or PoE+ devices, is equipped with both remote management capabilities and the ability to remotely reset IP devices. The 1U ebridge800E is an ideal head-end solution to integrate coax infrastructure with IP devices such as cameras and accessories.

www.altronix.com

FIRE STANDARDS

Baptism Of Fire

FIA Reveals New Qualifications for the Fire Detection and Alarm Sector

The Fire Industry Association (FIA) has revealed that it will be offering four new qualifications for the fire detection and alarm sector, available as from early July. Working in combination with employers, recruiters, member organizations and learners, the FIA identified four main areas of study, related to specific job roles, and developed the qualifications around the precise needs of each one.



Ian Gurling, Awarding Organization Manager, FIA AO

The four new qualifications are designed to reflect the four main job roles of the sector – Designer, Installer, Maintainer and Commissioner – with one qualification for each. The FIA has released a video with the slogan ‘Change is good’ on their homepage and YouTube channel to help showcase and introduce the new qualifications and the need for the industry to evolve with a higher level of professionalism.

The qualifications, which have taken years of research, have been designed to give those working in the industry (or those just joining or wishing to join) a professional in-depth knowledge of their specialist field, and are a Level 3 on the Regulated Qualifications Framework (RQF), equivalent to an A-Level or NVQ Level 3. In addition, the new qualifications are equivalent to a Level 4 on the European Qualifications Framework – one level higher than that specified in the newly released Standard, EN 16763 - the services standard that specifies the minimum level of education for those working in the fire and security services sectors.

Beneficial All Round

“Our members and learners have very much guided us in the process of designing these new qualifications. Through surveys and feedback,



The qualifications reflect the four main job roles of the fire prevention industry

we’ve kept an open dialogue with the industry to create qualifications that will be hugely beneficial to both learners and employers,” said Ian Gurling, Awarding Organization Manager for the FIA AO. “It became important early on to us to design new qualifications that cover a wide range of theory, but in a way that is relevant to each individual job role within the fire detection and alarms sector.”

Each qualification pathway begins with a Foundation unit, which gives learners a thorough understanding of the relevant standards and best practice for the industry. Upon passing this, learners can then progress through the other units before choosing their final unit from a choice of four, which will qualify them in their chosen area (this

could be in Design, Install, Maintain or Commissioning).

Approved Qualifications

“In order to create these qualifications, we had to set up an Awarding Organization, to formally recognize the qualifications, and register the new qualifications with Ofqual,” said Ian Gurling, Awarding Organization Manager for the FIA AO. “The new Awarding Organization, I’m proud to reveal, is called the FIA AO – the Fire Industry Association Awarding Organization.”

The qualifications in design, installing, maintaining, and commissioning fire alarms will be available nationwide at a range of centers in England, Scotland, Wales, and Northern Ireland and are approved by the relevant government bodies for official qualifications in each country. The FIA will be officially launching the qualifications at their stand at FIREX International (20th-22nd June at Excel London), where visitors can pick up a brochure, ask questions, or listen to one of the FIA’s seminars to find out more.

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www.fia.co.uk

FIRE DETECTION

Iconic Development

A Large Bulgarian Project Includes Apollo Fire Alarm Components

Nearly 500 devices from the Apollo XP95 Fire Detectors range have been specified for a new office, meeting and leisure development in Bulgaria's capital city of Sofia. The Collider Activity Center is located within the Mladost area on the edge of central Sofia and its modern design draws upon the local mountainous landscape for its inspiration. The Center is equipped with the latest technology and needed a fire detection system that could meet all of the challenges of a modern, large multi-purpose space.

A low-profile XP95 optical smoke detector raising the alarm

The Center provides formal and casual meeting spaces, offices, restaurant and bar amenities and leisure facilities including a climbing area, bouldering room, multi-purpose sports rooms, fitness spaces, spa and a swimming pool, ensuring a comfortable environment for all visitors.

Pissat Engineering was awarded the contract for the design of the fire system for the new development, with devices fitted by its installation partner Elve. The resulting fire detection system comprises nearly 500 devices that have been in-

stalled to protect the site, its staff and visitors. They include 300 XP95 optical detectors, 90 XP95 heat detectors, 50 manual call points, 30 XP95 open area sounders and 20 input/output modules, all from Apollo.

Low Profile

The XP95 range encompasses a number of features that make it ideally suited to large-scale installations such as this center. The established intelligent technology offers reliability that has been proven repeatedly in the field. Physically,

the detectors have been designed to have a low profile, which allows them to blend unobtrusively into the surroundings. They have an ionisation and an optical smoke detector, a heat detector and a multisensor and use the same open, digital protocol as all Apollo intelligent detectors, which means any XP95-based system is simple to extend or upgrade. The fire detectors are robustly designed, can operate over a wide range of temperatures and humidity levels and include features designed to minimise false readings caused by dust or vapour, including drift compensation.

Speaking about the specification for the project, Jivko Dinev from Pissat Engineering said: "We chose Apollo detectors because of their 10-year warranty, open protocol system and proven track record of reliable installation." Sales and Marketing Director at Apollo Fire Detectors, Ed Browning, added: "We were delighted to have been chosen to protect such an iconic new development. The Collider Activity Center is a beautiful building with great architecture and we're proud to have been involved in this exciting Bulgarian project."



The iconic multi-purpose building is now protected by Apollo devices

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FIRE MANAGEMENT

Fire Safety With Future Potential

Can Integrating Fire Safety Management with Building Control Really Be Achieved?

Until fairly recently, automated central control of building-wide systems was found only in larger commercial buildings and expensive homes. Typically involving only lighting, heating and cooling systems, building automation rarely provided more than basic control, monitoring and scheduling functions and was accessible only from specific control points within the building itself.

Whilst full integration of these technologies is some way off, automation increasingly gives access to control devices from a mobile device anywhere in the world. The term may be used for isolated programmable devices, like thermostats and sprinkler systems, but more accurately describes buildings in which nearly everything – lights, appliances, electrical outlets, heating and cooling systems are hooked up to a remotely controllable network. From a security perspective, this also includes the alarm system, and all of the doors, windows, locks, smoke detec-

tors, surveillance cameras and any other sensors that are linked to it.

The other main characteristic of cutting-edge building automation is remote monitoring and access. While a limited amount of one-way remote monitoring has been possible for some time, it's only since the rise in smartphones and tablets that we've had the ability to truly connect to our business networks while we're away. With the right home automation system, you can use any Internet-connected device to view and control the system itself and any attached devices.

But how much thought have you given to the vast potential this advanced online connectivity also brings you for a more efficient workflow and added value for businesses?

Building Management and Fire Safety

The potential for Fire Safety solutions being integrated with building systems management and maintenance is immense. Its purpose is to control, monitor and optimize building services whose scope you encounter every working day: Lighting, Heating, Security, CCTV and Alarm systems, Access

Control, Audio-Visual and Entertainment systems, Ventilation, Filtration and Climate control. Even Time and Attendance control and reporting (notably staff attendance, movement and availability) fall in that area.

And it is this potential for integrating Fire Safety System design and Building Management that has driven the latest development in Life Safety System Management.

Seamless Integration and Interconnectivity

With the Taktis fire safety technology, which is already exciting fire professionals, building systems and facility managers, Kentec are taking a step forward to make complex solutions simple and understandable. This new management platform combines the latest hardware and software to produce a control and indication system that's designed to add value to System Designer, Integrator, Service provider and the end user. The platform brings a greater flexibility to allow users to reconfigure a system with ease to realize many control and indication applications, with future direct integration into 'intelligent' buildings. The Taktis Fire range is an all-new range of fire detection control equipment. It includes Taktis Vision, which provides a means of allowing full display and optional control of the Taktis fire alarm control panel from a small and unobtrusive local control station. Based on an all new hardware and software platform, the large, full colour graphical display with touch screen functionality, delivers information on the status of the fire alarm system to single or multiple locations.

There's more to come with the Taktis Virtual Resource suite of software tools, which will be able to deliver a whole new dimension in Life Safety System Management, giving System Designers, Integrators and Service Companies the ability to remotely access and comprehensively manage any system using intelligent analysis of



Initially configured as a fire detection and alarm system, the flexibility of the Taktis platform is such that it can be re-configured to realise many other control and indication applications, with direct integration into intelligent buildings

data collected with those systems. End-users and Facilities managers will also greatly benefit from the powerful application-based tool set featured by Virtual Resource.

Scaleable, Future-proofed Solution

Taktis fire systems are scalable with Taktis Net Enhanced High Speed Networking. This allows up to 128 panels to be connected together as a fully fault tolerant networked system with rapid inter panel communications and up to 1.2km of standard two core fire resistant cabling between nodes. Each panel can be configured to display all or any events from any other panel allowing

master/slave, multiple master/slave or peer-to-peer configuration.

Sophisticated network analysis tools provide the ability to identify connection problems instantly and the commissioning mode allows individual panels to be prevented from transmitting events to the network while maintaining communications.

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

Security Products

Aspirating Smoke Detectors

Patol returned to Firex International with its line of aspirating smoke detection (ASD), highlighting the capabilities of the Securiton Securi RAS range of ASD systems, EN54-20 approved to class A, B and C, for which Patol is the exclusive distributor in the UK. ASD is widely employed as a fire detection technology, providing fast and early detection of smoke particles to ensure it is employed in many different environments, from warehouses, museums, IT and data centre facilities to laboratories, clean rooms and cold stores.



www.patol.co.uk

Remote Portal Updated With Additional Devices

The Bosch Remote Portal provides a gateway to offer remote services, making remote connection to customer devices quick and easy. Installers can monitor supported devices and perform maintenance and configuration tasks remotely, thus greatly reducing travel to customer facilities, saving time and money. This cloud and browser-based service for installers has been enhanced so additional devices can be monitored and maintained remotely. Installers can now receive health checks for DIVAR IP 2000/5000 video recording solutions and 'Remote Connect Lite' is provided for DIVAR Hybrid and Network Recording Solutions.



www.boschsecurity.com

SECURITY MANAGEMENT

Security Management



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

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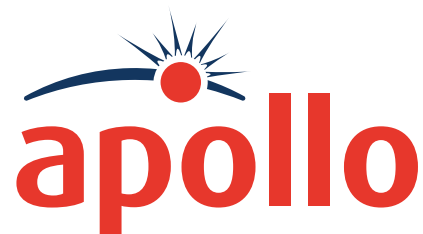
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