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GIT SECURITY

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MAGAZINE FOR SAFETY AND SECURITY

79 824

4

GIT SECURITY AWARD 2015

IFSEC 2014

Security for Ports and Airports

Fire Protection

Access Control

Evacuation

COVER: XS4 mini
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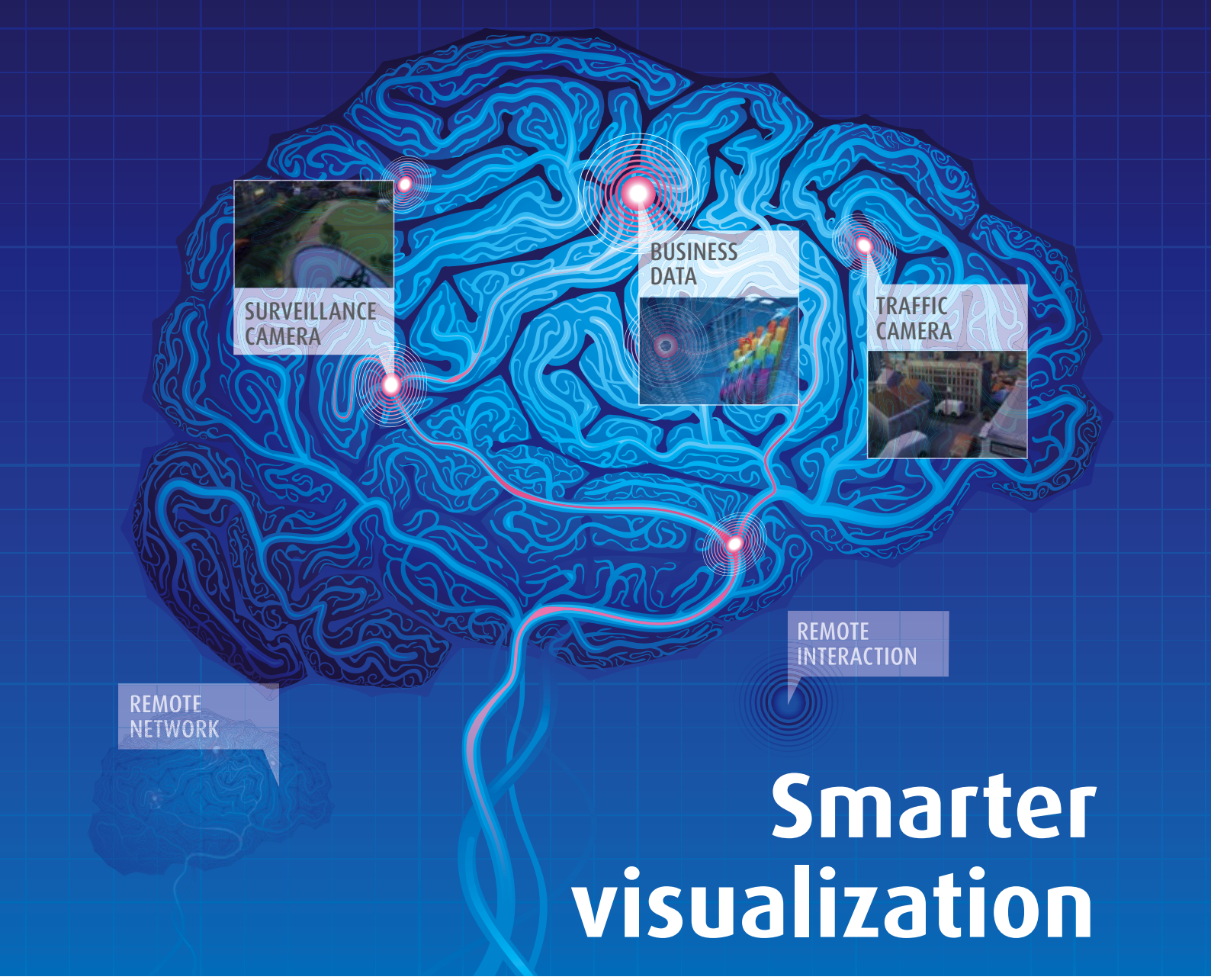

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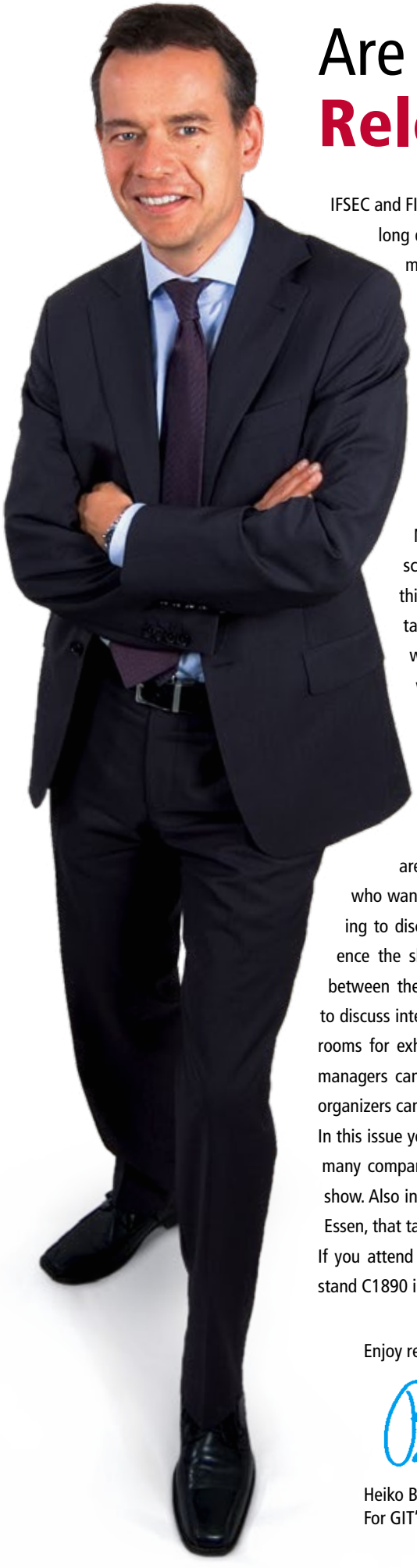

Are Trade Shows **Relevant**?

IFSEC and FIREX in London are waiting in June. There was a long discussion in the security industry whether the move of the show from Birmingham to London will improve the show or not. Most exhibitors decided to give the new location a chance and some new vendors have joined them. Let's wait and see if the expectations of the visitors and exhibitors will be fulfilled. From my point of view the location is not that important for the success of the show, the question is what is offered on the show floor. Most business travelers have such a tight time schedule that there is little time to see something from the city they stay at. It is more important for them how convenient is the travel, how well everything is organized and not so much what the city has to offer.

It looks like this year there is a lot of move in the market and one can expect to see more than just the regular product launches at security shows. New partnerships were formed, integration and common platforms are hot topics and this may lead to more visitors who want to see a live demo at the stands or are looking to discuss solutions. Another aspect that may influence the show attendance is the need for cooperation between the companies. Trade fairs are a great platform to discuss inter-company alliances. To provide more meeting rooms for exhibiting companies, to organize events where managers can exchange ideas, can be a service trade fair organizers can help with to get more relevant.

In this issue you will find a preview for IFSEC and FIREX and many companies are showing what you can expect at the show. Also in this issue there is an interview about Security Essen, that takes place three months later.

If you attend IFSEC and FIREX please feel free to visit our stand C1890 in London.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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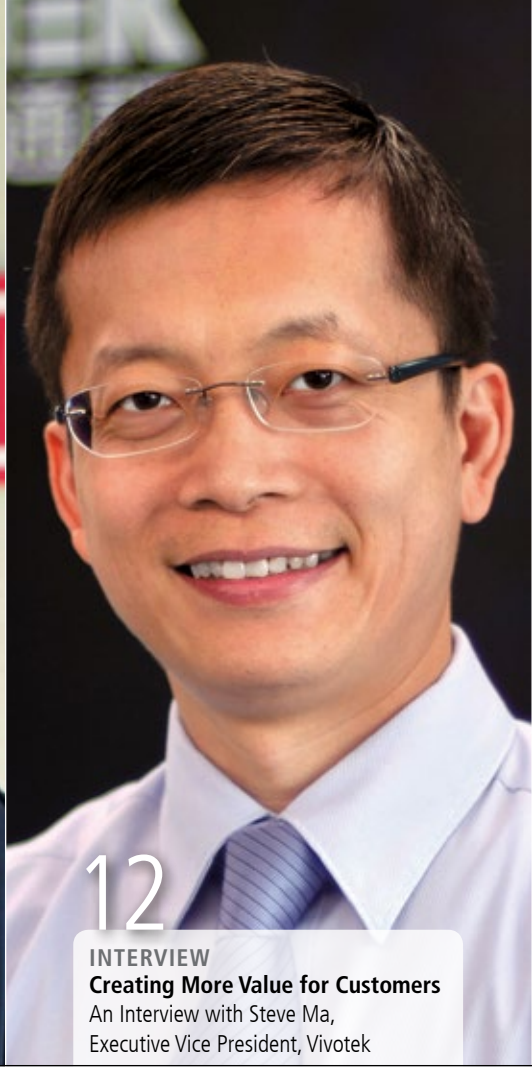
Dallmeier

38

COVER STORY
Smart, Small and Secure
Salto Systems to Introduce XS4 mini Product Family

8

INTERVIEW
Mirror Image of Society
Protection for Stations and Trains: The Security Policy of the Deutsche Bahn



12

INTERVIEW
Creating More Value for Customers
An Interview with Steve Ma, Executive Vice President, Vivotek

EDITOR'S NOTE
Are Trade Shows Relevant?
Heiko Baumgartner 3

MANAGEMENT

INTERVIEW
Mirror Image of Society
Protection for Stations and Trains: The Security Policy of the Deutsche Bahn 8

Creating More Value for Customers
An Interview with Steve Ma, Executive Vice President, Vivotek 12

IFSEC 2014
Bye Birmingham, London Calling
IFSEC, Firex and Safety & Health Expo Debut at Excel in London 14

MANAGEMENT
The Ever-changing World of Security? 20

GIT SECURITY AWARD

GIT SECURITY AWARD
Vote for the GIT SECURITY AWARD 2015 and Win a Digital Camera 22

SECURITY

SECURITY 2014
40 Years of Security Essen
2014 is Security Essen Year. GIT SECURITY Spoke with Claus-Peter Regiani, Head of Business Division I, of Messe Essen 18

COVER STORY
Smart, Small and Secure
Salto Systems to Introduce XS4 mini Product Family 38

ACCESS CONTROL
The Airport Challenge
ADT Inverness Installs CEM AC2000 AE to Meet Airport-specific Security Requirements 40

BRANCH FOCUS PORTS
Plus Belle La Vie en Monaco
Principality Overlooked by Dallmeier CCTV 42

Safe In The Harbor
IP Video at a Mediterranean Leisure Port 44

Navigate Safely Through the Night
Thermal Imaging Camera Increases Security and Safety at Fukuoka Marina 46

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18

SECURITY 2014
40 Years of Security Essen
GIT SECURITY Spoke with
Claus-Peter Regiani of Messe Essen

58

VANDALISM
Listening Out For Grafitti
A New System Helps to
Fight Graffiti Vandalism

VIDEO SURVEILLANCE
The Ins and Outs of Parking
SeeTec Solution Protects Car Parks in Paris 48

Advanced Protection for Old Coal Mine
The Monumental Guido Coal Mine Provides Its Employees and Tourists with Best Security in Mine 50

Beating the Bully
Hikvision Provides Security and Confidence Tools for South African Campus 52

Chinese Opportunity
Uniview Attends IFSEC with Product Line-Up 55

IFSEC
On A Mission
Samsung Looking to Change the Face of IP 54

VANDALISM
Listening Out For Grafitti
A New System Helps to Fight Graffiti Vandalism 58

FIRE PROTECTION

Clear Track
EN54-certified System For New French Cycling Complex 56

The Hybrid Alternative
Victaulic Launches Vortex Hybrid Fire Suppression System 60

FIRE DETECTION
First Choice for London Landmark
Modern Architecture Is a Challenge for Fire Protection 62

SECTIONS

News 6
Security Products 45
Fire Protection Products 61
BusinessPartner 63
Company Index / Imprint Inside Back Cover

Intelligent locking – no key required.

New: Starter System – the low-priced, all-inclusive solution for digital locking. Ideal for small and medium-sized companies.

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Simons Voss technologies

Geutebruck Secures the German Military History Museum

The 'Militärhistorische Museum' in Dresden, the German army's principal museum, benefits from a security system for its building and its displays supplied by Geutebruck that uses IP cameras and a digital video system platform for storing and transmitting video and audio data. The museum re-opened in 2011 after extensive modernization and the addition of a contrasting extension designed by US architect Daniel Libeskind. The original armory building, dating from 1877, is now 'cut through' by a stark modern wedge-shaped addition intended to symbolize Germany's eventful military history. Regarding itself as a modern cultural history museum, its displays confront the visitor with his own potential for aggression and address violence as an historical, cultural and anthropological phenomenon. Its permanent exhibition with some 10,000 exhibits is displayed in an area of 13,000 square meters, and is divided into a thematic exhibition in the new extension and chronological displays in the original armory.

www.geutebrueck.com

Milestone Systems Delivers Strong Revenue and Earnings Growth in 2013

Continuing a strong track record, Milestone Systems reported 2013 revenues of DKK 407m (EUR 54.6m), up 28 percent from DKK 318m (EUR 42.7m) in 2012, outperforming an otherwise strong overall projected market growth rate of approximately 20 percent. The strong revenue growth was achieved without compromising profitability. Operating income before depreciation and amortization (EBITDA) rose to DKK 90m (EUR 12.1m), an 81 percent increase from the DKK 50m (EUR 6.7m) reported in 2012. The increase in revenues was due to strong performance in all geographies and improved efficiencies with the channel partners who sell and install the company's video management software. In 2013, Milestone also invested DKK 61m (EUR 8.2m) in research and development.

www.milestonesys.com

Looking for European Distributors for Access Control

Keri Systems, one of North America's best known suppliers of access control and integrated security systems, including digital video, photo badging and alarm monitoring, is expanding strongly across Europe and actively seeking experienced regional distributors in these European countries. Specialists since 1990 in PC-based access control systems, the Keri Systems group has its headquarters in San Jose, California, and a UK base at Buntingford, Herts, headed up by European Sales Director Garry Pound. The company's diverse products range from simple systems for just a few doors to systems with larger scale and even enterprise requirements, with integrated video, photo badging, biometric, graphic maps, telephone entry and many other powerful features. The hardware can be deployed using traditional proprietary security networking techniques, or standard TCP/IP networking utilizing your existing network or one dedicated to the security system.

www.kerisys.com

Apollo Supports Natasha's Sea To Summit Challenge

Apollo Fire Detectors will support Natasha Lambert's Sea to Summit Challenge with the fuel to power support vehicles during this remarkable venture. The manufacturer became involved when Natasha – who has a form of Cerebral Palsy – approached the company for support. The Sea to Summit Challenge will involve Natasha sailing from Cowes along the South Coast of England and across to Wales. Natasha uses an adapted boat to allow her to control the rudder with her breathing while a tongue switch in her helmet controls the sail trim. In Wales Natasha will leave her boat and climb Pen y Fan, the highest mountain in South Wales using a specialized walking frame. Money raised will be donated to the Ellen MacArthur Cancer Trust, The RNLI and the RYA foundation.

www.apollo-fire.co.uk

Norbain Signs IQinVision as New IP CCTV Partner

Norbain announces that it has now brought on Iqinvision's range of HD megapixel IP cameras to complement its extensive IP range. Andy Cassidy, CCTV Business Manager, comments: "We are delighted with this new partnership. With a well built, feature-rich product that combines simple operation with sophisticated technology, the cameras are a great addition to the current CCTV portfolio. A key feature for our customers will be the implementation of edge recording using either the Milestone or Exacq platforms, complemented with the ability of on-board Video Analytics from Agent-Vi, offering real time savings on bandwidth."

www.norbain.com

Samsung Techwin and Exertis Micro-P Agree Distribution Partnership

Exertis Micro-P has been appointed a distributor for the complete range of Samsung Techwin's IP network based video surveillance solutions. "Their expertise and reputation for providing outstanding customer service makes them the ideal business partner to help us promote our video surveillance solutions to the IT channel," said Simon Shawley, Director UK and Ireland for the manufacturer's Security Solutions division.

www.samsungsecurity.com

Wavestore Appoints Analytics Account Manager

The VMS provider, Wavestore, has appointed Tim Denby as its Analytics Account Manager. In this newly created role, Tim will assist his colleagues within the Wavestore sales team to bring to the attention of consultants, installers and systems integrators, the exciting new business opportunities offered by the wide range of analytical products when they are integrated into the company's VMS. Tim is well known for his enthusiastic promotion of analytic solutions which he passionately believes can, when professionally planned and implemented, make a substantial contribution to business efficiency, as well as add considerably to the capabilities of a video surveillance system designed to detect criminal or terrorist activity.

www.wavestore.com

American Science and Engineering X-Ray Order

AS&E has received an order for two ZBV mobile cargo and vehicle screening X-ray inspection systems from the Kingdom of Lesotho. The Lesotho Revenue Authority (LRA) has launched a Customs Modernization Program aimed at simplifying border procedures while speeding up the inspection process. These systems will screen vehicles and cargo for threats and trade fraud on its border with South Africa to facilitate trade and counter smuggling. Chuck Dougherty, the Company's president and CEO, said: "The ZBV system has been proven effective for anti-smuggling programs, with one customer recently reporting a 54% increase in tobacco seizures in a four month period." The system is used by border authorities, law enforcement, military organizations and security agencies in more than 64 countries. **www.as-e.com**

Strong Growth Opportunity in Access Control Forecast for Middle East and Africa

Blake Kozak, senior analyst for Security and Building Technologies at IHS has highlighted the potential growth opportunity of electronic physical access control equipment in the Middle East and African regions in a research note. To encourage best-of-breed adoption, many countries in the Middle East have programs in place to reduce the amount of counterfeit product entering the country, such as Saudi Arabia with the Intertek program. Blaze found that many countries across the Middle East are searching for and installing the most cutting-edge technology available. For Africa, when international and regional banks across the African continent expand and/or new banks are created, this presents a growth opportunity for electronic access control. **www.technology.ihs.com**

New Event Director for IFSEC's Security and Fire Portfolio

Taking over full responsibility for all UK and global events and media products, Gerry Dunphy takes up the position of Event Director with immediate effect in the run up to IFSEC International in June 2014. With over twelve years of experience in the industry and currently Event Director for Firex International, Dunphy has a wealth of knowledge and is embedded within the market. He said of his appointment: "As the security and fire markets continue to become more integrated, I'm excited to help these synergies develop to benefit our exhibitors and visitors, providing them with an enriching experience on site. We're at the height of planning for IFSEC International in London and this will be the perfect opportunity to demonstrate how we visualize the future of the event."

www.ubmlive.com

Milestone Systems Eases the Transition from Analog to Digital Video

Milestone Systems, the open platform company in IP video management software (VMS), has announced a new licensing concept for analog cameras used with the forthcoming Xprotect 2014 family of VMS products. Only one hardware device license is needed per analog-to-IP encoder unit, regardless of the number of analog cameras connected to the encoder unit. This facilitates a smooth migration to digital video at their own speed for customers using analog cameras, while keeping the consistency of one VMS platform that scales easily over time. The analog infrastructure can run parallel to new IP technology, making the transition in a gradual approach. **www.milestonesys.com**

Apollo Fire Detection Solution for London's Eastman Dental Hospital

Apollo was selected as the technology provider by Fisk Fire Group for the upgrade of the fire detection system at the Eastman Dental Hospital, which has been established for over 60 years and treats around 85,000 outpatients every year. The fire detection system, which operates a 'one out, all out' evacuation sequence, consists of approximately 1,200 XP95 detectors which were specified to meet the main fire detection requirements throughout the five storeys of the hospital building. The intelligent system was designed around six 5-loop networked Morley panels, as well as a repeater panel. No day works were allowed on site so installation took place between 7pm to 5am. **www.apollo-fire.co.uk**

Genetec Appoints Firas Jadalla as Regional Director, Middle East

Genetec has announced that Firas Jadalla has been appointed Regional Director for the Middle East region. In his new position, Mr. Jadalla will be responsible for developing sales strategies in the region that further increase the company's reach in the growing Middle East markets, recruiting and hiring new regional sales managers in key countries, and expanding the company's network of certified systems integrators. "Firas is a fifteen-year veteran in the Middle East security industry, and his knowledge, technical expertise and industry-wide connections make him a great asset to us and to our growing community of certified systems integrators," commented Ted Ghali, Genetec Vice President of Sales, EMEA. **www.genetec.com**

© Deutsche Bahn

The German railway has evolved from what was once a national monopoly into a leading European provider of mobility services. Approximately 30,000 passengers and 5,000 freight trains are in daily use, about 7.4 million passengers are transported every day in Germany and since the acquisition of Arriva in 2010, this figure has risen by the 2 million passengers who are transported in eleven different European countries. Our scientific editor, Heiner Jerofsky, spoke with **Prof. Gerd Neubeck, Head of Security at DB,** talks about the security policy operated by Deutsche Bahn.

INTERVIEW

Mirror Image of Society

Protection for Stations and Trains: The Security Policy of the Deutsche Bahn

GIT SECURITY: Professor Neubeck, you are a lawyer, you were the Vice President of the Police, judge, state prosecutor and honorary chairman of the German Forum for Crime Prevention (DFK). Can you briefly describe to our readers your current range of responsibilities at Deutsche Bahn AG and the DFK?

Prof. Gerd Neubeck: As Head of Security for the DB Group, I am mainly responsible for the security of our customers and employees. Our core task is to adapt the structures and processes of the DB Group in line with ever-changing security requirements. Of course, the focus is on our transport services in Germany. However, it should be remembered that DB has almost 300,000 employees in 130 countries around the world. Therefore, it is the task of our Situation Centre to monitor not only the situation in Germany, but also to monitor circumstances of relevance to security in other countries and to identify possible effects on the activities of the DB Group. Taking advantage of all the opportunities available for prevention is the task of the foundation German Forum for Crime Prevention (DFK). In order to effectively combat crime and not to allow risks to arise in the first place is a concern for the whole of society and involves the state, businesses and every individual. I accepted the post of chairman of the DFK in order to take a robust stance against violence and crime and to give a signal for social responsibility. I want to make it clear that for the DB Group, prevention plays a key role and we actively promote the topic publicly.

How would you define your most important goals and current security policy for the group?

Prof. Gerd Neubeck: Deutsche Bahn has a very special responsibility towards the nearly 3 billion passengers who travel with us annually. We want passengers and station visitors to be not only objectively safe, but for them to also feel

comfortable in trains and stations. The spectrum of our security policy therefore encompasses risk prevention, the safe running of rail operations at major events and the enforcement of our in-house regulations. The requirements demanded of security organisation and security systems are steadily increasing. In cooperation with the police forces of the federal and state governments, we compare the tasks and objectives of the security organisations. The public demand for more security staff and more video surveillance, to name just two examples, shapes our security policy just as much as technological advances in the use of security technology. Certainly, we cannot always meet every demand and wish. However, we are certain that we do what we can with the highest degree of responsibility. A current example of this is the increased presence of our security staff at large and medium-sized stations. It is at these places that witness the coming and going of many people, that our staff can nip any disturbances in the bud when they are directly on site. This creates peace and order at the station and maintains a more pleasant environment for everyone. Security for our customers and staff has always been a top priority.

It is extremely important, both for passengers and the image of train travel, that passengers have relaxed and safe journeys. What does Deutsche Bahn do make this happen? Do you also use your own security staff on your lines?

Prof. Gerd Neubeck: DB invests around 160 million euros per year in security. Our security personnel, numbering around 3,700 staff, remain the most important pillar of our security policy. Because security experts agree that only the presence of staff ensures sustainable effects. In particular, the presence of staff gives passengers a greater feeling of security. Our security staff are supported in their work by 3,000 administrative staff at stations, 4,800 inspectors on suburban routes and 4,000 inspectors on long-distance routes – that means that Deutsche Bahn employees have a huge presence. However, direct intervention does not make sense in all cases. We are also committed to the protection of our employees. We expect our employees to prevent conflicts and disputes in advance. If this fails, than it remains for DB staff to quickly get help. For this, we give our employees training in de-escalation and self-protection. In addition to the patrol teams and their presence in stations and on trains, we also have special Response Teams, that we specifically deploy on railway lines to deal with non-ferrous metal thieves and in depots to ward off graffiti sprayers, for example.

The security in railway stations, the majority of which nowadays are modern shopping centres, is just as important for passengers as well as business owners. How important is video surveillance and how do you proceed against those who do not play by the rules and disrupt order in stations?

Prof. Gerd Neubeck: Video technology is one of many elements that make up our security policy. The optimum combination of security staff and security technology is crucial for increasing the feeling of security of our customers and employees. For DB, video technology serves primarily to observe and monitor operations. This means that we usually want to see live images to identify when a platform is overcrowded or how many people are waiting on a station concourse. The federal police can also monitor these live images. It also the task of the federal police to specify where images are to be captured for the purposes of security or law enforcement. For us, however, one thing is clear: CCTV is not a panacea. As part of the security policy, video technology is useful when images can be continuously monitored and then a response team can be quickly deployed to intervene.

DB security staff in action

In large and medium-sized stations, over the last six months we have doubled or tripled the presence of security staff. Even though Deutsche Bahn is safe from an objective viewpoint, we target more specifically trouble-makers who do not follow the rules and disrupt order in stations. Which offences do you worry about the most and what is the extent of damages?

Prof. Gerd Neubeck: Deutsche Bahn is an open system and therefore part of the public space – almost a mirror image of society. All those conflicts that take place in public spaces and on the streets also take place on platforms and in trains. What strikes us is the increasing number of acts of brutality in everyday situations. Whether it is on Saturday night when passengers are returning from a night out, when passengers are reminded of the existing smoking ban in the stations or when the ticket inspector comes round: increasingly, people will spit, punch and kick without warning. In this respect, we have considerable concerns about the approx. 1,200 attacks on our employees every year. Unfortunately, the number of break-ins on ticket machines has also increased. With 560 incidents in 2013, this is an increase of 20%! And this is especially annoying for us: damage to property is usually much greater than any money that is recovered. Thus, an automated machine costs around 30,000 euros, whereas the amount of money contained in it is only a fraction of the cost. We empty the machine now more often, intensify patrolling and monitoring and have installed colour cartridges that render the money useless if obtained by force. In other areas of crime, such as vandalism, graffiti or non-ferrous metal theft, we are seeing an encouraging decline. By working closely with the federal police, increasing the presence of our own employees, as well as cooperation with, e.g., metal merchants and the use of synthetic DNA on metal parts, we were able to reduce the number of non-ferrous metal

thefts by around 40%. However, vandalism still costs us 30 million each year. Money that we would prefer to use for the benefit of our customers rather than to clean up damage. In our prevention work in schools we also show that, e.g. graffiti is not a trivial offence. Even if the perpetrators are minors at the time and have no income, we can still claim compensation under civil-law 30 years after the crime. In addition, many aerosol-sprayers underestimate the danger of passing trains or electric catenary. In this way, there are repeated incidents of young people being injured or even killed.

How would you describe your collaboration with the federal and state police forces and the partnership that has been agreed?

Prof. Gerd Neubeck: The responsibility for security and law enforcement in the railway sector lies with the federal police force. Our primary concerns are compliance with Deutsche Bahn's regulations and conditions of carriage, as well as having a presence in everyday situations and during major events. The core of our law-and-order partnership is the Rail Security Centre, where railway staff and police officers monitor the current situation around-the-clock and jointly make decisions about events and incidents. Working groups with representatives from Deutsche Bahn, the federal police force and state police departments regularly deal with key issues such as prevention, intervention plans for major events or the use of security technology. In practice, our security staff to sit in the federal police and vice versa. There are joint exercises and training, and even trainees from the police and Deutsche Bahn meet with each other in order to maintain contact from the very beginning.

How do you train your security staff? Do you also use external security providers and what qualifications must they have?

Prof. Gerd Neubeck: The basic requirement for private security work in public is to hold a certificate of proficiency in accordance with § 34a of the German Trade Regulations. This certificate is a minimum qualification for work as a security officer on the railways. In many cases, we deliberately take on employees who have previously worked as train drivers or dispatchers. These employees bring with them extensive experience and technical skills . However, DB has also been very successful in training its own security staff, primarily in the area of the law and order service. In addition to their basic qualifications, all security personnel receive 48 hours of training – i.e. six working days – a year as part of a further training policy. We are able to provide the majority of the security services required using our own personnel. For peak periods, special events or raids, we call in the assistance of qualified service providers. All service providers who work on behalf of DB must of course comply with the minimum qualifications and are also governed by the rules on further training and guidelines on remuneration. We make sure of this by means of corresponding contracts and consistent reviews.

How would you assess the security of freight logistics? Are there statistics on the numbers of incidents and extent of damages? Is this solely the responsibility of the federal police?

Prof. Gerd Neubeck: The railway system is still the most secure system for the transport of goods. Hazardous goods travel by rail with maximum security. The loss of cargo is very rare in comparison with the volume transported. Nevertheless, third-party attacks on rail operations, such as putting obstacles in the way, as well as damage caused to rolling stock or the theft of freight cannot always be completely prevented. We analyse the incidents and then optimise our protection measures. This may be in the form of technical monitoring or the deployment of staff in hotspots. We also participate in the development of technical systems for safeguarding freight transport by rail and cooperate with railway companies, freight customers and authorities, nationally and internationally.

Increasingly, synthetic DNA is being used in order to trace the numerous thefts of non-ferrous metal and also as a preventive measure. What experiences have you had with this?

Prof. Gerd Neubeck: Synthetic DNA is just one way in the fight against metal crime. Deutsche Bahn has been gradually identifying its facilities using synthetic DNA. This substance is invisible to the naked eye and can only be seen under a special UV light. A single DNA molecule is sufficient to identify stolen cable and thus to prove a crime. The fluid also contains microscopically small metal plates which permit precise identification of a cable. Therefore, by touching a cable, the perpetrator runs the risk of himself being 'contaminated' by it. The DNA traces remain detectable long term. Police or metal dealers are involved in the project and can 'decode' the artificial DNA. Meanwhile, other companies are using this labelling technology to protect themselves against metal thefts. However, the fact remains that synthetic DNA is just one piece of the puzzle in the fight against metal theft. Where it is technically possible, we will replace non-ferrous metal parts with parts from a more favourable material.

How successful have you been against ticket fraud?

Prof. Gerd Neubeck: Here we make a distinction between two lines of attack. Firstly, the forgery of tickets, some tickets forged on real paper that has been stolen, some tickets being a complete forgery. The best protection against this practice is to provide train crew with the training to properly evaluate passenger tickets, even non-German tickets. For this reason, we are in constant contact with other European train operators and continually focus on the security features of train tickets as well as the printing processes. Once hot spots become known, we confront the perpetrators with our own staff and the police, sometimes directly in the station or on the train. Last year there were a number of successful investigations. The other area of crime is fraud with credit cards and bank cards. Unfortunately, this is a general issue of our time, with an increasing trend – even within DB. Behind this type of fraud you often find gangs and offenders with a highly professional approach. We give our customers the clear message: DB tickets are only available from DB or outlets that have been licensed by DB. Anyone offering larger quantities of cheap tickets on the Internet or mentions corporate or wholesale discounts is cheating. The reason is that these discounts are not for resellers! The Federal Police has set up a Special Committee on Computer Fraud, which mainly deals with credit card fraud with online tickets and can now boast considerable success. But with all due respect, even when investigations are successful, you're still only second best. Our goal is to put a stop scammers and not even allow these crimes to take place. Currently, therefore, our focus is on further developing the payment systems with additional security features.

What is the total package of interventions, policies and preventive measures that you have in place for the subject of security?

Prof. Gerd Neubeck: Our security strategy is based on selected prevention campaigns and projects. Thus, DB and DFK are both involved in preventive programmes and there is the 'fair player' project, to name two examples. We support the development of social skills in schools, so that children and adolescents may respond more appropriately to violence and bullying situations. Additionally, we are working on ad hoc and event-related prevention policies and awareness campaigns. In this way, we can raise the awareness of customers and employees regarding the theft of bags and hand luggage or request that special attention is paid to unattended items in trains and stations.

Thank you for the interview.

Heiner Jerofsky, Detective Chief Superintendent (retired)

Knowledge. Students at the world-leading Warsash Maritime Academy in the UK hone their seafaring skills through a realistic engine room simulator. Teachers use Milestone XProtect® Professional software to monitor and listen to students from a separate room. These recorded two-hour training sessions help students graduate with a first-class education. Proving again Milestone can solve problems that are more than security.

More than security

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See our new products and the new ways to use XProtect at: **www.milestonesys.com**

milestone

The open platform company

Steve Ma, Executive Vice President, Vivotek

INTERVIEW

Creating More Value for Customers

An Interview with Steve Ma, Executive Vice President, Vivotek

Vivotek will be exhibiting at IFSEC and, amongst other products, will demonstrate its cameras with Supreme Night Visibility and WDR technology. **Steve Ma** answers a few pertinent questions for us on his view of the market and what his company's focus will be at the Excel Center.

GIT SECURITY: What do you consider to be the most significant technological trend in the security surveillance market?

Steve Ma: Low light technologies and wide dynamic range (WDR) are two key technological trends in the market. Cameras with a high resolution cannot usually guarantee image quality and usability. With the increasing demand for effective security and further intelligent utilization of video footage, the precise and clear identification of an object under challenging lighting conditions is becoming a basic criteria in the market. Therefore technologies such as low light operation and WDR are needed to ensure image quality and usability. Vivotek has designed cameras with SNV (Supreme Night Visibility) technology to improve night visibility under low light conditions. Our SNV-label products incorporate carefully selected quality optical components and sophisticated image signal processing algorithms to deliver a high quality image, even if the lighting level is normally insufficient. For clearly capturing detailed features when an object of interest appears in locations where there is intense backlight, we have developed three types of WDR solutions in our cameras; these are the WDR Enhanced, WDR Pro (100-120dB) and WDR Pro II (140dB). The most recently launched IP8355EH professional outdoor bullet network camera with low light technology and WDR Pro II will be exhibited at IFSEC.

Would you tell us about the key focus that Vivotek will have at IFSEC?

Steve Ma: Besides our image process technologies mentioned above, vertical applications and intelligent applications will be the key focus at our booth. In the retail industry, theft and shoplifting, fraudulent employees, suppliers' fraud and pricing, process or accounting mistakes caused by internal and administrative errors are all taken as the key factors that cause revenue and inventory shrinkage among retail stores. We believe that an integrated, effective and comprehensive surveillance system can prevent those crime activities and minimize the shrinkages and risks while ensuring the safety of staff and customers at the same time. With this in mind, we have been dedicated to developing integrated IP surveillance systems that deliver high quality video, centralized management, real-time information, cost-saving solutions, remote accessibility and mobile surveillance, enhancing the efficiency and productivity of retail staff and ensuring a safer shopping environment for customers. We will demonstrate the self-developed ‚Convenient Retail Solution', which comprises the ND8321 plug-and-play network video recorder, ultra-mini bullet network cameras and ultra mini dome network cameras. Public transportation plays a significant role in supporting a city's social and commercial activities. The safety and security of trains and buses is exceptionally important since it may directly impact the safety of the citizens and the prosperity of a city. Vivotek's IP8371E outdoor bullet network camera for clear license plate recognition, the MD8531H mobile dome network camera with video rotation for corridors and the SD8364E extreme weather-proof speed dome network camera with 30x optical zoom lens will all be showcased at our booth. Vivotek has designed cameras with an open platform to integrate video analytics functionality within the cameras to create more added-value for customers and to supporting customers' business operation efficiency. Intelligent features, such as object counting, line detection, field detection, face detection and heat map can be directly installed in our cameras, we believe making a significant contribution to security and business efficiency.

How do you see the IP security industry in the following years?

Steve Ma: The security industry has seen significant growth through rising security concerns due to theft, burglary and terrorist attacks. In addition, advances in technologies like improved network communications, high standard video quality and business intelligence applications are also driving the growth. All industry research reports project that the IP surveillance industry will continue with a strong annual growth rate in the coming years. Looking forward, Vivotek will be creating more added value and increasing the return on investment for our customers to sustain their corporate development and competitiveness.

Many thanks for your views Mr. Ma and we look forward to seeing you in London.

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IFSEC 2014

Bye Birmingham, London Calling

IFSEC, Firex and Safety & Health Expo Debut at Their New Location at Excel in London

IFSEC, Firex and Safety & Health Expo, the three exhibitions that are part of the Protection & Management Series organized by UBM live, will be uniting business professionals across the fields of security, fire and safety. The Protection & Management Series offers the opportunity to learn, discover and network with a host of suppliers and experts across all of these disciplines. In the past years the exhibitions were located in Birmingham, the UK's second largest city, and have now been moved to Excel London. The event will take place June 17 to 19.

IFSEC International
COMMERCIAL & GOVERNMENT SECURITY
17-19 JUNE 2014 EXCEL LONDON UK

FIREX International
FIRE PREVENTION, DETECTION & PROTECTION
17-19 JUNE 2014 EXCEL LONDON UK

SAFETY & HEALTH Expo
INNOVATIONS, EDUCATION & SOLUTIONS
17-19 JUNE 2014 EXCEL LONDON UK

IFSEC International

Taking place at its new home in London in 2014, IFSEC International is set to be bigger and better than ever before. According to the organisers the show relocation has received an investment of one million GBP dedicated to ensuring the 45,000 visitors attending from across the world experience the most interactive and spectacular show yet. In addition to 500 returning exhibitors, more than 93 companies have signed up to IFSEC International based on the event relocating to London after previously being absent from the 2013 show. Amongst these exhibitors returning exclusively for the London move are: Pyronix, March Networks, SimonsVoss, UniView, CCTV Direct, Security Dynamics, EVVA, Tecnoalarm, HKC, Blok n Mesh.

Support by the BSIA

James Kelly, Chief Executive, BSIA commented: "The BSIA is a long term and proud supporter of IFSEC International. We recognise this as the focal point for the industry to gather and learn about the latest developments. Now the show is taking place in London, this will present a new opportunity for the security industry and we expect to see an even broader audience attending which will help to promote best practice within the industry. We are hugely excited for the event in June, BSIA members identify IFSEC International as the leading event in the security calendar and we're looking forward to seeing the industry coming together."

Nine Product Areas

Catering for the entire buying chain, IFSEC International will give the market what it wants through dedicated theatres for end-user and trade education plus, case studies and nine dedicated product areas, these include:

Access Control

Securing assets is a major focus for international businesses and collaborative efforts between security and IT managers are more and more commonplace when it comes to protecting both buildings and the equipment within them. Key to this is access control. Driven by rising concerns over public and private sector safety, the access control market is set to be worth a substantial USD 8.6 billion by 2018. At IFSEC one can discover the key trends in this security market sector and learn about the latest techniques that will help ensure their organization develops a fully integrated access control solution. The Access Control show area allows to identify and compare a range of integrated access control systems, readers, controllers and software systems. Leading international companies will be showcasing their products including: Door entry systems, smartcard technology, time and attendance software, biometrics and intelligent building management systems.

Integrated Security Solutions

To have an efficient and effective security system, it is crucial to ensure all systems are integrated. IFSEC will be focusing on how to ensure systems are integrated, so that each product doesn't work in isolation. This purpose built area will provide visitors with access to providers whose job it is to ensure that each area of security is integrated and managed effectively.

please turn page ▶

The FIREX Academy will provide valuable advice

Intelligent Buildings: Fire & Security
This area will create a combined fire and security area for both events, focusing on the common area of systems integration and convergence. Unlike other features, it is not a showcase of new products, it's about holistic solutions. In a nutshell, Intelligent Buildings – Fire & Security opens up opportunities for inter-operability and information sharing between fire, security, IT, data and building management systems. And it opens up opportunities for you to reach the crucial decision-makers within these areas.

IT & Cyber Security
Threats from cyber and IT crime are increasingly important for businesses. When companies, governments and individuals rely on the internet for their day-to-day business, it's key to protect your business and its assets. With dedicated providers helping businesses and governments to build their IT and cyber security strategy with the latest solutions and technology, and with dedicated education session, visitors will get everything they need to know about IT and Cyber Security at the show.

Perimeter Protection & Physical Security
Recent events like the diamond heist at Brussels International Airport have illustrated the importance of strong perimeter protection and other physical security solutions. Due to the heightened threat in today's world, the importance of protecting property and assets is paramount to all security strategies. The Physical Security & Perimeter Protection area allows visitors to see a range of products in physical security, such as perimeter protection, locking systems, safes and more. With increased security threats from terrorism, the need to protect business from external threats is never greater. The Physical Security area will allow you to experience and investigate the latest technology, while the education program will enable visitors to learn case studies and best practice to ensure success.

Safe Cities
Discovering how to protect vital international cities and hubs from attack, with a key focus on business continuity and resilience, this area will showcase companies and industry pioneers who have the expertise, experience and knowledge to guide governments and industry to plan for the protection of their cities.

Video Surveillance & Intruder Alarms
A recent report from IMS Research highlights a significant growth in wireless infrastructure for video surveillance. Are you currently running a wired system or looking to migrate to a wireless solution? Whichever part of the security supply chain visitors are, there are many benefits of attending the Video Surveillance & Intruder Alarm show area at IFSEC International. Covering all aspects of video surveillance and intruder alarms, this dedicated product area will feature the very latest products and services in the industry, including video surveillance, central con-

trol rooms, and the innovations with high definition technology. Other products on display include ANPR, IP cameras, remote surveillance, thermal imaging, video analytics, and much more.

Brand new for 2014, Security & Fire Installer Live will be a dedicated installer offering in the UK located on the show floor at IFSEC International. Catering for security and fire installation companies, this will be the go to destination to source the latest tools, products and experience insightful training sessions.

New Location

The new location ExCel London is not exactly located in the centre of London but it is well connected to the city of London, the business hub of the UK. Research done by the organisers demonstrates that there will be an increase in high calibre first time visitors to the show, as the new venue will make it more accessible to visit. Located within close proximity to National Rail stations, the London Underground network and London City Airport, IFSEC International will be easily accessible from across the UK and Europe. Charlie Cracknell, Event Director, IFSEC International said: "Businesses from across the whole security buying chain recognise the importance of being present at IFSEC International. We look forward to continuing to present an arena where the security industry can attend and conduct business in a reputable environment. We are well ahead of the game and continue to make preparations for 2014 to be the best edition of IFSEC International that has been seen before. Plans are constantly developing and we continue to introduce exciting new features. Keep your eye out for more announcements to be made shortly!"

FIREX International Set for a Show Stopping 2014

FIREX International announced an extensive amount of new developments for 2014. Visitors of this year's event will be able to experience the most interactive show yet. New partnerships that have been confirmed for 2014 include The Industry Committee for Emergency Lighting (ICEL) and The Institute of Sound and Communications Engineers Ltd (ISCE). ICEL will have a designated zone on the show floor where visitors are able to source approved products and seek expertise and guidance on best practice for installers and those deemed the responsible person. ISCE will deliver educational content about public address and voice alarm issues to installers, maintainers and end users.

FIREX International continues to work closely with the ASFP, FPA, FIA and LPCB, and the new partnerships with ICEL and ISCE will expand on the wealth of information available to the industry under one roof.

FIREX Academy and Speakers Corner

The FIREX Academy will be returning with exceptional educational sessions and provide valuable advice on what's happening in the fire sector for the full duration of the show. Three seminar theatres will be present on the show floor and the free content will be available to all visitors who want to develop their knowledge in fire safety, legal implications and fire engineering. Theatres include: Expertise & Guidance Theatre (end-user focused), Installer & Maintainers Theatre in association with the ASFP and the FPA Masterclass Theatre.

Taking on the famous speaker's corner at Hyde Park, manufacturers will have the opportunity to present a two minute product pitch to an awaiting crowd. A prime opportunity to shout about what makes their products unique, manufacturers will be able to convince onlookers why they should come and test out their products at the show.

▶ CONTACT

www.ifsec.co.uk/git · www.firex.co.uk

IFSEC Global Security and Fire Portfolio Appoints New Event Director

UBM Live has appointed Gerry Dunphy as event director for the IFSEC Global Security and Fire Portfolio, in the run up to IFSEC International in June 2014.

Dunphy is currently event director for FIREX International and he takes over full responsibility for all UK and global events and media products from Charlie Cracknell who announced his departure from IFSEC after 12 years to head up Gastech at dmg. "I'm delighted to be appointed event director for the IFSEC Global Portfolio," said Dunphy. "As the security and fire markets continue to become more integrated, I'm excited to help these synergies develop to benefit our exhibitors and visitors, providing them with an enriching experience onsite.

"We're at the height of planning for IFSEC International in London and this will be the perfect opportunity to demonstrate how we visualise the future of IFSEC. I'm working closely with Charlie until June and really looking forward to the opportunities that lie ahead."

Cracknell will continue to work on IFSEC International until he departs after the show at Excel London on 17–19 June.

"Having grown the IFSEC brand and events to be in the successful position it is now in, it seemed fitting to move on to a new challenge following the culmination of IFSEC moving to London. Gerry has so much knowledge in this market and I'll be leaving knowing that this world leading event is in very safe hands," said Cracknell.

SECURITY 2014

40 Years of Security Essen

2014 is Security Year. To Get Into the Mood, GIT SECURITY Spoke with **Claus-Peter Regiani**, Senior Vice President Trade Fairs and Exhibitions, of Messe Essen

GIT SECRITY: Mr Regiani, there will be a remarkable anniversary for the industry this year: the Security Essen exhibition will be 40 years old. Reservations for space are coming in thick and fast – could you give us a prognosis on the development and the numbers?

Claus-Peter Regiani: Just a few months before the start of this world-renowned event, the demand for exhibition space is excellent. Some areas, such as that for security services, are already fully booked. We still expect some news from Asia in the next few days so there will again be more than 1,000 exhibitors at the Messe Essen from 23 - 26. September. These good results in our anniversary year are the best compliment for Security Essen: they show the trust that is shown by the industry in our specialist event. The Security Essen event brings the whole world of security and fire protection technology together under one roof like no other. And that makes it the worldwide number one in this sector.

There will be 40 market segments – from fire protection to video. What new subjects can the visitor expect?

Claus-Peter Regiani: Global Travel Security is an important subject that challenges medium-sized companies and global players alike – in this globalized world, business trips or even longer postings abroad are no longer a rarity. But how can we protect our employees there? How secure is our company know-how that is on the laptop, iPad or smartphone that travels with them? Our world-leading trade fair also pays great attention to the area of IT security: ISMS, forensic evidence security and new solutions for encrypted data exchange are just some of the keywords. New developments in danger prevention in public spaces will also be seen. One example of this is the early recognition of threats through Behavioral Recognition systems. In short: the Security Essen event will provide the visitor with an absolutely comprehensive overview of the market.

There is growth on the exhibitor side – for example, in security service providers?

Claus-Peter Regiani: Security service providers are even more strongly represented this year: The „Protection, Security and Service" special focus section has therefore moved to the larger Hall 6 and is now located adjacent to the security vehicles. This promises to provide good synergies both for exhibitors and visitors. Three joint stands will enrich the choice on offer. As well as members of the Bundesvereinigung Deutscher Geld- und Wertdienste (BDGW – Engl.: National Association of German Money and Valuables Services) there will also be companies from the Bundesverband der Sicherheitswirtschaft present together for the first time. And both organizations will present their work on a third stand.

Do you have enough space? The modernization of the exhibition halls is currently delayed …

Essen naturally has a very strong international character. In 2012 around 39,000 trade visitors from 115 countries traveled here to the Messe Essen to find out about innovations, to make new contacts and to place orders; a superb number that we also expect in 2014. The same goes for the exhibitors: all the major manufacturers of civil security technology from around 40 nations will again be represented at Security Essen. We can already report growth in the number of international joint stands: as well as Great Britain, Italy, China, Taiwan, Korea and the USA, there will also be a Hungarian stand for the first time in 2014 using this world leading event as a window to its innovations and as a business platform.

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Claus-Peter Regiani,
Senior Vice President Trade Fairs and Exhibitions, Messe Essen

Claus-Peter Regiani: Our exhibition area is set up to host large trade events. Even though Security Essen already takes up a large part of the area, it still has potential for growth. The challenges in security and fire protection management are getting ever more complex: previously separate elements are now growing together; technical innovations, however, also contain new risks. At Security Essen we want to present the current knowledge from around the world and to promote informed discussion between manufacturers, users and researchers. We see this as our prime task.

How are the numbers of international exhibitors and visitors developing?

Claus-Peter Regiani: As the world-leading trade exhibition, Security

MANAGEMENT

The Ever-changing World of Security?

Threats such as Mifare hacking, the General Data Protection regulation coming in 2016, and the need for security to integrate with other IT-based systems – these are just some of the challenges security manufacturers and system users have to deal with and respond to. External factors such as these do provoke change in physical security systems, but it's reactive change. Whereas, in the IT world, innovation and product development occur quickly and proactively. So why do manufacturers of physical security systems have a more reactive attitude towards the changing world? Why does it take external pressure to bring about innovation?

Daryn Flynn, Business Development Manager

Design for Change

The physical security industry doesn't seem to have caught up with the idea that systems should be developed to meet future change. With almost any current physical security solution, dedicated software and hardware combine to provide specific functionality. A change in functionality, therefore, requires both software and hardware development. Such systems don't allow for fast responses to changes affecting the industry. And they don't anticipate future needs. From a client's perspective, systems based on dedicated hardware and software require significant investment for changes to be made, making them inflexible and expansion unnecessarily expensive.

Adoption of Open Standards

In IT, the decoupling of hardware and software has been a proven principle for many years, and so has the use of open standards. The latter approach is now being adopted by the physical security industry. Almost all video management systems and cameras, for example, have adopted ONVIF standards. And, from an access control perspective, card technologies and readers are interoperable. Recently, a new standardisation protocol was introduced for integrating offline locks within access control systems (Standardised Offline Access Application – SOAA). The paradox is, the use of generic hardware will make it easier to implement these standards, as it only requires development of software not hardware.

The adoption of these standards offers many benefits to security system users, of which freedom of choice and dealing with legacy might be the most important. Introducing standards allows clients to mix and match not only the cameras they need or the card readers that best fit their budget, it also allows them to select the specific functionality that suits their security policy. Transforming the industry. The adoption of both generic hardware and open standards will benefit clients significantly and, in fact, transform the industry. Uncoupling software from hardware allows manufacturers to respond faster to changes. Moreover, it will allow for innovation, as the time to get new products and features to market will decrease. This will allow the entire security industry to react to change quicker, and it will also encourage the industry to be proactive and innovative. The adoption of open standards will, ultimately, result in a different type of competition. Openness will make products more transparent and create fair competition focused on added value, unique features, product usability, design and innovative ideas, instead of hardware prices.

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10 Years GIT SECURITY AWARD: It is Your Choice

Vote for the GIT SECURITY AWARD 2015 and Win a Digital Camera

For the tenth time we are presenting the GIT SECURITY AWARD 2015. As in the past we did get a lot of applications from security and safety vendors from all around the world. Our jury did a pre-selection for you and has nominated about ten products in each of the categories for you to vote. Once again, it was very difficult for the jury to select only a few products from the large number of products which were entered. On the following pages we present you these nominated products and invite you to make your selection and vote. Three winners in each category will be elected and the winners will be presented at SECURITY Essen show and in our November issue.

Select one product for each category

Here are the most important details about placing your vote.

- You have 5 votes – 1 vote for each category.
- By submitting your votes, you are automatically taking part in the reader's prize draw.
- Please let us have your votes by August 21.
- Vote via fax: Fill in the voting sheet and fax it to us.
- Vote online: On www.PRO-4-PRO.com/go/GSA2015 you can vote with a click of your mouse. There you will also find information about the products, which you can access via the relevant direct code. In addition you can also obtain information about the company.
- Vote via E-Mail: Send us an e-mail with the category and your favorite (only one for each category) to GSA@gitverlag.com. Please remember to give your full company address. Private persons are not entitled to vote and a business address is essential.
- Employees of participating companies may not vote for their own products.

Illustration/generic photo

Win the reader prize!

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

Jury meetings at the Wiley office in Weinheim, Germany

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GIT SECURITY AWARD 2015 FINALIST

Vote: www.PRO-4-PRO.com/go/GSA2015

Category A – Safe Automation

Bernstein: DGUV Approved Enable Foot Switch – Enable Foot Switch

The Bernstein foot switch combines the functionality of an enable switch in a foot switch and is approved by the DGUV (German Social Accident Insurance). The enabling function is a typical safety function that is used in machines for set-up, cleaning or repair. The internal three-stage enable switch-in element is a 2-channel version which has a dynamic signaling contact. An optional electronic PNP output is also available - this allows the static determination of position 1 or 3 of the enabling function. The foot switch ensures the compliance of numerous C-standards, including DIN EN 692 and DIN EN 12622.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code DQVN

B&R: openSafety Control Panels – Control Panels with openSafety Interface

The openSAFETY control panels allow data to be exchanged safely over the bus. The integrated openSafety interface makes wiring E-stop, operating mode and start buttons obsolete. Since the only necessary thing is a bus and power connection, the control panels can be placed anywhere which makes commissioning and startup easier. Their design provides an overview of all machine and systems conditions. IP65-rated models can be used in harsh industrial environments. Customization and industry-specific solutions – for the food and beverage industry, for example – round out the B&R product portfolio.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code FVBL

Bihl + Wiedemann: BWU2852 – Safety Basic Monitor with Ethernet Diagnostic Interface

The Safety Basic Monitor is a 22.5mm wide device which can couple multiple applications directly through the built-in Ethernet diagnostic interface. Up to 31 Safety Basic Monitors can be coupled via Ethernet using Safe Link. No safety PLC is needed for the control. The new module has safety inputs or standard inputs and status outputs as well as electronic safe outputs integrated. Also included is a standstill and speed monitor function. Up to two axes can be monitored in parallel.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code Q1CE

Dehn + Söhne: DehnGuard SE H LI – Surge Arrester with Early Warning System

The surge arrester DehnGuard SE H LI features an early warning system (lifetime indication) which informs the user of an arrester's end of life at an early stage. In conjunction with a floating remote signaling changeover contact, the three-step visual indicator (green, yellow, red) continually indicates the status of the surge protective device. This type 2 arrester possesses a discharge capacity Imax up to 65 kA and complies with the requirements of the EN 61643-11 standard. It has a nominal voltage of 230 V a.c. and a voltage protection level of ≤ 1.5 kV and is available from 75 V a.c. to 1,000 V a.c.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code JTXX

Hima Paul Hildebrandt: HICore 1 Safety System-on-Chip – Pre-Certified Safety Chip

The Hima Safety-System-on-Chip provides a security system whose chip has already been certified by the TÜV Rheinland to SIL 3 (IEC 61508). The HICore includes the middleware and consultation and support services during the TÜV approval process and complete certification up to the development of a customer-specific board. The chip thereby provides the basis for applications that require proof of functional security for security-critical applications. The architecture of the chip is based on a redundant 1oo2D design. This ensures that the integrated communications subsystem works independently and without affecting other components.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 9G7K

GIT SECURITY AWARD 2015 FINALIST

K.A. Schmersal: RSS260 – Safety Sensor with RFID technology

The new RSS260 safety sensor from Schmersal combines the detection principles of RFID technology into a compact package and attains a high sensing distance. As well as the standard actuator that is suited for mounting on aluminum profile systems, other actuator packages are also available: a compact, square target and a long, flat actuator that is suitable for fitting to plexiglass protective doors. The safety sensors developed by Schmersal based on RFID permit the individual coding of each actuator that goes from the acceptance of any suitable target

to the individual acceptance of a learned target when first switched on. There is also the option of connecting multiple safety sensors in series and evaluating them with just one safety module.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code RUB4

Omron Electronics: OS32C – Safety Laser Scanner

The new safety laser scanner from Omron is light, compact and Ethernet-compliant. It allows the user to check operating status and analyze the cause of an emergency stop via LAN even in large-scale applications using multiple scanners. System status, zone status and measurement data can be monitored via EtherNet/IP. Therefore the unit can be used also for navigation of AGVs. Up to 70 zone set combinations using a detecting angle of 270° can be configured which provides coverage of two sides with just one scanner. Eight unique

individual LED sector indicators for intrusion or presence detection of objects in warning or safety zone are also included.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code NM4V

Pilz: PNOZ c2 – Safety Relay Monitors Light Curtain

The new PNOZ c2 safety relay from Pilz monitors light curtains up to Type 4 or OSSD outputs according to EN 61496. It has a reaction time of just 12 ms and reduces the extent of dangerous movements. Direct power supply of the light curtain from the PNOZ c2 evaluation unit ensures a reliable installation. The relay also has a monitored and an automatic start option. The device can be fitted without tools thanks to the integrated spring clips. The relay complies with the safety standard Performance Level

(PL) e according to EN ISO 13849-1 and Safety Integrity Level (SIL) CL 3 according to IEC 62061.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 5DDH

Sick: deTec Core – High-tech Safety Light Curtain

Sick's safety light curtain deTec Core protects persons at machines on a top safety level. In modular steps of 150 mm height a protective field height of 300 mm up to 2,100 mm are covered. The shape of the profile allows an quick and intuitive installation: The light curtain can be aligned smoothly by ±15°, the universal brackets are allowing a free orientation and positioning at any spot. Furthermore the light curtain is provided with an end cap as end stop. DeTec Core gives you a blind-zone-free protec-

tion over the entire profile length and it is extremely compact. That allows a trouble-free integration – as well in existing machines.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 485T

Siemens: Simatic S7-1500F – CPU For Safety Applications

The Siemens Industry Automation Division is expanding its new Simatic S7-1500 generation of controllers with the failsafe CPU Simatic S7-1518F. The new failsafe CPU is suitable for high-end standard and safety-related applications in machine and plant automation. The Simatic S7-1516F CPU also supplements the range of failsafe CPUs. In the Step 7 Safety Advanced V13 engineering tool, users create their programs by using the same engineering and operating concept for both standard and safety-related tasks. Data consistency functions automatically synchronize standard and safety-related program sections. The controller provides among other things onboard status display diagnostics messages without programming device and password protection for access to F configuration and F program.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 9G8Q

Wibu-Systems: CodeMeter – Security For Industry 4.0

CodeMeter encrypts and signs software to protect the know-how against reverse-engineering. The intellectual property contained in manufacturers' software is safeguarded against product piracy and cyber-attacks. CodeMeter supports a wide array of platforms: from small microcontrollers, through embedded systems, programmable logic controllers (PLCs), industrial PCs, desktop PCs, servers up to the cloud. The scalable framework also offers interoperability of software and smart card based security components. The CodeMeter offers multiple advantages: Product protection against counterfeiting, know-how protection against reverse engineering, integrity protection for a secure tamper-free operation of machines and plants.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 9G8Q

GIT SECURITY AWARD 2015 FINALIST

Category B – Fire and Explosion Protection, Industrial Safety

Vote: www.PRO-4-PRO.com/go/GSA2015

908 Devices: M908 – Handheld Mass Spectrometer For Rapid Incident Resolution

M908 is a handheld tool utilising high-pressure mass spectrometry (HPMS) and is engineered to provide civilian, federal and military responders with enhanced capabilities for Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) threat detection and identification at the point of need. Weighing just 2.0kg, M908 is designed to meet military standard MIL-STD-810G, battery-operated and designed for effortless operation in full personal protective equipment (PPE). With an expandable list of threats from chemical warfare agents, toxic industrial chemicals and explosives, M908 provides alerts within just 1 second delivering immediate intelligence on high priority threats as well as a rapid clear-down time between measurements.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code B8UL

Denios: UltraSafe SumpDeep – Drawn Sump

UltraSafe from Denios is the world's first deep drawn sump without edges, corners or weld seams and therefore completely water tight. UltraSafe is the ideal safety solution for handling hazardous substances, thanks to the proven deep drawing process. Internal transport is made easier thanks to the integral foot design, which makes it simple to lift with a forklift from either long side. UltraSafe is available in 2 versions: galvanised or painted, each with galvanised grid, with a storage capacity of 2 x 205 litre drums.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code Q15C

Minimax: UniVario Flame Detector FMX5000 IR Ex – Industrial Fire Detector with Loop Technology

The 3 channel infrared flame detector UniVario FMX5000 IR Ex can be used as addressable loop participant in potentially explosive atmospheres of zone 1, 2, 20, 21 and 22. It features an extremely robust industrial die-cast aluminum housing with the protection rating IP67. The fire sensitivities of the FMX5000 IR Ex are flexible for all classes according to EN 54 Part 10 (class 1, 2, 3 or maximum fire sensitivity X). A complete self-test as well as intelligent evaluation algorithms for dependable fire detection ensure safe and failure-free operation of the flame detector. The UniVario industrial fire detector FMX5000 IR Ex has worldwide approvals, e.g. according to ATEX, IEC Ex, VdS, FM and conformity to Russian standards and requirements.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 3JH7

Novar/Honeywell: ES Detect – Fire Detector For Conventional Areas

ES Detect is a microprocessor controlled non addressable fire detector setting new scales for use in conventional areas: in addition to intelligent algorithm for early detection the innovative product has an integrated drift compensation. The DIN 14675 demanded operation time of the detector can thus be extended from 5 to 8 years. ES Detect includes a wide range of detector types including the multi-sensor detector OTblue and O²T, with all advantages of parametrisation to be used in conventional areas with difficult environmental conditions. Due to its possibility of readout data regarding measurement, degree of contamination, alarm counter and operating hours ES Detect is more comfortable in maintenance as a normal conventional detector.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code Q15C

No Climb Products (Detectortesters): Scorpion – Functional Testing of All Smoke Detectors

Scorpion is a micro smoke generator permanently installed adjacent to a point detector or a sampling hole on an ASD pipe – typically at the furthest sampling hole. The smoke generator is connected to a Scorpion control panel mounted at a convenient, easy to access location at ground level. Functional testing of the smoke detector is then easily and safely achieved from the Scorpion control panel, whenever required. The Scorpion system has an in-built transport timer to help assess the on-going integrity of the ASD system from the end of the pipe right down to the detector itself. A clearing function is used to clear the smoke out of point detectors to reduce the chance of repeat alarms, increasing productivity on site.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code XWQ1

Pfannenberg: PYRA-M – Xenon Flashing Light For High Ceiling Heights

The PYRA-M is a flashing light controlled by a micro-controller on the basis of the latest Xenon technology. The PYRA-M is the first signaling device worldwide according to EN54-23, which can be used to alert in the event of fire at an installation height of up to 13.5m. It illuminates an area of 28m x 25m (700m²). It is now possible to equip industrial buildings with significantly higher ceilings, for example. The use of previous devices was restricted to applications with a ceiling of 3m maximum. It is characterized by their elegant pyramid design. The signaling device is suitable for different applications worldwide, due to its high protection systems, IP 66 and IK 08 and also an ambient temperature range of -40 to +55 °C.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code B24P

Securiton: ADW 535 SecuriSens – Line-Type Heat Detector

The line-type heat detector ADW 535 is applied in areas where a standard fire detector has its limits. Under extreme conditions like humidity, steam, heat (up to 800 °C) etc. the ADW 535 detects faster than regular heating cables because of its two sensor tubes (Double Tube Technology). A pressure sensor measures the air pressure of the sensor tubes permanently and analyses the data by differential analysis and maximum analysis. The ADW 535 can be programmed individually to its ambient conditions. For variable requirements the tubes of the ADW 535 are available in copper, stainless steel or teflon. The unique Dynamic Heat Watch Technology prevents unwanted alarms caused by fast increase in temperature.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code N87E

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Siemens: FDA221 and FDA241 – Aspirating Smoke Detectors Offer Highest Detection Reliability

The Aspirating Smoke Detectors FDA221 and FDA241 can differentiate between smoke, steam and dust. They are suitable for environmental challenging conditions and high sensitive areas. Aspirating smoke detectors continually draw samples of air from the areas requiring protection and evaluate these samples. For conventional systems it's quite difficult to differentiate between deceptive phenomena and smoke and therefore they are susceptible for false alarms. This problem is solved by our new Aspirating Smoke Detectors: They are using the optical dual-wavelength-detection. With

these two light-wavelengths – blue and infrared – they are able to detect the particle-size and -concentration and differentiate between smoke and dust.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code LELW

Stöbich Brandschutz: Fibershield-HC – Textile Fire Protection Closure For Large Ceiling Openings

The Fibershield-HC is a textile fire protection curtain with a horizontal closing direction. In case of fire the systems will close large ceiling openings automatically to prevent the spread of fire and smoke to further floors. The systems consists of a coil arranged in a casing, side guides which lead the bottom bar and the fabric. Basically the system can be compared with a horizontal rolling window shade. The fabric is a special coated fire resistant fabric. During the closing procedure the textile will be pulled moto-driven across the opening and finally locked up. In Idle state (standby position) the fabric is coiled in the casing

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code MEHB

Techem Energy Services: RF smoke detector 2 – Smoke detector with Self-diagnosis

The RF smoke detector 2 is designed for residential buildings. It offers comprehensive self-monitoring. This includes automatic environmental monitoring that detects obstruction or covering in a radius of up to 60 cm and sends a fault message in the event of prolonged fault. The permeability of the smoke inlet openings and the electronic components as well – and therefore the entire alarm path – are automatically checked. Intelligent processor technology ensures consistent detection sensitivity and contamination detection in the smoke chamber and prevents false alarms due to dirt particles. Thanks to these characteristics, the annual inspection is performed without entering the home – by radio transmission.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code FNP3

Victaulic: Vortex – FM-Approved Hybrid Fire Suppression System

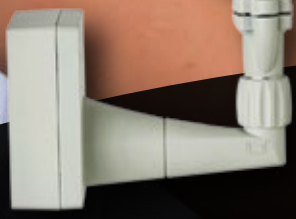
FM-approved Class 5580 Hybrid Fire Suppression System. Rapidly extinguishes fires with no toxic chemicals and minimal disruption to ongoing operations. Utilizes a combined suspension of water and nitrogen to cool the hazard area and remove the oxygen that sustains the fire using high velocity and low pressure. A swirling distribution fills the hazard space at 64 km/h / 40 MPH and quickly extinguishes the fire with little to no water presence. Releases water droplets minimising wetting of equipment or surrounding space. These ultra-fine water particles feature a heat-absorbing surface area 90x greater than standard sprinklers.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code VWHY

Zweibrüder Optoelectronics: LED Lenser X21R.2 – Supreme Lighting Performance

The LED Lenser X21R.2 attracts with stunning performance statistics, technically outstanding solutions and an elegant styling. The supreme lighting performance of up to 3200 lm* can be precisely focused using seven reflector lenses. Thanks to the X Lens Technology,the bundled rays are reinforced by the advantages of the patented Advanced Focus Systems (AFS) creating a perfect lighting experience. The Smart Light Technology Pro, in conjunction with the new „Fast Action Switch" enables simple and direct control of the individual lighting functions. Thanks to the future-proof battery technology and the Floating Charge System Pro, the charging procedures are even more convenient,wear-free and practical. An integrated transport securing mechanism also enables use in vehicles.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code FZ6C



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Category C – CCTV

Avigilon: HD Pro Camera – Next-Generation HD Pro Camera Series

Avigilon's new HD Pro camera series is the industry's most powerful and innovative line of high-definition cameras yet. Engineered using H.264 compression technologies, Avigilon's next-generation H4 platform allows for improved overall camera performance including: faster processing power, more efficient bandwidth management and superior image detail. Available in 8 MP, 12 MP and 16 MP resolutions, the HD Pro camera provides high quality, detailed coverage of vast areas and delivers exceptional low-light performance with Avigilon's groundbreaking LightCatcher technology.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code WVD1

Arecont Vision: SurroundVideo Omni – SurroundVideo Omni Cameras

SurroundVideo Omni Cameras feature four multi-megapixel sensors that can be individually adjusted to capture different fields of view within a full 360° range. This allows a single camera to provide detailed coverage of a wide area including the ability to provide views directly under the camera or multiple fields of view using a variety of different lens options. Omni Cameras are available in 5MP, 8MP, 12MP and 20MP configurations. For added versatility, the low-profile cameras will have multiple lens options available from 2.8 mm up to 16 mm. Omni Cameras feature the company's Wide Dynamic Range technology in the 12MP configuration which delivers a dynamic range of up to 100dB at full resolution without lowering the frame rates.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code Q7E1

Axis Communications : Axis P1428-E – Bullet-style Network Camera

The Axis P1428-E bullet-style network camera is Axis' first 4K camera coming with a resolution of 3840x2160 pixels at 25/30 fps. It is the top model in the new Axis P14-series, delivering in total seven camera models designed for outdoor (IP66) and demanding indoor environments. True day and night, P-iris with remote focus and zoom, I/Os and micro SDHC/XC card slot, Axis' corridor format and the typical Axis easy installation form a perfect combination. This camera model is an ideal candidate to cover large areas and/or provide a high detail level at full framerate. Furthermore it markets for a price that makes high-res video surveillance very affordable. A large variety of accessoires complement this camera series.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 9HQU

Bosch Security Systems: Dinion IP ultra 8000 MP – IP-camera with ultra HD resolution

The Dinion IP ultra 8000 MP camera by Bosch is the first IP camera delivering ultra HD resolution (3840 x 2160) relevant to the video surveillance market. It sends detailed images even when motion and challenging lighting pervade the scene. Bit rate and storage costs are cut by up to 50% thus lowering network strain vitally. Persons and objects are recognized in a long distance, while moving objects are identified in dark and bright areas and can be captured in ultra HD resolution at 30 fps. The camera enhances safety and security by offering better identification skills during live viewing and retrospective analysis. The camera is ideal to captures faces, numbers and large areas like airports and casinos, that need 24/7 surveillance.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code WARJ

Brickcom: PH-100Ah Kit – Triple Extensible View Covert Camera

The PH-100Ah Kit is the world's 1st triple extensible view covert camera. The PH-100Ah Kit consists of the VB-03 video box and up to 3 PH-100Ah cameras. This product has the following advantages: 1. Lower Total Cost of Ownership: All the PH-100Ah cameras are accessed via the video box, which runs on 1 IP address, 1 PoE cable, and 1 Ethernet port. This reduces the cost for equipment, labor, and maintenance. 2. Extensible View: The PH-100Ah cameras can be connected to the VB-03 via the extension cables (max 7m), which makes it possible to view 3 places simultaneously. 3. Unobtrusive Monitoring: The PH-100Ah only does imaging, so it can be small and compact. 4. Plug and Play: The adding and removing of cameras requires no rebooting of the VB-03.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 9HQU

GIT SECURITY AWARD 2015 FINALIST

DahuaTechnology: DH-HAC-HFW2200E – Water-proof Bullet Camera

The camera supports IR LEDs of effective range of 20 meters for poor-lighting condition, and its special smart IR technology realizes intellectual IR lighting adjustment to meet different surroundings.1/3\" 2Megapixel CMOS,25/30fps@1080P,25/30/50/60fps@720P High speed, long distance (300m/500m) real-time transmission, Full HD and standard definition switch, OSD Menu, control over coaxial cable, Day/Night(ICR), AWB, AGC, BLC, 3D-DNR,6mm fixed lens (2.8 mm, 3.6 mm, 8 mm optional), max. IR LEDs length 20m, smart IR, withstand a wide temperature range from -30 °C to 60 °C,IP66 rated.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code WJ8S

Dallmeier Electronic: S-Panomera – Multifocal Sensor Systems for Commercial and Industrial Applications

The new S-Panomera has been developed for commercial and industrial applications. The advantages of Dallmeier's patented multifocal sensor technology can now be applied to smaller projects. From a single installation point, the S-Panomera delivers images of the entire area in uniform resolution. Unlike PTZ cameras, the S-Panomera records the entire scene all the time (up to 30 fps), even while only a section of the picture is being looked at live. So the operator can carry out his tasks without undue pressure, and without missing anything. Further features are good low light sensitivity (0.15 lux) and a dynamic range of 120 db. Panomera conforms to the Onvif standard and can be integrated in standard management systems (multiuser capability)

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code EQQV

Genetec: SV-32 – Speed Up Your Deployment

The SV-32 is a compact micro-server network security appliance equipped with an Intel core i7 processor, up to 8 GB of RAM, and 2x Gbe ports. The fanless appliance has remarkable heat dissipation capabilities while incorporating four 2.5" hard disks within an all-metal fanless casing. The SV-32 comes pre-loaded with Genetec's leading surveillance software, Security Center, which provides the software features to target physical security deployments in various verticals. For more information, please visit: www.genetec.com/solutions/all-products/omnicast/sv-32

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code QW7L

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Idis: DirectIP – Next Generation Surveillance

Launched in 2013, DirectIP solutions from IDIS comprise a range of IP HD cameras, network video recorders (NVRs) and a video management system (VMS) built on the game changing DirectIP framework and protocols. The solution suite provides the industry's first true one-stop-shop HD surveillance solution from a single source provider, while the DirectIP framework and VMS allow simple, low cost installation and ease of use previously only associated with analogue systems.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code RLMG

LG Electronics: EuSP LNV7210R – Smart Camera with SmartControl

The LNV7210R is part of the new FullHD camera family from LG Electronics. This vandal resistant mini dome camera combines the benefits of a fixed dome with a small form factor and a ptz dome camera all in one. The main benefit of this camera is the time saving LG SmartControl. SmartControl enables the camera to be fully controlled during and after installation from a remote location. Once fixed, the installer can remotely choose the best field of view by 360 degree panning, tilting and 3x zooming with auto focus via, PC, laptop, tablet or smart phone. Average installation time is less than 30 minutes and the module can be repositioned as and when the risk changes without being at the camera. In addition, the LNV7210R offers a full set of features including DEFOG, WDR, SD card, POE, SmartIR.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code S1H2

Milestone Systems: Milestone Husky – The Milestone Husky Series

Based on appearances alone, the Milestone Husky NVRs are different from others in the market. The appliances are sleek and sophisticated – designed to fit any environment, even on a small retail shop's shelf! Ensuring reliability and durability, the hardware is industrial-grade and works seamlessly with Milestone's VMS. Yet, it is the flexibility of the Milestone Husky Series is what makes the solutions stand out.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code H7VE

Mobotix: M15D-Thermal – Thermographic Camera

The new modules of the thermographic camera measure the thermal radiation of objects and persons and therefore work even in complete darkness. In connection with the Mobotix MxActivitySensor motion detection software, it is possible to detect movements in the image reliably also at night. Only changes in location trigger a signal, while objects moving in place do not. Also at daytime, thermal modules provide an advantage, because they also capture objects moving in the shadows, in twilight or behind bushes. The advantages of an M15-Dual camera with a thermal module and daylight sensor originate from the combination of both images: images taken by day or also in the twilight produce high resolution 5-megapixel images, while movements at night are detected reliably. The Mobotix thermal modules have been certified as weatherproof according to IP65. Like daylight modules, they are available in different focal lengths.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code GMY6

Vivotek: Network Camera FE8181V – Vandal-proof IR Fisheye Fixed Dome Network Camera

FE8181V is VIVOTEK's latest 5-Megapixel IR fisheye fixed dome network camera. Equipped with a fisheye lens for 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/table mount) without blind spots, the camera is able to provide coverage of wide, open areas as airports, shopping malls, parking lots retail stores, offices and more. FE8181V is furnished with a removable IR-cut filter for Day & Night Function, and built-in 10 meters IR Illuminator for delivering uniform lights for 360° surround view, securing superior image quality. FE8181V's IP66-rated housing and the vandal-proof IK10-rated housing effectively resist from harsh weather conditions and provide robust protection from physical damage.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code VTBR

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Category D – Access Control, Intruder Alarm, Perimeter Protection

AOS Stahl: Avantgates – Vertical Gates

Innovation, flexibility and design built on a fundament of 1m³. This gate is working with a hydraulic motor. The motor is able to lift a wing of ten meters as easy as a bar. Therefor the motor of an Avantgate works with pressure around 70 bar. We also ensure safety while using the Avantgate. All gates work with an active contact bank and in addition to this up to ten safety light barriers. All Avantgates, private and industry editions, are hot dip galvanized and powder coated to ensure longevity. They are available as single and folding gates. This gate system is able to handle gapping, because of its construction. Each gate will be delivered as a basic module of 4 meters and additional parts to build it up as required at its destination.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 98LZ

Vote:
www.PRO-4-PRO.com/go/GSA2015

Abus Security-Center: Eycasa Door & House Wireless Video System – Communicate – Monitor-Open

Abus draws on its experience in the areas of door security and video surveillance for designing the Eycasa door and house wireless video system. For the first time, the security idea (video images) combines home comfort and optional video-acoustic monitoring for small children or the elderly in need of support. The base set consists of a video door unit and main unit, enabling you to see, hear, speak and switch. Thanks to a total of 4 wireless channels, the outdoor camera and the family care camera can also be connected – each with automatic day and night vision. A portable handset for trouser pockets (remote control for seeing, hearing, speaking and switching / range 30 m) will be available shortly.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code BKHR

Automatic System: SlimLane Range of Speed Gates – Maximum Throughput in a Minimum Footprint

Automatic Systems' new SlimLane offering combines maximum throughput in a minimum footprint, thanks to its short cabinet version, with high speed and best in class security. The SlimLane has a very slim and modern design perfectly suited to any type of interior architecture. Its fast closing/opening movement ensures maximum throughput in a very compact footprint. Its security features include a high-performance detection system running along the whole lane and across the glass obstacles for dynamic, predictive tracking of users thus preventing unauthorized use and making SlimLane the best in class speed gate in terms of detection capabilities. SlimLane benefits from an open communication platform for IP connectivity.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 4TLV

Axis Communications: Axis A1001 Network Door Controller – Access Control Management

The Axis A1001 Network Door Controller is an open, non-proprietary platform for access control management. It is a scalable and future-proof solution for smaller installations as well as for advanced enterprise systems. Features like PoE (802.3af) with all its benefits, automatic unit discovery and a open API make a efficient base for intelligent solutions. It is the world\\\'s first ONVIF profile C compatible access door controller and supports most reader types. Based on standard network protocols, the integration with other IP based systems (e.g. IP Video) is much easier than with proprietary systems. The Axis A1001 comes with the built-in-web-based software, the Axis Entry manager. With this free software up to 33 controllers can be managed.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code D7C6

GIT SECURITY AWARD 2015 FINALIST

Bosch Security Systems: Radion – Wireless Peripherals for Flexible Security

The new wireless peripherals family Radion from Bosch is designed to meet the needs of residential and small commercial applications. The portfolio also scales to larger installations with the addition of repeaters. Radion includes motion detectors, surface and recessed mount door and window contacts, transmitters, key fobs, panic buttons, glass break and smoke detectors. An operation within the 433 megahertz band allows for high transmission power and strong penetration through building materials. Tailor made auto-addressing and diagnostics functions ensure an easy installation and maintenance. Customers are in safe hands with Bosch since Radion has been certified by independent laboratories and complies the EN 50131 Grade 2.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 8U7R

CEM Systems: Emerald – Multi Functional Intelligent Touch Terminal

The CEM Systems emerald Intelligent Access Terminal, is a touch screen smart card reader and controller in one, with a fully integrated Voice over IP (VoIP) intercom and Remote Applications. Working with CEM AC2000 security management system, Remote Applications are a range of AC2000 server based applications that are available to access directly at the door, making emerald a security intelligence point. emerald is a highly secure access control device that is flexible and user friendly, providing a wide range of information and intelligent tools at the door while enabling business efficiency and cost savings.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 135H

Gantner Electronic: GAT eco.Time ST 370 – Time Recording Terminal with NFC and FRID Technology

GAT eco.Time ST 370 is a time recording terminal with an innovative reader, useable with NFC and almost any RFID technology. A fingerprint reader can be added to this easily mounted terminal via a wall mounting and a POE. The sting: The fingerprint is scanned directly at the eco.Time and recorded on the NFC device. As the fingerprint data is not recorded centrally but remains with the user, data protection requirements are fully met. The NFC device turns into a data carrier, the terminal only operates together with the fingerprint and the NFC data carrier. Manufacturers of time recording software do not have to integrate the recording/administration of fingerprints into their software, which represents a significantly simplifying novelty.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code JTXT

Haverkamp: Profilon P3A – Security Film with P3A Certificate

Profilon P3A was tested and certified according DIN EN 356A in January 2014. This film got the first certificate worldwide in the antivandal class P3A. A pane layered with this film had to withstand the collision of a 4.11 kg steal ball, of 6 meters drop height. Profilon P3A is a translucent, multilayered antivandal security film that protects glass surfaces against burglaries, vandalism and attacks with incendiary material. The film has, because of its state, explosion-pressure resistant properties and it also comes with a high splinter binding that minimizes the hazard of flying splinters.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code Q3NK

HID Global: Seos – Enabling Any Smart Device to Be a Credential For Access Control

Seos is an open technology that enables any smart device to become a trusted credential, replacing mechanical keys and access cards using wireless technology, such as NFC or Bluetooth, to open doors in homes, hotels, offices, hospitals, universities, industries and commercial buildings. Seos is used for issuing, delivering and revoking digital keys that are delivered with end-to-end encryption and stored securely on SIM cards, embedded secure elements or Micro SD memory cards. With Seos, organizations can take advantage of a new generation of solutions to create, manage and use secure identities while extending the range of supported devices that can become credentials.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 2JT6

GIT SECURITY AWARD 2015 FINALIST

Honeywell Security: MB RF Magnetic Contact – Compact and Flexible: Magnetic Contact

The MB RF magnetic contact from Honeywell Security is equipped with two internal sensors, allowing the monitoring of two windows/doors etc. with only one detector. In addition, two external inputs are available for the launch of additional contacts – for example for integrating other windows or doors. All inputs (2x internal and 2x external) can thereby be identified individually by a control panel. The design of the detector and magnet is aligned, which will support an optimal arrangement. The range in free space is up to 300m.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code VZA7

Nedap: Aeos – Security Management Platform

Aeos, developed by Nedap, is the first security management platform that implemented the Standard Offline Access Application (SOAA). This new standard for electronic offline access control products ensures that authorisations for access are written on Mifare cards at any designated online card reader, using a standard protocol. And by using this standard protocol, Aeos allows you to work with offline locks from a large variety of manufacturers. Authorisations and lock settings for all offline locks can be configured in Aeos. And all events taking place at the locks, such as battery notifications, are directly fed into Aeos and can be viewed in the Aeos application.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code LCVT

Vote:
www.PRO-4-PRO.com/go/GSA2015

Institut-Neuscheler: ArgosTronic – Kfz Security for Car Dealer´s

ArgosTronic is a vehicle anti-theft system for car dealers and their grounds. ArgosTronic is equipped with a sensitive motion tilt and infrasound sensor and is placed in the cigarette lighter of the car via plug and play. Here it is supplied with a three years holding battery. The system communicates with the receiving center. ArgosTronic recognizes Jack up the, as well as move the vehicle and in addition also the hammering of a disc and the improper opening of doors. It triggers an alarm and sends it to a NSL which based on the PC Management accesses surface, detects the alarm, acknowledged and opt. is supported by a map of the area. With IP cameras, the theft is detected visually to be able to initiate further steps accordingly.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code BD1Q

Salto Systems: Electronic Lock XS4 Mini – Compact Electronic Lock

Salto System's XS4 mini demonstrates how Salto breaks new ground thanks to this innovative product's mini size and mini installation needs. With the XS4 mini, there are only two holes needed for DIN locks. Such product design marks an important advantage for fire doors and for saving on installation time. Plus, since it's Salto, of course there is no hard-wiring needed. Good-looking product is also a Salto trademark and with the XS4 mini we again raise the bar on this already high standard thanks to the XS4 mini's small discreet size combined with a modern, clean LED aesthetic to indicate when access is granted (green) or refused (red) to a presented carrier. The market will see this new design language from Salto in the coming months.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 63J7

Siemens: Magic Mirror – Motion Detectors

'Magic Mirror' motion detectors utilise an innovative dual mirror design which sets new standards in detection sensitivity and enables an extremely compact design as well as making them less susceptible to false alarms. The modern and elegant design suits the most stylish of environments and a flat, low profile format and flush mount ability ensures unobtrusive installation. Magic Mirror detectors are available as passive infrared and dual detectors, 12m and 18m range, with and without anti-mask. Installations can be carried out quickly and error-free due to features like Auto Walktest and new End-of-Line concept (EoL). Onboard energy-efficient electronics means Magic Mirror detectors consume significantly less power than comparable models.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 5PPU

GIT SECURITY AWARD 2015 FINALIST

Category E – Safety and Security Management

Denios Complete-Data-Center (CDC) – The Server Room on the Way to the Data Center

The CDC is the secured, fire-protected and vandalism-protected IT container system. All for the operation required systems of the infrastructure are in place and geared to each other. The turnkey ready support requires only the connection to network and power. The active IT technology occurs independently of manufacturer, which can be brought in by the user. CDC offers huge cost and planning certainty, reasonable by untimely, intensive coordination, as one of the benefits the CAT2 certification preparation. Also the secure future based on the partnership of the established international partner and manufacturer. In addition, the CDC connects the demanded operational safety with optimized operating expenses by using of efficient precision climate control and UPS.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code RCEM

domeba: LeManSys – Train External Companies and Visitors

The e-learning software LeManSys supports companies in fulfilling legal and audit-related requirements for the instruction of external companies, including documentation and tracking of relevant details of the visit. Visitors complete the training either in their own company or at the beginning of their visit and thus will be informed about all safety-related topics. Own course content can be easily uploaded into the system. After passing a comprehension test a certificate will be automatically created and a visitor pass can be printed. The whole instruction process can be

flexibly adapted and integrated into existing systems (e. g. access control systems).

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code JRPK

Modular Platform for Security Solutions – Honeywell Security: MB Secure

MB Secure is a new generation control panel. All MB Secure systems are equipped with a consistent hardware board and firmware that already contain the complete scope of services and all the functionalities. All functionalities can be activated via license keys as required. Thus, users only pay for what they really need. Another advantage of the new MB-Secure: It is one of the few security control panels in which installers can make later upgrades without structural changes. For changing requirements, additional

functionalities are activated easily via license keys.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code BQUV

Fire & Rescue Instructions: Divera 24/7 – Web-based Data Bank for Personnel-planning

Divera is a web-based data bank for personnel-planning in the areas of Civil defense and emergency services (Fire & Rescue service, THW, etc.). The users announce her temporal availability by phone or Internet to the server. Divera provides with the deposited qualifications on the Server an overview for decision-makers as for example the control center. Decision-makers are now able to make faster decisions because their available Personal are now on a better data. There can be a protective goal for each unit. This

can be defined and supervised at a central place. The time windows and the qualifications levels can be specifically bye each single user.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code AGQM

Legic Identsystems: IDConnect – Cloud-based Service for ID Applications

Legic offers with IDConnect a worldwide unique cloud-based service for ID applications, that offers significant added value for application providers, Mobile Network Operators and end-users. All contactless chip card applications can be transmitted securely and easily to a mobile telephone via IDConnect. Credential Management, Applet Design, Data Preparation, authentification or the communication between the Backend system and the Mobile Network

Operator becomes blindingly easy. Application provider can cheaply and easily prepare their solutions for the mobile market.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code URBF

GIT SECURITY AWARD 2015 FINALIST

Milestone Systems: XProtect Corporate – IP Video Management Software

XProtect Corporate is powerful IP video management software (VMS) designed for large-scale and high-security deployments. Its single management interface enables the efficient administration of the system including all cameras and security devices regardless of its size or if it is distributed across multiple sites. For systems demanding supreme situational awareness and precise response to incidents, XProtect Corporate features interactive maps linked to alarms and included support for Milestone XProtect Smart Wall. XProtect Corporate provides the ultimate system reliability for high-security installations and for video enabling a business.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 9RGE

Panasonic: Cameramanager – Cloud-based Camera Surveillance

Cameramanager 360° is a cloud-based camera surveillance solution targeted at retailers with a need to have full 360° visual control on their shop. Cameramanager 360° connects the Panasonic 360° degrees cameras to the internet and the Cameramanager software. The Cameramanager software stores the camera's footage directly into the cloud, making the cameras fully manageable remotely. The Cameramanager software allows customers to change between the different views of the camera: 1x 360° view, 2x 180° view or 4x 90° view, to use camera pre-sets and to use the guard tour of the camera to automatically change between views, all from the cloud. The software is used on all devices: PC, Mac, smart phone and tablet.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code 3689

Securitas: Remote Video Solutions – Audio-Visual Remote Surveillance

Security Service 2.0: Securitas presents its ‚Remote Video Solutions' (RVS) product. The security specialist demonstrates how „datability" – the responsible and intelligent use of large volumes of data – is already being put into practice today. RVS combines the most modern IP technology with intelligent analysis software. The core functions include 24/7 perimeter protection of property, video inspection patrols, remote lock operation and supporting services. At the heart of the solution is the ability to talk live from the control center. This system makes it possible to react quickly to events, in the best case before damage can be caused to the object under surveillance. False alarms and a high intervention rate can thereby be reduced to a minimum.

Further Information at www.PRO-4-PRO.com/go/GSA2015
Direct Code E596

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PRODUCTS FOR PROFESSIONALS

◀ Marc Handels, Salto System's Vice President Marketing (left) with Heiko Baumgartner, GIT SECURITY (right)

Salto has in the recent years developed new access control concepts and a wide range of innovative products such as the XS4 access control platform based on the Salto Virtual Network. Late in 2013 Salto Systems launched Clay by Salto, a new IP door controller working wireless via 3G. This year the company will launch the XS4 mini, the latest member of the XS4 product family. Prior to the market introduction in the EMEA region at IFSEC in London and Security Essen in Germany, GIT SECURITY had the opportunity to talk to **Marc Handels, Vice President Global Marketing & Sales at Salto Systems**, about the product launch.

COVER STORY

Smart, Small and **Secure**

Salto Systems to Introduce XS4 mini Product Family

GIT SECURITY: Not all of our readers are familiar with Salto Virtual Network SNV and the XS4 access control platform. Can you give us a brief introduction?

Marc Handels: The market for access control system has changed radically in the past years. While initially our XS4 system started as an offline system to be a substitute for mechanical locks, we now handle many large projects, where our locking systems are used from A to Z. End user customers like flexibility and want to have various elements integrated into a system for their projects. Salto Virtual Network SNV and the XS4 access control platform 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, Nedap and Siemens to name but a few.

At IFSEC and Security Essen you will present the XS4 mini. Can you explain if it is a completely new system or if it is just an expansion of your product line?

Marc Handels: At the trade fairs we will show the EMEA audience the XS4 mini, our latest product breakthrough and member of the XS4 product family. The XS4 mini is part of a broad initiative of new products that follow our concept of developing innovative access control products with state-of-the art technology and an attractive design, a design that follows the function. XS4 mini includes all the good Salto features like Salto Virtual Network SVN and wireless but in a mini size, with mini installation needs and on an updated technology basis. The XS4 mini's compact size combined with a modern LED aesthetic marks also a new design language from Salto that the market will see in the coming months as the XS4 family will continue to grow. For us it is an important step into the future as we had incredible and ongoing success with the classic version of the XS4 with more than 1.5 million units sold yet.

When you started to develop the new series, what were the basic considerations?

Marc Handels: The product was redesigned from scratch. We wanted to introduce a new generation of products that keeps us on the highest technological level and at the same time

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More information about the XS4 Mini

introduces a new design language. A clear design was developed that offers a good interface for the user and will become an ambassador for the whole Salto brand. If somebody sees a product of the new series in the future, we want him or her to recognize: "Oh, that's a Salto". Aesthetic and design are sometimes underestimated when security products are developed. Our talks to planers, architects and end-users in verticals like the hotel business have shown us how important the design is. I think we can claim that great design is also a Salto trademark, not only the technical features. We think that with the XS4 mini we again raise the bar on this already high standard thanks to the XS4 mini's small discreet size combined with a modern, clean LED aesthetic. The LED indicate when access is granted with green light or is refused (red light) to a presented carrier.

On the technical side, what has changed at the heart of the product?

Marc Handels: Embedded in the heart of the product is the latest microprocessor technology, ready for the connected world, open and future-proof for online connection, wireless technology and NFC. It is a powerful upgrade that will help with the integration third-party systems, like DESFire cards systems and needs little effort to adopt to new challenges and integration tasks.

Will the classic XS4 version be replaced by the XS4 mini?

Marc Handels: As mentioned, the XS4 mini is the first product of a new range of products. Other components of the new range will follow soon. This whole range will be the successor of the classic XS4 product series. A long-plate version, new readers, cylinders and a control unit will follow. The expectations on the new range are high, but we will keep the classic XS4 version available for a long time.

You mentioned the minimized installation time for the XS4 mini. How do you achieve this?

Marc Handels: The special focus for the product development was really on a very compact design and as little installation effort as necessary. With the XS4 mini, there are only two holes needed for DIN locks. For Scandinavia the system just fits to the holes that are already at the door. No drilling is necessary. Such a product design marks an important advantage for fire doors and for saving on installation time. Plus, since it is a Salto product, of course there is no hard-wiring needed. This saves extra time.

What advantages does the user get from the new system besides the size and ease of installation?

Marc Handels: The user in general gets all the advantages of the Salto Virtual Network. He can store for example identification credentials on the identification medium, gets information on the battery status and has access to information about disabled keys. From a fire protection point of view it is important that fire doors do not lose their certification when a XS4 mini is installed. And frankly I think the user gains in the aesthetic aspect as well – the XS4 mini's very modern look transforms the fundamental need for outstanding security into something much more – a technologically state of the art lock with a design edge that becomes a cool accessory for your door and sets a user's installation apart.

▶ CONTACT

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ACCESS CONTROL

The Airport Challenge

ADT Inverness Installs CEM AC2000 AE to Meet Airport-specific Security Requirements

With almost 615,000 passengers a year, Inverness Airport is the largest airport in the Highlands and Islands of Scotland and is a key gateway for the north of Scotland. The airport's route development and rise in passenger footfall have been catalysts to the airport's overall growth year on year, and ADT has responded by installing the AC2000 AE system and intelligent hardware from CEM Systems to accommodate the expansion.

CEM Systems, part of the Security Products business unit of Tyco, and ADT Fire & Security have announced that the CEM AC2000 AE (Airport Edition) security management system has been installed at Inverness Airport in Scotland to manage passengers and staff. The AC2000 AE is an airport-specific access control system and is designed to monitor and manage access to the airport areas and services, helping to ensure the safety of staff and passengers alike.

The system encompasses powerful core access control features with a host of modules designed specifically for airports, including check-in desk enabling, air-bridge monitoring, vehicle management, passenger reconciliation and much more. With a suite of powerful applications, and through seamless integration with other airport systems, CEM's AC2000 AE system provides a fully integrated business solution designed to help airports run more efficiently.

Philip Verner, Regional Sales Director EMEA, CEM Systems, said "By working in consultation with airports for over 25 years we understand the dynamics of airports and, using the AC2000 AE system in conjunction with our hardware, help to provide Inverness Airport with the highest level of operational efficiency and security."

Intelligent Technology

Inverness Airport uses CEM's innovative access control hardware which features an LCD to provide staff with instant feedback on the system, including crucial cardholder information. The reader offers the highest level of reliability as it features an internal database for offline card validation. This means that should communication be temporarily lost with the host AC2000 server, airport staff can still validate cards using the card records stored in the reader's internal memory, ensuring zero downtime at critical doors which is mandatory for Inverness Airport.

Inverness chose the reader with DESFire smart card technology, one of the most secure card technologies available. The card stores information securely, ensuring it cannot be cloned, and only valid staff cards are granted access. The CEM DESFire smart card delivers the perfect balance of speed, performance and cost efficiency.

Inverness Airport also uses the VIPPS (Visual Imaging & Pass Production System) application. This gives the operator a range of video imaging facilities for capturing personnel details and images and incorporating these onto professionally designed ID passes. The VIPPS application allows ID unit administrators to create bespoke permanent or temporary printed ID passes that can be color coded. As Inverness Airport continues to grow, the CEM Systems solution can be easily developed and expanded to meet the airport's evolving security needs.

Multi-faceted Challenge

"ADT Inverness managed the installation of the CEM AC2000 AE system and hardware solutions at Inverness Airport due to its comprehensive understanding of airport challenges and the security required to overcome them. By installing this airport-specific access control and security management solution, we were able to meet the customer's huge security requirements, delivering continuity of key systems, coupled with diligent authentication to airport services," said Ian Hodgson, Managing Director of the Northern Region of ADT Fire & Security.

The company designs, installs and services fire and electronic security systems that deter thieves and help protect people, goods and property for residential, business and government customers in the UK and Ireland.

▶ CONTACT

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Tel.: +44 2890 456767 · www.cemsys.com

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SECURITY FOR PORTS

Plus Belle La Vie en Monaco

Principality Overlooked by Dallmeier CCTV

Nestled on the shores of the Mediterranean Sea in Southern Europe, the Principality of Monaco is an international hub of wealth and enterprise. People of 119 nationalities successfully live here together. Bankers, businessmen and entrepreneurs, people from all walks of life, mingle together in Monaco, which over time has developed into one of the most cosmopolitan and popular states in the world. One reason for this popularity is the low criminality in the principality, the result, among other things, of many years of video surveillance by the German CCTV/IP manufacturer Dallmeier.

The Monégasque government has been using a video surveillance system for a number of years to ensure peace and security throughout the state. However, the analog system with manually controlled tape recording had ceased to be suitable a long time ago as only a portion of the available cameras were being recorded, while the expenses for the regular maintenance work and the exchange of video tapes were very high. On top of this, the search for relevant image sequences within the recordings was time-consuming and laborious. Therefore, the decision was made to install a digital system.

In 2005, the contract for the installation was awarded to Regensburg-based company Dallmeier, which had already successfully realized the video surveillance system at the Casino Monte Carlo. Dallmeier developed a custom-made video surveillance solution which met the customer's high requirements regarding quality and ease of use. One of the decisive criteria for choosing this manufacturer's products was the easy integration of the existing analog video matrix. The company had designed a hybrid solution in which the existing system could be converted step by step to a fully digital system. This gradual transition from one system to the other has two advantages: a high degree of investment and cost control as well as simplified integration.

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Over 500 Cameras

The virtual matrix (digital crossbar) developed by Dallmeier is well suited for the requirements on site in Monaco. It enables the transmission and recording of video and audio signals in broadcast quality via an Ethernet/IP network. With this technology, the video signals of any number of cameras in public areas are encoded and, if required, transmitted via the IP network. Using the Semsy management software, the system can be very easily and intuitively controlled and administered. The core of the system is made up of DIS devices. These are real-time streamers and recorders which transmit and record a total of 520 cameras (fixed and PTZ cameras) with redundant/mirrored storage. They are in operation 24/7, so the entire city area is monitored by video surveillance around the clock and events can be investigated in detail.

The flexible design of the DIS-2/M permits the monitoring of critical areas which require high recording quality and real-time transmission in compact form. Each system consists of up to ten modules which operate based on the security operating system Linux. Both a video and audio signal can be connected to every module. Four input and four output contacts are available per channel for control and switching tasks. Additionally, every module is equipped with an RS232/RS485 interface to control PTZ cameras.

The system's modular structure and the hot plug functionality of the single modules, which the redundant power packs of the component rack have as well, ensure high availability of the complete solution. Based on the DIS-2/M, the Dallmeier virtual matrix can be realized in a space-saving and cost-effective way and the unit also has LGC Forensics certification, which means that swapped image sequences are accepted as evidence in court.

The systems record directly onto the integrated memory and thus ensure maximum availability of recording data – even in the case of network problems and failures. This decentralized storage concept furthermore minimizes network bandwidth requirements. The live transmission of camera signals as well as the display of recorded material are possible simultaneous to recording, without any restrictions.

Vigilant Electronic Eyes

When selecting new network cameras, the Sûreté Publique of Monaco decided on Dallmeier IP cameras. These are installed in Police Headquarters and monitor all entrances to the main building. The detention cells located there are also equipped with cameras that record onto DIS-2/M NSU IP servers, 24/7. Three operating stations are available to the personnel in the technical and operative security center. „The Dallmeier system was integrated with a large monitor wall covering 7 m² as part of the renovation and modernization of the control center" explained the responsible person.

Evaluation and analysis of the recordings or events is very fast using the Semsy security management system, which is specially adapted to the requirements in Monaco. For example, it has a user interface custom-made for the customer. Three VMC-1 ‚Eagle' video management centers complement the management software. All functions that can be expected of a modern video management center are united and clearly distributed on the three components of the VMC-1 Eagle (joystick, jog-shuttle and keyboard with monitor). The jog-shuttle is used to find certain snapshots in a video sequence while the joystick allows easy steering of the movable cameras. The VMC-1 has the ability to display both recorded video material and live images on the integrated monitor and also, for example, to show maps or search functions.

Tested and Expanded

Since the video system has now proved itself in daily use for five years, the responsible persons decided to add an ultramodern number plate recognition system. A total of 15 NPR DI-Detectors were therefore installed, primarily on the streets leading into and out of state territory. Four cameras are connected to each system: two NPR cameras, one for each direction, and two overview cameras. The NPR systems were professionally installed by specially trained technicians and enable identification of automobile number plates from standing and moving vehicles on 30 traffic lanes within the Principality of Monaco. If problems arise, the persons in charge can use the interlinked cameras to follow the path of the vehicle involved. In addition, they receive an alert if the vehicle in question has been stolen or is suspicious, which greatly facilitates any search.

The Sûreté Publique de Monaco have an extremely future-proof system to work with which, because of its modularity and scalability, can be expanded and adjusted easily at any time. Frank Oetjen, Project Sales Manager at Dallmeier, summarizes: „The customer's main requirement in selecting a system was to have a highly available, modular, network-based system, which uses the existing infrastructure and also has excellent image quality, but which has been prepared at the same time for future expansion. Based on the Semsy technology, we have created a solution that has been adapted in the best possible way to the customer's requirements and that has already been expanded several times."

▶ CONTACT

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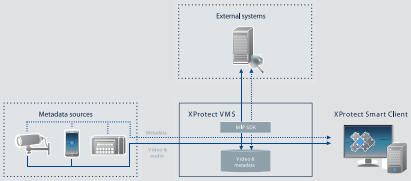
Milestone Takes Open Platform Technology to the Next Level



New development capabilities in the Milestone XProtect 2014 product suite enable the next generation of integration, extended configuration and a framework for metadata.

Milestone Systems has released the Milestone Integration Platform Software Development Kit 2014 (MIP SDK 2014) for its updated suite of XProtect VMS products. The MIP SDK 2014 provides flexible access to video, events, metadata (data connected to video), configuration data and optimized functions for access control integration. This offers an even wider array of integration possibilities for the Milestone partner ecosystem.

A new integration framework in the MIP SDK 2014 enables fast and easy integration of access control systems with XProtect VMS through XProtect Access Control Module 2014. The framework allows access control systems to use video functions in the XProtect Smart Client interface, simplifying the user experience.

New Metadata framework

Milestone introduces an ONVIF compliant framework for handling and storing video-related metadata for its XProtect advanced VMS product range that includes XProtect Corporate 2014 and XProtect Expert 2014. Metadata is any data adding an information layer to video and audio streams.

Examples of new possibilities created by the use of metadata are:

- Automatic presentation of bounding boxes around objects identified by camera-embedded video analytics.
- GPS location information can be included when using Video Push in Milestone Mobile, which has the option to include location metadata in Video Push.

Camera manufacturers and Milestone Solution Partners can use the metadata framework to tie metadata from video analytics (or any other metadata source) with specific video sequences, as long as the metadata is stored in ONVIF format. The MIP SDK 2014 also introduces the ability to make changes to configuration settings in the XProtect VMS. This enables Milestone Solution Partners, video service providers and end users to remotely control settings in the XProtect VMS from any third-party solution.

IFSEC Stand E800 **www.milestonesys.com**

BRANCH FOCUS PORTS

Safe In The Harbor

IP Video at a Mediterranean Leisure Port

Originally built in 1974 to the southwest of Palma bay, Port Adriano on the Spanish island of Majorca was extended and its shopping area refurbished by the prestigious French designer Philippe Starck. A new video system was needed in order to protect all of the port and customer's assets.

Ocíbar, a company specializing in building and managing sailing-sports amenities, took over the management of Port Adriano in 1992. Since then it has made great efforts to transform the marina by implementing a modern extension project that included building an external dyke, parallel to the previous one. The management company for this marina, fully aware of its responsibilities, also proposed upgrading the physical security elements of the marina in order to protect facilities, personnel, client's vessels and their crews. Aiming to turn the leisure port into one of the best equipped and distinctive on the Mediterranean, they decided to entrust the extension project to arguably the most famous designer in the world, Philippe Stark. Passionate about sailing and the Mediterranean, Stark embraced the challenge and sought to transfer all the elements of a boat to the marina. The new port puts daily life and visitors to the marina first, all in harmony with the island and its traditions.

The aesthetic and functional concept proposed by Starck translates into greater convenience for users: a no-traffic area between moorings and shops, hidden cabling freeing up space on the piers, terraces providing sun and shade, data services, Wi-Fi and fiber optics. In this , the analog video surveillance system has been replaced by an IP video system based on Axis network video products, including outdoor models with HD resolution and thermal cameras.

Thanks to this project, backed by investments of over 90 million euros, Port Adriano leads the way in Mediterranean leisure ports. It provides a service area for moorings of 25,000m², berths for yachts of up to 80/100 meters long and 800 parking spaces. The marina boasts a shopping area covering 4,000m² featuring prestigious world-class nautical, lifestyle and fashion brands and services, as well as select international cuisine. Services including a gym, diving school and a 10,000m² dry dock are also provided, incorporating high quality security aspects.

All-weather domes with a lofty view over the harbor

Fiber to the Fore

The Estel Ingeniería y Obras company, in partnership with Axis Communications, was awarded the contract to carry out specific installations for the project. Estel deployed a fiber optics infrastructure which, apart from serving as a network for marina services, extends to the moorings. This communications infrastructure is also available to marina clients, providing them with high-speed Internet, television and telephone connections on their vessels.

The new full IP video system at Port Adriano comprises thirty-eight P3344-VE and four PTZ Q6032-E network dome cameras and three Q1910-E thermal network cameras. All these devices are outdoor ready and IP66-rated, which guarantees optimal resistance in the demanding atmospheric and meteorological conditions faced in any port area. The P3344-VE, apart from being vandal protected, provides HD resolution images of all the main areas of the port, delivering significant improvements in terms of the quality of the images obtained in comparison with previous analog cameras.

Hot Nights

Port Adriano is one of the first ports on the Mediterranean to use thermal IP cameras to control the arrival and departure of boats. Strategic placement of these devices ensures that, even on the darkest nights, in dense fog or on stormy days, it is possible to detect any movement of vessels in the area of influence of the marina. Another of the innovative elements of the security system at Port Adriano is that access to the new underground car park uses a registration plate recognition system, controlling vehicles coming in and going out of the car park. This system automates tasks such as automatically opening the barrier for vehicles with a registration plate number already stored in the database because the owner is either a client of the marina or regular supplier of one of the shops there. This leisure port is now equipped with technology that complies with the highest security standards.

▶ CONTACT

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www.axis.com

Color Images Down To 0.002 lux

Hikvision is setting new standards for ultra low-light surveillance with the launch of the DS-2CD6026FHWD DarkFighter network camera. This cutting-edge camera utilizes Hikvision's industry-leading, ultra low-light MP lens and is designed specifically to capture sharp color and monochrome images in extreme, low-light conditions. The result is crystal-clear color images down to 0.002 Lux and B/W to 0.0002 Lux. The DarkFighter's ultra low-light performance delivers full color images day and night that would defeat conventional monochrome IP cameras and competing low-light cameras. As well as opening up new opportunities for 24-hour CCTV surveillance, it is the ideal replacement for conventional network cameras. The DarkFighter camera features a two-megapixel, 1/2 inch progressive scan CMOS image sensor. Together with a 120dB WDR (wide dynamic range) and Hikvision's 3D DNR (Digital Noise Reduction) technology, the new camera is able to stream video in full 1,080p HD at 60fps, which results in latency free clear images day and night. A defog feature is also incorporated to noticeably improve image clarity in poor weather conditions, such as rain or fog.

IFSEC · Stand E750 **www.hikvision.com**

Standard Definition and HD Mobile Storage Solutions

Dahua Technology, headquartered in Hangzhou, China recently introduced two mobile storage devices for its mobile surveillance solution, one for standard definition applications, the other for high definition. An information bar was added at the bottom of the GUI to show time, device temperature, driving speed, plate number and real-time connection status of Wi-Fi, 3G, GPS and the Dahua DSS professional CMS mobile surveillance platform. The 1DIN high solution has also been re-categorized: mobile surveillance speed setup, i.e. 3G, Wi-Fi, has now been simplified. System stability is greatly improved with a built-in power supply and UPS. The new series supports 4G connectivity, providing faster and more stable data transmission in higher image quality.

IFSEC · Stand E1300 **www.dahuasecurity.com**

3-in-1 Cellular Remote I/O

The Moxa Iopac 5540 metal-encased all-in-one RTU controller combines a cellular modem, an I/O controller and a data logger into a compact device providing complete communication redundancy with built-in GPRS/HSPA. It supports standalone data logging in storage expandable up to 32GB, and comes with the company's Active OPC Server software. Its high sampling rates, a prerecorded event buffer, millisecond scale timestamps and either C/C++ or IEC 61131-3 programming give engineers an efficient platform for monitoring and analytical processes like identifying anomalous intrusions or device failures. The controller features railway-grade ESD and surge protection, operating temperatures from –40 to 75°C and is UL/cUL Class 1 Division 2 and ATEX Zone 2 certified. **www.moxa.com**

Color Images in Near Total Darkness

Arecont Vision has unveiled its Stellar (Spatio TEmporal Low Light ARchitecture) technology that dramatically increases low light performance to capture color images in near total darkness. They will be demonstrating the results in a special darkroom located at IFSEC stand E400 so visitors can get a first-hand look at the low light performance this technology delivers. It will initially be available in the company's Megadome 2 all-in-one megapixel cameras. Features include extreme light sensitivity, spatio temporal noise reduction, adaptive contrast enhancement and motion blur reduction, as well as a low bit rate to conserve valuable bandwidth and storage space.

IFSEC · Stand E400 www.arecontvision.com

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SECURITY FOR PORTS

Navigate Safely Through the Night

Thermal Imaging Camera Increases Security and Safety at Fukuoka Marina

Mr. Seiya Takeda, owner of Marine Club Navy, stands guarding Fukuoka Marina

Fukuoka marina is located on the northern coast of Kyushu, Japan. Located at Fukuoka marina, the Marine Club Navy uses FLIR Systems' thermal imaging cameras to increase safety on the waters and in the marina. Thermal imaging helps to protect valuable assets and helps to navigate in open water as well.

Only 20 minutes from the city center and about 15 minutes from one of the best fishing points in the area, Fukuoka marina is popular among local fishermen. The Marine Club Navy provides tailor-made marine services including the sale and rental of pleasure boats, private cruises and the chartering of fishing boats. In Fukuoka marina, where the Marine Club Navy situated, a lot of private boats are moored.

Protecting Valuable Assets in the Marina

Providing secure facilities, and keeping marinas a safe environment, is a basic responsibility of marina management. Protection can be achieved through a combination of security policies, controlled access, observation and user awareness. Although it has not reached epidemic proportions yet, crime is a growing threat to recreational boating, also in Fukuoka. Modern boats are equipped with state-of- the-art electronic systems for navigation and other items. They often also have a state-of-the-art video and sound system, jet-skis and a lot of other expensive equipment that any robber would love to steal on board.

Being located a fair distance from the city center has however some disadvantages when it comes to security. As there are no shops and houses, the marina is quite dark at night. The light provided by the few shop signs and scattered street lamps are insufficient to adequately illuminate the whole area.

Continuously, fully lighting up a marina during night-time is however not always the best solution. Installing supplementary lighting is often expensive. Powering and maintaining it can be very costly. In some sensitive locations it is also considered too intrusive. Furthermore, lighting essentially lays out a route of attack for intruders, creating shadows in which they can hide and gain access undetected.

Thermal Imaging Sees Clearly at Night

In order to detect unwelcome intruders at night, the Marine Club Navy decided to purchase a FLIR Systems' handheld thermal night vision camera: FLIR MS-324. The FLIR MS-324 is a thermal imaging that does not need any light whatsoever to create a crisp image in the darkest of night. In contrast with other technologies, such as light amplification, thermal imaging needs no light whatsoever to produce an image on which the smallest of details can be seen. Thermal imaging provides full visibility irrespective of the prevailing light level and weather conditions. It can see in total darkness, through light fog, in the far distance, through smoke and is able to detect anyone hiding in the shadows. It is an ex-

cellent tool for security and surveillance applications in marinas.

The FLIR MS-324 is a compact thermal imaging camera that produces crisp thermal images of 320 x 240 pixels. Compact and lightweight, only 340 grams, it is easy to carry. The camera is controlled by only four buttons located on top of the unit. It is equipped with a 2x digital zoom which allows having a closer look at the situation. The camera also has a built-in light which can be used when the camera is not in operation. It eliminates the need to carry an extra flashlight around.

Exceeding the Expectations

"I first saw a FLIR Systems thermal imaging camera when I visited one of the biggest annual boat shows in Japan. Although I was a bit skeptical in the beginning I decided to purchase one. Today the FLIR Systems thermal imaging camera has proven its worth. It helps us to secure the marina day and night. With the help of the FLIR MS-324 we can easily see what is going on in the marine. If we spot suspicious activity we send someone out to check the situation.", explains Mr. Takeda, owner of Marine Club Navy.

"It also is useful for our own safety. Although we are familiar with the area, walking around the marina in total darkness is not always easy.

From a long distance, thermal imaging cameras produce crisp and clear images even in the darkest of nights

When we are on night patrol we can point the camera in the direction of suspicious noises to detect and identify intruders."

"Operating the FLIR MS-324 is a very easy to use tool so all staff can use it effectively. No operator training is required to handle this versatile".

Increasing Safety at Sea

The FLIR MS-324 not only improves the security in the marina. It helps to increase safety at sea as well. "The Marine Club Navy organizes night cruise as well. Especially during the summer months when a lot of firework festivals are being held. Night cruising poses more risk than day cruising. The FLIR MS-324 can help our captain to see other vessels, buoys and other objects that can damage his vessel severely. If ever we should have a man- overboard situation the FLIR MS-324 will help us to find the victim in the shortest possible time so that we can get him out of the water before hypothermia sets in."

Thermal Image Useful Both Day and Night

Thermal imaging cameras are not only useful during the night. They can be used during the day as well. They can detect people hiding in shadows and they are not blinded by glare from the sun like CCTV cameras. They can be used day and night in practically all weather conditions.

"With the FLIR MS-324 we can protect our customers' assets and ensure the safety of our staff during patrols. At the same time we can make the sea a safer place for our customers that are taking a night cruise. Thermal imaging has proven its worth for various applications. Day and night.", concludes Mr. Takeda.

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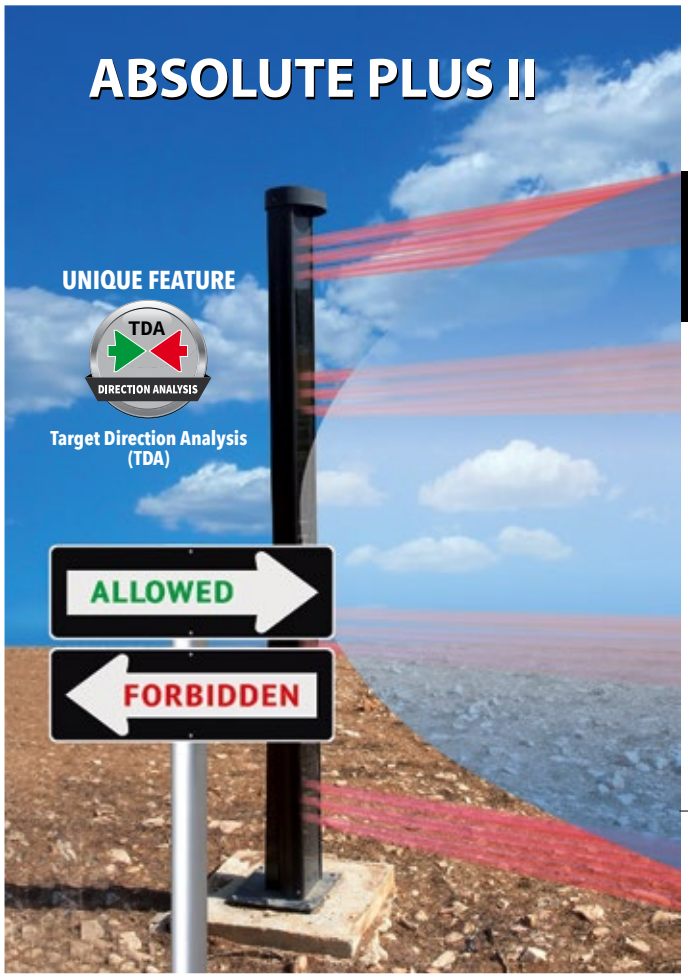

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VIDEO SURVEILLANCE

The Ins and Outs of Parking

SeeTec Solution Protects Car Parks in Paris

Public and private parking lots under 24/7 surveillance

The French metropolis of Paris is heavily frequented by tourists, commuters from the surrounding area and business travelers from all over the world, 365 days a year. This inevitably leads to an overload of public transport and urban roads, and also puts a heavy strain on the parking situation. For almost 35 years, one of the largest providers of parking places in Paris, SAEMES – the Société Anonyme d'Economie Mixte d'Exploitation du Stationnement – has been relieving the parking situation in the French capital's city centre significantly.

More than four million customers use 79 car parks annually; 22 of these are public and 57 are for residents, as well as six park and ride spaces and a parking garage for buses. With an ever increasing number of vehicles, SAEMES is constantly occupied with the optimization of their services. Their focus lies on the avoidance of queues in front of the gates as well as on guaranteeing a high safety standard in the car parks. With the increasing number of parking spaces, the demands on the staff had increased as well and soon reached a limit.

The management board decided to use a video system back in 2009 to assist their employees and to improve the situation. It had to be as intuitive and as easy to operate as possible in order to keep the training time short and ensure subsequent smooth operation by the typically non-specialist staff. Additionally, the administration of the image data should be possible from a central control station.

After numerous installer companies had presented their solutions, SAEMES decided in favor of SeeTec software. A crucial aspect for the decision in favor of the French company was the reputation of the German software house that has accumulated a great wealth of practical experience in the field of video and security. The IP video management software with its clearly arranged user interface that enables intuitive handling was a convincing factor.

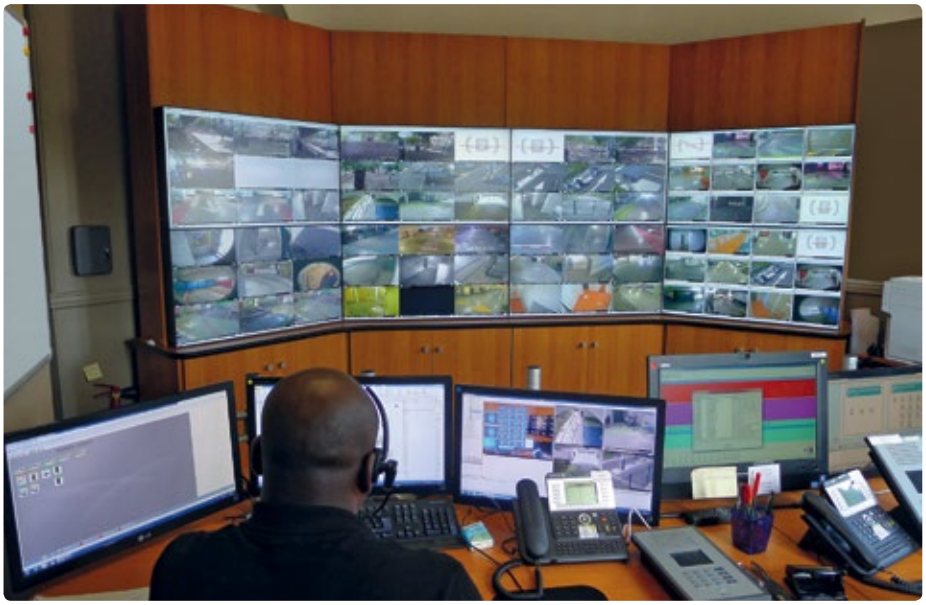
Carte Blanche

Since no video solution had been in use before, the company's French office was given free reign with regard to system design. Only an entirely IP-based video solution was possible for the implementation of the centralized administration solution. The core of the application consists of the company's Multi Solution-Platform, which implements the client's demands down to the smallest detail. The fully scalable solution is able to integrate additional cameras, I/O modules, features or applications by third parties at any time.

To manage all the end customer's locations in a centralized system, only a distributed installation made sense. An administration server was installed in the headquarter's control center and an administrator, who is responsible for the configuration and assigns user rights, views and centrally operates all systems and connects, if necessary, to individual locations. In every car park between 20 and 40 cameras are in use and their images are stored on a server on site and can be viewed by the security staff.

Vis-À-Vis

The team uses a large eyevis screen system at the control center to have a clear view of all locations, and is able to keep a constant eye on events. The display agent functionality enables the 7sqm monitor wall to be controlled by a conventional SeeTec client. That way several alarms



Several alarms can be shown simultaneously on the monitor wall

can be shown simultaneously on the twelve 46" displays and can be processed from the operator station. The clear and detailed display provides a clear advantage over the usual PC screens: it enables a more precise analysis of the situation and also early intervention in case of incidents.

In addition to the pure video management functionality of the system, SAEMES decided to apply the SeeTec License Plate Recognition at two test locations and to link it with a barrier management system by Eryma. When a vehicle enters the car park, the SeeTec LPR module scans the license plate and compares it with the central license plate data base. If the driver provides additional authorization by using a special ID card, the gate opens automatically.

Vandals Adieu

Romain Lyon, project manager at SAEMES, draws the following conclusion after almost five years of having the company's software in service: „We began with an earlier software version and have constantly grown with each version. Of course we keep improving our activities with the company to respond to our customer's needs and are truly satisfied with this partnership". Numerous cases of vandalism have already been solved with the help of the video management system using recorded images that assisted the police in their investigative work. Loitering of criminal gangs of youths all around the parking lots was reduced to the greatest extent possible. For the future, an expansion of the video surveillance system is planned and further locations are to be equipped with the SeeTec software to optimize the situation of parking spaces in the city even further.

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VIDEO SURVEILLANCE

Advanced Protection for Old Coal Mine

The Monumental Guido Coal Mine Provides Its Employees and Tourists with Best Security in Mine

The Monumental Guido Coal Mine, which was founded in 1855, is located in the City of Zabrze in Silesia Province in southern Poland. The name of Coal Mine – Guido – originates from the name of big industrialist, millionaire – Prince Guido Henkel von Donnersmarck. For more than a hundred years transformation, the Guido Coal Mine, comprised with Coal Mining Museum and modern areas "K8 zone" for leisure, business and culture, now is a place for young and old people to explore the region's mining heritage and organize cultural and art events.

The K8 zone, located 320 meters below ground in the Guido Coal Mine, consists of four huge chambers for conference, concerts, theatrical performances, culture faira and business meeting. More uniquely, the deepest place in K8 Zone is a pub, which is also considered as one of the most iconic pubs in Silesia. The unique underground climate guarantees raw and mine decor with brick ceiling. The next attraction is a good beer and a lot of hot snacks. The Coal Mine Guido is a worth place to visit. With the modern zone entering official operation in 2013, visitors to the Guido Coal Mine increased significantly.

The Coal Mine Guido decided to implement a modern network surveillance system, providing its employees and tourist with better and advanced protection shield. The surveillance system had to be able to manage and control the number of people below 250 under low light conditions in the mine. The selection of cameras was the biggest challenge in this project since cameras must be able to cope with difficult lighting conditions, to deliver high quality image, and to resist from dustiness in the underground tunnels.

High Quality Network Cameras Secure Peace and Safety

With serious evaluation, engineers from Guido Mine and specialists from the local professional system integrator KAZ Company decided to choose camera Vivotek IP8151. Vivotek IP8151, a 1.3-Megapixel professional fixed network camera, represents the next-generation in video quality in network cameras. Featuring the utmost in picture clarity through utilization of advanced sensor technology, the camera is able to capture exceptional details during daytime, as well as to offer unparalleled visibility under low-light conditions through its Supreme Night Visibility feature. In addition, designed with WDR Enhancement, image details under extremely bright and dark environments can be identified clearly. Moreover, Vivotek IP8151 is equipped with microphone and two-way audio track. It enables the communication and instruction easy and direct, which is a very useful function whenever the occurrence of events. Vivotek's IP8151 has fulfilled the clients' expectations.

Quality and Performance Meet All Expectations

Krzysztof Jaromin, Technical Director of KAZ Company indicated, "Our company works in the market for more than a dozen years. The experience and wide service assortment enable us providing big flexibility and adjustment to achieve customers' expectations. Therefore, we have involved our designers and team in the realization of the contract. The choice of Vivotek camera was not accidental. Workers had a good opinion before. Those cameras were a success on the concert of Johnny Freelance Experience Group."

Tymoteusz Rduch from IT department of Guido Mine further commented: "The monitoring system designed with Vivotek's network cameras IP8151 is very good and can be managed without any problems under difficult conditions in the coal mine. Cameras in external housings can perfectly manage with dustiness and air humidity. The museum must constantly monitor a number of people moving to the mine and moving out from mine. With the use of camera the mine can register people who are moving there. In the K8 Zone, where allows free movement between chambers, the operator can supervise people who are in the middle of the mine. Tourists can't smoke in the mine and the operator can check this by camera. When somebody lost way, the operator can help him. The system monitoring is very helpful to workers, too."

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Better Security, Better World

VIDEO SURVEILLANCE

Beating the Bully

Hikvision Provides Security and Confidence Tools for South African Campus

It seems there isn't a week that goes by when some type of horrific school-related incident is in the news. This phenomena is not linked to any country, but the unfortunate script usually includes someone – often a student – arriving on campus intent on doing harm to fellow classmates and the faculty. While this represents the absolute worst case scenario, there is also a less dramatic variety that has recently received a great deal of attention: bullying.

A great deal of effort has been put into the elimination of student bullying. Much time has been spent on the best possible methods to reduce this phenomena, and one tool that is gaining popularity is the use of professional CCTV solutions. In South Africa's Western Cape Province lies the town of Strand. Known for its beautiful beaches, the town also has excellent academic facilities, with one of these being Strand High School. Fortunately, Strand High School offers a peaceful learning environment to provide an excellent Afrikaans school education for its student body. Recently however, as a proactive measure, school administrators drew up plans for a security solution that would firstly make sure that school rules and regulations are adhered to and, secondly, decrease occurrences of bullying. To achieve this it would be necessary to offer clear video surveillance of school entrances and exits, monitor any person entering onto, or leaving, school property and ensure video surveillance over the athletic fields and general school grounds.

Effectiveness on a Budget

In essence, administrators wanted a CCTV solution that would provide surveillance over access control and the school's general grounds. To turn this idea into a reality, Hikvision's Official South African Distributor, Sensor, and South African security installer combined to design, and install, a solution that addresses these security goals. Ben Bekker, Director of the installers Cam Live Vision, noted, „It became clear in the initial stages that the specifications of the client, combined with school budget concerns, required that very specific cameras were used. We had to be very intelligent about designing a solution that addressed these often disparate goals."

Ben Bekker opted for a PTZ model to cover surrounding school grounds (including playing fields, outdoor cafeteria, and parking garage), as well providing optimal viewing of school entrances and exits. Specifically, the Smart PTZ DS-2DF7284 series 2MP network IR PTZ dome camera was chosen. With units placed on the front and back of the school building, PTZ functionality offers a full 360° of coverage. However, this is only one piece of the puzzle. Another was a 20x optical zoom that provides the coverage needed for all the school, in its entirety. „It's the 2MP resolution that allows the School Principal and Vice Principal to accurately identify an individual, whether they are at the main front entrance or behind the rugby field," explained Mr. Bekker. „This model's IR capability and 150m IR range are definitely of use to give us security during the night, even if students are not present," Mr. Bekker added.

Challenging Lighting Conditions

The company's box cameras were chosen for indoor locations and for specific outdoor areas. The DS-2CD864F-E(W) 1.3MP network box camera was combined with a TV0309D-MPIR lens to view indoor school hallways, indoor cafeteria, and outdoor courtyard space. As this courtyard is largely covered, weatherproofing was not a camera issue. As with the previous speed dome, great megapixel resolution was also a must. However with the addition of the IR lens, spaces that experience difficult lighting are properly addressed. This is due to the lens' vari-focal IR function and auto iris, providing clear images in a quickly-changing lighting environment. „One example is our school's interior hallways," said Mr. Bekker. „These hallway doors open directly to the outside so when a door is suddenly opened, normally dark areas are immediately saturated

◀ The DS-2CD864F-E(W) 1.3MP network box camera for the largely covered courtyard

© Luis Louro - Fotolia.com

with bright sunlight, requiring this lens and IR functionality when returning to the dark."

Peak Times

Since Strand High School's Principal and Vice-Principal use their PCs to conveniently monitor this IP solution, the Hikvision's iVMS Software was combined with the DS-9632NI-ST embedded NVR. As this device supports 32 IP camera channels, it allows these administrators access to whichever camera is currently needed. This comes in particularly handy during peak hours, such as the morning when the students arrive and the afternoon when they leave for the day. After only one week using this solution, instances of bullying decreased. Mr. Bekker noted this was confirmed by both students and Strand's Principal. Furthermore, teachers can now review high-quality video to easily identify students who break school rules, such as leaving school grounds during breaks. Importantly, everyone entering and exiting school premises is closely monitored, bringing Strand High School both security and a sense of confidence during these changing modern times.

IFSEC · Stand E750

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IFSEC stand E1450

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On A Mission

Samsung Looking to Change the Face of IP

Visitors to this year's IFSEC International event will find Samsung Techwin exhibiting on Stand G800 at the Excel in London. The company will demonstrate the features and functions incorporated within its latest generation of open platform Wisenet III IP video surveillance cameras and plug-and-play network recording devices. These should enable an entirely new way of working with IP.

"All the 1.3MP, 2MP and 3MP models within the family of Wisenet III network cameras and domes are extremely easy to install and set up, as are all our NVRs," said Joanne Herman, Marketing Manager for the Security Solutions division of Samsung Techwin Europe. "However, it is the open platform capabilities of the DSP chipset that will have the most significant impact on the demand for IP network based video surveillance solutions, and will create considerable sales growth opportunities for our business partners, installers and system integrators."

The open platform nature of the DSP chipset cameras provides users with complete freedom to choose their personal combination of video analytics and video management software (VMS) which best matches their individual requirements.

Vertical Approach

The layout of the company's stand has been designed to make it easy for visitors to learn about which of the extensive range of IP network cameras, domes and recorders is the ideal match for specific applications and environments, as well as how they can fully support a wide range of video analytics and VMS options. Visitors to the stand will see that it has been divided into various vertical market zones, such as retail, airports, banking and transportation with each zone enabling visitors to identify the best combination of equipment for individual projects. There will also be a 'Zero Configuration' zone which will provide an opportunity to get hands on with the products and discover how easy they are to set up.

◀ A 3MP network box camera with P-iris technology

A dome version of the 3MP camera with IR illumination ▶

◀ For day/night weatherproof applications this bullet camera is also fitted with IR lighting

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VIDEO SURVEILLANCE

Chinese Opportunity

Uniview Attends IFSEC with Product Line-Up

Uniview, a large Chinese manufacturer of video surveillance equipment, is now expanding into overseas markets. The company is coming to London with its full product line and will demonstrate box cameras, bullet cameras, fixed dome, PTZ dome cameras and its NVR products. Certainly also generating interest among visitors will be its 4K camera, 60 fps camera and starlight cameras.

Uniview Ultra Low Light IP Box Camera

The true performance of the company's front-end and back-end devices will be demonstrated live on their stand D300 at IFSEC in June. Co-operation opportunities for representation and distribution are being actively sought for European and other global markets and OEM/ODM is available for potential partners.

Design Award

The IPC642E-X22IRL model is a full HD all-weather PTZ dome camera which has been recognized by the 2013 iF Design Award committee for its appearance, optical design, network capability and reliability. It delivers triple configurable streams up to real-time 1080P. With its IP67-rated housing and an operating temperature range from -40°C to +70°C, the camera offers reliable outdoor video surveillance. It integrates third-generation IR LEDs and a built-in IR laser with up to 300m IR range. The lens glass is dust and water repellent and coated with a hydrophobic film to ensure crystal clear images in bad weather, which innovatively eliminates the need for manual cleaning work. The company's NAA (Network Auto-Adaptability) technology ensures image quality and video fluency even in a network with high packet loss.

Ultra Low Light Box Camera

At this year's IFSEC exhibition, Uniview will also show their IPC542E-DH-IN ultra low light IP box camera. It has an excellent imaging ability under starlight conditions and also great WDR ability. This enables the camera to produce crystal clear images with true color in complicated light conditions, in extremely low light conditions or even under 0.0001 lux. This performance helped it to win a Secutech Excellence Award in 2014. The tests evaluated cameras in extreme low light conditions, WDR conditions and fast moving object shooting as well as in their regular image definition and color reproduction.

Uniview started a technology research project especially for IP camera components containing 69 large projects and 206 small projects to improve the camera's performance. Those projects have harvested advanced technology in electromechanicics, ISP imaging, industrial applications, manufacturing and testing.

NVR With Integrated Controller

The NVR516-128 is the star in the range of network video recorders from Uniview. It can connect with up to 128-ch network cameras and simultaneously decode 48-ch 30fps@1080p. Integrated with a video wall controller and up to twelve HDMI ports (optional and flexible), this unit could be a one-stop solution for small and medium video surveillance systems. 16 SATA interfaces and 2 optional disk enclosures via mini SAS connectors makes the maximum storage capacity of the NVR up to 96TB with a 4TB hard disk, achieving high scalability. The company has applied its 10 years of experience in the research and development of reliable IP storage, RAID5 support, together with the contents of a series of patents, and built the NVR to ensure data security.

Uniview Star NVR

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Clear Track

EN54-certified System For New French Cycling Complex

Along with soccer and rugby football, cycling is one of the most popular sports in France. This accounts for the creation in Saint-Quentin-en-Yvelines (south west of Paris) of a magnificent new cycling complex. Two years in construction at a cost of some 74 million euros, the new centre was officially opened on January 30th, 2014. The heart of the complex is formed by the Vélodrome National – a 4,000-square-meter multi-function hall with a cycle track. In addition to major national and international sporting events, the 4,800-seater hall is destined to serve also as a venue for trade fairs, conventions and concerts.

Combined System with EN54 certification

Naturally, the sound reinforcement system has to meet all requirements of these different functions. Further, as French legislation requires,– when voice alarm and sound reinforcement systems are combined, they must satisfy the criteria for EN54 certification. In view of these considerations, the choice of solution was almost a forgone conclusion. "Since Bosch, through its brands Electro-Voice, Bosch and Dynacord, is the only manufacturer in the world capable of offering voice alarm systems that include pro sound components with EN54 certification, the hall operators and Tech Audio's system integrators naturally opted for Bosch", explains Jean Marandet, Product & Service Manager with the French distributor, EVI Audio France.

Two in One

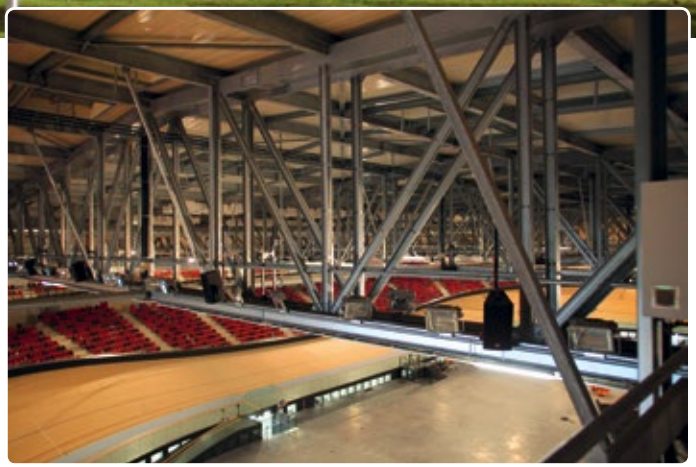
In the original invitation to tender, the Vélodrome's technicians requested two separate systems – and, alongside the evacuation system, specifically a line array to meet the pro sound needs of the stadium. This plan, however, was discarded after various discussions with acoustic engineers. "In view of the architecture of the building, a line array would have been a poor choice," agrees Marandet. "The best coverage can be obtained by multiple distributed loudspeakers." After extensive EASE (Enhanced Acoustic Simulator for Engineers) room simulations, Electro-Voice systems were chosen for this task, a further argument in their favor being Bosch's vast experience in the field of stadium installations – particularly of EN-certified combined pro sound and EVAC systems. The installation here was performed by Tech Audio, which is based in St Denis.

The bulk of the sound reinforcement system installed by the team led by Tech Audio's MD Joel Giazzi and his team comprises 32 horn-loaded EVF speaker systems from Electro-Voice's Innovation series. "This series is ideally suited to such installations," says Marandet, "and by choosing loudspeakers with the optimal dispersion characteristics, it is possible even in acoustically problematic rooms to achieve homogeneous coverage and minimize the impact of room reflections." 18 Electro-Voice loudspeakers in the Vélodrome National cover the grandstands and 14 Electro-Voice loudspeakers serve the interior.

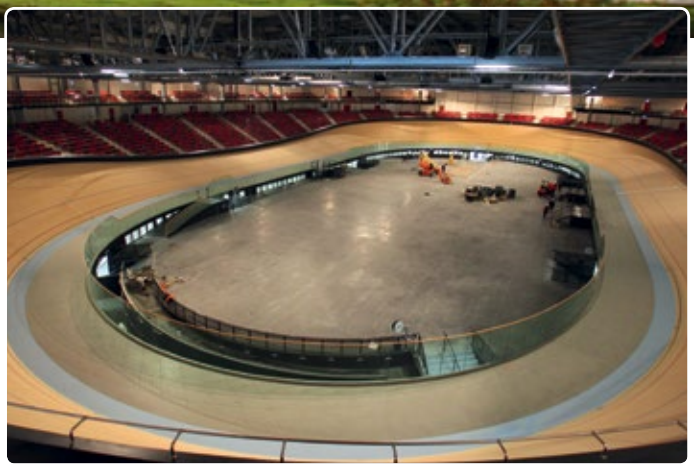
The loudspeakers mounted beneath the roof are powered by eight Electro-Voice Contractor Precision Series (CPS) amplifiers with RCM-810 remote modules. The system is controlled and supervised by a Dynacord Promatrix digital matrix manager and an Electro-Voice N8000 system controller. These are connected to one another by three units of Dynacord's Digital Control Series. Two Dynacord call stations equipped with a variety of modules and 16 modules, to supervise the loudspeaker lines, round off the installation.

The Heart of the System

The entire system is controlled and supervised using IRIS-Net (Intelligent Remote & Integrated Supervision) software, which, in the view of Marandet, forms the heart of the system: "Thanks to its graphic interface and its multiple, individual EVAC-specific functions; this software makes a decisive contribution to the simplicity and user-friendliness of the system. Each customer has his own requirements in the setting-



The loudspeakers mounted beneath the roof are powered by eight Electro-Voice CPS amplifiers with RCM-810 remote modules



The Vélodrome National is capable of seating 4,800 spectators

up, programming and display of an alarm and evacuation system by means of IRIS-Net thus, good technical support is of crucial importance."

For the sound distribution system serving the passageways, lounges, offices and various restaurants in the new sports complex, the team from Tech Audio relied on equipment from Bosch. In the offices alone, there are some 246 LC1-WM06E8 ceiling loudspeakers with a further 14 serving the lounge area. "These six-watt ceiling loudspeakers offer excellent reproduction of both music and the spoken word," says Marandet, "as well as being very easy to install." Tech Audio installed 56 LBC3018 Metal Cabinet Loudspeakers in the sanitary areas and a further ten in the circular galleries. These loudspeakers, which are suitable for both surface and recess mounting, are notable, Marandet affirms, for their robustness, unobtrusive styling and sound quality. The installation also included 70 LP1-UC20E Unidirectional Sound Projectors, also from Bosch: 50 for the galleries and 20 for the changing rooms. "Their speech and music reproduction are both excellent," explains Marandet, "whilst their tightly controlled dispersion makes them ideal for acoustically difficult environments." The LP1-UC20E's impact-resistant enclosure is made from self-extinguishing ABS (Acrylonitrile butadiene styrene) and meets both IP 65 water and dust protection standards. For the dissemination of digitally recorded announcements, a Bosch LBB 1965/00 Plena Message Manager is used. This versatile device can manage up to twelve different messages and twelve trigger inputs as well as being able to download messages in WAV format from a PC.

"The choice of loudspeakers to install in each case was determined by the height of the ceilings and the size of the rooms," explains Marandet. "We knew, however, based on our experience of other stadium installations, that we could guarantee outstanding audio quality and absolute reliability with these systems." Reliability, in fact, was a factor of crucial importance, as French legislation sets enormous store by it, stipulating, for example, that no more than 24 loudspeakers are to be powered by any single amplifier channel and that every room or gallery must have two redundant loudspeaker lines.

Everything Set for the Races

"The installation has surpassed the expectations of the customer," reports Marandet. "The speakers combine outstanding intelligibility when delivering announcements with all the sound pressure required for music reproduction – not just in the arena but throughout the entire complex." The President of the FFC, the French Cycling Association, David Lappartient, is also delighted with the overall result: "Association football has Clairefontaine, Rugby has Marcoussis; and now cycling has Saint-Quentin-en-Yvelines."

IFSEC · Stand F700

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VANDALISM

Listening Out For Grafitti

A New System Helps to Fight Graffiti Vandalism

Ian Moore,
Managing Director,
Elmdene International

Contrary to what some of its proponents may argue graffiti, that appears without permission, is far from a ‚victimless' crime or a harmless means of ‚self expression'. As for it being a piece of modern art, how would you like it across your home or building? Unless you have been sprayed by ‚Banksy' and can remove the section of wall to sell on then I think not!

Community Impact

The reality on the ground across Europe is that graffiti, whether it be simple tagging or more intricate pieces, tends to be seen very much as an outward sign of community instability and disorder. There is also the very real potential for house values to be impacted negatively as highlighted in the London School of Economics (LSE) report published in 2003 by Steve Gibbons, ‚Crime and Property Prices'. In fact it was found that graffiti tends to have a greater downward influence on property prices compared to less outwardly visible offences, such as burglary and violent crime, and can deter valuable inward investment, never mind the actual cost of having to remove the offending spray paint.

In terms of acting as a catalyst for increased criminal activity, a 2008 study by Kees Keizer and a team from the University of Groningen in the Netherlands, published in the journal Science, focused on ‚The Spreading of Disorder'. The authors wanted to discover if, as the so-called ‚broken windows' theory suggests, signs of disorderly and petty criminal behaviour like graffiti are liable to trigger more of this form of behaviour. In one widely reported field experiment an envelope containing money was left sticking out of a mailbox so people passing could clearly see the envelope and its contents. When the mailbox in question was covered in graffiti 25 per cent of passers-by stole the envelope, this contrasted with only 15 per cent from a graffiti-free version of the mailbox. The study's findings would therefore seem to suggest that when people observe others are violating social norms or legitimate rules they are more likely to violate other norms or rules themselves and therefore cause disorder to spread.

A Drain on Resources

The financial legacy of a single determined graffiti vandal, in terms of clean-up costs and remedial measures, was also brought into sharp relief when it was reported in the media that an individual in London was directly responsible for causing an estimated £1 million of damage. This bill, which inevitably diverted much needed resources from more productive uses, was a direct consequence of an identifiable ‚tag' being painted at numerous locations across London, including on the Tube, residential homes, schools, sheltered housing and even the Admiralty building in Whitehall.

Weighing up the Options

So what can be done to address soaring graffiti attacks in our European towns and cities and to prevent this criminal damage encouraging a wider spectrum of anti-social behaviour? Historically a number of approaches have been adopted in an attempt to tackle the problem, with mixed results. One method has simply been to deploy additional physical measures such as fencing to prevent offenders gaining access to certain hotspots which can certainly help to reduce attacks in a limited number of locations. The downside here is that this option is material, time, and labour intensive and is not always a practical, economically viable, or aesthetically pleasing answer as many of the locations where graffiti is found tend to be in public areas, or very large spaces.

In recent years, other solutions have also started to come to prominence. Anti-graffiti measures such as special coatings for walls are now being widely applied. However even this is not foolproof.

Although it helps to avoid re-painting or specialist removal, there is still the initial cost to consider and, crucially, the need for cleaning to take place following an incident. This obviously has additional financial implications given the prevalence of repeated strikes and the increased challenge for taggers to try and keep one step ahead of the cleaning crews.

A Proactive Approach

From the evidence above it is clear that there is a requirement for a proactive alternative, one which provides the opportunity to deliver an alert and warn-off offenders before they can leave their mark on a wall – the point when costs really start to rack-up. An economical and

The Merlin Graffiti Detector installed on a wall

The Merlin Graffiti Detector is able to identify the sound pattern of an aerosol paint can being activated

award-winning way of addressing this capability gap head-on is to implement advanced acoustic detection technology in the form of a graffiti detector to automatically identify the distinctive acoustic fingerprint of aerosol-propelled spray paint, typically in 5-8 seconds.

At Elmdene we are leading the way here with our Merlin Graffiti Detector (MGD). The reality is that a graffiti detector, such as Merlin, is similar in size and cost, and no more difficult to fit, than a standard PIR detector. This means that this type of device has the potential to be deployed well above head height in a wide range of graffiti-prone locations to stop walls and other building elements being defaced in the first place –a "prevention not cure". Added to this, the flexible device can be moved quickly from area to area as and when the need arises. Of course the effective range of the Merlin is directly dependent on its mounting height, for example, when fitted at a height of 4.5 metres a single unit has the potential to protect an area of 7.5 metres, delivering a field of coverage of 120 degrees beneath the sensor. Tamper protection is also provided in the Merlin's cover as standard.

Flexible Deployment

Another attractive characteristic of the Merlin Graffiti Detector is that it can be readily used in flexible configurations, via relay output connections, working with or independently of security equipment, whether it be sounding an alarm with a local siren in seconds, alerting an Alarm Receiving Centre (ARC) or being integrated as a remotely monitored CCTV solution. In practice this means that a graffiti detector may be operated overtly when tied-in with a siren, which can activate automatically on alarm, or in conjunction with an audio-challenge activated by Remote Video Response Centre (RVRC) operators. A covert approach is also possible where the graffiti detector alerts control room operators who can then take action, including calling the authorities, so the vandals can be arrested at the scene of their crime.

At a wider level, the sophisticated heuristics and algorithms used by the Merlin Graffiti Detector to distinguish specific sounds parallel very much what we have witnessed as a trend in the CCTV world with the roll-out of intelligent video content analysis. By focusing on acoustics, however, the graffiti detector opens up a whole new area of analytics which, by its nature, is not dependent on the prevailing lighting conditions for a successful activation. The key point here is that this makes a detector equally effective day or night.

Leading the Fight Back

So to conclude, with the development of advanced acoustic detection techniques, we are seeing a step-change in the way that the whole issue of graffiti is being approached across Europe for public spaces, housing developments, refurbishment projects, school buildings, multi-storey car parks, railway networks and commercial sites, from offices to factories.

There is now a real opportunity to fight back in the battle against graffiti and the associated criminal damage by deploying an active monitoring device that can recognise the distinctive sound pattern of spray paint in seconds before unsightly damage is done and to deter future attacks.

A demonstration video of Elmdene's award-wining Merlin MGD-S Graffiti Detector can be viewed on Elmdene's YouTube Channel at http://www.youtube.com/user/ElmdeneInternational.

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Day and Night 12-Megapixel Camera

The SurroundVideo 12-megapixel (MP) 360° panoramic camera with true Wide Dynamic Range will be launched by Arecont Vision at IFSEC 2014 (stand E400). Its compact unobtrusive design makes it ideal for numerous applications both indoors and outdoors. It provides clear images day and night using its dynamic range of up to 100dB at full resolution without lowering frame rates. By combining long and short exposures in the same field of view, WDR maximizes the detail in both bright and dark areas of a scene, giving up to 50dB improvement (300X) in dynamic range compared to conventional cameras. Four 3MP WDR image sensors each provide 2,048x1,536-pixel resolution for a total resolution of 8,192x1,536-pixels.

IFSEC · Stand E400 **www.arecontvision.com**

Starlight IP Video Surveillance

Two important technologies that will be showcased at IFSEC 2014 are 4K ultra HD and starlight technology from Bosch. Both technologies support in delivering high quality IP video images anytime, anywhere. The first product equipped with 4K ultra HD resolution will be DINION IP ultra 8,000MP that will be introduced during the IFSEC show. This will be the first product available making 4K ultra HD relevant for IP video surveillance applications. It delivers great detail for wide-angle applications while reducing bitrates, network strain and storage costs. All starlight cameras deliver enhanced light sensitivity, wide dynamic range, high resolution and the ability to capture fast moving objects, making them an ideal 24/7 camera for IP video surveillance.

IFSEC · Stand F700 **www.boschsecurity.com**

Chemical-free fire suppression using just nitrogen and water

The Hybrid Alternative

Victaulic Launches Vortex Hybrid Fire Suppression System

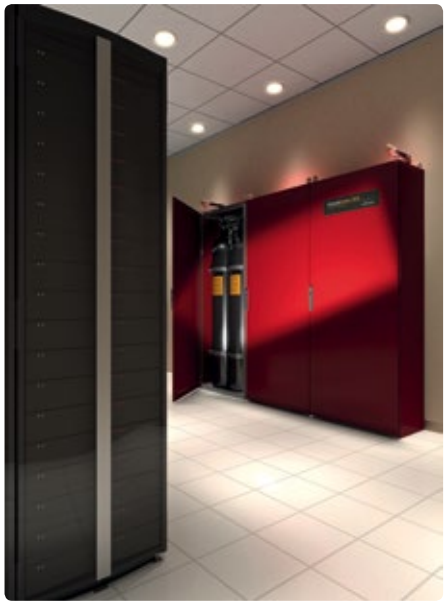
Wherever we humans build machinery and systems that generate heat, we build at the same time the foundation and potential for fires. These can be inconvenient at the least, viz. the American Air Force range radar facility fire that has delayed the launch of various space missions from Florida for at least three weeks. Fires are also expensive in most cases and even deadly in the worst scenario. So our solutions to tackle these fires have also developed along with the technology they're protecting, and come with their own inherent advantages and disadvantages. Now Victaulic, a global producer of mechanical pipe joining and fire protection systems founded in 1919, has introduced an FM-approved hybrid nitrogen and water fire suppression system, which rapidly extinguishes fires with no toxic chemicals and minimal disruption to ongoing operations.

Vortex utilizes water and nitrogen in a combined suspension to both cool the hazard area and remove the oxygen that sustains the fire using high velocity and low pressure. A swirling distribution fills the hazard space at 40 mph (64 km/h) and quickly extinguishes the fire with little to no water presence. "The Victaulic Vortex system provides an innovative, safe and effective fire protection solution for data centers, combustion turbines, large industrial process assembly lines and machinery spaces," says Bram Van Hoeyland, Business Developer Europe. "The unique hybrid technology releases water droplets of around 10 microns in size, eliminating any appreciable wetting of equipment or surrounding space. These ultra-fine water particles feature a heat-absorbing surface area 90 times greater than those generated by standard sprinklers."

The Vortex system extends the boundaries of existing technologies by providing protection and fire suppression with limited residual moisture, no toxic chemicals and full design flexibility. The system can be utilized in a sealed or open space with no requirement of room integrity and can be rapidly reset after discharge to minimize facility downtime. Additionally, the system seamlessly integrates with alarm and detection systems as well as facility security technology. Unlike other technologies that use toxic agents, the Vortex system can be activated immediately upon detection of a fire without having to wait for personnel to evacuate the area – something which is absolutely essential where halon is used.

Halon Alternative

Building owners and operators of information technology spaces, as well as power, manufacturing and other industrial operators, will all benefit from the system's flexible self-contained design, its minimal water presence and its economical recharge with nitrogen. The system can be immediately activated and there is no need for room integrity, i.e. it does not have to be air-tight. The technology used is 100 per cent sustainable and its homogeneous suspension discharge is identified by the US Environmental Protection Agency (EPA) as a suitable replace-



The Vortex 500 fire suppression system in an IT environment

The Vortex 1000 and 1500 fire suppression systems for industrial applications

ment for Halon 1301. "Victaulic Vortex is an FM Class 5580 hybrid (water and inert gas) fire extinguishing system," adds Van Hoeyland. "In approving the system, FM had to create a category specifically for this product because the system could not be classified within the approval agency's existing boundaries."

The Vortex 500 fire suppression system, housed in smart cabinets that fit in with typical IT racks, is designed specifically for information technology areas such as data rooms, server spaces and co-location centers. The Vortex 1000 and 1500 Fire Suppression Systems are designed for industrial applications, including the power generation and automotive industries as well as for oil and gas generation and processing sites.

Certified Applications

Installations covered by the FM Class 5580 certification include machinery space applications where oil pumps, oil tanks, fuel filters, generators, transformer vaults, gear boxes or drive shafts, lubrication skids or diesel engine-driven generators are installed. Also covered are other similar machinery using fuel and/or lubrication fluids with volatilities less than or equal to light diesel, special hazard machinery space applications such as internal combustion engines or other equipment using fuel and/or lubrication fluids with volatilities less than or equal to heptanes, and incidental use or storage of limited quantities of flammable liquids of not more than two 208L (55 gallon) drums. A further application would be the protection of combustion turbines in enclosures.

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Multi-Channel 2Gbps Backhaul Link

Silvernet has enhanced its range with the introduction of a 2Gbps backhaul link. The device is an IP network-based radio link operating in the 80GHz E-band spectrum and offers a rugged, high capacity outdoor radio link which is optimized for transmission up to 5 kilometers. It is typically used for wireless transmission of multiple channels of high volume video to a single location. It negates the need for costly fiber networks or leased lines and provides dedicated bandwidth which is not shared with others. "This is an ideal solution for aggregating a number of 5GHz radio links to a single point and then backhauling, for example, to a remotely located control room," said Chris Ballard, the company's Managing Director.

IFSEC · Stand H200 www.silvernet.com

HD IP WiFi Kit Brings CCTV Benefits

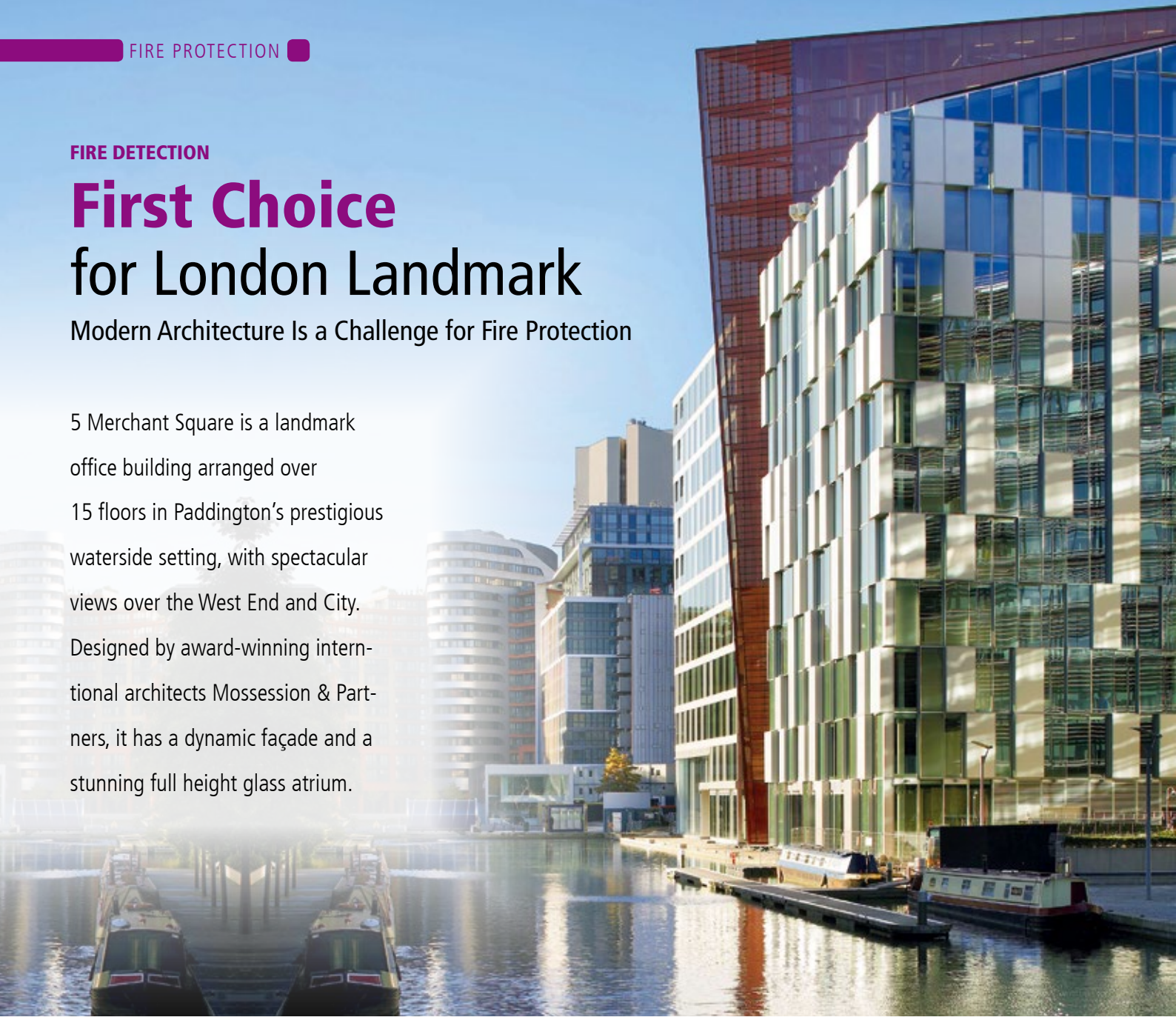
By launching its HD IP WiFi kit that includes an advanced WiFi camera and DS-7104NI-SL/W NVR for up to four network cameras together with their iVMS-4200/4500 video management software, Hikvision is determined to make CCTV surveillance easier and quicker for homes and businesses. With a simple two-step start-up, each kit enables users to monitor activity from anywhere at any time. Wire-free installation makes the HD IP WiFi kit ideal for homes, offices, stores and any small-to-medium sized enterprise. No networking knowledge or experience is required and the automatic WiFi connectivity means users simply need to 'Turn On' and 'Log In' to begin recording. Connections for all available cameras are established automatically for instant sharing of images via WiFi.

IFSEC · Stand E750 www.hikvision.com

FIRE DETECTION

First Choice for London Landmark

Modern Architecture Is a Challenge for Fire Protection



5 Merchant Square is a landmark office building arranged over 15 floors in Paddington's prestigious waterside setting, with spectacular views over the West End and City. Designed by award-winning international architects Mossession & Partners, it has a dynamic façade and a stunning full height glass atrium.

The Challenge

The unique shape of the atrium creates a flood of natural light throughout the building but this presented challenges when it came to fitting fire detection equipment, as Chris Onions, Project Manager at Leader Systems explains: "We were tasked to fit out the shell and core of the 15 floor building to give unparalleled fire detection across the whole site. There were a number of features in the building that meant a complete fire detection system – such as that offered by Apollo– was absolutely vital.

Beam Detectors for the Atrium

Chris continues, "The first challenge was the Atrium. As a full glass structure, with no access, it was impossible to fit any smoke or multi-sensor detectors at the top. However, because it was 100% glass, the only place a fire could start would be on the ground and so we chose to fit eight fire beam detectors." The open protocol, reflective smoke beam detectors incorporate a motorised head able to align itself during commissioning to continually correct against building movement and ensure maximum protection at all times.

Flame Detectors for the Loading Bay

"The next challenge came in the loading bay areas. As with any environment like this, the high ceilings allowing for lorry movement meant traditional detectors wouldn't give the level of protection required, so we used Apollo's Flame Detector," Chris said. Flame Detector is designed to protect enclosed indoor areas where open fires may occur and has a fast acting response to flames up to 25m away. Critically, it is able to discriminate between flames and other, non-threatening sources of radiation.

Leader Systems finished the initial installation in 2010 and then revisited to install detectors for a major retailer's head offices which occupied the first seven floors of the building. In total, Leader Systems installed more than 4,500 devices and expanded on the fire alarm panels installed during the shell and core fit out. Chris explains: "We were already familiar with the site and its challenges so this installation was more straightforward. We used Discovery devices again and fitted optical devices in the voids above all ceilings."

In any new build there are numerous demands on the devices and Leader Systems linked to Apollo's XP95 interfaces with a number of other safety measures. For example, when an alarm is raised, smoke curtains descend in designated locations, lifts return to the ground/first floor and escalators stop.

Chris concludes: "The open protocol approach combined with Apollo detectors allowed us to complete both installations effectively and provide the most suitable level of cover for this striking new building in the heart of London."

FIREX · Stand M200

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908 Devices	26
Abus Pfaffenhain	33
American Science & Eng	7
Ansell	Outside Back Cover
AOS Stahl	33
Apollo	6, 7
Arecont	21, 45
Automatic Systems	17, 33
Avigilon	30
Axis Communications	30, 33, 44
Barco	Inside Front Cover
Bernecker + Rainer	24
Bernstein	24
Bihl & Wiedemann	24
Bosch	27, 30, 34, 56, 59
Brickcom	30
CEM	34, 40
CPR	58
Dahua	31
Dallmeier	3, 31, 42
Dehn & Söhne	24
Denios	26, 36
Deutsche Bahn	8
Domeba	36
European Security Partners	32
Eyevis	49
Fire & Rescue	36
Flir	46
Gantner	34
Genetec	7, 31, 41
Geutebrück	6, 45
Giesecke & Devrient	13
Hikvision	45, 52, 61
Haverkamp	34
Hekatron	27
HID Global	34
Hima	24
Honeywell	35, 36
Idis	32
Infusion	30, 59
Institut- Neuscheler	35
IQinVision	6, 29
Keri	6, 7
Legic	36
Messe Essen	18
Milestone	6, 7, 11, 32, 37, 43
Minimax	26
Mobotix	32
Moxa	45
Nedap	20, 35, 53
No Climb	26
Novar	26
Omron	25
Panasonic	37
Pfannenberg	27
Pilz	25
Proteus	62
Salto	35, 38, Front Cover
Samsung	6, 23, 54
K.A. Schmersal	25
Securitas	37
Security	35
SeeTec	19, 48
Sick	25
Sicurit	47
Siemens	25, 28
SilverNet	61
SimonsVoss	5
Stöbich	28
Techem	28
UBM	7, 14
Univew	55
Victaulic	6, 28
Vivotek	12, 32, 50
Wavestore	6
Wibu	25
Zhejiang Dahua	45
Zhejiang Uniview	51
Zweibrüder	28

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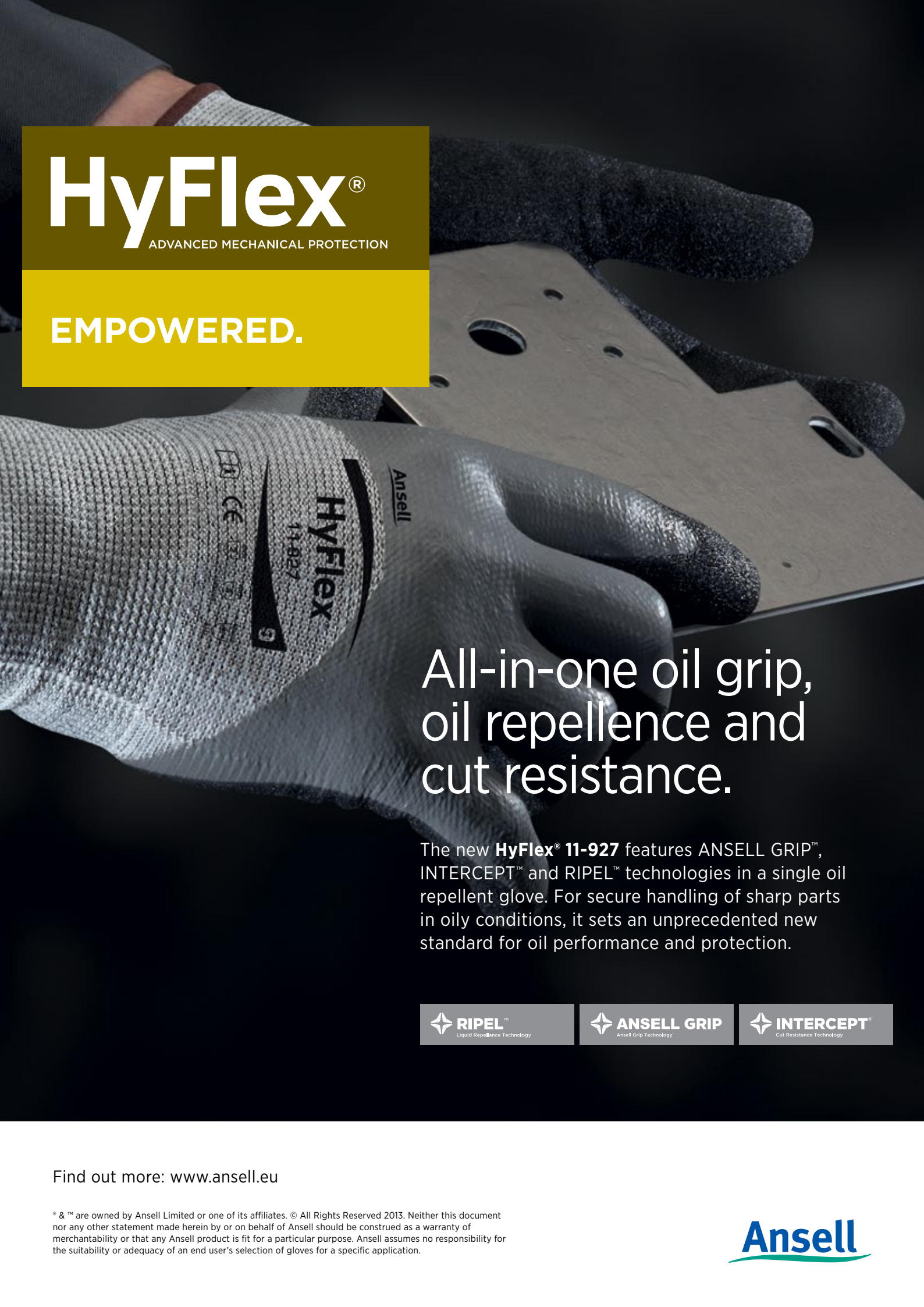

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