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Are We Ready For The Cloud?

The use of cloud services for the security industry is still not very common and quite a few security officers are still rejecting cloud storage for their data. With more and more businesses on the whole moving to the cloud, they are now facing a fork in the road when it comes to their IT decisions. They have to decide whether to continue using the traditional three to five year infrastructure lifecycle of servers, networking and on-premises facilities or take the leap into the cloud.

For many of them, the multitude of options now available, i.e. move all services to the cloud, or just some, to opt for business continuity or disaster recovery, or to go for a test and development environment, does not make their decision easier. However, there are many great benefits to be gained from moving to the cloud including greater scalability, efficiency, flexibility and mobility. Cloud solutions can give companies the ability to deploy computing resources when needed, at a known cost and service level.

When we talked to Genetec founder and CEO Pierre Racz about the cloud (see interview on page 18) he pointed out the difference between professional cloud storing and the situation in a lot of companies who store their data in-house: "Microsoft has 16 major data centers globally that are the size of football fields. These centers are highly secure, the data is encrypted and the level of protection is far beyond what could feasibly build in-house. Their storage arrays are not stuffed into hot, humid basements and they're not located adjacent to poorly secured office space."

The truth of the matter is that we should be the most enthusiastic adopters of cloud computing. Even small organizations with let's say five to ten servers should be considering the impact of not being able to operate their IT infrastructure and experiencing downtime. They need to consider how their business would be affected if they were offline for a day, a week or a fortnight. Cloud computing is no longer leading edge technology – therefore the risk factor is very low.

In our interview on page 32, Marc Handels, VP Global Marketing & Sales at Salto Systems, outlined the main advantages for customers using the cloud. The main target groups for Salto's cloud-based services Salto KS Keys are retailers, shared offices and companies that rent out apartments. For them the service reduces cost and almost eliminates the need for maintenance.

The cloud-based access control provides flexibility, scalability, reliability, and the ability to manage access control from any Internet platform. Using the cloud can also be a good way to connect and integrate other services. Through an agreement with Panasonic, Salto is able to offer connected services and the integration of video surveillance via Panasonic's Cameranager cloud-based service.

When you are interested in how to use cloud services for your business, you do not need to attend the major IT shows. At Intersec in Dubai end of January you can find answers to your questions. Like last year we will sponsor two media lounges at the show and will produce the official Intersec Dubai App that will help you to navigate through the show.

Enjoy reading this issue!



Heiko Baumgartner
For GIT's Safety and Security team



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New Chairman of the Board for Cenelec

Norbert Schaaf, Chairman of the Board of the Federal Association for Security Technology (BHE), has been elected as Chairman of Cenelec TC 79. Mr. Schaaf was congratulated on his appointment formally by Euralarm. The Technical Committee 79 deals with alarm systems, including the definition of performance standards for alarm systems for intruder and hold-up alarm systems, access control systems, periphery protection systems and CCTV systems. These systems can be used for providing a local or remote alarm, calling private guards, social assistance, fire brigade or police force and recording and transmission of dated or undated information, sounds, pictures of places and people for surveillance purposes. Mr. Schaaf also holds the position of Chairman of the Advisory Board for the Security Essen Fair. Euralarm congratulated Mr. Schaaf on his appointment formally by letter earlier and wishes him every success in his new appointment.



www.euralarm.org

"The Best of the Best" of the Health and Safety Industry are Named

The British Safety Council has announced the winners of this year's Sword of Honour and Globe of Honour awards for the exemplary management of health, safety and environmental risks by businesses around the world. The 64 Sword of Honour and 18 Globe of Honour winning companies have demonstrated to an independent adjudication panel a proven track record of excellence in managing risks to workers' health and safety and/or to the environment from the organisations' activities. Mike Robinson, Chief Executive of the British Safety Council, said: "On behalf of the trustees and staff of the British Safety Council, I would like to congratulate those winning organisations and their staff for their huge commitment to keeping their workplaces safe and healthy and minimising risks to the environment from their organisations' day-to-day activities. This year's result has proven that the imperative that no one should be injured or made ill at work is increasingly recognised throughout the globe."

www.britsafe.org

Nedap and Milestone: Integration Access Control & XProtect Video Management

At Ifsec 2016, Nedap and Milestone have announced a strategic partnership. Later, at Security Essen, they were showing Nedap's Aeos Access Control platform integration with Milestone's XProtect Video Management System on their mutual booths at Security Essen.



The integration enhances usability and offers ultimate choice of freedom. The integration offers end-users one clear, real time overview. Via a map display with icons they can view events and alarms as they happen and execute the desired action quickly. The integration combines powerful authorisation management, unlimited scalability in numbers of doors and cardholders and freedom of choice in third party integration possibilities of Aeos with the advanced video functionality of Milestone. This adds value for end-users as they can put together a security solution that fits their needs, now and in the future, without suffering from vendor lock-in and incompatible systems.

www.nedapsecurity.com

Wavestore Integrates with Honeywell Galaxy Dimension

Wavestore's open platform Video Management Software (VMS) has been successfully integrated with Honeywell's Galaxy Dimension intrusion detection panels. "Wavestore's integration with Honeywell Galaxy Dimension allows Security Industry Association (SIA) Level 4 compliant events to be received by Wavestore's VMS in order to deliver a truly unified security solution that combines powerful video, data and audio management with leading intrusion detection capability", said Enrico Bizzaro, Head of Integrations at Wavestore. Wavestore is directly integrated with Galaxy Dimension panels over the network and data is pushed from the panel into Wavestore's VMS whenever an event occurs, allowing operators to set specific actions relating to specific events, including moving PTZ cameras, opening doors, sending e-mail or alerting security staff, to name but a few. Operators are also able to conduct post-event searches on specific event keywords, such as 'zone' and 'type', and instantly display video relating to those events.



www.wavestore.com

Arecont Vision Expands MegaLab

Arecont Vision has announced that its MegaLab facility has launched a 3rd generation expansion to benefit customers worldwide while continuing to move the surveillance industry forward. The MegaLab is a dedicated testing facility and knowledge center located at Arecont Vision's headquarters, development center, and manufacturing facilities in Glendale, California that is used by Arecont Vision and by many manufacturers of video management software (VMS) platforms, network video recorders (NVRs), storage, servers, cybersecurity solutions, utilities, lighting, and network infrastructure. The MegaLab is a key component of Arecont Vision's continued commitment to maintaining and growing its 13 years of megapixel technology industry leadership. The facility is used to test new products, features, and capabilities with the latest products from a wide range of Technology Partner Program members to ensure the best possible integration.

www.arecontvision.com/partners/technology-partner-program

Flir Acquire Point Grey Research for 253 Million Dollars

Flir announced that it has reached a definitive asset purchase agreement to acquire the business of Point Grey Research for approximately 253 million US dollar in cash. The addition of the Point Grey business will augment Flir's existing OEM cores and components business by adding a broad range of visible spectrum machine vision cameras and solutions. Additionally, Flir's thermal sensor technology will further extend Point Grey's product range into new application spaces. The business will become Flir's Integrated Imaging Solutions line of business operating within the OEM and Emerging segment. The transaction is expected to be completed in the fourth quarter of 2016. Flir anticipates the business and related transaction costs will be approximately 0.01 US dollar dilutive to its 2016 earnings per share and accretive for 2017.

www.flir.eu

Wavestore Strengthens UK and Ireland Sales Team

Wavestore, a British manufacturer of Video Management Software (VMS), has further strengthened its sales team with the appointment of Robert Turner as Regional Sales Manager for the South of the UK. Reporting to Glenn Fletcher, Sales Director, Robert will identify and support new opportunities for the company's truly independent and open platform VMS. He brings over 15 years' experience in the security industry and a wealth of security systems knowledge having previously worked for companies such as Arecont, Dedicated Micros and ADT Fire and Security.

www.wavestore.com

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The First Network Video Camera

Axis Communications is celebrating the 20th anniversary of the world's first network video camera, a true Internet of Things (IoT) device introduced in 1996 that laid the foundation for an industry shift from analog to IP-based video surveillance and has spawned the Internet of Security Things. "The users reception of our IP-based products gives us great confidence in how Axis will continue to add value and innovation for the future of connected devices and for making the world a safer place," said Martin Gren, cofounder of Axis and inventor of the first network video camera.



www.axis.com

Dahua Technology Signs Distribution Agreement with Mayflex

Dahua Technology has signed a partnership agreement with Mayflex, a specialist distributor of converged IP solutions including networking, infrastructure and electronic security products. With its head office located in Birmingham, UK, Mayflex has an exceptional reputation for distributing converged IP CCTV solutions to VARs, installers, integrators and specifiers. The company already works with industry-leading manufacturers in access control, intruder alarms, perimeter protection and video analytics. Mayflex customers can now benefit from Dahua's extensive range of world-class, end-to-end IP security solutions, including cameras, NVRs, storage, software, display & control solutions and video management software.

www.dahuasecurity.com

Kentec Protects Top Cambridge Biolab

A new life safety system based around Kentec's Syncro fire alarm control panel technology has been installed at a new biology laboratory facility – part of the Babraham



Research Campus Cambridge, considered to be the UK's leading campus that supports early-stage bioscience enterprise. The more integrated research environment provided by the new buildings will bring the Institute's computational biologists into closer proximity with the established programmes developing bioscience therapies and technologies to treat human disease. The open protocol system, supplied and installed by Leader Systems, was designed around a six-loop Kentec Syncro AS analogue addressable fire control panel incorporating approximately 400 addressable devices and 250 loop driven sounders, to provide a complete building system solution with flexible cause and effect capabilities. Kentec's flagship 'open protocol' Syncro series guarantees the very highest standards of performance, safety and reliability that such a leading edge research facility demands.

www.kentec.co.uk

Genetec and Mobotix Announce Technology Integration Partnership

Genetec and Mobotix announced a technology relationship in which both companies will work together in research and development, testing, business development, and sales support for new and existing enterprise clients worldwide. Both companies have a global reputation for quality, reliability, great customer support in delivering flexible security solutions.

www.genetec.com · www.mobotix.us

Steve Bailes Joined Zaun as Integrated Business Development Manager

The Zaun Group has secured an industry champion from a market leader to spearhead selling its integrated portfolio and turnkey solutions. Steve Bailes has joined Zaun as integrated business development manager from a similar role for the past seven years with Gallagher Security Europe Ltd. Prior to that Bailes was at Betafence, where he worked alongside Zaun head of sales Chris Plimley and, among other projects, originated some of the fencing that ultimately Zaun installed for the London 2012 Olympics. Bailes represented Gallaghers at the British Security Industry Association, working on British Standards in electric fencing and other physical security systems. He also has experience in access control along with perimeter detection incorporating CCTV integration alongside high security perimeter fencing systems and standard fencing for sports and education. He said: "The Zaun Group's broad range of products that spans right across my working background massively appeals to me. So I'm looking forward to working together with a team of people to really grow the Zaun businesses."



from left to right: Adam Binns, Steve Bails and Alistair Henman

www.zaun.co.uk

ONVIF 2016 Annual Member Meeting

Onvif hosted its annual membership meeting on October 25, updating members on ONVIF's accomplishments of 2016 and its outlook for the year ahead. ONVIF member companies heard presentations on the final release of Profile Q in 2016 and the ongoing development of Profile T for video, in addition to learning about the growing prevalence of ONVIF's more than 7,000 conformant models of products in bid and specification processes in projects around the world. In the webinar's opening remarks, ONVIF Steering Committee Chairman Per Björkdahl highlighted ONVIF's collective achievements over the past 12 months, including the organization's continued work with the International Electrotechnical Commission on its IEC 62676-2-3 standard for network video clients and video transmitter devices. Björkdahl also cited the formation of the ONVIF Use Case Working Group as a significant step in increasing opportunities for member input.

www.onvif.org

Euralarm: European Services Standards

Over the past three years, Euralarm Services Section's main endeavour has been to develop and advance a new European standard, prEN 16763. For the first time, it defines the quality level of Services for electronic fire safety systems and security systems, to comply with the objectives of the European Service Directive. A lack of convergence in national policies and procedures has been frequently singled out as a reason for the malfunction of electronic fire safety and security equipment and variable levels of related safety and security across Europe. The new standard could therefore help to close the existing 'European electronic safety and security gap'. This European standard lays out the quality requirements for the service providers. It defines basic levels of competence of the employees entrusted with the planning, design, assembly, commissioning, verification, handover or maintenance of fire safety systems and security systems. Further it defines minimum requirements on the service output and documentation. In the long run, Euralarm members hope for the standard to lead to a convergence of the existing landscape of national policies and procedures in Europe, notably through the expected development of pan-European application guidelines.

www.euralarm.org

Primion Technology Acquires Opertis

Negotiations between the owners of Opertis and Primion Technology have been successfully concluded. Primion has taken over Opertis on 10th October 2016. Opertis, develops, produces and sells electronic locking systems. Their solution portfolio, sold under the brand name eLock, covers mechatronic cylinders, as well as the Comfort door lock system, with the corresponding administration software packages eLock, eLock eXpress and eLock expert. Primion Technology's strategy is to continue with and to improve the products and solutions from Opertis, in order to be able to offer their customers and partners an attractive range of products. The integration of the two Company's solutions will lead to an enhanced solution portfolio, and a wider and an improved product offering. www.primion.de

Wagner Becomes Euralarm Member

Following a unanimous decision of its Board, Euralarm has now formally welcomed its newest member: the Wagner Group. The company will join the Fire Section of Euralarm. They bring in expertise covering fire detection, notification, evacuation, extinguishing controls, and smoke and heat ventilation. Wagner will in turn benefit from Euralarm's services in terms of representation towards European Institutions and Standardisation Organisations, and the monitoring of relevant legislative and standardisation issues. The company will also have access to its extended network of national associations and major companies in the electronic fire safety and security sector. www.euralarm.org

New Service Concept for Customers Within the Rail Industry

Teleste Care for Rail sharpens Teleste's offering of rail-specific services and adopts a flexible lifetime approach to solving their customers' needs. Teleste Corporation announced that at Innotrans 2016 the company will introduce a new service concept targeted to its customers within the rail industry. The new concept, called Teleste Care for Rail, sharpens our service portfolio and focuses on meeting the needs of the rail industry even more inclusively than before. The concept takes a life time approach to maintenance and continuous development of rail solutions, and it includes versatile service options targeted both at securing every day operations and solving the challenges of future system upgrades. www.teleste.com

Plastilam to Purchase Smartrac Prelams for Contactless Access Cards

Plastilam, a US-based provider of RFID hotel key cards, has contracted to purchase millions of genuine, secure Smartrac Prelam inlays for contactless access cards over the next three years. Smartrac inlays provide a gapless proof of authenticity and origin for contactless cards and products. Hence, users can enjoy a maximum level of quality, security and reliability from their RFID-based products, without harming any of Smartrac's Intellectual Property rights. Plastilam has been producing access cards for the hospitality market for 30 years, and Prelam inlays will allow the company to continue providing high-quality, reliable, secure products for its customers. Smartrac Prelam inlays are fully compliant with EAL4+ Common Criteria and ISO International Standards, which have to be considered as prerequisites for interoperable products. Great customer convenience with vastly increased door lock security and minimum drop-out rates are just some of the many important product advantages delivered by this agreement. www.smartrac-group.com



Access Control with No End at Security Essen 2016

Nedap knows that risks change, new security requirements are introduced, but business continuity must never be put at risk. That's why their security platform Aeos is designed to minimise risks and ensure a state-of-the-art system that secures a long-term investment. It is in our DNA to offer open solutions. That's why Nedap allows you to integrate hardware and software systems of your own choice in Aeos and preserve previous investments. At their booth at Security Essen 2016, Nedap showcased live integrations with Aeos software and Kaba hardware. They are also the cofounder of Open Security Standard (OSS) Association, together with for example Assa Abloy, Uhlman&Zacher, DormaKaba and Deister. Jeroen Harmsen, Technology Partner Manager at Nedap Security Management said: "The standardization allows customers to use the electronic offline locking solution of their own choice in Aeos. This is user friendly for those who have to manage the authorisations and convenient for the card user." www.nedapsecurity.com



Moxa receives Aon Hewitt's Best Employer 2016 Award

The Aon Hewitt Best Employers Study Asia 2016, was conducted in twelve countries across the Asia-Pacific region, including Taiwan, China, Japan, Korea, Australia, and New Zealand. Companies were evaluated in four key categories: Employee Engagement, Compelling Employer Brand, Effective Leadership, and High-Performance Culture. Winners were announced after a year-long selection process, which included employee surveys, people practices benchmarks, interviews with CEOs, and HR audits. In each category, Moxa scored significantly higher than the average performance by companies in Taiwan. In order to create a corporate culture where employees can fully engage and have a sense of ownership, Moxa encourages employees to take on challenges and work together with cross-functional parties to enhance quality and procedures. Other recipients of the award are American Express International, DHL Express, FedEx Express, and DBS Bank. Moxa is the only technology company among the winners in Taiwan this year. www.moxa.com

Fermax: Product Line and Expansion of the Access Control Range

Fermax fully explores Access Control Systems with a new catalogue that includes a wide range of solutions. With new products for small, medium or large facilities, professionals can purchase modules designed to control a single entrance or access control able to manage every detail in a hospital, analogue technologies or the most modern wired IP technology. This new product line proposes solutions to all kinds of budgets. The launch offer is focused on highly demanded devices. Although Access Control Systems have been in the Fermax catalogue for many years, the company has just made an important jump with a new range of solutions. Access Control Systems – that up until now were only a complement to Fermax Door Entry Systems – have become a new business line for the brand for professionals in the sector, with a complete range of opportunities, because, as it is usual in Fermax, the product line has been designed so that its installation and implementation is easily executed. www.fermax.com



IPS and Hikvision Announce Technology Partnership

IPS Intelligent Video Analytics, a specialist in video analytics software, and Hikvision, a manufacturer of video surveillance solutions, have announced the start of a future technology partnership. The first evidence of this was already visible at the Security trade fair where IPS Analytics Manager, a web-based platform for the integration of video analytics into third-party systems, was presented at the Hikvision stand. At the same time, the latest Hikvision cameras, integrated into the IPS video management system (IPS Video Manager), were being shown at the IPS booth. Further and more far-reaching system integrations are to follow. Host system functionality will be enhanced by providing metadata for forensic searches and displaying image overlays after critical events. Providing IPS analytics on the Hikvision camera platform is conceivable as well.



www.ips-analytics.com · www.hikvision.com

Harland and Wolff Chooses Tyco Access Control Solution

As a large scale and potentially hazardous environment with a large number of employees, the Harland and Wolff site presents a unique range of security challenges. Environmental Health and Safety Management is a vital part of Harland and Wolff's business, so selecting the right security management solution was of paramount importance. The AC2000 access control software from Tyco subsidiary CEM Systems with key modules including Mustering and Zone Monitor, combined with S610 readers in turnstiles and S3040 portable readers for the dry dock, provided a solution that could not be circumvented and ensured accurate person count data in case of an emergency.

www.tycosp.com

Barco and CEC-Panda Joint Venture Officially Inaugurated

Barco, a global provider of visualization solutions, and China Electronic Corporation (CEC) Panda have official opened their joint venture Barco China Electronics Visualization Technology (Nanjing). Through this strategic joint venture, the parties aim to vastly improve China's critical infrastructure market by providing advanced control room and virtual reality (VR) solutions. At the opening ceremony, Jan De Witte, Barco CEO, commented: "The establishment of this joint venture fits perfectly within the spirit of the bilateral ties celebration. We are bringing new Barco control room solutions to the Chinese market and see strong commercial and quality potential in this partnership."

www.barco.com

Quantum Grows Partner Ecosystem

Quantum Corporation has announced joint development initiatives with four Video Management System (VMS) providers intended to bring enhanced multitier storage solutions to security and surveillance customers worldwide. Aimetis, On-Net Surveillance Systems (OnSSI), Qognify and Verint Systems have joined the Quantum Advantage Program, and certified interoperability with the company's products, including Stor Next 5 data management and Quantum QXS hybrid storage. The partner ecosystem has tripled in size over the last six months and now includes more than 30 partners. Partners seeking to expand their offerings in video surveillance can fast track time to market for their joint solutions with technical and marketing support from Quantum.

www.quantum.com

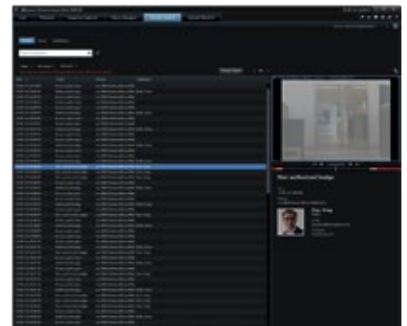
UAE Firms Urged to Boost Worker Health Protection

The Safety and Health section of Intersec 2017 in Dubai will showcase the latest in technical textiles and personal protection equipment (PPE). The declaration from a Dubai Government official that worker lives are being put at risk due to firms failing to properly clothe and protect them has garnered the attention of global health and safety companies and manufacturers of PPE. Raed Al Marzouqi, Head of Occupational Health and Safety at Dubai Municipality, recently told delegates at a Worker Health Protection Conference in Abu Dhabi that 99 per cent of work-related accidents in the UAE are the fault of the employer. He said companies operating in high-risk environments that fail to provide basic requirements to protect their employees will be penalized. Basic training in the construction industry is also often not being delivered properly, it was claimed. In response, international companies specializing in safety and health at work are rolling out a series of training programs along with new technical textiles and PPE at the upcoming Intersec trade show, which takes place from 22–24 January 2017 at the Dubai International Convention and Exhibition Centre. The trade fair for security, safety, and fire protection is expected to attract more than 1,300 exhibitors from 54 countries. Safety and Health is one of seven sections at the annual showcase, and has witnessed rapid growth over the last five years, further underlining the importance of Middle East worker health protection. Intersec's other core sections include Commercial Security, Fire and Rescue, Homeland Security and Policing, Information Security, Smart Home and Physical and Perimeter Security.

www.intersecexpo.com

Netherlands Publisher Benefits from First Nedap and Milestone Project

A large publisher in the Netherlands has become the first to combine Nedap's AEOS access control platform with Milestone's Xprotect video management system, just weeks after the integration was officially launched. As their access control is integrated with their HR database, AEOS significantly reduces the chance of manual errors and offers them a time saving of almost 30%. The integration was implemented by Nedap's channel partner, Voskamp Beveiligingstechniek, which is also a partner of Milestone. Jurate Beniulyte, Strategic Alliances Manager, Milestone Systems, adds: "This is another proof point of the power of the Milestone community, open platform technology and the business value that first-class integrations and partners can provide."



www.nedapsecurity.com

Dormakaba Agrees to Acquire Mesker Openings Group

Dormakaba has signed an agreement to acquire US-based Mesker Openings Group and expects to close the transaction in 2016 upon the satisfaction of customary closing conditions. With the consummation of the acquisition of Mesker, a commercial door and hardware manufacturer in the USA, Dormakaba will expand its offering in North America to include all essential door components as well as secure access to buildings and rooms from a single source. The company's five manufacturing and distribution facilities are strategically located in key regions providing significant efficiencies in delivering customizable products with very short lead times.

www.dormakaba.com

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Slide mode



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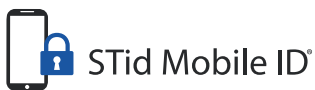
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Vanderbilt Finalizes Acquisition of Access Control Technology

Following its July 2015 acquisition of the Siemens Security Products line, Vanderbilt has announced completion of its purchase of Access Control Technology (ACT) Ltd. The integration of ACT's product line into Vanderbilt's portfolio brings significant depth to the company's access control and video surveillance while also bringing a cloud-based solution to the portfolio. The ACT brand will remain and the company will capitalize on ACT's market share in Ireland and the UK in addition to introducing the products to North American customers and partners. The software-as-a-service model brings a recurring revenue model to Vanderbilt and its channel partners. www.vanderbiltindustries.com

Benelux Account Manager for Siquira

Boris Drost has joined Siquira as its newest key account manager for the Benelux region. Drost studied International Management and Consultancy at the NHTV in Breda, and comes to Siquira from Black Box Network Services. With a broad knowledge base in account management and public relations, Drost is used to working with end users, system integrators and resellers from various market sectors. More specifically, he knows about IT networks and KVM systems for control rooms, wired and wireless networking and infrastructures, with customers ranging from governmental to industrial, and from care and wellbeing to broadcasting. www.siquira.com

Dahua: Integration with Ivideon

Dahua has announced the integration of its IP cameras to Ivideon cloud service. The integration involves Lite series, ECO Savvy 2.0 series, and Wi-Fi series IP cameras, which offer 1.3 and 3 megapixels resolution. Eco Savvy 3.0 series and XVR (Pentabrid Video Recorder) are to follow in the coming weeks. This integration allows effortless connection of any number of Dahua IP cameras regardless of their geographical locations to the Cloud which makes them accessible via any Internet-enabled device (PC, Mac, Linux, Web, iOS, Android) from a single account anywhere in the World. Dahua IP cameras can now be connected to the Cloud in the matter of minutes, without using NVRs, DVRs or Servers. It combines a cost-effective and time-saving connectivity solution with the high quality Dahua cameras. "At Ivideon we beat the myths that video surveillance is complicated and expensive. We make it easy and accessible by providing smart cloud-based video surveillance and remote control for business and home, no matter the size." said Vic Saikowski, Ivideon's Vice President for Business Development. "It's a pleasure to be working with Dahua, a company who places so much emphasis on product innovation." www.dahuasecurity.com

Giesecke and Devrient Teams Up For Event-Based Wearables

Giesecke and Devrient is bringing a new wearable contactless-payment-enabled solution to the market together with Rittenhouse Payment Solutions, a prepaid payments specialist. The prepaid smart wristband can be used for payment and access in a variety of environments. With a dramatic increase in the desire for secure cashless solutions from event organizers, the two companies are combining their expertise to deliver entry and tap-and-pay wristbands and other wearable form factors. This allows consumers to leave their wallet at home and still have full entry and payment capabilities in a convenient, water and weather proof wristband. It can be a companion device to an existing account or a standalone option with prepaid funds for use at concerts or sporting events, for example. www.gi-de.de

Bosch Security Systems and Sony Establish Partnership in Video Security

Bosch Security Systems and Sony Corporation signed a contract to establish a business partnership to collaborate in the development of innovative products and solutions in the field of video security applications. Effective from the beginning of 2017, the two companies aim to combine their technological expertise to set new standards in high-resolution and low light video imaging. As part of the agreed partnership, Sony's video security customers in all markets except Japan will be served and supported by the sales and marketing organization of Bosch Security Systems. The partnership is subject to approval by the antitrust authorities. Within the scope of the partnership, Sony will bring its leading expertise in video image quality and performance, while Bosch will add an extensive set of robust video analytics at the edge to interpret data as well as innovative technologies to achieve highly efficient bitrates and minimum storage requirements. "This partnership will revolutionize the video security industry since it combines the unique technological expertise and strengths of two leading companies in the field of video security applications. Customers can prosper from Sony's superior image quality, like its 4K solutions, combined with Bosch's bitrate management and video analytics," says Toru Katsumoto, Deputy President of Imaging Products and Solutions, Sector President of Professional Products Group, Sony Corporation. "This unique partnership also supports Bosch's vision concerning the internet of things. Video security cameras and more specifically the data they are collecting play an important role in the further development of the internet of things. The video cameras might be called as 'the eyes of the internet of things'," says Gert van Iperen, President of Bosch Security Systems. Sony will continue to develop and manufacture its video security products under its brand. www.boschsecurity.com



Gert van Iperen

U.T.SEC: Unmanned Technologies & Security Expo & Conference

Discover the latest security trends in the sector, on 2–3 March 2017, in Nuremberg: As the first worldwide platform to do so, U.T.SEC will be presenting in its entirety the future theme of unmanned technologies with the focus on security. The focal point is the technical and legal possibilities of increasing security. This also entails protection against unwanted entry by unmanned vehicles in civil, industrial and state areas. The monitoring and control of transport, infrastructures or industrial facilities and the energy industry along with the application of these technologies by police, fire brigade, disaster protection and other emergency services form the focal point of U.T.SEC. However, at the same time, with the growing number of possible applications, new questions surrounding the issues of factory and company safety are also arising as well as no-fly zones and flight-restricted zones for example for airports, football stadia or industrial and state facilities and institutions. The U.T.SEC Expo and Conference in Nuremberg will be taking a look at these aspects from a 360-degree perspective and presenting solutions. At U.T.SEC, purposeful, specialist lectures and presentations at the conference, a broad range of products presented by the exhibiting companies along with impressive demonstrations of unmanned vehicles will all complement each other. Benefit from the national as well as international exchange between colleagues, users, developers and opinion leaders. www.utsec.de/en





Travel to Germany's 'top job' on the cable car

VIDEO WALL

View From On High

BR Wendelstein Monitors Networks with Eyevis Displays

It can only be reached by cog railway or cable car – Germany's highest TV control center situated at an altitude of around 1,800 meters on the Wendelstein in the Bavarian Alps, it has served Bayerischer Rundfunk (BR) as a network monitoring station for more than 60 years. Not only the channel distribution of the television and radio broadcasts is monitored and managed here, but also the transmission quality of the image is checked. The Wendelstein, with its multishift operation around the clock and seven days a week, is the highest place of work in the German TV industry.

The Wendelstein control station is equipped with a video wall composed of six high-quality LCD displays and a controller system by Eyevis in order to assess the quality of the transmitted images in this age of HD TV. The video wall consists of a bottom row of three 58-inch Ultra-HD LCDs type EYE-LCD-QHD, which display the broadcast images via the supplier's own processing units. The upper row of the video wall, where the actual TV images are displayed, consists of three Full-HD EYE-LCD-LE-700 displays with a diagonal of 55 inch and a high luminosity of 700 cd/m².

High Resolution and Multiview

In combination with an eyecon control server for multi-user operation and the V5 Basic video wall management software, the displays can be operated in multiview mode and thus provide maximum flexibility. Thanks to their high resolution,

the transmission signals as well as the channels of distribution displayed via software are pin sharp. This is where Reinhard Bäß, who oversees the project on behalf of system supplier Videocation, sees the most important advantages of the new facility: "The graphical presentation of the entire network is ideal and easily legible and can be configured individually on the video wall according to the requirements of different personnel. These brilliant high-resolution displays also allow optimal assessment of the TV programs"

Constant Change

The choice to go with Eyevis, according to Reinhard Bäß, was driven by the reputation of their displays and control software in the field of control rooms and broadcasting. Ultimately, the project was not only about creating a basis for all of today's challenges, but also about laying the foundation for the infrastructure for future changes. In

this control room's 60 years of existence, BR has experienced more than once that there will always be new technological developments.

At the beginning of the renovation, the extraordinary location initially caused some unique problems. Another comment by Reinhard Bäß: "We had to delay the delivery and installation by two days. The original date was no longer feasible as the cable car was not allowed to operate due to a storm." This, by the way, did not affect the acceptance date, which took place as scheduled, despite the initial delays.

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Signal presence and image quality are constantly monitored here



EVENT

Highlights of Intersec 2017

See What's New at the 19th Exhibition

The annual three-day event will feature more than 1,300 exhibitors from 52 countries, while over 31,000 visitors from 128 countries are expected to attend as they seek the latest solutions across seven show sections of Commercial Security, Fire & Rescue, Safety & Health, Homeland Security & Policing, Perimeter & Physical Security, Information Security, and Smart Home & Building Automation.

"Middle East organisations and end-users realise the impact of security and fire safety on their overall productivity and bottom lines, while regional governments have always been committed to protecting critical assets and people in the face of perceived threats along with social and commercial interests.

In this respect, the region has carved out a niche for itself in the global security, safety, and fire protection industries. The coming edition will be even wider in scope and reach and will provide trade visitors a comprehensive look at what's available to suit their varied needs, whether that

be for governments and authorities, or for private sector end-users in aviation, oil & gas, construction, finance, hospitality, logistics, retail or health-care.", states Ahmed Pauwels, CEO of Messe Frankfurt Middle East, who knows the potential of the Middle Eastern region.

Commercial Security Section

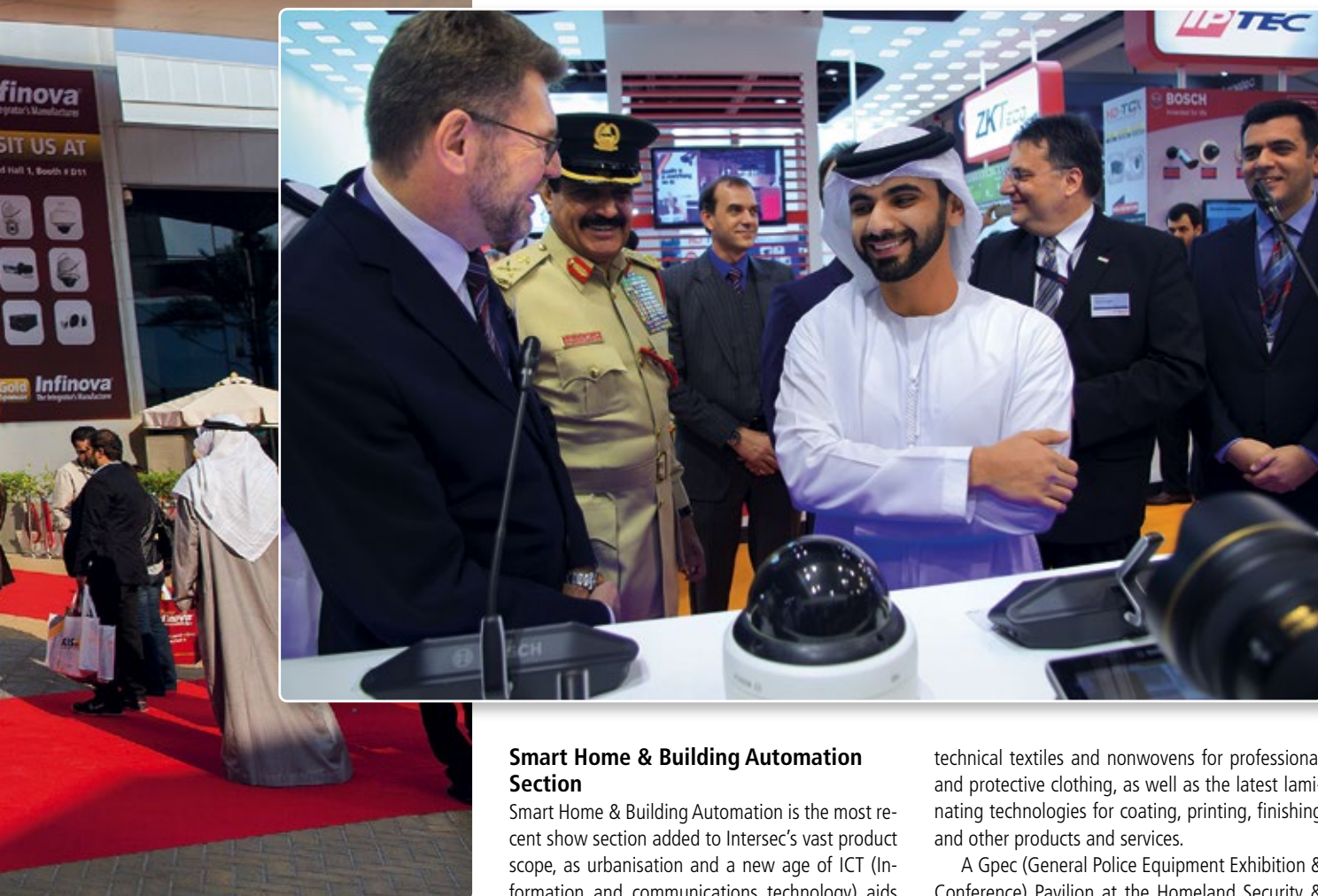
With more than 580 exhibitors, Commercial Security is the largest section at Intersec 2017, with more than two-thirds of the world's top 50 security solutions players on board, including Hikvision, Bosch, Dahua, Assa Abloy, Tyco, Flir, Hanwha Tech-

win, Axis Communications, Avigilon Panasonic, In-finova, Idis and Milestone Systems.

The intersec Dubai has lots of options as John van den Elzen, Promise Technology's Surveillance Business Unit General Manager, further outlines:

"Promise Technology has been developing NVRs (network video recorders) and storage optimised for surveillance for years, and now we'll launch a complete new product line with a management server, analytics server and recording server.

With our business taking off in the Middle East due to the strong demand for storage, we'll also



Smart Home & Building Automation Section

Smart Home & Building Automation is the most recent show section added to Intersec's vast product scope, as urbanisation and a new age of ICT (Information and communications technology) aids the march toward smarter integration of different functions like electro-mechanical controls, fire and safety security systems, and energy management.

Among the 50 plus leading players in this section at Intersec 2017 are Fermax, Somfy, HDL, Videocom, Techcom, Hunt and Teleste, all of which will present their latest solutions to a regional market that's beginning to demonstrate interest in the benefits of home automation and systems integration.

Fire & Rescue (400 exhibitors), Safety & Health (100 exhibitors), Homeland Security & Policing (100 exhibitors), and Perimeter & Physical Security (50 exhibitors) wrap up the dedicated show sections at Intersec 2017, firmly underlining its position as world's most influential exhibition dedicated to security, safety and fire protection.

The show's strong international flavour will be further enhanced by 14 country pavilions from Canada, China, Czech Republic, France, Germany, Hong Kong, India, Italy, Korea, Pakistan, Singapore, Taiwan, UK, and USA.

Pavillions at Intersec 2017

Returning features to Intersec 2017 include the Safety Design in Buildings Pavilion in the Fire & Rescue section, which has doubled in size and will shine the light on fire-rated building materials such as facades, fabrics, doors, windows, paints, stucco, and egress systems.

A Textextil Pavilion in the Safety & Health section will also present the entire spectrum of

technical textiles and nonwovens for professional and protective clothing, as well as the latest laminating technologies for coating, printing, finishing and other products and services.

A Gpec (General Police Equipment Exhibition & Conference) Pavilion at the Homeland Security & Policing section; a Job Pavilion, bringing thousands of professionals together with specialist security-related recruitment companies; and three industry conferences held in cooperation with the Dubai Police and Dubai Civil Defence wrap up the host of additional features.

Intersec 2017 is held under the patronage of His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, and officially supported by Dubai Police, the Dubai Civil Defence, and Dubai Police Academy.

Official intersec Dubai App: The clever companion for all Intersec visitors

GIT SECURITY and Messe Frankfurt Middle East, the organizer of Intersec, present the Official Intersec Dubai App - by GIT Security to all visitors.

The official Intersec App shows the visitors exactly where to go. It provides a modern and mobile overview on your smartphone. All that is a "must see" at Intersec. With a 3D floor plan, highlights, theme tours, many contact options and more.

introduce a new high-capacity surveillance storage block solution, which is ideal for deployments requiring a large centralised storage solution, offering an open-platform, simplicity, optimisation, and the most comprehensive partner ecosystem."

Van den Elzen added: "The Middle East is showing very strong interest in cloud-based storage solutions, and we're working on this with an eye towards the growing trend of smart cities. With the Dubai Expo 2020 coming up and the FIFA World Cup 2022 in Qatar, there are certainly opportunities for Promise to work together with our partners to further develop surveillance cloud solutions."

Information Security Section

With more than 50 exhibitors, Information Security has been one of the major growth sections at Intersec, and has doubled in size every year since it was first introduced to the show in 2014, as security threats to businesses spread beyond the physical realm.

Headline exhibitors confirming their participation early next year include Agility Grid, Al-Mazroui - ICAS, Commend, Dell, Easy World, Hanvon, Infosec, Matrix, Netronics, Quantum IT, and Rittal, a manufacturer of IT networking and Data Centre Physical Infrastructure solutions.

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EXHIBITION APP

Programmed for Success!

Official show app intersec Dubai by GIT SECURITY

Wiley and GIT SECURITY say “Thank you” for the very positive feedback on the official show app we produced for Intersec 2016. The show organisers and GIT SECURITY now present the new version of the app for Intersec 2017. Again, the download is free of charge – just go to <http://bit.ly/2e4zAvv> and find the links to the stores.

GIT SECURITY and Messe Frankfurt Middle East, organizer of Intersec, present the official show app intersec Dubai App GIT SECURITY. With its new 2017 features the app is the ideal companion for all. It is available now and will be updated constantly.

Keep an Overview

Let yourself be navigated directly to the exhibitors with the dynamic 2D/3D-floor plan. The app determines your location: so, it is easy to get to any exhibitor in no time. Also, with a few clicks you'll find important information about the exhibitors

and the exhibition – on your smartphone or tablet of course. In case you want to add a comment or a picture of your conversation partner, you can fill up the app with your personal content.

Theme Tours, 3D Hall Plan, Contacts

With the “My Intersec” section you may organize your very personal show visit. Theme Tours guide you and give you recommendations. At an exhibition with thousands of exhibitors and many hallways, orientation is a huge time saver. So the official app shows the visitors exactly where to go. It provides a modern and mobile overview on every smartphone. All that is a “must see” at Intersec. With a 3D floor plan, highlights, theme

tours, many contact options and more. New also: a “selfie feature” – get surprised.

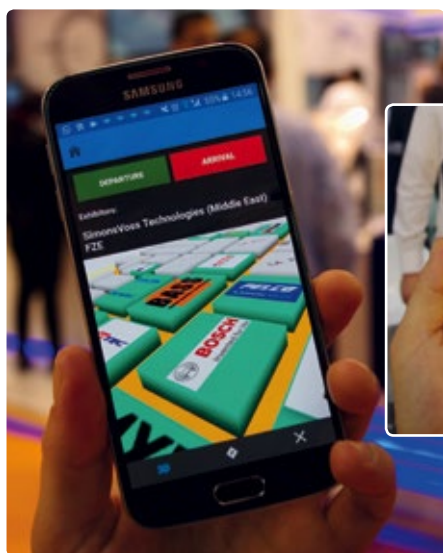
GIT SECURITY Recommends

Use the list of exhibitors to get information e.g. about access control. Companies like Abus (Smartvest wireless alarm system), Paxton (building management system Paxton10), Nedap (Aeos-access control platform), SimonsVoss (SmartHandle) or Evva (Xesar/Airkey) – to name some of our app sponsors. But also all other branches of safety and security will be presented. Get the app from Google Play or iTunes, just look for “intersec Dubai” – the app will be updated constantly.

If you are an exhibitor and want to advertise on the official show app intersec Dubai by GIT SECURITY, just contact Sebastian.Reinhart@Wiley.com.



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CLOUD

Cloudy Times

Even within the conservative security industry the attitude towards cloud services is changing. While in the past many companies have only seen the risks of moving data to the cloud, recent hacks and malware attacks have reminded security experts that not moving data to the cloud can also be a risk, especially when your systems are not well secured in-house. At Security Essen in Germany, we talked with Genetec founder and CEO Pierre Racz, who sees cloud as a logical progression for the security business.

GIT SECURITY: Pierre, compared to major IT shows, we do not see a lot of cloud solutions advertised here on the show floor at Security Essen. How far are we within our industry with cloud solutions?

Pierre Racz: The cloud is coming and depending on the region you are living, the cloud has already arrived on a project level. One recent example is "Project Green Light" in Detroit where the City of Detroit worked with local communities and businesses to set up cloud-based monitoring for public and business spaces. The Detroit Police Department has partnered with gas stations that have installed real-time high-resolution cameras that are connected directly with police headquarters as part of a ground-breaking crime-fighting partner-

ship between local businesses, the City of Detroit and community groups. All partners have installed Full HD indoor and outdoor cameras and the stations were all upgraded to high-speed network connections capable of allowing for consistent video streaming to the police. The whole system is cloud based and offers a lot of advantages to its users. The biggest benefit is you do not need to purchase and maintain hardware. If you look at the massive efforts companies undertake in order to secure in-house network rooms, it is obvious that the cloud is a good alternative. Cloud is more flexible here and more secure, plus it offers new applications.

But still there is some skepticism about the value of cloud systems for security applica-

tions. What other arguments do you have for the most skeptical observers?

Pierre Racz: I think in most business sectors it is all about outsourcing of non-core competency. For computing this is routine and many of us use the cloud without knowing it. Cloud is behind banking systems, online retail and as well as part of storage services like iCloud, Amazon and Google Drive. It is a well-established technology now and has been around a long time. At Genetec we use the cloud for example for full scale integration testing of customer systems before we go live with a security management solution. So for example, we just recently did a lab simulation for around 400 retail shops in the cloud on full load before the solution was then implemented at the customer.

So cloud solutions can help security solutions even if the installation then is not running on the cloud. We do offer this kind of system testing as a service for our clients. It helps with trouble-shooting but also when we develop new products.

What are your thoughts about the security of cloud systems?

Pierre Racz: When we talk about core competency, let's go deeper. Microsoft for example has 16 major data centers globally that are the size of football fields. These centers are highly secure, the data is encrypted and economies of scale mean they can put levels of protection in place far beyond what any individual customer could feasibly build in-house. All their systems, including power and storage, are redundant. Their storage arrays are not stuffed into hot, humid basements and they are not located adjacent to poorly secured general office space only to be thought of when something breaks. If we are honest to ourselves, we have to realize that within our industry we have people with degrees in security management, criminology and sociology, but not necessarily in the finer points of IT and data center management. Microsoft and Amazon are experts in data centers and IT security while our customers are experts in something else. Done properly, cloud is way more secure. Our answer



Genetec founder and CEO Pierre Racz

is that data is encrypted at the application level before it goes into the cloud. The way we do it is that each of the cameras has an individual label and you have to provide a key to access them so these sorts of security breaches are simply not possible. For instance, we can configure the system so that the cryptographic keys that allow access to cameras are changed every 5 minutes. You

can't decrypt 256-bit cryptography in 5 years, let alone 5 minutes.

Who do you think cloud is for?

Pierre Racz: There are many variables when it comes to using cloud and we have multiple products to suits customer needs. For large end users it's about economies of scale but there are also smaller players who find cloud works for them. Some will keep the last 30 days on-prem (on-premises) but duplicate the last 24 hours in the cloud for protection against disasters, or damage or theft of the device – that's what hybrid cloud gives smaller end users. It also lets customers try features before they buy – like Genetec's Mission Control. If they like these features they can put them on-premise, or leave them in the cloud. Certainly, cloud first is our strategy.

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SECURITY MANAGEMENT

Security, Convenience and Intelligent Networking

The Future of Security from the Perspective of Abus

Security solutions of the future have to cope with a whole series of challenges. These include protection against intruders and hackers as well as simple, intuitive operation. At the same time, the security system should adapt to its users, learn with them and be extendable. Abus recently exhibited at Security in Essen and impressed with displays of their complete and well-considered product portfolio. The company is now looking ahead to the year 2024 and is sketching out its vision of networked security.



The Smartvest wireless alarm control unit can link up to four IP cameras and up to 32 wireless peripherals

Our world is becoming more networked and security is becoming more complex. Where mechanical intruder protection would have been sufficient in the past, modern security solutions also have to protect against virtual intruders. They have to cope with risk situations using several components and provide control both from the local operating device as well as via a smartphone, tablet and PC.

A glimpse into the year 2024 produces this vision: in future, there is only to be one Abus user interface that operates all security applications. With it, all security components can be flexibly and easily operated. The company is combining the existing expertise of its security solutions in an ever more intelligent manner and thus creating a coherent overall concept from one source.

Interaction

Over the next fourteen years, there will certainly be further technical innovations, new discoveries and changing customer requirements. Abus has already assembled a solid security product portfolio for the meantime that addresses many aspects of building and object security and already enables the interaction of specific systems.

The company's latest IP cameras, for example, are structured into three product groups: Basic, Advanced and Special. This simple classification assists integrators/installers and customers in choosing the appropriate model for their needs. The Advanced IP camera series (IPCA) has exceptional backlight compensation, an ultra-low-light function and intelligent video content analysis - overkill in some situations you may say, but abso-

lutely essential in others. Adding object counting or 'tripwire' image analysis can reveal valuable operational business data or initiate automatic alarms. Video surveillance management can be done with Abus' intuitive Eyseo software, which will administer up to 16 network cameras via a simple to use human interface.

Alarming

Arriving home to find chaos in every room after a break-in is the nightmare of every home owner and tenant. With statistics showing continually increasing numbers of domestic and small business break-ins, a strategy to avoid being part of those statistics may be the use of Abus Smartvest. This wireless alarm system forms the hub for sirens, motion detectors, door opening and smoke/heat detectors, IP cameras and smart wireless sockets. Everything is installed and managed through a free app that will receive alarms, access live video images and control multiple devices. Installation is as simple as fitting the peripherals where they will best be able to detect trouble and then including them into the system via the app. A clever theft deterrent strategy could be, for example, to switch on lights via the wireless sockets as soon as motion detectors are activated.

And still at home, or rather standing before the front door laden with heavy bags, the Home Tec Pro actuator provides a very convenient way to



◀ Simple to install and operate, the wAppLoxx wireless access control system is securely controlled by PC/App.

open the door using either a wireless remote control or a wireless numeric keypad near the door. Carrying and inserting keys is no longer necessary, a blessing for large families whose members are going out and returning at all times of day and night. Each family member can have their own remote control too.

Home and Away

Taking the concept one stage further, Abus' Waploxx gives a high level of convenience for access control and alarm system administration for professional users and owners of small to medium-sized buildings. The system is controlled via a web browser or mobile phone app – also remotely via Internet or Intranet – and enables access to be granted specifically to up to 150 people at pre-set times of day. Commands are sent encrypted to wireless locks on up to 20 different doors, and interaction with the alarm system virtually eliminates the possibility of false alarms caused by authorized personnel. Time periods can be easily defined during which specific personnel have access to the building and wanted visitors can have the door unlocked for them via the app. The robust yet elegant electronic door locks incorporate Mifare Desfire readers, enabling the use of various types of ID media.



HomeTec Pro opens doors simply via a wireless numeric keypad or remote control

Designing the Future in a Partner Role

Abus intends to promote the joint development of security systems for an even closer partnership with its installers and end customers. Requests and suggestions from end customers and specialist installers are to be actively involved in the technical creation process so as to find solutions that are ideal for everyone. Guests at the recent Security Essen event were therefore also warmly

invited to register with Abus to benefit from exclusive information on the topic of "Networked security solutions" and to jointly shape the future of security technology with them.

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INTERVIEW

One for EMEA

Axis and Canon Work Under One Global Sales and Marketing Framework

On September 1st, Axis Communications and Canon announced an agreement under which the two companies would change their sales and marketing efforts in major regional markets worldwide. It was explained that in the EMEA region and North America, Axis will assume responsibility for the marketing and sales of Canon's entire network video product portfolio, starting in EMEA from September 1st and in North America from October 1st. We have asked Ray Mauritsson, CEO of Axis Communications, to give us some more background.

In the announcement it is mentioned that Axis will assume responsibility for the marketing and sales of Canon's entire portfolio in the EMEA region. Does this mean the portfolio that is sold via the Axis sales channel includes the former Canon product line that was introduced in the last months or will the EMEA offering consist mainly of Axis products?

Ray Mauritsson: We can offer Canon's entire portfolio of network video products through Axis' sales channels. However, since the Axis portfolio is larger than the Canon portfolio, it is natural that Axis products will make up the bigger part of the total offering.

Will the Canon sales force and marketing teams in the EMEA region be integrated in your activities?

Ray Mauritsson: No, the sales and marketing of Canon network video products in EMEA will be managed by the existing Axis marketing and sales organization.

What brand message will the customers see in the upcoming months on the product side? The Axis brand plus the Canon brand?

Ray Mauritsson: Axis' products will remain Axis branded, and Canon's product will remain Canon branded. This change only means that we have assumed responsibility for sales and marketing, not that the brands will change.

Are you considering rethinking the Axis marketing strategy in the EMEA region now that Axis has the lead for marketing for both brands here?

Ray Mauritsson: We won't change our marketing strategy in EMEA because of this change in operations, other than that we now of course can offer a broader product portfolio to our customers.



Ray Mauritsson, CEO of Axis Communications

How do you see the future of the entry-level market segment where Axis has placed its Companion series? Is it an option to use the Canon distribution channel in this segment?

Ray Mauritsson: We don't have any such plans. We continue to develop our partner network with dedicated AXIS Companion Specialists focusing on the target market for our AXIS Companion line.

Access Control is the hot topic at the moment. How do you see your position here in EMEA and do you see growth opportunities here beyond the offering of the door controller you have introduced?

Ray Mauritsson: Access control is a fragmented market but the access control solution is often managed next to other systems that can operate together. We see good opportunities for growth in offering integrated solutions involving video surveillance, access control, door stations, audio and more.

There are growing concerns in the market about security within security, systems hacks

etc. Do you want to comment on Axis' activities here?

Ray Mauritsson: All network devices are subject to potential risks, including network cameras. We take this issue seriously and have detailed processes to eliminate vulnerabilities in our products before they can be exploited. And from an end-user perspective, one of the most important measures is to have installed the latest firmware or software in all network products. It is also important to note that security of a system could not be ensured by only having the right security features in a product. A complete framework of policies, settings and procedures needs to be established. We are supporting our partners and end customers with this by e.g. our "Hardening Guide".

CONTACT

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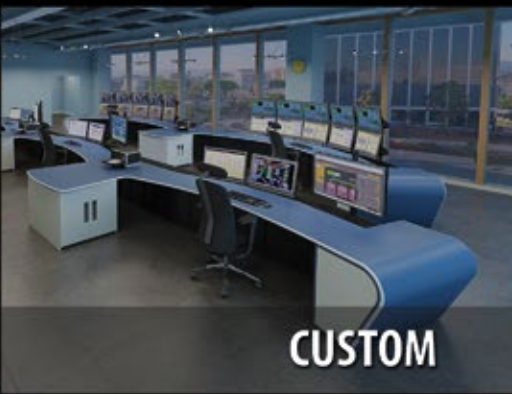
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1st

2nd

Elten: Wellmaxx

Extremely Resilient Midsoles

With the Wellmaxx series, the safety shoe manufacturer Elten puts a new revolutionary sole technology on the foot protection market. In the past, the cushioning concept was used only in the athletic shoe segment. From now on, the Wellmaxx models, in which the midsole is provided with a BASF-developed particle foam with extremely resilient properties, will set new standards for the springiness and cushioning of safety shoes. Wellmaxx was developed for indoor use and is especially balanced to meet the requirements of dry

workplaces in which employees permanently perform tasks while standing, walking or kneeling. Such work, especially when performed on hard floors, causes tremendous stress on backs, feet, hips and knees.



Systemsensor Europe: Faast XM

Aspiration Smoke Detection

Faast XM uses unique dual source sensing technology (blue LED and IR laser) to distinguish smoke from nuisance particles and prevent false alarms in clean rooms and very dusty industrial environments. It has a sensitivity of 0.00095 % obs/m. A patented particle separator based on aviation technology removes contaminants – providing up to 67% greater false alarm immunity than traditional aspirating detectors. A bidirectional ultrasonic sensor monitors the airflow and signals changes. The IP integrated

communication package contains Ethernet-connectivity, email status updates and Modbus protocol. Faast XM self-adjusts to environmental conditions using acclimate mode for enhanced stability.



3rd

Category C: CCTV, Video Security

Hikvision Digital Technology: DS-2DP1636Z-D PanoVu

360° Panoramic-PTZ-Camera

Hikvision DS-2DP1636Z-D PanoVu camera provides 16MP 360 degree distortion-free ultra-high definition video, seamlessly integrating video from eight 1/1.9" Progressive Scan CMOS sensors in the one camera. This all-in-one design using only one Ethernet and power supply cables, further enables easy installation and simple configuration. Add to this the PanoVu's powerful Smart Tracking abilities, linking to its PTZ unit at the bottom and zooming into images at up to 36x optical, this means any detail in the panoramic scene won't be missed. It is able to capture highly detailed high resolution colour images in as little light as 0.002 Lux, meaning around the clock 360 degree monitoring is available – especially suitable for public open spaces in city centres.



1st

2nd



Axis Communications: Axis P3707-PE

Multisensor IP Camera

The Axis P3707-PE is a new multi-sensor network camera. The 8-megapixel Axis P3707-PE, with four varifocal camera heads, enables a 360° coverage or a combination of overview and zoomed-in views in four different directions. Axis P3707-PE comprises four camera heads that can be repositioned along a circular track to point in the desired viewing direction. Each camera head can be tilted and adjusted individually.

IPS Intelligent Video Analytics: IPS AnalyticsManager

3rd

Web-based Video Analytics Platform

IPS AnalyticsManager is an open video analytics platform that integrates IPS Video Analytics into various video management systems. It combines a range of certified video analytics functions with simple integration and ease of use. Different integration methods are offered and all major video management system manufacturers are compatible. A zero-integration-interface, implementing IPS's integrated meta-data engine, enables 3rd party video management systems to display image overlays by simply retrieving a standard video stream from the IPS AnalyticsManager. Intelligent video analytics can be configured intuitively with just a few mouse clicks because the IPS AnalyticsManager uses state-of-the-art web tools for configuration and operation.



Category D:

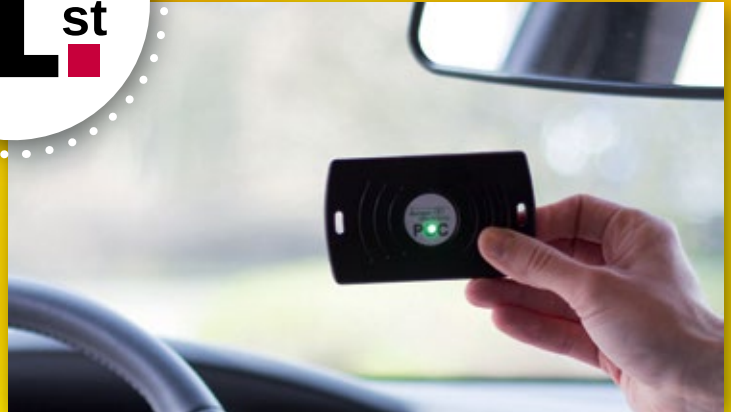
Access Control, Intruder Alarm and Perimeter Protection

Deister Electronics: POC

Making Long Range RFID Visible

The POC (= Proof of Communication) is a unique device that indicates the field strength of an UHF field at any position. POC behaves exactly like a transponder. UHF fields work with very little power – just enough to power up the simple electronics inside the transponder once the transponder is in the readers range. To measure the received energy and light up a LED on top only works with an additional battery. The electronics of the POC are designed in a way, that it measures the received energy from the UHF field and adds energy from the battery to light up the LED accordingly. What sounds easy is actually a brand new innovation patent pending that reduces the set up time by up to 80 %.

1st



2nd

Dedrone: DroneTracker

Civilian Drone Detection

DroneTracker is a unique system designed to detect civilian drones. It can be mounted to facades, windows and special carriers in order to identify approaching drones by means of visual and acoustic sensors, and frequency scanners. Signals, including noise, movement patterns, silhouette and frequencies are processed and evaluated with the help of intelligent software. The DroneTracker reliably picks up information within several hundred meters, and triggers an alarm to alert security staff. For large area or perimeter protection, multiple DroneTrackers can be networked. Video footage of drone intrusions provides crucial evidence of the threat.

3rd

Nedap: AEOS

Encryption for End-to-End Security

Nedap developed AEOS end-to-end security in which principles of encryption and strong authentication for IT security are applied to achieve secure communication between and storage in all elements of the access control system. The solution combines storage of DESFire keys and digital certificates in a Secure Access Module inside its door controllers. By storing DESFire keys in the SAM, card readers fulfil no role in decryption of data and secure communication between card and controller is guaranteed. By storing digital certificates in the same SAM strong authentication is achieved ensuring secure communication between controller and server. This way, the solution offers high levels of protection against physical and digital threats.



Categorie E: Safety & Security Management, Complete Solutions



Honeywell: Command and Control Suite

Integrated Building Automation and Security

Honeywell Command and Control Suite is designed to enhance enterprise integration by harmonizing complex systems and processes. It features map-based visualization and navigation, along with integrated workflows and system-wide integration from a single, intuitive touchscreen interface. Using progressive disclosure, users can access an enterprise-wide view and also easily zoom into specific areas to quickly understand and react to issues and opportunities as they arise. The Incident Workflow is a supplement to the Command Wall and guides users through step by step scripted responses to security incidents and other emergencies, helping further reduce risk and improving accuracy in mitigating issues.

1st

2nd



Geutebrück: G-SIM

Security Management System

Geutebrück's G-SIM wants to provide perfect overview – with a very fast image processing. As

a boost in "old" systems or for new investments, it provides third-party integration, custom interfaces and cross-system audits. G-SIMs adaptability to external systems is extremely high. Whether images, dynamic maps, status details or process data: The representation can be individually optimized, the operation is intuitive. Processes can be displayed in linked scenes, live or stored. In case of an alarm, predefined scenes are activated and customer specific workflows are started. Smooth live videos facilitate all kind of analysis. Reports are individually configurable and comprehensive – from security to process control.

Digivod: Digivod Video Management Software

Video Management Software with GPS

Digivod video based PSIM (Physical Security Information Management) wants to offer more than just video surveillance. Video cameras are sensors amongst others (fences, doors, alarm systems and many more) that are put into context of space (GIS map) and time. Incidents can be placed on the GIS map and viewed on all cameras in the affected radius. Mobile patrols are tracked by GPS and receive and exchange incident information with the control room. Digivod PSIM is offered with the same intuitive user interface known from Digivod video management software.

3rd



Security Moments

Exhibition Impressions – our Photocol of the Event

Security Essen is over. See some impressions of the industry's makers. People who presented their products and ideas to a great audience. Take a look at our Wiley style roundup for this year under the motto: We open new horizons for You. New horizons are not only opened with this exhibition review, but with every new issue of the GIT SECURITY which we are most passionate about.

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Geutebrück's
**Katharina Geutebrück
and Christoph
Hoffmann**



Keen Yao,
International Marketing
Director, during an
Interview at the
Hikvision stand



Nicolas Stobbe,
leading Business
Developer at Deister

**We
Open New
Horizons**



Florian Lauw of Abus is showing the Secvest wireless alarm



Jan Meiswinkel, Manager of Advancis



Annika Westphal of Minimax in front of the fire protection product wall



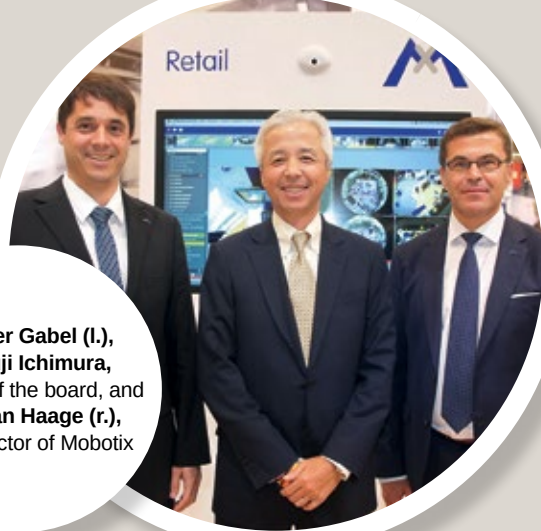
Jessica Wagner, Markus Strübel and Matthias Welzel – Marketing team of Securiton



Horst Eckenberger, CEO Primion Technology – access, time and security management



Lisa Herrmann and Frank Brake of Tisoware show solutions for time and access control management



Dr. Oliver Gabel (l.),
CTO, **Yuji Ichimura,**
Chairman of the board, and
Dr. Tristan Haage (r.),
Sales Director of Mobotix



Neat and calm:
The **Wiley** stand after the
exhibition has closed



Astrid Sassen
of Wagner Group is
showing the inert gases
extinguisher FirExting



Ute Hajek of PCS
is showing their access
solution Intus 1600PS

Christian Rudolph,
Hekatron Sales
Director and part of the
managing team, with
an employee



Look at the **PCS**
stand displaying –
access, time,
MES and video

The cheerful Paxton
Crew – Building
Intelligence under the
leadership of
Gareth O'Hara
(2nd from the right)



Bernhard Sommer,
CEO and Chairman
of the Executive board
of SimonsVoss





The cheerful and excited **GIT SECURITY team:** Always eager to find the best stories



Edwin Roobol, Regional Director and Director for Middle Europe, and **Silke Stumvoll,** PR Manager at Axis



Björn Westphal of Monacor shows the new video product lines



Martin Kerthaler, Director of international Marketing at the EVVA stand



Andreas Conrad, Marketing Director at the video management company SeeTec



Christoph (l.) and Michael Michailidis (r.) show the anti burglar protection by CM Security



Gatherings at the **GIT SECURITY AWARD Ceremony**



COVER STORY

Open the Future

Mobile Access and Cloud Solutions Fuel Market Growth

The market for access control is booming. While some companies in this marketplace have just recently developed electronic locks and started their business with electronic systems, Salto Systems has always been a pioneer in developing new access control concepts and innovative products. At Security Essen in Germany, GIT SECURITY had the opportunity to talk to Marc Handels, Vice President Global Marketing & Sales at Salto Systems, about the market and Salto's newest developments.

GIT SECURITY: Marc, when you look around here in the halls at Security Essen with a focus on access control, isn't it good to see that a lot more companies offer electronic systems now?

Marc Handels: Yes, we are in the middle of a massive change. The market for access control system has changed radically in the past years and we have seen tremendous growth especially in the last two years. While initially our systems started as an offline system to be a substitute for mechanical locks especially in niche markets like hotels, we now handle many large projects, where our locking systems are used from A to Z. We started

as pioneers promoting offline systems for special applications and some markets only, but now we have solutions for all applications, offline and online, for several doors or up to hundreds of doors. Until now we have equipped more than three million access points and our revenue has grown to more than 100 Million Euros per year.

What are the reasons for the rapid market growth and the growing market share of Salto?

Marc Handels: There are several reasons. First of all electronic locks are not limited anymore to the vertical markets where everything started like hotels, universities and later hospitals. The end user

customers like the flexibility offered by our systems and want to have various elements integrated into a system for their projects. This has led to the use of our systems in factories and production plants now and finally normal office buildings. This is a huge market. Additionally, the massive trend towards integrated systems pushes our business. The Salto Virtual Network SNV and the XS4 access control platform that we are presenting now in its second generation, are in the heart of many access control projects we have integrated together with a wide range of major access control companies including brands such as CEM Systems, Gallagher, Gunnebo, Honeywell, Siemens and Software House to name but a few.

ACCESS CONTROL

Security Where It Is Needed Most

Access Security for Mobile Microbiology Lab

STid was selected as an innovative manufacturer by IMeBIO for its multifunctional access control solution for end-to-end security. IMeBIO designs, manufactures and sells innovative mobile labs, in particular BSL2 and BSL3 biosafety labs designed for all sectors needing to study and analyze pathogens, whether associated with health risks, pandemics or bioterrorism. Security therefore needs to be optimal. These confined spaces need to be quick to set up, anywhere in the world, especially in countries where virulent strains can appear.



IMeBIO has to implement access control, not just for the end-to-end security of its mobile microbiology labs, but also in order to protect community health by limiting infection risks. Users need independent security management at all times, anywhere in the world. They need to be able to respond instantly to all critical situations in order to avoid health disasters. As well as the question of security, IMeBIO needs many applications to be integrated within the access reader, such as a key information display, in order to reduce the cost of the solution.

Secure and Reliable Identification Solution

The STid solution with its Architect touch-screen RFID readers, SSCP communication protocol and silicone wristbands was selected to secure the mobile labs. The 13.56 MHz Mifare Architect reader with display offers the best data security systems, using recognized public security algorithms that comply with the recommendations of the French Network and Information Security Agency (ANSSI). In order to guarantee end-to-end authentication, the STid SSCP communication protocol has been integrated into Architect readers to ensure security between the reader and management system. "Each mobile laboratory needs around ten readers to secure access to these sensitive areas and protect the community from infection risks," says Jean-François Jung, Director of IMeBIO.

Multiple Functions in One Reader

The solution developed is much more than an RFID reader for identifying authorized personnel. The touch screen provides two key functions:

- - Display: checks whether safety conditions have been complied with by displaying the pressure levels in the airlocks and laboratories, and checks for open doors. It can also display the company logo to promote brand image.
- - Touch screen: a button can be added to the screen to act as a doorbell or door release button. It can also display a keypad used for authentication or for activating auxiliary functions such as alarms.

IMeBIO also selected the RFID Architect touch-screen reader for its indicator lights and audio signals that manage user information in real time. The buzzer acts as an alarm if a door has been open for more than 10 seconds, alerting staff to a possible security breach. Multicolored LEDs also give users visual information, notifying them of access authorization, an open door or a decontamination operation that is underway, etc.

Independence and Control

The STid SSCP solution uses approved public security algorithms. This open software is compatible with all access control systems. STid uses tools that enables them to manage mobile lab security independently. IMeBIO needs to be able to respond

quickly for emergency action in difficult situations. The company is not dependent on STid to upgrade its system and security settings in response to real-time needs.

Results

By choosing the STid access solution, IMeBIO ensures staff and community protection without compromising on correct mobile lab security procedures, throughout the world. "The STid solution helps us secure our laboratories and protect human lives, while offering other benefits. The multifunctional readers considerably reduce integration, cabling and installation costs and save space. We have halved the number of machines we use and saved on 140 cables per laboratory," concludes Jean-François Jung. Architect readers and the SSCP communication protocol offer the highest levels of security and provide numerous possibilities for integrating auxiliary functions, such as a key information display, buttons, keypads, and indicator lights and audio signals, etc.

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ACCESS CONTROL MARKET

Electronic Lock Up

Market Data Suggests Access Control is Going Even More Wireless

Customer research points to continued strong growth for wireless locking solutions, as Thomas Schulz, Marketing and Communications Director, Digital and Access Solutions, at Assa Abloy EMEA explains.



As a major player in door opening solutions, Assa Abloy is always able to survey a large, representative segment of the professional security market. We did so recently, seeking insights into how the market for access control is changing. What we found is that it is evolving, and fast. Comparing our latest data with research we carried out in 2014 shows an obvious trend: our 2014 survey found that 23% of commercial properties were using a wireless or hybrid wired/wireless access system. By 2016 that had risen to 29%, with 5% of premises already equipped with a totally wireless solution. That's a significant leap in a short time. We published these (and other) findings in a free report entitled "The Wireless Access Control Market in 2016."

Already, 69% of our respondents considered wireless locks to be a cost-effective alternative to wired access control. And 62% even predicted

few business premises would still have mechanical locks within a decade. But why are companies making the switch to wireless?

Cost-efficiency, easy installation and compliance requirements for audit trails are often mentioned. Everything about wireless access control makes life easier for those who install or operate it. It's easy to extend an existing third-party access control system by switching mechanical locking cylinders for battery-powered, electronic Aperio cylinders, for example. You can incorporate them into the existing control panel via communications hubs (online integration) or via update-on-card (offline). Compare that to the wholesale rewiring needed to add more wired electro-magnetic locks.

Instant Security Increase

Swapping mechanical locks for electronic access control upgrades a door's security in an instant.

Smart cards eliminate key management headaches as well as security risks posed by any lost mechanical key – an all too common occurrence, and something that 86% of survey respondents also worried about.

Easy, effective integration of wireless lock technologies – like Aperio - with complementary CCTV, alarm, HVAC and other building management systems is another major benefit. "Wireless locks are often specially designed for integration with other systems. The integration capabilities and ease of use can be a significant benefit," writes Blake Kozak, a principal analyst at IHS Research, in a commentary on our publication.

Among our own product portfolio, Aperio wireless locks integrate with almost any leading security system, allowing facilities staff to bring access control much further into a site than would be possible with traditional access control. At i2 ser-



Mechatronic locking system based on patented, high-security cylinders, battery-powered programmable keys and encrypted electronic communications



Aperio wireless locks: integrate with almost any leading security system

viced offices around the UK, for example, Aperio locks replaced the slow and expensive job of hard-wiring every newly sublet office into i2's central access control system. Facility managers can now amend access rights remotely, instantly cancel lost keys or extend an existing access control system without disruptive structural alterations.

Typical Installations

Aperio is the access control backbone at Ghent's Maria Middelaes Hospital. It also enables real-time management at a new residential care home in Umeå, Sweden. Sensitive settings like these need the real-time information flow that only electronic access control can provide. In the event of a security breach at a medicine store or patient records room, wireless locks can generate detailed audit trails for locks, users or keycards.

Mains Unnecessary

Another Assa Abloy technology, Cliq, is a wireless, mechatronic locking system based on patented, high-security cylinders, battery-powered programmable keys and encrypted electronic communications. Its proven security credentials and the ability for in-house managers to issue contractors with programmable keys both assist workflow management in complex organization structures.

It is widely adopted in critical infrastructure settings around Europe. Such sites are often widely dispersed or remote (and often both). Cliq locks don't need a mains electricity connection, making them a perfect choice for reservoir pumping stations, electricity sub-stations and power generation or distribution facilities. Certified locks and encrypted communications between lock and system ensure stringent security criteria are met. In Helsinki, Finland, Cliq secures 3,500 interior and exterior doors at 70 different sites for Helsingin Energia, helping to ensure that 400,000 customers have an uninterrupted electricity supply. The whole

ecosystem is managed remotely from simple, web-based Cliq administration software. Industrielle Werke Basel needed a locking system that would equip it to face 21st century security challenges, as well as padlocks that could withstand extremes of climate and weather. Cliq delivered.



Thomas Schulz, Assa Abloy EMEA Director Marketing and Communications

Going Greener

Smartair is a separate stand-alone wireless locking system suitable for small to medium-sized premises such as offices, small hotels, nursing homes, schools and universities. Building managers at Frankfurt's Tower 185 chose Smartair for its easy installation and access rights processing speed. Because Smartair locks are wireless, they consume less energy and result in lower CO2 emissions than wired magnetic locks. It's no coincidence that

Tower 185 was among the first European high-rises awarded Gold LEED Certification by the US Green Building Council. The flexibility of Smartair was a major factor in the Red Cross's decision to select it for their new Córdoba headquarters.

Growth Market

Interestingly, our research also finds customers already considering wireless deployments beyond just doors. Well over half of respondents judged electronic access control well suited to securing server racks, cabinets, lockers, safes and machines, as well as padlocked outdoor structures. Flexibility makes wireless technology the natural solution.

"Interior doors, filing cabinets, carts and other deployments will increasingly use wireless electronic systems," says Kozak. "In deployments beyond doors, IHS expects mechatronic locks to see the most growth. Globally, we forecast that these devices will see volume growth of about 24% in 2016 as security personnel strengthen security to adhere to strict compliance regulations, which often require audit trails. Mechanical keys simply don't offer this level of tracking." With audit trail compliance, easy installation, cost efficiency and seamless integration, wireless access control makes life easier for security managers, installers and system integrators. This is the secret to its rapid growth, and the reason for its widespread adoption across many business sectors.

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ACCESS CONTROL

Power to the People

Getting Reliable Power around a Large Network and to Remote Devices

With the exception of self-sufficient solar-powered devices, every other component of a network requires power. This can come from the socket on the wall or be delivered along the data transmission wires – Power over Ethernet. Some careful planning is required to ensure that multiple remotely-powered devices are always kept happy. Altronix offers a wide range of useful products to address this issue.



For indoor installations providing a lot more than just a handful of volts, the eBridge 8E is an 8-port combined Ethernet over Coax (EoC) receiver and PoE+ switch. The single integrated unit, housed in a 1U 19" rack case, can be applied to upgrade existing coax infrastructure and deploy the latest IP devices. It provides up to 30W of power per port and Ethernet speeds of 10/100/1000Mbps. An integral battery charger is also included for applications requiring battery backup, and this can be provided by the optional 2U RE2 battery enclosure accessory. LINQ network communications technology is embedded to monitor, control and report power and diagnostics from anywhere.

Moving outside, the Net-Way-4EWP is one of a wide range of the company's managed PoE+ switches, specially built for use in harsh environments and still operating down to -40°C and up to 70°C. It is housed in an IP66 and NEMA4/4X-rated enclosure with space for a standby battery and provides power for up to four edge devices located up to 100 meters from the unit. The 1Gb SFP fiber port bundles data to and from the four 10/100/1000 Mb half or full duplex Ethernet RJ45 ports.

Locked Away

And to keep everything neat and tidy back in the equipment room, the Trove 1 and Trove 2 indoor

cabinets can be supplied with CDVI, Mercury, AMAG, Keyscan and Software House backplanes, with or without power supplies. The choice of backplanes available allows systems to be configured as required without unnecessary or unused capacity. Tamper switches and lock nuts ensure that unauthorized people remain curious about what's actually inside.

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Integrated Video Solutions for the Transport Sector

Advantech Europe has entered into a strategic collaboration with Mobotix, a manufacturer of intelligent, high resolution IP cameras and VMS systems. Its industrial and embedded automation solutions will use Mobotix cameras for video applications in public transportation, the transportation of money, valuables and goods as well as in emergency services vehicles. Typical uses are counting the number of passengers, heat mapping and crowd management.

www.advantech.nl

Wireless Access Control Strategic Partnership

Axis has completed integration of the Aperio RS485 hub from Assa Abloy with their A1001 Door Controller. One networked door controller can manage one wired door plus one Aperio hub, which itself manages up to 8 Aperio locks within a typical range of up to 25 meters – making a total of 9 doors per one controller. The controllers can be installed near the Aperio RS485 hub and wireless locks and a hard-wired door. The Door Controller uses Power over Ethernet (PoE) and does not require additional wiring for power cables. Installation is fast and inexpensive because Aperio locks are wireless, so there's no cabling or invasive building work needed. They run on standard lithium-ion batteries, and only 'wake up' when prompted by a smart card or other user credential. Aperio locks are compatible with Euro, French, Finnish, Scandinavian and Swiss door profiles, for exterior and interior doors, and for security doors.



www.assaabloy.com

Software Update for Enhanced Quality Security Videos

Bosch has just released its Video Management System 7.0 software, which will empower security operators to effectively manage high-resolution video streams in their day-to-day work. At the rate that video cameras are evolving, keeping track of an ever-growing amount of high-resolution video data is becoming even more challenging. In places like metro stations and airports where many cameras are needed, the burden on a workstation is very high. If a workstation is overloaded, the client application will often lag. This is a great obstacle for security operators who need to view many cameras at once in order to maintain a complete and uninterrupted overview of a location, such as an airport terminal. With the version 7.0 VMS, however, the user is able to keep multiple UHD (Ultra High Definition) cameras open without having to worry about slowing down the application. It uses 'streamlining' technology that automatically shows the optimal video resolution on the screen. If an operator needs to view many cameras simultaneously, the system automatically uses a lower-resolution stream. A higher-resolution stream is automatically chosen when enhanced pictures are required to zoom in or view on a full screen. This feature uses the multi-stream capabilities available on Bosch IP video cameras and runs on existing workstations. Communication between Bosch cameras and the VMS can now be encrypted. A security manager can choose to encrypt all control communications and videos through a secure HTTPS connection, reducing the risk of the system being hacked. Bosch VMS 7.0 also offers customers an IT security guide which explains how to set up a secure system, describing how to configure the VMS for Windows operating systems and how to secure video cameras against unauthorized access.



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Product door not shown in image. Fingerprint reader optional.

ACCESS CONTROL

Smart New Worlds

A Closer Look at Combined Mechanical and Electronic Locking Systems

The Evva company has been an innovator in mechanics for almost one hundred years. And the introduction around two years ago of the Xesar and Airkey locking systems marked the European start of Evva's own electronics division. Stefan Ehrlich-Adám, CEO of the Evva Group and Johann Notbauer, Divisional Head of Market Innovation and Technology, reported during a press conference at the Security event in Essen on news from both worlds.



CEO Stefan Ehrlich-Adám (right) and Johann Notbauer, Divisional Head of Market Innovation and Technology, Evva Group

Evva is increasingly moving to oil and water-free manufacture of its products – Clean Production – which brings a number of advantages as well as numerous prizes for sustainable innovations, among them the Environmental Prize of the City of Vienna. “Innovation is anchored in our DNA, so to speak”, says Ehrlich-Adám. As part of its corporate social responsibility, Evva also uses a lot of solar energy from its own photovoltaic system on the factory roof. This delivers around 150,000 kWh each year and meets about 6 percent of the total energy required.

Smart New Ways

“Under the motto of ‚Smart New Worlds‘, we are progressing the Evva product range that we started in 2014 with the launch of our Xesar and Airkey electronic lock systems”, says Ehrlich-Adám. “A world without mechanical locks is still a long way off. Both electronic and mechanical types still have their justification and meet individual requirements and needs.” The solution is nowadays more often than not an individually chosen combination.

The Xesar range includes four products to fit every door installation, such as the closer, the cylinder, striker or wall-mounted reader. They blend into their environment both in function and design. Various types of identity media are available

and authorization is assigned through the Xesar software. Information from this is transmitted to the identity media via a coding station or the online updater. Multiple systems can be administered within an installation and multiple time profiles created for each individual user.

The Smartphone is the Key

The Austrian-developed and manufactured Airkey system provides a flexible solution, above all for companies with multiple operational locations. It needs no separate IT infrastructure because a smartphone, the Internet and an Airkey cylinder are all that this locking system needs, as the smartphone becomes the key. The free Airkey app shows access authorizations and their validity and the phone can be used – if authorized – to program other identity media such as Evva cards or key fobs. Data transport is securely encrypted in all direction so the Airkey lock cylinder stores recent events and can report these back to the phone for further administration.

Now Available: the Airkey Padlock

An electronic padlock completes the current Airkey range. It is intended both for indoor and outdoor use and flouts bad weather conditions thanks to its IP65 rating. The robust padlock is ideal as a system extension for stationary external locking situations

that should be locked at defined times and the events recorded, for example at self-storage compounds, lockers in public areas or equipment cupboards. Online administration defines who had access where and at what times.

The company's 4KS combikey is a reversible key system with asymmetrical left and right sides. The system is built to resist the hardest operating environment and has enormous encryption strength. Drilling protection has been improved and now meets EN-1303:2015. The key's Magnet Code System meets the highest security requirements of complex access hierarchies and the copy-protected system makes key copies virtually impossible because of the enormous number of variations. The combination of one permanent magnetism and two mechanical codes provides triple security.

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Integration of Video Analysis into Third-Party Systems

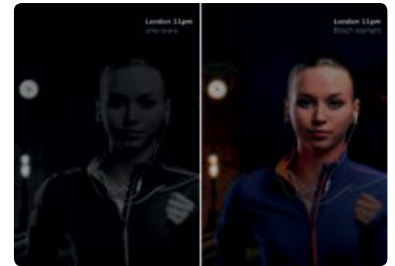
IPS Intelligent Video Analytics recently presented the complete spectrum of their video analysis and management solutions on four different stands at the Security trade fair in Essen. The highlight was the company's Analytics Manager, a web-based platform to simplify integration of the company's video analysis into third-party systems. It is available both for camera and server-based video analysis and currently provides eight intelligent modules. Among these are i-LIDS certified intrusion detection, privacy protection to pixel out sensitive regions and also public transport protection for the surveillance of trackways in stations. Additionally, Milestone Systems, Hikvision and Videor all participated in the presentation of effective integration of the Analytics Manager with their systems and solutions on their own exhibition stands. As an independent business unit, IPS had their own area on the Securiton stand. AS well as the complete portfolio of video analysis solutions, the Video Manager was demonstrated and, for example, could show how – with the help of modern 3D georeferencing – the exact positions of detected persons on a local map.




www.ips-analytics.com

Video Analytics at the Edge

Bosch has made video analytics at the edge a new built-in standard in all their IP cameras. Escalating demand for highly detailed, 24/7 video images produces colossal amounts of data, which requires extensive transmission and storage capacity. So the company now includes video analytics inside their cameras – at the edge – as a standard feature. This will enable users to effortlessly search through large amounts of video data using metadata. Bosch's starlight family will be the first to feature a full suite of 15 of its Essential Video Analytics, starting with the Dinion IP starlight 6000 fixed box and Flexidome IP starlight 6000 fixed dome cameras. All top of the line IP 7000 and IP 8000 starlight cameras will come equipped with Intelligent Video Analytics, offering up to 17 different analytic options and with the ability to differentiate between genuine security events and known false triggers such as challenging environments where snow, wind, rain, water reflections and distance could make images even more difficult to interpret.




www.boschsecurity.com



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The Surround Video Omni G2 series comprises four cameras with either 12MP or 20MP, built into one IP66-rated enclosure

VIDEO SURVEILLANCE

A Relaxing Hotel Experience

Arecont Vision Megapixel Cameras

Help the Davenport Grand Hotel Maintain a Secure Guest Environment

Excellent service, sublime surroundings and luxury within reach are all to be found at the Davenport Hotels in Spokane, Washington. The styles of the four-hotel collection extend from classic to contemporary, full-size to boutique and historic to modern. Guests can enjoy luxurious spa, wedding and business facilities as well as some of the best dining in the city. Opened in June, 2015, the 716 room Davenport Grand Hotel is designed to appeal to both business and leisure travelers.

Davenport Hotels has relied on an analog video surveillance system for the existing hotel facilities and structures. For the new Davenport Grand Hotel, however, the hotel management wanted to ensure the safety and security of its guests, employees and visitors while helping to prevent theft and other loss. It was also important to be able to capture images of the vehicles that come and go from the public garage used by hotel guests. This would enable the hotel to better deal with potential vehicle damage claims, which is a common issue in the hospitality industry.

Each of the Davenport Grand's planned camera applications would require highly detailed video, and the management team knew from the start that an analog surveillance system would not be sufficient. "We have other hotels that have analog cameras in operation, so getting a more current system with better clarity was a priority. We decided not to invest in an older system," said Kevin Miller, Corporate Director of Security for the Davenport Collection of Properties. Instead, an IP megapixel surveillance camera solution would be required.

Test Shots

Working with Spokane-based security firm A-TEC, the hotel narrowed its potential choices down to three camera vendors, each of which submitted a bid for the video surveillance system project. After evaluating all of the products included in the bids, the hotel chose IP megapixel cameras from Arecont Vision, primarily based on image quality. Exacq was chosen as the video management software.

"If we're going to build a new surveillance system, we need to make sure that we can actually see who was involved if we have an incident," said Miller. "We wanted an innately high-quality, flexible solution." The hotel management had a system design in mind, which Kevin Jetton, A-TEC's President, was able to refine based on what he saw after touring the facility. According to Jetton, the changes were largely based on the ability to cut the hotel's costs without sacrificing camera coverage. "We pride ourselves on determining what the areas of concern are, how we are going to address them and knowing which cameras will do the best job," Jetton

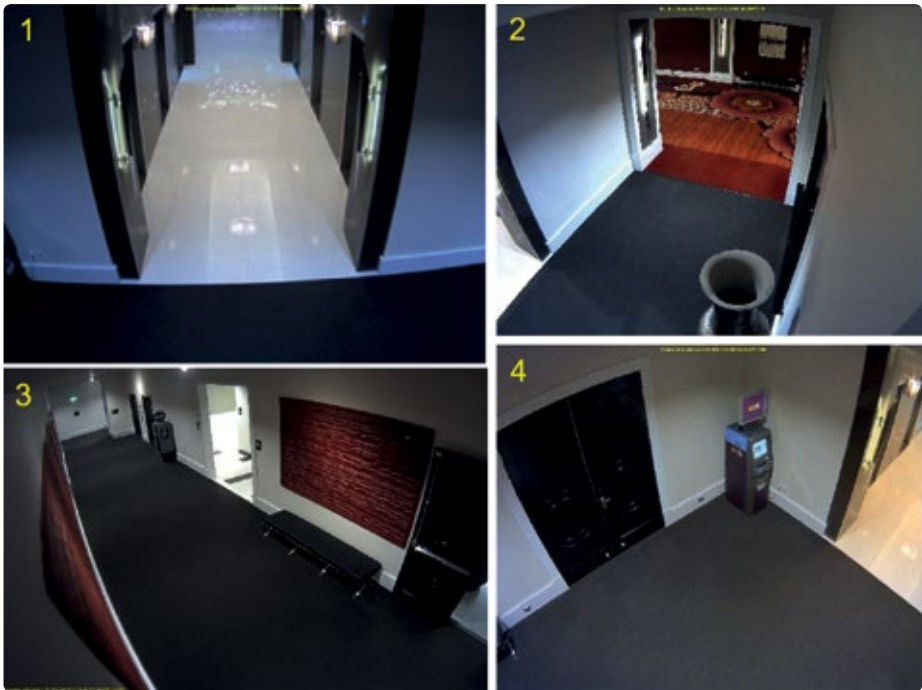
said. "We realized we could incorporate Surround Video Omni and other Arecont Vision megapixel cameras to lower the camera count and increase overall views."

Before moving forward with the modified design, A-TEC set up a software solution in conjunction with demo cameras provided by Kyle Kayler of Arecont Vision. These were used for test shots to provide to hotel management the types of views they would be able to get with the cameras Jetton recommended. "My partnership with Arecont Vision is unprecedented, and I knew that presenting the Davenport with this solution was going to be a success because we were all working together." The overall installation included nearly 70 Arecont

Vision cameras from several product



The four individual three-axis lens gimbals can be placed independently in nearly any configuration on the 360° magnetic track



Elevator lobbies can be completely observed from just one multi-sensor viewing point

families, all of which were deployed to suit the individual areas in which they were to be used. Stuart Wells of A-TEC led the onsite installation and integration of the system, working with the Davenport team.

Discretion Required

The hotel management wanted to ensure that the cameras wouldn't be the first thing that guests noticed. With a sleek, unobtrusive design, the Arecont Vision cameras have met those needs. "We certainly didn't want to give people the feeling that they're being watched throughout the hotel," Miller said. "We really like how the low profile

of the cameras and the multi-sensor capabilities enabled us to use just one camera rather than four separate ones."

Shortly after the installation was completed, Jetton conducted a test to see just how unobtrusive the surveillance system was. "I took two visitors with me to do a walk-through of the hotel when the installation was first completed and I challenged them to find the cameras. On many different occasions they didn't even notice that they were in the camera views," he said. "People are there to relax and enjoy their time; they don't want to feel like they are being watched by cameras."

Evidential Images

The Arecont Vision cameras have allowed the Davenport Grand to take a more proactive and preventative approach to security, something that would have been missing from an analog surveillance system. "We can see activity and hopefully stop and report behavior to prevent things from happening," Miller said. In terms of return on investment, the ability to avoid claims for which the hotel is not responsible has been a major benefit of the new system. This has been particularly the case with the vehicle valet service. "With these cameras we're able to look at the video and say with confidence whether a mark on the vehicle was there when he or she arrived at the hotel," Miller said.

The cameras have also helped with a number of instances of items disappearing from the exterior of the hotel. In one example, the security team was able to provide the local police department with video which led to the items being returned and the thieves apprehended. In addition to the Davenport Grand's potential cost reduction from a lower camera count, savings were realized in other areas as a result of the new surveillance system which is monitored on the premises.

"We can actually view the cameras from several different locations in real-time or in playback," Miller said. "These cameras help to reduce our on-floor manpower and increase our effectiveness because there can be one person on the floor and another person who is watching the cameras, who can cover ten times more area than one person can on foot."

CONTACT

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www.arecontvision.com

avsales@arecontvision.com



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VIDEO SURVEILLANCE

Cámaras de Seguridad

Hard Rock Hotel Riviera Maya trusts Hikvision for its Security

Located in the South-East of Mexico, the Hard Rock Hotel receives celebrities from all over the world, including couples celebrating anniversaries and families enjoying their vacation. The property covers 37 hectares and can host up to 3,800 guests in its 1,264 bedrooms. Additionally, several events are held at the hotel, from concerts to private celebrations, making the hotel a very crowded place. This is a lot to take into account before installing a video surveillance system.

There are 5,000 visitors circulating through its facilities every day, the Hard Rock Hotel in Riviera Maya needed to strengthen its video surveillance system.

Looking at the Problem

During those busy periods, the amount of people walking through the hotel really underlined the fact that the old security system was unable to monitor certain areas of the property, as there were only 16 cameras installed. Out of those 16 cameras, only 12 worked properly, which diminished this luxury property's capacity to react to any incident captured by its outdated security system. With such large amounts of people walking through the hotel, ensuring effective and comprehensive security surveillance, monitoring was becoming a big issue, one that needed to be resolved. For that reason, three years ago the hotel decided to invest in better security, so that its guests would not just feel comfortable, but also safe, especially those visitors arriving with expensive goods or with privacy requirements.

The Path to the Solution

In the analysis of the property, Julio Herrera López (security manager at the Hard Rock Hotel, Riviera

Maya), along with his team, evaluated the security conditions at the hotel and invited integrators to propose solutions. Out of the proposals submitted, equipment from Hikvision was chosen, because the system fitted the parameters of the hotel's project perfectly. Another factor in favor of the world's leading supplier in video surveillance and security solutions was their favorable warranty terms.

The Installation

The installation process of the new security system was developed in phases. In the first stage, 89 Hikvision cameras were mounted. Later, 30 additional units were installed and currently, the hotel has 324 Exir Series IP cameras, two DS-9664NI-I8 NVRs and two DS-96256NI-F16 NVRs, and one 4-channel video wall.

With the new Hikvision surveillance system now installed, the hotel can effectively monitor common areas, entrances, sectors with high flow of personnel and areas dedicated to hosting events, as well as external hotel areas. With the support of the new cameras it has been possible to protect 349 invaluable objects, including the 'Memorabilia' collection displaying celebrities' items. These items include a guitar and a jacket

from Elvis Presley, drums from Aerosmith and Matchbox Twenty, guitars from The Police and Bon Jovi (who starred in the inaugural concert at the hotel), and articles from Black Sabbath and the Rolling Stones.

Some guests have also expressed their satisfaction about the fact that thanks to the coverage of the security cameras, the hotel has the capability to avoid losses of guests' belongings.

"The challenge was to implement a system with the most up to date security technology," says Gilberto Rocha, Operations Manager at Opcom, the systems integrator in charge of the project. "We installed a 10km optical fiber trunk network for optimum video fidelity, which makes this project the first of its kind to use such an amount of Hikvision only IP cameras."

A Solution Appreciated by the Guests

"Thanks to this video surveillance system we can be aware of any event happening at the hotel, so for example, we can provide timely first aid when required, or keep an eye on children and our hotel staff to make sure they are safe. Similarly, we can react to any disturbance in our premises. The new security system has remarkably improved security at the hotel and we are now also able to record



The installation process of the new security system was developed in phases. In the first stage, 89 Hikvision cameras were mounted. Later, 30 additional units were installed



Thanks to the video surveillance system, the security staff can monitor the whole hotel

evidence of any situations or accidents that occur," says Herrera López.

With this camera solution, the hotel's 106 strong security team is able to monitor 2,300 hotel staff and 3,800 guests that occupy the hotel on a normal day, and if is necessary, up to 4,500 visitors during special events, such as concerts.

According to Herrera López, "Hikvision has worked hand in hand with the hotel from the very moment the installation of the system began. Engineers from the company traveled to Mexico to

supervise the operation of the security system. At the same time, integrator Opcom were prompt to provide any assistance required by the hotel."

The Hard Rock Hotel, Riviera Maya is so satisfied with the performance of the new system, that Hikvision equipment has been chosen for the security system for the Wood Ward Campsite, which is due to open soon, as well as for the Único Hotel. This establishment is currently under construction and located less than 15km from Tulum, in Kantenah beach (Riviera Maya). Following the

parameters of the video surveillance system and monitoring model deployed at the Hard Rock Hotel, Riviera Maya, 164 cameras will be installed at the Único Hotel.

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VIDEO SURVEILLANCE

The Tower

Securing a Landmark at the Pulse of Nightlife with Uniview

Fine dining, extraordinary entertainment, world-class nightlife – words that don't necessarily come to mind when thinking of a tower. They do however fit perfectly to California Tower in Hong Kong. If you can picture the vibrant nightlife, streets and people, then go a step further: Imagine the challenges of installing a security system in and around a tower environment. Uniview was chosen to do so.

Dr. Allan Zeman is the inventor of Lan Kwai Fong, Hong Kong's premier nightlife and entertainment destination. Lan Kwai Fong attracts millions of revelers from around the world. Amidst this entertainment district, California Tower rises to grow the value of the entire neighborhood. It even was prized by the Asia Pacific Property Awards in the category of 'Best Commercial Renovation/Redevelopment Hong Kong.'

Challenges and Mission

The challenge was the diversity of events that are held at the same time: California Tower is one of Hong Kong's premiere luxury high-end dining destinations, but also an entertainment destination and therefore one of the best night-time travel attractions with a very high flow rate. The owner of California Tower needed to replace its existing, inflexible and slow analogue CCTV system to an

effective, and comprehensive video surveillance system for their staff to monitor the tower easily during the day and especially at night.

Solution

In this video surveillance system, the cameras that were used by Uniview are compact and equipped with lowlight surveillance, Smart IR, 120dB wide dynamic range and 3D digital noise reduction. It was important to provide a high quality picture, handle very dark environment and avoid overexposure at the same time. The Situation required detailed monitoring for important objects, especially for night time and cope with high light contrast situations. Meanwhile, Uniview IP Cameras in combination with Uniview NVR provide significant features such as the one second instant playback, smart search and a mobile app access.

Result

This adopted solution combined with high performance IP cameras and user friendly functions led to remarkable changes for the staff being able to track back videos easily. The provided system has given the staff an easy option to investigate and resolve many security problems. It has made it possible to obtain extremely reliable and discreet video surveillance without disturbing customers or the overall décor of the tower.

CONTACT

Uniview Technologies

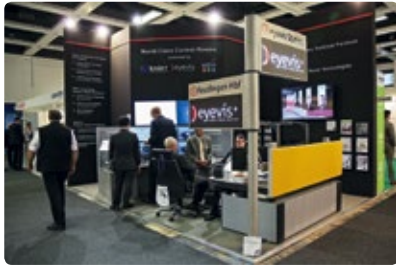
Hangzhou, Zhejiang, China

Tel.: +86 571 865 090 39

www.uniview.com

LED Module Series for Information Systems

Visitors to Innotrans in Berlin at the end of September showed great interest and positive reactions to eyevis' eye LED Module-Board O-2.5 train displays, based on LED modules. They mark eyevis' entry into the area of platform displays and information systems for airports and public areas. The innovative display format with a pixel pitch of only 2.5 mm, a brightness of up to 6000 cd/m² and with IP65 protection class represents a big step from former LCD solutions to promising LED technologies. They combine reliability during 24/7 operations and high readability as well as longevity and modularity. The content on display remains visible and perfectly readable even in challenging light conditions, such as in direct sunlight.



www.eyevis.de

Mobotix Software Not Vulnerable To IoT DdoS Botnet Mirai

Several internet articles recently claimed that Mobotix cameras were vulnerable to malware and could be used for botnets (a network of infected PCs). These claims are unsubstantiated. The Mirai Botnet mentioned makes use of the 'telnet' or 'ssh' network protocols, but these are not active on Mobotix cameras. Therefore, they cannot be used for botnets and consequently are not vulnerable to the Mirai Botnet. The company generally advises customers to change the standard admin password during start-up and to keep their cameras current by using the company's free firmware updates, as described in detail in the manuals as well as in the quick install guides. In general, customers are responsible for securing their product and application. This is common practice when providing network infrastructure and video security solutions.

www.mobotix.com

Ultra-Low Bandwidth Camera Platform

Panasonic has introduced a network camera range that combines Full HD resolution with the company's latest software, capable of reducing storage and network bandwidth by as much as 80 per cent beyond H.265. The WV-S1132 and WV-S1131 box cameras are the first from Panasonic's i-Pro Extreme camera platform. Also launched are the WJ-NX400 recorder and WV-ASM300 software. Both cameras are equipped with a 1/3" sensor that delivers color images even in very low light conditions. The Smart Coding technology has a variable image quality function, which helps to reduce the total bandwidth by categorizing and recording different areas of the image at different quality levels. The system offers data encryption, communication encryption and a verification and identification key system for high security



business.panasonic.co.uk/security-solutions

Partners Show Interest in Dormakaba Leadership Partner Program

Dormakaba has presented its newly-developed 'Dormakaba Leadership Partner Program'. This takes the experiences of the former Dorma System Partner and Kaba Partner programs into consideration as well as the needs of existing partners and customers. The updated program is aimed at companies locking technology firms, software and system houses from interior glass and door technology suppliers, security and access control solution providers and time and data management firms as well as distributors.

www.dormakaba.com

Upgrade for Dome Cameras

Axis P32 Mk II series fixed dome cameras now provide even better image quality with upgraded sensors and image processing. The series now offers all the beneficial features together: wide dynamic range (WDR) forensic capture, Axis' Lightfinder and optimized IR technology, achieving HDTV quality in all light conditions at an affordable price. Many of the models have built-in near infrared (IR) illuminators that allow the capture of high-quality video in total darkness. The series includes dust and IK08 impact-resistant indoor models as well as weather and IK10 impact-resistant outdoor models. All have day/night functionality and support P-Iris control for optimal image clarity and depth of field. The cameras' varifocal lens with remote zoom and focus capabilities provides an efficient way of adjusting the field of view to a specific area of interest.



www.axis.com

Confident Appearance at Security Essen 2016

'Smarter Access Means Security' was the motto as Dormakaba showed the entire spectrum of their broad product portfolio for the first time. Customers, partners and interested visitors were impressed by the splendid show. On view were, amongst others, the web-based Kaba exivo access system, elegant electronic door releases, the Mobile Key hotel solution and further door solutions. A highlight was the Virtual Design Center virtual reality application that led visitors through a virtual and very futuristic headquarters building.

www.dormakaba.com

Upgrades for Key Management System

Morse Watchmans has introduced enhancements to its Key Watcher Touch that are designed to make the key management system even more flexible and useful in fulfilling the safety and security needs of resorts and casinos. The features recently presented in Essen include security and notification upgrades and ease of use improvements, all driven by real-world customer feedback. New security features protect the system from cyber breaches via the network. With the firewall enabled, all incoming traffic is ignored unless it is on the specific ports the system requires for network and server communication. The data exchange can now be encrypted with ES256 technology with a pre-shared key, definable on a site-by-site basis. The management system is also now integrated with Amag Technology's Symmetry V8.0.2 Access Control System.



www.morsewatchmans.com

Ultra-Small Camera Module

The MP1010M-VC is a tiny and extremely powerful camera module no bigger than a matchbox (31.9 x 41.5 x 58.4 mm) and available now from Tamron. It features a 10x zoom and high-level photo optical image stabilizer. It is fitted with a 1/3 inch image sensor that provides a resolution of 1,920 x 1,080 pixels (Full HD) at up to 60fps. Many different interfaces such as USB3, IP/H.264, HD-SDI und HDMI can be provided through the LVDS output, making it highly compatible in many environments. The lens offers f1.8 in wide-angle and f3.4 in zoom mode, which helps to keep initial noise to a minimum under poor lighting conditions and which is further minimized by the integrated 2D/3D noise reduction.

www.tamron.eu

STADIUM SURVEILLANCE

New Talent

A Video Matrix Upgrade for a Stadium Surveillance System

The multifocal cameras provide simultaneous wide-angle and zoom images



The Stadium of Light is the home stadium of Sunderland AFC and has a capacity of about 49,000 spectators. It was built in 1997 on land previously occupied by the largest coal mine in Great Britain, the Monkwearmouth colliery. Even today, an enormous Davy lamp stands in front of the stadium, and the name itself, the Stadium of Light, is a reference to the mineworkers' safety lamps.

Analog and Digital

Dallmeier was responsible for an upgrade of the existing video surveillance system at the stadium that was originally installed in 1997. The modernization requirement originated in the need for high definition technology for inside bowl coverage to improve image quality, especially in the away fans section.

It became apparent quite quickly that modernization of the control room equipment was paramount in achieving this. In consultation with the club and their installer ABCA, the company explored and designed a video management system that uses a virtual matrix, a network based technology known as SeMSy (Security Management System). This is more flexible and expandable than the current analog switching matrix and more importantly, it can manage video from high definition and megapixel cameras. SeMSy enables multiple workstations to be positioned anywhere on the video management network and is not limited by physical ports for expansion. The virtual matrix enables the creation of flexible monitor walls to displaying images in a variety of formats and allows

The 'Stadium of Light' in Sunderland, England, has modernized its video system using Dallmeier technology. The Panomera multifocal sensor system has also been installed and provides surveillance images, particularly in the area for visiting fans.

users complete control over how they configure their own screens and also the access privileges of remote and ancillary users.

SeMSy along with Dallmeier encoders and video appliances allowed the existing 96 analog cameras installed at the stadium to continue to be used while also giving the control room an up-to-date platform. This made it simple when further budget or risk requirement presented itself both to replace existing analog cameras and to introduce new IP-HD technology.

Peter Weymes, Facilities Manager at Sunderland AFC, commented: "The SeMSy management system coupled with the company's recorders gave us a very flexible solution. It allowed the existing analog cameras and a few new IP-HD cameras in strategic positions to come together easily and provided a platform allowing us to add new technology as and when required."

Multifocal Sensor Technology

At the same time, the increasing problem at the away fans section of pyrotechnic flares and smoke bombs as well as other anti-social behavior was considered. A trial of Dallmeier's Panomera multifocal sensor technology was started specifically for the away fans section of the stadium. Peter Weymes explains: "After trying and comparing a number of manufacturers' video surveillance technologies, Panomera with multiple sensors gave us a wide area of view while just requiring a single point of installation, and offered us a very cost effective installation."

The new installation proved its worth within a few weeks of its installation as Sunderland AFC played host to Leeds United in the FA Cup. A smoke grenade was set off in the visitor's section of the north stand and, using the new system, police and club security staff were quickly able to identify the individual and an arrest was made. The individual pleaded guilty and was given a three-year football banning order.

Paul Weir, Security Manager at Sunderland AFC, comments: "The Panomera gives us the bonus of being able to rewind incidents to their origin whilst zooming in to identify offenders, without having to stop the viewing and recording in live time. This gives us quick and effective results. I have been very impressed with the recent CCTV upgrade process from installation, to training and to actual operational use", he explains. "Longer term, supporters will become aware of the capabilities and power of the Panomera. Those who may have previously thrown missiles or set off pyrotechnics will be dissuaded from doing so because of the capability of this system. This technology plays a major role in improving spectator safety management at the Stadium of Light."

CONTACT

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www.dallmeier.com

Updated Graphic User Interface

Bosch has given its Access Professional Edition (APE) software solution a more user-friendly interface. APE 3.4 allows installers and system integrators to manage access control and includes reception registration, badge registration and entrance control to entrance monitoring, alarm management and video verification. The updated user interface is more streamlined and reduces potentially distracting features by using a smaller range of colors. It also updates more efficiently and faster. The comprehensive security solution can be integrated with other building management and security functions, such as elevator management and intrusion protection. It is also integrates with Milestone xprotect video management software.



www.boschsecurity.com

CPU for Key Management System

Morse Watchmans has introduced a new generation CPU for its Key Watcher Touch system that is faster, stronger and more adaptable to meet and exceed the needs of current and future applications. The increase in processor speed, coupled with memory, offers vastly improved performance with a much more sensitive touchscreen, faster user interface and improved sync times when encrypting and decrypting communication data. Lists of keys or users in selection screens also show much more quickly and key selection by number/name is faster and more responsive. Memory capacity and speed has also been increased, and the number of USB ports has been doubled to 6.

www.morsewatchmans.com

VMS and CSIM Integration Streamlines Event Responses

OnSSI has expanded the feature set of their Ocularis 5 Video Management System (VMS) with integration of Vidsys' Converged Security and Information Management (CSIM) software. This allows CSIM operators to view real-time and recorded video from within the Vidsys software. Video can be displayed in response to manual user selection and can be automatically displayed when an event is detected and reported by CSIM-integrated access control, intrusion detection or other systems. Operators can control PTZ cameras and playback stored video using standardized controls across different video recorder products, and define, store and bookmark specific video clips and snapshots for easier post-event analysis.

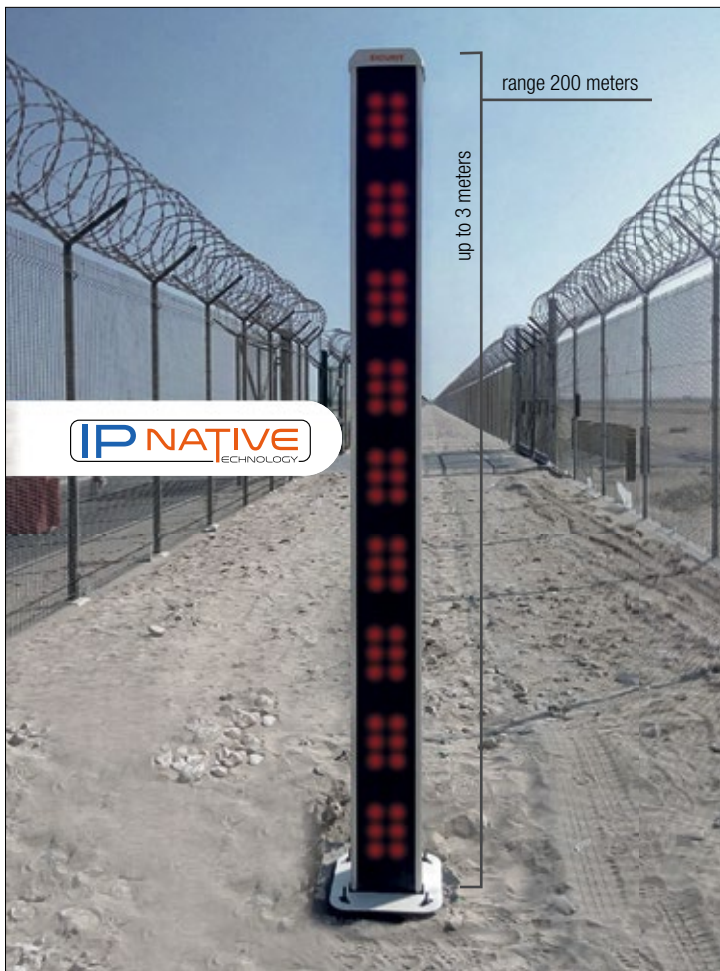
www.onssi.com

Mobile App for Network Intercom and Security System

Users of the Aiphone IX IP network PoE intercom and security system are now able to remotely utilize many of its key features via their Android and Apple smartphones and tablets, thanks to the launch of a mobile app. The free mobile app, available from the Apple App Store and Google Play Store, enables users to receive calls from any IX Series intercom unit, including the IX-MV master station, and activate release contacts such as door strikes. The mobile app is equipped with four buttons for users to program commonly used functions with the ability to view any door or emergency station.



www.aiphone.co.uk



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SECURITY FOR AIRPORTS

Ultra Interesting

Bosch Addresses Situational Awareness in Airport Video Surveillance

Airports are complex environments with perimeters, parking structures, terminals, aprons, airfields, shops and restaurants. Each airport zone faces its own particular set of surveillance challenges. Solutions need to be tailored to a multitude of security risks including bomb threats, sabotage and the hijacking of aircraft as well as commercial risks such as theft, vandalism and harassment. Airport surveillance must also be configured so that operations are monitored both inside as well as outside the building and ensure the safe flow of passengers throughout, under all environmental and lighting conditions.

Every airport has large open areas such as at check-in, the luggage drop-off, the security check and border control. Crowds of people enter, queue and leave here so it is important to monitor their flow and to constantly check the overall situation. In such environments, Bosch panoramic cameras with 180° and 360° lenses can offer full situational awareness without any blind spots.

The company's 4K ultra HD cameras with very high resolution can provide a detailed overview of a large area or monitor a large crowd. Combining high quality resolution with the ability to set certain areas of interest, it is possible to focus attention on one or several regions while maintaining the complete overview. Such functions are essential for identification purposes and to ensure that suspicious individuals can be tracked in a crowd.

When combined with a telephoto lens, the 4K ultra HD cameras enable person identification at up to 130m and detection at up to 1,300m. Ultra HD also ensures effective retrospective analysis is possible in the event of a security incident.

Analytics at the Edge

In airport retail settings, shops and restaurants see huge volumes of people pass through their doors.

This invariably comes with a higher risk of theft and security issues. Bosch Essential Video Analytics provides 15 video analytics algorithms that can be used for intrusion detection or to help to identify thieves. It can also be used to detect suspicious behavior on the shop floor. In addition to surveillance, the package can also provide several important business analytics benefits such as a combination of crowd density and movement information for the optimization of shop layout. In other applications, the combination of people counting and objects in field information can prove useful for the analysis of in-store promotions.

Environmental conditions pose some of the greatest challenges for airport surveillance. Some light condition changes are predictable (day/night), while others such as the headlights of a passing car or just scattered clouds are not. Bosch network cameras with built-in video analytics can detect changing lighting conditions and adapt settings in real time. Network cameras with Intelligent Video Analytics - such as the Dinion IP starlight 8000 MP - are specifically tailored to provide reliable video analytics with minimum false alarms under the most adverse circumstances. These cameras can easily detect the difference between rain or snow and an object of interest and thus greatly reduce the number of false alarms triggered by the environment.

Hot and Cold

Cameras at airports also need to be robust enough to withstand some of the harshest climatic conditions and to continually provide high quality images regardless of sub-zero temperatures, severe storms or extreme heat. With this in mind, the Bosch MIC IP camera family is specifically tailored to provide round-the-clock video analytics under the most adverse circumstances, including -40 °C to +60 °C temperatures, severe winds of up to 209 km/hour sustained and 100% humidity (acc. IP68 / NEMA 6P).

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 www.boschsecurity.com



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PERIMETER PROTECTION

Nuclear Safety

Perimeter Protection for Training Facility in Pakistan

Pakistan's Nuclear Regulatory Authority (PNRA) has established a physical protection exterior laboratory (PPEL) in Islamabad – a facility for the training of security professionals in nuclear power plants. It is sponsored by the International Atomic Energy Agency (IAEA) Vienna, Austria. Perimeter protection comes from the Italian manufacturer Scurit.

Scurit's Pakistani partner, Technology Windows Enterprises based in Rawalpindi Pakistan, was awarded the contract by IAEA. It contained the design, procurement,

installation and integration of intrusion detection systems, access control, CCTV and a variety of physical barriers.

A number of Scurit sensors have been deployed in PPEL by Technology Windows Enterprises: Dual Technology barriers (Absolute Pro), IR Beam barriers (Avantgarde), Microwave barriers (Dave), Wall vibration sensor (Wall Guard), and the company's security management Software (HyperPower).

All pictures: Scurit



Essential Requirements

The client intended to deploy a variety of intruder detection systems (IDS) – to demonstrate the trainees the current level of IDS technology, and different techniques that are used to detect intrusion attempts. The participants learn how to ensure reliable performance of these techniques under any environmental condition – simultaneously ensuring a low false alarm rate.

Sensors

For training purposes the PPEL depicts a mock-up of a nuclear power facility comprising a protected area perimeter (PAP), and an associated vital area (VA). There are about 18 different types of sensors deployed to demonstrate the variety of sensors – including the technology associated with it – that is available to secure facilities like nuclear power

plants against the threat of terrorism or vandalism. A number of Scurit sensors have been deployed in PPEL by Technology Windows Enterprises: Dual Technology barriers (Absolute Pro), IR Beam barriers (Avantgarde), Microwave barriers (Dave), Wall vibration sensor (Wall Guard), and the company's security management Software (HyperPower).

The major reason for selecting the Italian manufacturer's sensors was their experience in developing and producing devices that are especially designed to protect highly sensitive sites – and the company's partners ability to successfully install, integrate and provide maintenance support during warranty and thereafter. The experts of Technology Windows Enterprises have been trained and certified by Scurit for installation and integration.

Wall Guard

The Scurit system Wall Guard has been developed for the protection of sensitive buildings that could be breached by means of breakthrough attempts, providing an additional prevention which results reliable against nuisance alarms caused by environmental factors, cost effective and easy to install.

Wallguard most requested applications are for banks caveau, logistic depots, data centers and remote warehouses.

How it works: The system operates by means of a sensor cable that can be mounted on walls or drowned during building constructions into the reinforced concrete. Wallguard detection principle is based on vibration analysis able to properly filter nuisances which could be caused by nearby heavy track movements or thunders.

No sensitive zones: Where detection is not required, NO sensitive zones can be created using Junction boxes and standard cable (e.g. in order to bypass gates or simply remote the Evaluation unit from the protected surface).



See also video ▶▶▶

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Cameras With H.265 and U-Code



2MP H.265 Vandal-proof Fixed Dome



2MP H.265 Turret Fixed Dome



2MP H.265 Mini Bullet

Uniview has released 2MP/4MP H.265 and U-code series IP cameras, including a mini bullet, a vandal-proof fixed dome and a turret fixed dome format. The series are based on a Hisilicon H.265 chipset, support U-code optimized deep compression technology as well as face detection, intrusion, crossing line, and people counting. The intelligent region perception detects motion in each frame and can reduce up to 50% bandwidth but keep high image quality. www.uniview.com

Camera Series Updated

Axis Communications has updated its Axis P32 Series, a range of affordable cameras that provide high image quality in any light conditions. The successor cameras combine the company's Lightfinder technology, which gives optimal light sensitivity with color video down to very poor light conditions, with WDR Forensic Capture technology, which optimizes for forensic purposes by providing a high level of image detail in both dark and bright areas of a scene. Many of the models have built-in near infrared (IR) illuminators that allow the capture of high-quality video in total darkness. The cameras are ideal for the banking, retail, hospitality and education sectors, and are also useful for medium-sized installations in city surveillance, transport, healthcare and industry applications. www.axis.com



Wireless Lock Integration and Connected Partner Program

Tyco Security Products has updated its Entra Pass security software from Kantech with integration to Assa Abloy Aperio wireless lock technology for deeper door density and a reduction of wiring costs. It also launched a Connected Partner Program for integration with third-party partner technologies. The integration provides an affordable way to bring the flexibility of wireless locks to any door in a facility including cabinets, drawers and server racks, with little operational disruption. The wireless locks are ideal in settings such as universities, pharmacies, hospitals, human resources departments, data centers and any other door where electronic access control was previously cost prohibitive. The wireless locks are built for environments such as mortise, cylindrical and exit devices for standard doors or as an electronic cylinder to replace a traditional mechanical keyed cylinder. www.kantech.com



Ultra HD Camera

With the DDF5400HDV-DN, Dallmeier presents a 4K camera with ultra HD resolution. The extremely high resolution camera series has been designed especially for applications requiring very high resolution images in real time. They are available with an integrated lens in a vandal-resistant dome housing, can be conventionally supplied from an external power supply or conveniently with Power over Ethernet. Sophisticated image processing enables real-time recordings with UHD resolution at up to 25/30 fps (2160p/30). The camera is equipped with a removable IR cut filter and different day/night preset exposure settings can be defined. Adjustment of the motor-driven megapixel varifocal lens is made using a web browser. www.dallmeier.com

U.T.SEC 2017

UNMANNED TECHNOLOGIES & SECURITY

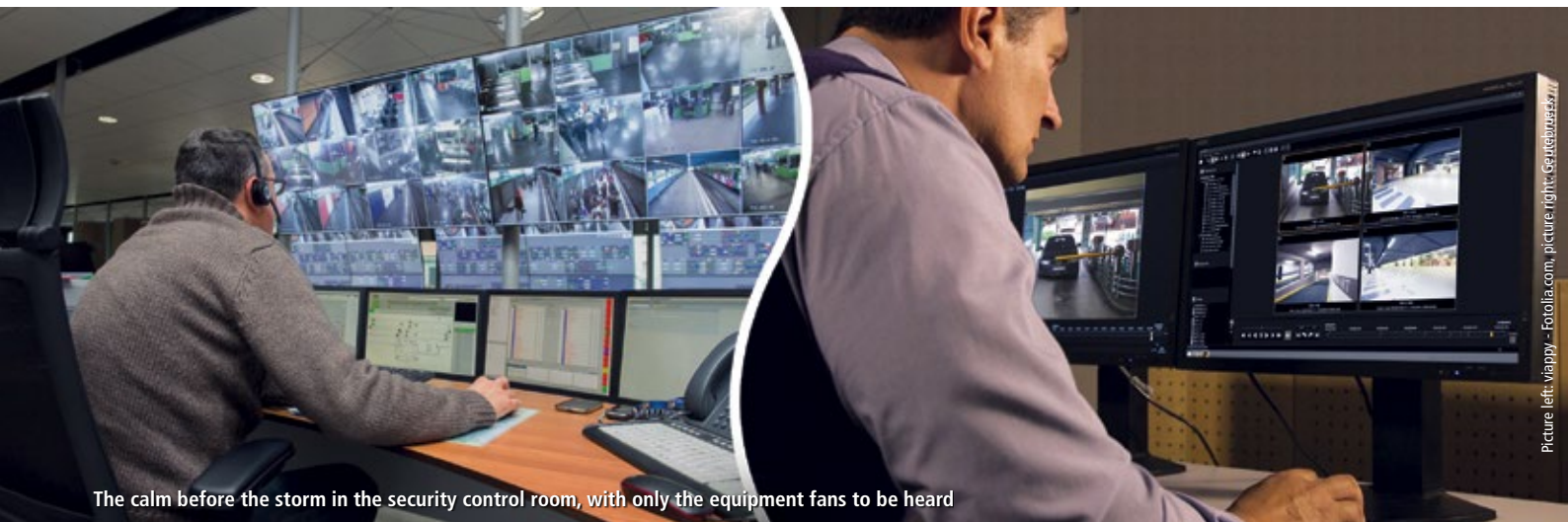
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utsec.de/en





The calm before the storm in the security control room, with only the equipment fans to be heard

VIDEO SURVEILLANCE

System Integration

A Bonus for Video Security

Geutebrueck has developed a way of integrating multiple systems into one homogeneous whole: the G-Link Integration Server is a central platform that forms the hub for all the network interfaces. There is no need for the tiresome development of interfaces between each and every system anymore. G-Link connects them as equals and even provides simultaneous communication of all the connected systems. Michael Kampmann, Technical Marketing Consultant at Geutebrueck, explains the benefits of this approach.

Fence sensors, under-floor microwave lines, motion detectors, smoke detectors, break glass sensors, door contacts, video cameras everywhere – access control, locking system, escape door control unit, intercom system, building management system, video surveillance system with video analysis etc. etc., and all of it together with highly specialized, reliable security devices. The ‚command center‘ with various, computer-supported user interfaces on the many monitors and diverse control devices, approaching the level of complexity of the cockpit in a commercial aircraft ... it can be awe-inspiring.

However, when multiple systems report an alarm at the same time, the time for rest is sudden-

ly over. The various alarm messages must be understood and evaluated. Corresponding video images must be obtained to be able to assess the situation. Suitable countermeasures must be coordinated immediately. But where should you look first? Which messages have a higher priority? And where is the alarm confirmation button for system number 3 again? A high level of stress for the security staff!

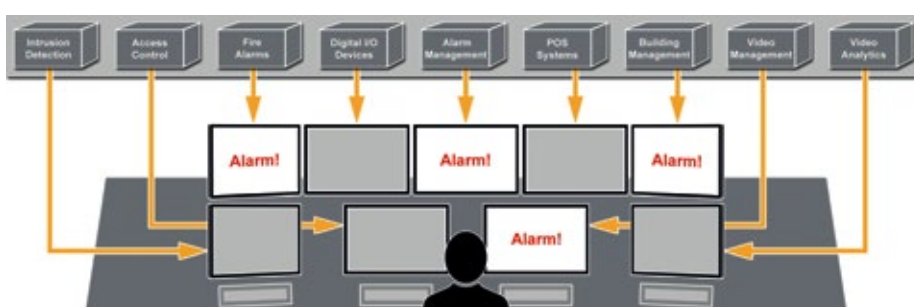
Specialized security systems can provide optimum preventative protection in their own functional domain and report any irregularity immediately. But what good is the best technology if operators are overwhelmed by the numerous systems when an incident occurs and – in the worst case – are not able to react properly?

The Solution Is Integration

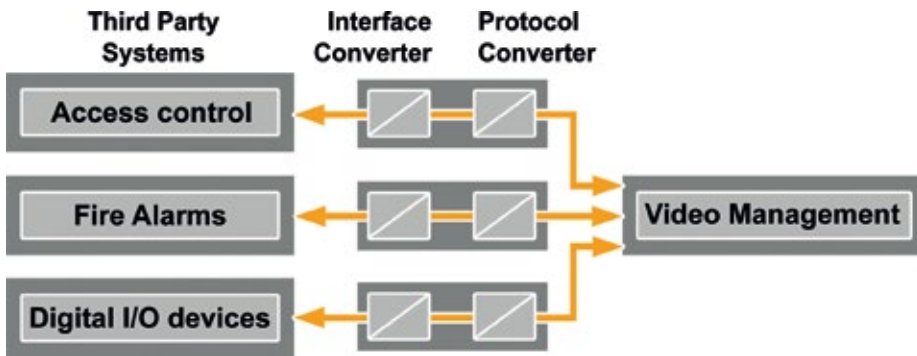
Integration means the sensible combination of all the specialized systems in use so as to create a homogeneous security system with a centralized user interface with cross-system control and operation. This is only possible if the systems can communicate precisely with each other. Each individual system has different tasks and naturally uses a protocol that is tailored to its own tasks and functions, similar to its own ‚language‘. As a result, a ‚translator‘ – that is a protocol converter or interface interpreter – is required to enable communication between the different systems.

Just a few years ago, many security systems were connected point-to-point in a cumbersome way, often using serial interfaces (RS-232, RS-485) with project-specific and individually programmed protocol converters. As a result, alarm messages or failure messages were generally reported to the corresponding main system without deeper access to additional control functions or metadata information.

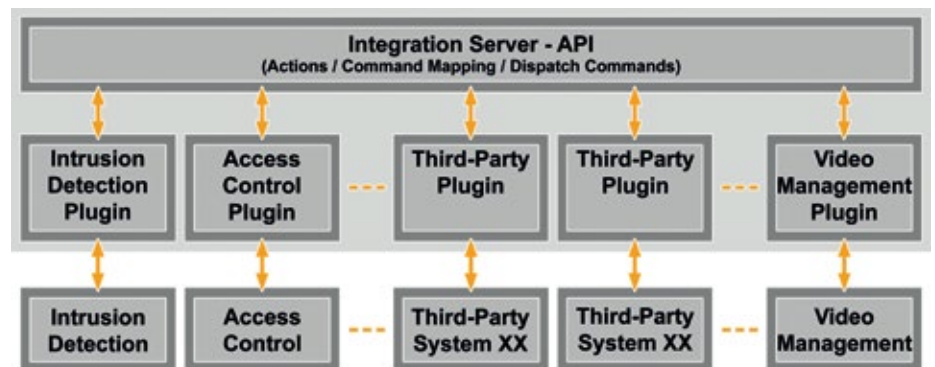
With the proliferation of TCP/IP networks and their establishment in most respected security systems, a standardized transmission medium has emerged that has made the exchange of information significantly easier. Nevertheless, the different control and information protocols of connected



Multiple alerts from different systems suddenly create a high level of stress for security personnel, who must rapidly take informed decisions



The 'bridge' between different systems can be enabled by Software Development Kits (SDKs) that reveal the control protocols. But these are often project-specific and not fully featured



An Integration Server equipped with the appropriate higher-level APIs clears the path for total communication between each and every plug-in of attached systems

systems must also be 'translated' in order to be comprehensible to other systems.

SDKs (Software Development Kits) are the primary tool here for the adaptation of protocols of the various security systems. These SDKs are now offered by many manufacturers. They contain disclosed control protocols (control commands and information query commands) that can be used to develop a software interface that makes communication between two systems possible. Because these SDK interfaces are often developed for a specific project, they frequently do not contain the complete possible scope of functionality of the two systems. In addition, we are still dealing with a point-to-point connection. This means, two systems are linked together.

When connecting multiple systems to a main system, a separate SDK interface is needed for each one, making communication directly between the subsystems (third-party systems) very difficult. It should also be noted that each SDK interface must be configured individually to obtain the required functionality.

Central Integration Server

A completely new approach to integrating numerous security systems is a central integration server that provides a separate plug-in (software interface) for each connected system. These plug-ins work in parallel with a superordinate API (Application Programming Interface) that, as a kind of 'simultaneous translator' of the protocols, makes the communication of any plug-in with any other

plug-in possible. As a result, each connected security system can control any of the other systems and exchange data with them. This software architecture opens up another level for the potential of collaborative functionality of integrated security systems.

A central instance with direct access to the various plug-ins makes programming easier and provides an overview of all the configured control links. Disturbances and interruptions in the network are overcome by the automatic establishment of connections. An optional redundancy mode with two synchronized servers provides increased failure protection during operation. And additional plug-ins will be continuously available.

Linked Across The Board

An integration server is a real asset for a centralized security system with embedded video or security management consisting of a large number of components. With a deep level of communication between the individual systems, status messages of all types can be directly associated with an automatic action/reaction of each system.

So, for example, complex alarm situations can be communicated to the user in a concentrated and clear manner with automatic presentation of relevant video images and metadata. Operation functions enable the parallel control of multiple subsystems. Recorded video images of alarm situations can be recalled in seconds using the metadata provided by the subsystems.

The Recommendation

The solution proposed by Geutebrueck is the G-Link Integration Server. It includes a software package for a stand-alone computer platform, including a dongle and upgrade activation for 1 year. The software package provides all the previously mentioned functions and is being continuously expanded with additional connections to interesting security systems (third-party systems). The connection to a third-party system is enabled using a G-Link software option that is activated for the dongle ID of the G-Link when purchased.

The configuration is simple and carried out using the multilingual TCP/IP client G-Link setup sequence. The system has a full set of software options for connection to respected security systems and is open for further future integration according to customer's needs. The key advantages for installers, end users and the manufacturers of security systems are obvious: interfaces can be easily acquired as a 'finished product' as the infrastructure of the software platform is already present. There are time and cost savings to be made because time-consuming detail coordination and project-specific software development are no longer necessary and, of course, comprehensive communication between third-party systems is enabled as well.

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Kent School, a private boarding school founded in 1906

NOTIFICATION SYSTEM

Messaging the Masses

A Mass Notification System with Premises: How Information Can Save Lives

Mass notification systems are designed to share information quickly and over a wide area – regardless of where the recipients happen to be at the time. It is the only way to ensure those at risk can react swiftly and appropriately. With Desigo Mass Notification, Siemens has developed a flexible solution for routine and emergency communications that incorporates modern communication methods.

A U.S. boarding school was recently equipped with this efficient technology. Kent School, a private boarding school founded in 1906, is located in the charming town of Kent, Connecticut, a two-hour drive north of New York City. Here, 570 students from all over the world are being prepared for the rigors of college. Ninety percent of the students are boarded on campus, living and learning in 19 buildings spread over some 1,200 acres.

Mass Notification as a Critical Task

For years, the school used a mass notification system to quickly notify students, teachers and staff

across the sprawling campus. Such systems are common in schools and universities in the U.S. They can be used to raise the alarm in dangerous situations such as tornadoes, earthquakes, gas leaks or even mass shootings. But the technology can also be used for important routine announcements. These systems often comprise individual solutions from different suppliers. Safety officers must usually invest a great deal of time and effort getting messages out over all the available channels. Because every minute counts when danger looms, the parallel use of different solutions often causes delays and even confusion, for example when background noise garbles the message over

an aging public address system. It does not take much for rumors to fly, causing uncertainty and even mass panic in the worst of situations.

The technical infrastructure at Kent School was highly heterogeneous and the mass notification system did not work reliably. In 2015, school safety officer Brian Hunt saw a vital need for new technology. "In dangerous situations, early warning is absolutely critical for maintaining control," says Hunt from experience. "Additional information must be disseminated without delay so the recipients know exactly what to do, such as when the danger is most acute."

The school wanted a smart solution from a single source and therefore turned to Siemens. The Munich-based enterprise is known in the U.S. as one of the leaders in life-saving evacuation and voice-alarm systems. After evaluating the campus and its existing systems, Siemens experts recommended installing a Desigo Mass Notification system directly connected to the fire control panel and equipped with integrated intelligent voice communication and individually addressable indoor and outdoor loudspeakers.

Numerous Communication Channels

Desigo Mass Notification is able to use a number of different communication channels. Messages can be displayed on flat screens, LED displays, and desktop computers as well as sent via SMS, e-mail, Facebook and Twitter. Acoustic messages go out over loudspeakers, fire safety system alarms and by telephone. Because the system is modular and scalable, users can customize the individual solution precisely to fit their needs. Should requirements change, the system can be adapted at any time.

The solution chosen by Kent School is built on the Desigo CC building management platform and features an Easy Button function that enables safety officer Brian Hunt and his colleagues to initiate preset alarms. The alarm is issued over high-performing Power-over-Ethernet (PoE) loudspeakers as well as via text and e-mail messages. Additionally, individual situation-specific messages can be sent over the channels mentioned, including using a text-to-speech function that turns text into spoken language. The alarms are also displayed on the computers connected to the school's network. Users must confirm they have read the message before they can continue to use their computer. Siemens also set up a general alarm function for Kent School: It prompts all students, teachers and staff to assemble at defined locations. Siemens has already retrofitted three buildings on campus, with two others to quickly follow.

Furthermore, a Total Building Solution extension has been launched, including video surveillance and building automation disciplines.

Safety officer Brian Hunt is very satisfied with the turnkey mass notification system whose entire

installation was performed by trained Siemens technicians. "Before, it had been a challenge juggling the mix of different products from various manufacturers," recalls Hunt. "Working with Siemens, we were able to bundle all the campus applications under one roof and to blend the individual solutions into a harmonic whole. Everything works seamlessly." Hunt adds another very important point: "Reliable and competent partners guarantee accelerated servicing of these critical systems, giving us much-needed peace of mind."

CONTACT

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Tel.: +41 41 724 24 24
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ASPIRATION SMOKE DETECTION

Faast and Flexible

...in Any Application

Faast (Fire Alarm Aspiration Sensing Technology), from Honeywell, is widely recognised as one of the most advanced and feature-rich Aspiration Smoke Detection (ASD) systems available today. In light of its ever-increasing install base and suitability to a wide range of applications, the range has been extended, enabling Faast to provide an 'exact-fit' solution for almost any fire detection application.



Faast XM, recent winner of a GIT SECURITY 2017 Award, is now joined by two additional models – Faast XS and Faast XT, designed to suit different sized applications. These three products form the X Range, optimised for use in a wide variety of challenging applications requiring high performance, IP enabled devices that can deliver the earliest and most accurate smoke detection.

Jochen Hahn, Product Marketing Manager, Europe, talks about Faast XM and explains how the new X Range products will provide additional flexibility. "Faast XM, XS and XT offer unsurpassed accuracy through dual-vision technology, three-stage advanced filtration and an Acclimate Mode, which reduces nuisance alarms in changing environments; in Acclimate Mode the sensitivity of the unit continuously adjusts over time, within set limits as the local environment changes. Faast XM also has multiple built-in integration options such as TCP/IP, Ethernet and Modbus, enabling seamless integration into fire alarm panels or building management systems.

"Faast XM is ideal for mission critical facilities, laboratories and a wide variety of challenging environments such as waste recycling and industrial facilities. We have seen an increasing demand for this technology in a growing number of different sized applications, leading to the extension of the range. Faast XS is the smaller device in the port-

folio, meeting the needs of Class B applications like small server rooms, telecoms facilities, surgery rooms, archives and buildings with HVAC. Large-scale applications are now supported by Faast XT; this device has four pipe inlets, monitored by advanced ultrasonic air flow technologies. Applications include larger spaces with high ceilings such as large warehouses, shopping malls, atriums, exhibition houses and aircraft hangars."

No challenge too great

The X Range complements Honeywell's Faast LT Range – a portfolio of devices that especially serve a wide variety of EN54-20 Class C applications where access and maintenance is difficult, other smoke detection methods are inappropriate due to harsh environments or areas where aesthetics matter. Felix Heck, Business Development Manager, comments on the range's impressive ability to adapt to the most difficult and challenging applications. "Applications like lift shafts, ducts, lobbies of theatres and hotels, and cold storage, where access may be difficult and environmental fluctuations create problems for traditional fire detectors, can really benefit from using a solution like Faast LT because it is easy to install, monitor and maintain. Aspects like 26 dB (A) low sound output and a near-invisible pipe network also make LT ideal for high-end residential or historical buildings. Add

to this IP65 rating for harsh environments as well as single or dual channel options and you have an extremely flexible solution."

Infinite applications – one solution

Felix closes by highlighting the universal use of Faast. "The combination of both the Faast X and LT Ranges means that Faast can cover virtually any type of application. The extension of our portfolio is well timed to capitalise on the growing trend towards ASD implementation, ensuring we can better serve the market with tailor-made solutions. We also continue to produce a variety of application guides designed to help engineers and designers overcome application challenges in areas such as lifts shafts, large open spaces, freezers and cold storage, ducts, harsh environments and custodial applications. These guides are free to download from the website www.Faast-detection.com/downloads."

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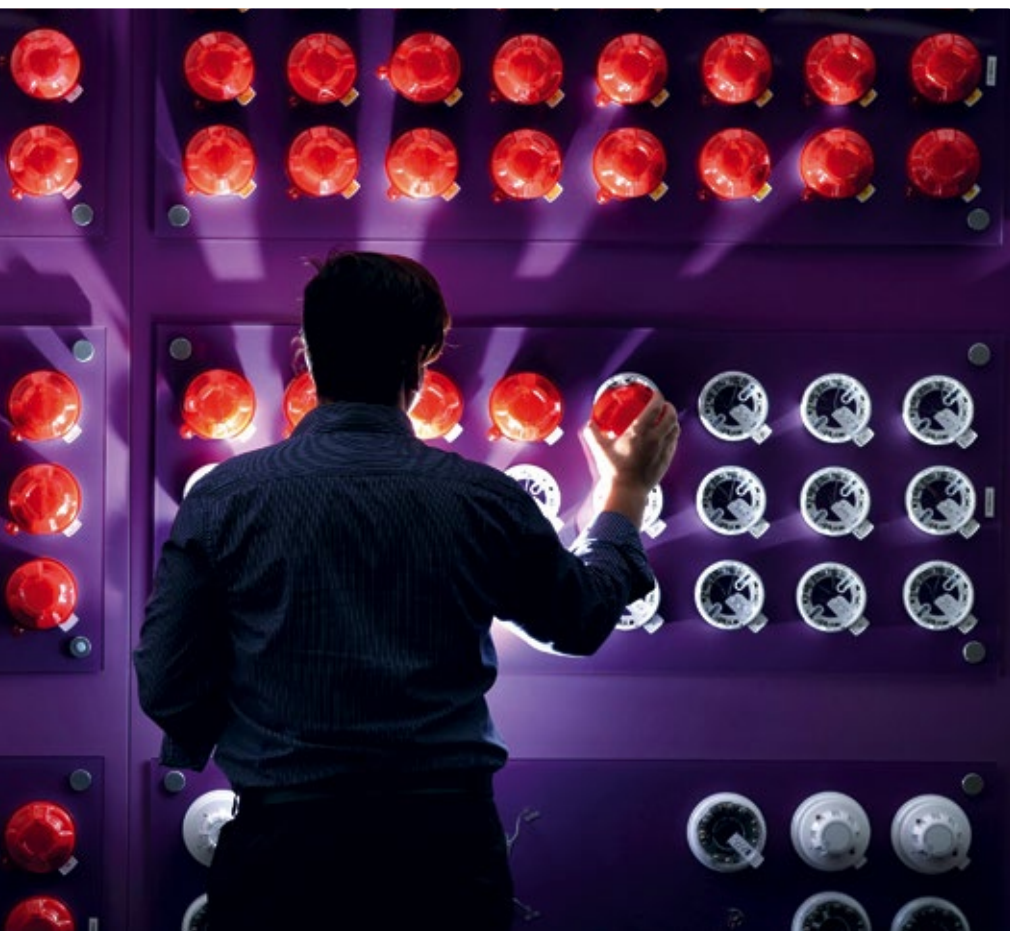
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FIRE DETECTION

Is Multisensor the Future?

Modern Fire Detection Technology Can Minimise the Risk of False Alarms

Ever since the technology for Multisensor fire detectors was widely adopted in the mid to late 1990s, there have been serious discussions among fire safety experts on how to deploy the technology most effectively and safely. Paul Pope, Head of Systems Integration & Technical Support at Apollo Fire Detectors and member of the FIA Task Group on Multisensor Field Applications, explains the importance of Multisensor detectors and how to make sure they detect, and alert to, real fires whilst minimising the risk of false alarms.



By definition Multisensor detectors house more than one sensor e.g. heat and optical sensors. They have therefore the ability to measure multiple fire phenomena and/or different aspects of the same fire phenomenon. Combined, the readings can help to discriminate between a genuine fire and a nuisance signal and then make the appropriate failsafe decision.

Multisensor detectors are not to be confused with multi-criteria detectors. Whereas multi-sensors measure a number of fire phenomena, multi-criteria detectors measure different parameters of one fire phenomenon, e.g. the heat of a fire over a certain length of time. Single sensor and Multi-

sensor detectors will often include a multi-criteria decision making process as part of the algorithm to calculate the detector state.

Compared to a straight forward single sensor detector, the decision which Multisensor detector to choose is more complicated; and that is before all the different modes and settings available are taken into account.

Choosing the Right Detector

The choices and decisions concerning which detector types to use are initially made during fire system design but are also sometimes re-visited and even modified during commissioning and/or

maintenance. They are not always well recorded nor is the rationale behind them.

Multisensor detectors could be a universal solution for the protection of all life safety and property protection risks providing the appropriate compliant sensitivity modes are selected/managed to meet and maintain the fire/evacuation strategy. System designers and engineers need to understand how the technology in the device works and more importantly the appropriate fire engineering application of such devices.

The main decisions on which detectors to use are made at the time of the design of the fire protection system. There should be reviews at regular intervals, ideally as part of the maintenance schedule, as the circumstances under which the system was first commissioned may have changed and technology will have moved on. This is especially important as there is (as yet) no legal requirement in the UK to replace fire detectors after a specified number of years in service.

Multisensor detectors, the type of detection and its settings, modes or special configurations are not easily checked with just a visual inspection. Specialist training courses are offered by all major manufacturers to help Installers and Maintenance Engineers to understand why a Multisensor detector with specific settings was chosen for a certain area and review if it is working correctly.

False Alarms

According to the National Office of Statistics, over 300,000 false alarms were raised in the UK in 2014/15. Overall, the number of false alarms is slowly declining year-on-year, the exception being Scotland which has seen a slight increase for the first time in years. The FIA quotes the estimated cost of false alarms in the UK as being in excess of £1 billion a year. In addition to the cost, false alarms also take up the time and resources of the emergency services who may not be available to respond to a genuine alarm at the same time.

The fire protection industry has made great progress in developing detectors that can recognise if a signal warrants an alarm or not. Multisensor detectors are part of the solution. Multi-sensor

detectors are extremely efficient in detecting real fires and ignoring false alarms if the modes are set correctly. Reputable detector manufacturers work with System Designers and Installers to ensure they are aware of the settings and how to configure them correctly.

Modes and Settings

The decision on when to go to alarm is increasingly not just made by the hardware in the detector alone. Specially developed algorithms and communication protocols interconnect detectors and allow information and verification exchanges. The suitability of a detector cannot be based on sensor technology alone anymore.

Algorithms embedded within detectors or control panels are used to change the sensitivity to fires. Each detector comes with a choice of modes



Multisensor detector und validation test wall

and settings suited to different environments. In addition to different levels of sensitivity, these settings can include a 'minimum time to alarm', 'day/night' sensitivity switching and single point alarm confirmation. Algorithms are used to improve the performance of Multisensor detectors. They can also be used to combine the responses from a number of detectors to make an 'intelligent' system decision. Algorithms can be highly tailored and are usually designed to improve the performance of a detector in a specific environment.

Detector modes and algorithms have to be matched carefully with the potential fire risk when the system is being designed. Extreme care has to be taken not to be overly concerned with avoiding false alarms at the risk of missing a genuine alarm. There are many fires that produce smoke but little heat (especially at ceiling height where the detector is most likely installed) or carbon monoxide.

Well-designed Multisensor detectors in carefully selected modes can detect more fires than many single-sensor detectors. Algorithms will increase the accuracy of the detector and help to filter out most false alarms if correctly applied. Algorithms that are just designed to filter out false alarms can have dangerous consequences if they override the original sensor reading. This can be avoided by applying the and/or logic in algorithms to allow the most likely fire phenomenon (most often smoke) to set off the alarm.

Fire detector manufacturers are under pressure to reduce false alarms and the potential could exist to develop algorithms that only recognise EN54

test fires as genuine signals. Every signal that does not meet test fire parameters could be ignored. This would reduce the number of false alarms and greatly increase the risk from fires that do not meet the EN54 laboratory test fire conditions. Whilst this is an extreme example, it demonstrates the importance of understanding the science of fire and no reputable manufacturer should restrict the settings of devices in this way.

The range of modes, settings and algorithms is developed and programmed by the detector manufacturer. It is the responsibility of the System Designer and Installer to apply the correct setting for the environment in which the detector is installed. This means they need to be aware of the different algorithm settings and modes. Manufacturers have a duty to make information about specific modes and settings available to ensure the safest and most suitable setting is applied always in every environment.

If compliance of the system to current standards is not required, the choice of modes, settings and algorithms can go even further. Provided informed decisions are made by highly qualified fire engineering specialists, fire detection systems could be tailored to performance outside EN54 parameters. Potential risks as well as legal and insurance implications will have to be part of the decision making process.

What Next?

Multi-sensor detectors have come a long way since their introduction to the market. System Designers and Installers need to be aware that Multisensor detectors are not always the best solution for every fire protection system, the technology also varies depending on the manufacturer and model. Manufacturers have a duty of care to make information about the sensors and algorithms available to Engineers involved in the design, installation and maintenance of fire protections systems.

The FIA has assembled a task group on Multisensor field applications in order to start the process to develop and issue guidance information for the industry. Although Multisensor detectors have been in the market for over 20 years, the technology is constantly evolving. This is most obvious in the new EN54 suite of Multisensor product standards which puts the pressure on System Designers and Installers to keep up with the latest developments. But it is the responsibility of the manufacturers to make information readily available and offer regular training to the industry so that we can professionally protect life and property into the future.

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NVR with RAID Subsystem for Centralized Multi-Site Management

Surveon Technology, the enterprise NVR solutions provider, has announced the Linux-based NVR2104 is added to the existing Window-based NVR2100 Series storage subsystem. Supporting up to 64 channels of 5MP recording and a RAID subsystem with 12-bay or 16-bay hot-swappable HDDs, the device fulfills the need for remote recording when the storage subsystem could be located on a separate site from the server, receiving recordings from multiple servers. This server-storage subsystem structure provides not only the convenience to set up a surveillance system for different sites, but also offers the efficiency of centralized video management for companies with branch offices.

www.surveon.com

Integration Server

The G-Link integration server from Geutebrück is a central platform on which all interfaces in the network run centrally. The elaborate development of interfaces between disparate systems is not required. G-Link combines all interfaces with the same authorization and even enables parallel communication of all connected systems with each other. It works as an automatic 'simultaneous translator' which understands, interprets and sends the event messages of all connected systems to the others in an understandable format. So each connected system – whether access control, fire protection or product management – can control each of the others and exchange data with it. These could be video security or value imaging for example, where a combination of third party systems offers great advantages. It saves the user the often time-consuming parallel handling of several separate systems. Video images combined with information from third party systems, such as perimeter protection or barcode scanners in logistics, deliver valuable data and enhanced functionality

www.geutebrueck.com/g-link

Narrow Border Video Wall Display

The eye LCD 5500 ESN FX from eyevis is the latest seamless LCD display for video wall installations from the eye LCD series, designed for professional use in long-term operation. With a bezel width of less than two millimeters between the images of two neighboring screens in a video wall, the gap has been reduced to a minimum. The displays provide Full-HD resolution with 1920x1080 pixels, Direct-LED backlight technology and a brightness of 700 cd/m². They also have a 'non-stick' mode – no Teflon involved – to prevent image retention effects through the prolonged display of static image content. A loop-through facility is provided by an internal matrix scaler for signals with up to 4K resolution.

www.eyevs.de

HEAT DETECTION

Another one Puffs the Dust

Infrared Transit Heat and Flame Sensors Provide Fire Detection for Industrial Conveyor Systems

Many goods carried on conveyors – biomass, black and brown coal, industrial confetti (for energy from waste plants), recycling products or sulphur – are highly combustible and have the potential to self-ignite. If they should combust upon an unprotected belt, the likelihood is that the system will enable fire to spread into the holding hoppers, blending, crushing or other processing areas of the plant. As part of the operators' risk management policies, the installation of early warning protection along a conveyor susceptible to conditions of excessive heat can avoid catastrophic fire damage and substantial consequential losses.



With thousands of roller conveyors in use in all kinds of industries around the world, Patol is advocating the installation of specialist fire detection above the conveyor systems. The day-to-day operation of many systems has the potential to transfer any fire from the belt into the whole processing plant – whatever the application.

A Fire Detection Series for Industrial Applications

Patol knows how to design and manufacture fire detection products for industrial applications and released their Atex iecex 5000 Series as a solution perfectly suited to this kind of application. Several models are available including specialist sensors with Atex certification for hazardous dust environments and there are even glass-free, stainless steel sensors designed for use within food processing.

Of Embers and Air Puffs

Patol products include a range of early warning infrared transit heat sensors designed to monitor and detect, in the presence of ambient light, 'hot spots' and embers from combustible materials being transported on conveyor systems. The range of 5000 series sensors features a continuous air purging system to maintain an automatic cleaning system that prevents dust from settling on the lens of the sensor. Perfectly suited to hazardous and dusty environments, the sensors are typically mounted at 1 to 1.5 metres above the conveyors at an angle of approximately 30°. Initially sited five metres after the loading end of each conveyor system and thereafter roughly every 100 metres, sensors should also be located at transfer points and other inlets. The sensors are aligned such that the monitored potential hazard passes through their field of view. Relays can be connected to stop the conveyor in the event of a fire occurring and a fire-extinguishing panel to operate a mist or sprinkler deluge system at the point of activation. Patol sensors provide outputs for Alarm/Trip and Fault monitoring.

◀ **The continuous air purging system maintains an automatic cleaning system that prevents dust from settling**



Patol Transit Heat Detectors make sure fire won't spread further

Linear Heat Detection Cable

A fire that occurs alongside the conveyor system or upon a stationary belt is also a potential threat. When the conveyor has been stopped either deliberately or unintentionally by jammed rollers or bearing problems, any smouldering product could again cause significant damage. To provide protection against this possible problem, Patol's Lin-

ear Heat Detection Cable (LHDC) should be installed either side of the conveyor using knock-on clips at every one metre roller frame brace and/or above using a catenary wire. Linear Heat Detection Cable is available as resettable and non-resettable technologies.

The resettable cable, described as 'analogue', is designed to provide early detection of fire and

overheating in circumstances where other forms of detection would not be viable - either because of its inability to sustain the environmental requirements or through prohibitive cost. Non-resettable or digital LHDC operates at fixed temperatures. A range of alarm temperatures are available. The digital LHDC comprises of a twisted pair, two-core cable. Each core is a tinned copper coated spring steel conductor and has special heat reactive polymer insulation.

The cable has a protective chemical and UV resistant outer jacket or sheath. Optional distance location monitoring can be installed and consideration should be given to the additional mechanical protection to the cable provided by Patol's option of a stainless steel braided version. An LHDC system typically also includes an end-of-line termination box or an optional fire/fault test switch.

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Security Products

Value Imaging Solution Complements Video Security

The security gains and the economic advantages for users are two such important core benefits for Geutebruck that the company has decided to expand its existing video security business area with a second field called Value Imaging. Hidden value in a system becomes visible and can be utilized wherever goods are transported from A to B, from the baggage carousel at the airport to order picking in industrial companies and in conventional logistics processes. The core of the solution is a combination of scanned data and video images. Cameras record the condition of the goods at all times, but combining imaging with scanned data then enables efficient search procedures. www.geutebruck.com



Global Concept for Control Rooms

"Security is becoming more digital and more networked" states the final report of Security, held recently in Essen. 'Digital and Networked' was also the slogan for the eyevis products on display on the joint stand with Knürr Technical Furniture and BMA Ergonomics. The three partners simulated classic situations in control rooms consisting of visualization technologies (eyevis), technical furniture (Knürr Technical Furniture) and specially designed seating for 24/7 operations (BMA Ergonomics). www.eyevis.de



Dynamic Encoding Control

Hanwha Techwin has launched three additional Samsung Wisenet P 4K cameras equipped with H.265 compression and Wise Stream, a complementary compression technology which dynamically controls encoding, balancing quality and compression according to movement in the image. As a result, the bandwidth and storage requirements of 12MP resolution images captured by cameras are significantly reduced and similar to that normally used by lower resolution Full HD H.264 cameras. www.hanwha-security.eu



Security Advisories Now Available on Website

The Tyco Security Products Cyber Protection Team understands that the vulnerability of their security products could put entire businesses at risk. To provide a fast, actionable response, the company is now offering access to their updated cyber protection webpage to registered users. This will allow access to current and past security advisories at any time and send automatic alerts when a security advisory is issued for Software House, American Dynamics and Illustra products. Further, compliance guidelines to configure physical security systems to meet North American Reliability Council [NERC], Critical Infrastructure Protection [CIP] Standards and Defense Information Systems Agency hardening requirements can also be viewed online. www.tycosecurityproducts.com

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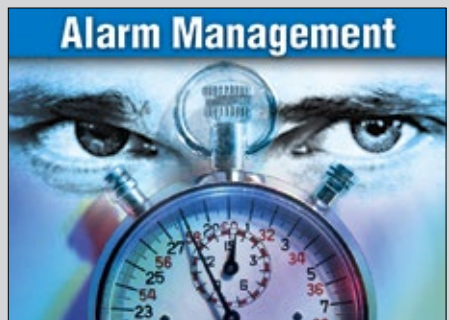


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