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GIT
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SECURITY

MAGAZINE FOR SAFETY AND SECURITY

GIT SECURITY AWARD Winners

Perimeter Protection

Security for Public Transportation

Fire Safety

Intersec 2014

NFC for Access Control

**COVER: SimonsVoss
Protection In A Flash –
And Smartphones Open Doors**

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Innovation First

We hope all of you had a good start this year. Our team wishes you all the best for 2014.

Every year we organise GIT SECURITY AWARD to promote innovative products in the safety and security industry. Unlike other awards in the industry there are no charges involved for companies to submit their products. Unlike most other awards, not a jury but our readers select the best products.

Only three products in each of the five categories could win GIT SECURITY AWARD 2014. On page 32 in this issue we present the winners that did get the most votes from our readers via fax, letters or online voting on www.PRO-4-PRO.com. We would like to thank all participants. Thank you all for voting and congratulations to the winners!

We will hand over the first trophies at Intersec in Dubai in January. Epoc Messe Frankfurt, organiser of Intersec in Dubai, is expecting the 2014 edition to be the biggest yet. The show looks set to break all previous records in terms of both participation and attendance. Almost all of the world's largest security companies have confirmed attendance along with 150 exhibitors making their regional debut. If you are visiting the show make sure to have a look at the show preview in this issue and do not forget to visit us in Dubai at stand 536P in hall S3.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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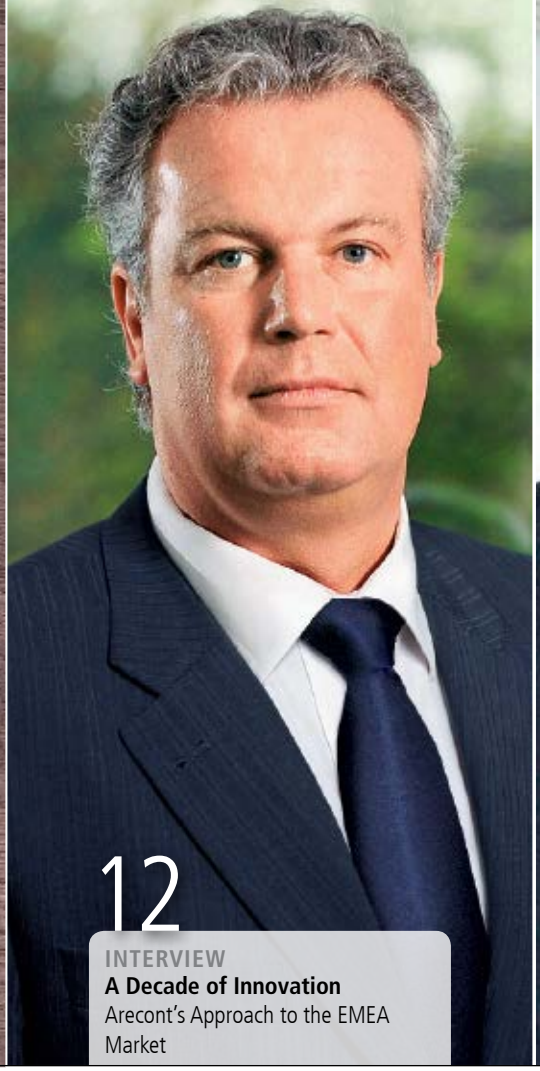

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London Gallery Expands Dallmeier Video System

The National Portrait Gallery in London has been using Dallmeier Video technology for many years. The system has now been modernized and expanded. The Gallery holds the most extensive collection of portraits in the world. The collection is displayed in London and in a number of locations around the United Kingdom, including several houses managed by the National Trust. Like other national museums, the Gallery is supported both by government and increasingly by a large number of individuals, companies and foundations, as well as by the receipts from shops, events and ticketed exhibitions. The system had consisted of surveillance cameras and recorders – now the security concept was to be expanded to encompass other areas such as the shop, entrances and lifts. Some of the existing analogue cameras were also replaced with high-resolution HD network cameras. Roger Noakes, account director with the NPG security contractor OCS, was involved from day one of the exhibition planning, and worked closely with Adrian Jackson, Head of Visitor services and Security at the National Portrait Gallery. A trial and test of the IP/HD cameras in the shop area was enough to demonstrate the superior capabilities of the manufacturer's HD technology, and plans were put in place to commence with the CCTV system upgrade. One element that proved to be a significant advantage – and particularly in financial terms – was the flexibility of the recording equipment, the recorders already installed did not have to be replaced. They could be prepared for the HD cameras quickly and easily with a simple upgrade. This meant that the existing analogue cameras and new IP cameras could be operated in a single system without difficulty.

www.dallmeier.com

Top Marks for C-Tec's Touchscreen Technology

C-Tec's ZFP touch-screen controlled addressable fire panel has scored top marks with students and staff at one of the Government's pioneering new University Technical Colleges. Located in the heart of Wigan's town center, the Academy offers 14 to 18 year olds the opportunity to gain technically orientated qualifications in practical and vocational subjects such as environmental technology, food production and manufacturing. The building's reception area features a flat screen television and two ZFP compact controllers. Specifically created to enhance a building's interior design, the state-of-the-art touch screen units not only provide information at a glance on all fire alarm system activity in the converted Victorian mill but also add a touch of style to the entrance area.

www.c-tec.co.uk

Access Controll Integrated

Ambar Systems, a Salto Certificated Partner based in Antrim, Northern Ireland, has developed a plug-in integration that combines Salto Systems access control with XProtect software. The plug-in integrates the system directly into XProtect Smart Client and allows the user to control access and monitor video surveillance from one unified interface, eliminating the need to run two separate applications. The plug-in integration enables the user to open doors while simultaneously viewing video footage of the doors. The plug-in captures critical events from the software and registers them as alarms in XProtect Smart Client. These alarms are automatically linked to relevant video footage from corresponding cameras. Users can seamlessly control cameras in their surveillance system, such as starting/stopping recording, changing video frame rate and moving cameras to focus on a door. Monitoring events are automatically registered as alerts within the alarm manager in XProtect Smart Client. Full details of the event, card holder, location and time are captured along with the video footage to provide a complete package of surveillance information.

www.saltosystems.co.uk

Safety for Italian Motorsports Park

Autodrome di Modena is a Motorsports Park and located in a famous area called "Motor Valley" in Modena. It is not only offering facilities, high speed cars, but also professional instructors who come from the real race world to give driving training. The circuit length of the park reaches 2.7km. and the pit lane is with 21 boxes, new telemetric system and a well equipped paddock. Both of the well-knowing high risks of racing and its open outdoor environment pile up the difficulty and complexity for Autodrome di Modena in terms of security. During the design phase, two requirements were on the table, one was for the sake of security control, the other one was to offer checking on the racing of cars & motorbikes. 24 network megapixel cameras are installed in the most important position of the track and also some speed domes in the open areas. The finally applied camera models include Dahua 2-megapixel full HD network cameras (IPC-HF3200) & speed dome cameras (SD6982A-HN), the storage device is Dahua 128 Channel Super NVR. With Dahua VMS, this set safeguards the venue with superb image quality with every detail captured, along with flexible and convenient management; most of all, the open architecture of super NVR makes it possible for a further implementation in the long run.

www.dahuasecurity.com

Messoa Lauches New Website

Messoa has a new look: The company has launched a new website, featuring simplified, user-friendly layout and richer content.

www.messoa.com

Vivotek and DVS Sign Distribution Agreement

DVS has signed a distribution agreement with Videotec. DVS managing director Shaun Bowie said the Italian company's products were an ideal addition to DVS's portfolio of CCTV equipment. DVS will stock all of Videotec's standard housings, LED lighting range and accessories. The Company will also supply Ulisse positioning units, a range of pan and tilt units able to be driven by ONVIF IP protocols, carry an IP Camera (HD or Megapixel) with a large lens, and maintain 360 degree rotation whilst carrying LED IR Lights. In addition, DVS will stock all of Videotec's specialist housing range, which includes marine housings and housing systems/PTZs for use in the oil and gas industries.

www.vivotek.com

Honeywell Panel Integrated with Nedap's Aeos

The Galaxy 520 intrusion panel from Honeywell is now fully integrated with Aeos – the open security management platform of Nedap. Thanks to this integration, you can make optimum use of previously made investments. Aeos enables you to easily add access control and video management functionality to your Galaxy intrusion detection system. As the functionalities of the Galaxy intrusion panel are now fully integrated in the web-based graphic alarm handler of Aeos, they can be armed and disarmed remotely. Alarms can also be fully processed in Aeos, and you can link video images to them. This considerably reduces the number of unnecessary alarms. Thanks to the central storage, all the data are accessible in a single database.

www.nedapsecurity.com

Milestone Acquires Connex International

Milestone Systems is purchasing all outstanding shares of the surveillance training, certification and consulting company Connex International, based out of Minneapolis, Minnesota. The Company was already a majority stakeholder from an initial investment in July 2010. For years the Connex teams have set up, managed and performed Milestone channel partner training in many languages with proven success across all regions. In recent years, the Company has added rigorous certification testing and documentation of Milestone Solution Partner integrations with the X Protect open platform, such as access control, analytics, geo-spatial positioning, video synopsis, 360Â° camera view de-warping, network video storage and more.

www.milestonesys.com

Milestone's X Protect for Copenhagen Suburb

The city of Alleroed, in a suburb north of Copenhagen in Denmark, aims to stop vandals and violent individuals before crime is committed. A key tool for the municipality is X Protect IP video surveillance software from Milestone Systems. Mobile access means faster response and proactive intervention before situations can escalate. The staff at a daycare center, located some distance away from inhabited areas, had complained that a young group was destroying things on the institution grounds after hours. The vandals had free rein for their misdeeds because no one was in the area after dark. To solve the problem, Alleroed decided last year to install video surveillance in the institution in cooperation with Milestone certified partner Atea. In total, the municipality now has more than 100 cameras in seven locations – most of them Sony SNC network cameras, which are controlled with X Protect Enterprise IP video management software (VMS) and accessed using the Milestone Mobile client.

www.milestonesys.com

Media Relations at Geutebrück

Ellen Kreitz (45) recently took over responsibility for media relations at Geutebruck. Having had a supporting role in the company's communication team for some years, she is well prepared for the task ahead and already familiar with press liaison work at this German video security specialist. She brings to the post a range of relevant experience from previous employment in a prominent German advertising agency as well as in other marketing and sales positions.

www.geutebrueck.com

Eyevis Solutions for Visualization at Intersec 2014

From 19–21 January 2014, Eyevis presents high-quality displays and solutions for visualization in control rooms and security centers at Intersec in Dubai. Besides their 60-inch LED-lit DLP rear-projection cubes and modular 46-inch LCD screens the Company presents additional solutions for professional control and signal transmission for video wall systems. With the EC-60-LHD-CP-1000 with 60-inch screen diagonal, full HD resolution and Cluster-LED technology for high brightness display, the Company presents it's rear-projection cubes for seamless video wall installations for reliable 24/7 operation at Intersec. The flicker-free display and the very good color and brightness behavior enable an ergonomically optimized viewing. Thanks to the use of DLP technology there is no danger of burn-in effects for the cubes caused by the prolonged display of static image contents. Long-life LED technology and a heat-pipe cooling system without moving components enable an almost maintenance-free operation. As an alternative technology for video walls the Company provides robust and stackable super narrow bezel LCD screens. The showcased displays type EYE-LCD-4600-M-USN-LD provide full HD resolution on a 46-inch screen, Direct-LED backlight technology for best brightness and contrast, and a minor resulting bezel between neighboring display in a video wall of only 5.7mm, which makes them suitable even for larger video walls in demanding applications. The internal matrix functionality allows display configurations up to 10 x 0 devices in a video wall. The robust design and the optionally available stacking frame allow for a simple and precise installation of video walls. For the professional control and administration of video wall systems the Company also presents the latest generation of the Netpix 4800 graphics controllers and the new version 5.1 of the Eyecon wall management software. The Netpix controller creates a combined desktop surface for the display of all kinds of network data, video and graphic sources. Eyecon is a universal software solution for the control and administration of the large screen system, the connected signal sources and the distribution of these signals in various locations for control and presentation.

www.eyevis.de

CEM Systems: Integrated Security for Malaysia Airlines

CEM's AC2000 Security Management System secures the offices of the 5-star Malaysia Airlines. The manufacturer "has a long history of working with aviation customers to find the right solution to meet their specific needs," said Andrew Fulton, Senior Director, Global Sales, CEM Systems. "We have maintained our position in the aviation market by continually developing AC2000 and by staying ahead of the industry. Malaysia Airlines key requirement was for one integrated security platform for access control, video and intrusion, as well as integration to an external visitor registration system." AC2000 met the requirements for high level integration using the DSC SIA Intruder Interface and the American Dynamics TVR video interface. These modules allow the access control system to act as the security management system (SMS), with DSC intrusion and American Dynamics range of digital video recorders visible from one unified platform. The AED (Alarm Event Display) application forms a single user-friendly interface were administrators can centrally monitor access control, intruder and video systems, all in real time. In addition, an Application Programming Interface (API) has been provided to allow the seamless integration of an external visitor registration system to the AC2000 system visitor's module. This allows Malaysian Airlines to transfer critical data from an existing visitor system for operational efficiency. **www.cemsys.com**

New SimonsVoss Production and Logistics Center

SimonsVoss moved into its new production and logistics center in Osterfeld. The Company invested around six million Euros in the site. A new manufacturing facility was urgently required since the former site had already reached the limits of its production capacity. The new premises boasts more than 3,650m² overall and features an incoming goods area, a manufacturing workshop, a warehouse, a shipping department, quality management and an after-sales centre. "We will be even more effective for our clients thanks to greater availability of product variants, shorter delivery times and a faster after-sales service. With the introduction of a warehouse management system, automated warehouse lifts and carousel racks, we will also achieve much faster, much more efficient production," states an enthusiastic Operations Manager Peter Heimbürge, pleased with the new manufacturing site. "The new plant enables us to double our manufacturing capacity for our digital cylinders, our digital Smart Handle door fittings and Smart Relay. This is another step towards ensuring sustainable growth for our company and expanding our market position", explains Bernhard Sommer, Chairman of the Company's Management Board.

www.simons-voss.com

Abus Security-Center Growing

With the opening of a new building at the company headquarters in Affing, Abus Security-Center provides space for up to 100 new employees with offices, testing laboratories, conference rooms, and room for events and exhibitions. The manufacturer of complete electronic security solutions wants to commit itself for the coming years to further growth in the economic region of Augsburg. **www.abus.com**

Video Moving into Perimeter Security Segment

According to a recent report published by IHS, the global market for intelligent devices in perimeter security applications is forecast to top 200 million US-$ in 2013. Historically, sensors have been the primary means of detection for perimeter security applications. In recent years; however, there has been a growing trend for cameras and analytics to be used in addition to sensors on a perimeter. The perimeter security industry has always been based on layers, so the addition of video only reinforces this ideology, the research company says. Video and especially video analytics has been the fastest growing portion of the perimeter security industry since before 2010. Prior to this time, perimeter security applications mostly offered detection without verification or identification. Perimeter security integration with video is proving to be a great enhancement in terms of efficiency and the reduction of false alarms. **www.ihs.com**

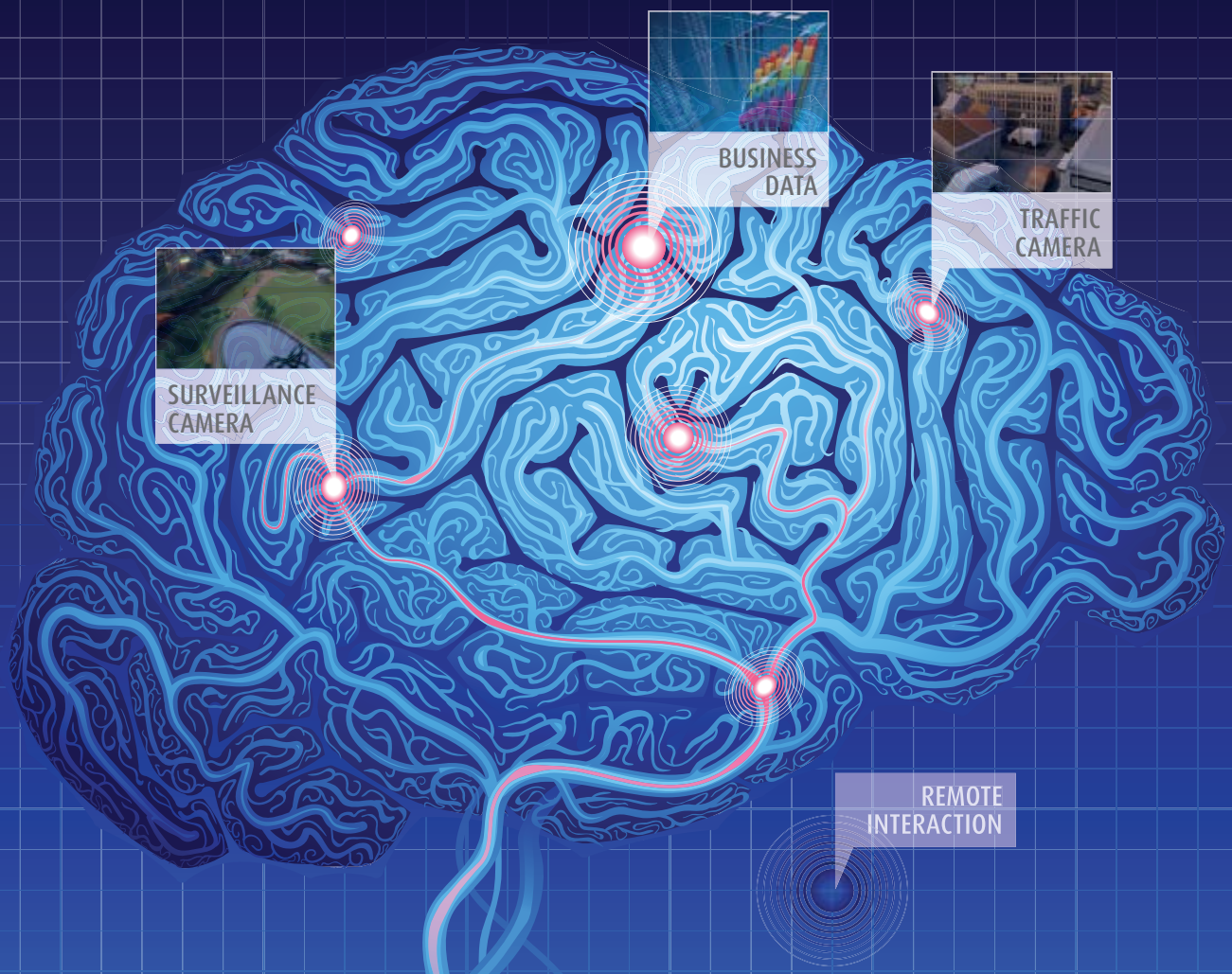
Open Standard for Smart Homes: ABB, Bosch, Cisco, LG

ABB, Bosch, Cisco, and LG aim to set up a consortium to provide a software platform for smart homes. The companies have now signed a memorandum of understanding to this effect. The plan is subject to approval by the antitrust authorities. The parties intend to develop an open architecture for data exchange. The software platform would allow diverse devices and services to interoperate, and to exchange information with each other. Application software distribution will also be enabled. This will allow appliances and devices made by different manufacturers to be part of home automation, security, healthcare, and entertainment services. A common platform such as this has not been available up to now, making it a challenge for appliances and devices such as light switches, motorized roller blinds, washing machines, multimedia equipment, smartphones, and tablets, to communicate with each other or to simply exchange information over the internet in a standardized way. The common platform is one more step toward the internet of things for the home, in which physical objects will be networked. **www.bosch.com**

Memoori on Global Security Market

The total value of world production of Security Products at factory prices was $23.4 billion in 2013; predicts Memoori, who have just published a new definitive report for security market research & investment analysis. The Company is forecasting a Growth Rate of 8% over the next five year period with the market reaching $32.2 billion by 2017. The two major drivers have been a 12 % aggregate growth in video surveillance and higher levels of demand in Asia, which has increased its share to over 39% for all physical security systems. Growth has been much more modest in North America and Western Europe; currently the developed markets of Europe, Scandinavia and North America take some 47 % of the value of the business, 2 % down on last year.

www.memoori.com



Smarter visualization

Networked visualization leading to smarter decision making

A reliable networked visualization solution is indispensable to monitor, analyze, and share an ever increasing number of video and data sources all over the world. That is why Barco designed its networked visualization solution, the simplest and most flexible way to securely distribute any information to any location. The result: faster and smarter decision-making.

Learn more about networked visualization at www.barco.com/netviz

Major Australian Retailer Upgrades with Geutebruck

Australian retailer Harvey Norman is upgrading its video security systems with Geutebruck IP technology. Franchisees at around a third of stores in Australia and New Zealand are now using the manufacturer's systems with their high quality images and ease of use. With 250 stores trading as 'Domayne' and 'Joyce Mayne' as well as 'Harvey Norman', this franchise operation sells electrical, computer and entertainment equipment, furniture and bedding. Franchisees handle their own day-to-day security operations but Harvey Norman supports them with security hardware and high-level specialist technical expertise. When aging DVR and analog systems needed replacement, the Company's technology was chosen on a number of criteria. Top of the list was good image quality, but important too was 90-day storage capacity, hybrid operation with existing analog cameras, and easy-to-use client software. – Easy, intuitive operation being particularly significant here because store managers have no specialist skills or knowledge.

www.geutebruck.com

Euralarm: Remote Services Guideline for Alarm Systems

Euralarm has launched a document providing guidance and recommendations relating to Fire & Life Safety and Security alarm systems where remote access is required. These recommendations are intended for Euralarm members and other stakeholders of these systems. The guideline contains the company's expertise with intent to lead to standardization throughout Europe. It provides advice regarding the design, installation, operation and maintenance of the alarm systems which require remote access, along with recommendations concerning the systems used for such remote access. The document consists of pre-standardization recommendations for contractual responsibilities as well as recommendations for the alarm system, the secure computer platform, the information transmission system and the operation of remote services. The guideline also provides specific recommendations for use of remote services with fire & life safety alarm systems and with security systems. The document is completed with the environmental essentiality of these recommendations. **www.euralarm.org**

Ernitec SX Cameras Certified by Milestone

The entire Ernitec SX camera range is now fully supported and certified by all Milestone Xprotect products with the release of Milestone Device Pack 6.9. All possible features are included and everything works intuitive and uncomplicated.

www.ernitec.com

Dallmeier: Security for Poker and Backgammon

Sand, sea and twelve days of top quality poker: The necessary overview of the "World Poker Tour" at the Merit Crystal Cove Hotel & Casino in the Turkish Republic of Northern Cyprus was delivered courtesy of a video system from Dallmeier. The backgammon tournament that was held almost concurrently in the Merit Park Hotel & Casino next door also featured the manufacturer's technology. "We have been using Dallmeier products at the Merit Crystal Cove for many years now," says Malik Oguz, Surveillance Manager of the Merit Casino. The video system was originally installed by local partner Ni-Ti Elektronik Güvenlik Sistemleri, and has been updated to reflect the state of the art regularly since then. "The equipment is totally reliable, and we are very satisfied with the service we receive from Dallmeier and Ni-Ti. In recent years, we have absolutely no problems with the system updates and expansions, which have been carried out regularly so that the video technology has grown in keeping with our requirements. That is important for safeguarding our investment," declares Malik Oguz. **www.dallmeier.com**

IP Video Seminar Series from Vivotek

Vivotek has started a seminar series under the theme "Designing IP video surveillance systems". The seminars, convened by the company's official distributor Alarm Automatika in Croatia, will run until March 2014. Organized in partnership with the Croatian Chamber of Electrical Engineers, the events are an opportunity for their members to acquire theoretical and practical knowledge on the design and application of IP surveillance systems. The Croatian Chamber of Electrical Engineers is a professional organization with more than 1,500 Croatian electrical engineer members.

www.vivotek.com

Nedap to Organize Welcome Party at Asis Europe 2014

Nedap will organize the Welcome Party of the Asis 13th European Security Conference & Exhibition in The Hague. The event will take place from 1 to 3 April 2014. The Company will sponsor and organize the party for all conference delegates on Tuesday 1 April at the World Forum in The Hague.

www.asisonline.org/thehague

TDSi: New Staff Appointments

TDSi has appointed Paul Ford to the role of Export Sales Technical Engineer. The company is already working on extensive market research of both African and South East Asian security markets, with the assistance of the UK Trade & Investment (UKTI). It plans to recruit new Export Business Development Managers in 2014. **www.tdsi.co.uk**

Idesco EPC at Veolia Bus Gate

Global access control and security system supplier, GPP Perimeter Protection AB, was selected recently to deliver an automatic vehicle identification (AVI) system for bus transportation services provider, Veolia, in Hurva, Sweden. Veolia had requested a reliable stand-alone bus identification system to control motorway access of their gated private motorway ramp, to dispense with drivers needing to disembark to open the gate. Veolia's resultant new AVI system not only saves time but reduces fuel costs by allowing windshield-tagged buses to transit gates without stopping. This is also safer and much more convenient for their drivers. The manufacturer's fast-installing and wireless plug-n-play package was comprised of EPC readers, passive (unpowered) tags, an ICU reader receiver and a DCU gate controller. **www.idesco.fi**

Abus in Switzerland

Abus Security-Center has acquired the company Trigress Security. The acquisition is the outcome of an increasingly close cooperation between the manufacturer and it's long-term, exclusive sales partner. The two companies have enjoyed a successful partnership for 12 years. All employees of Trigress Security have been retained. All partners of the company will therefore be retaining their trusted contact persons, while at the same time profiting from direct access to the products made by Abus. This includes alarm and video surveillance products, intercom systems and detectors, as well as a retail portfolio of products for self-installation.

www.abus.com

DVS: Distribution Agreement with LG

DVS has signed a distribution agreement with LG Electronics that will see it provide LG's full offering of video surveillance products to UK installers and integrators – including Full HD IP cameras and recorders. The manufacturer's recording solutions assist users with the transition from analogue to full IP-based systems. Their hybrid recorders run on software which manages individual camera channels, allowing end users to replace analogue cameras with IP models as the need arises, switching off analogue channels and on IP channels. David Hammond, managing director of European Security Partners, LG's UK and Europe representatives, said: "Appointing DVS as a distributor of LG products was an easy decision, as they are a highly knowledgeable, experienced security distribution organization, and able to provide the highest levels of technical support and customer care for installers and integrators."

www.dvs.co.uk

Abus with New Headquarters

With the opening of its new building Abus Security-Center's headquarters in Affing, Germany, enhances working conditions for up to 100 new employees with offices, testing laboratories, conference rooms and space for events and exhibitions. The manufacturer of complete electronic security solutions commits itself for the coming years to further growth in the economic region of Augsburg. The building has 2,300m² of gross floor area and space for up to 100 new employees – including a showroom with a permanent exhibition of the company's products along with several conference rooms for contacts with security specialist companies.

www.abus.com

Mirasys: Agile Virtual Matrix and Geospatial Mapping

Mirasys has launched its Agile Virtual Matrix and Geospatial Mapping applications. Designed for the need of large surveillance systems, they make it easier to design and run large scale security centers. Agile Virtual Matrix allows large scale video surveillance systems to use a multitude of monitors arranged in a synchronized matrix. The monitors managed via operator console can be used to view thousands of static and dome cameras, camera tours, IP cameras, analog cameras, I/O devices and virtual cameras in an adaptable and user-friendly environment. Agile Virtual Matrix is a powerful and easy-to-use solution for intelligent video surveillance of corporate networks, industrial processes, commercial centers, and multi-office environments – both locally as well as remotely.

www.mirasys.com

COMMENT

Fingerprint Readers – A Comment from John Davies at TDSi

Looking at the new Apple iPhone 5C and 5S, it's not the funky colors of the 5C that have caught my eye but the fingerprint reader that has been introduced on the new 5S. Whilst fingerprint readers are nothing new, I believe the inclusion of this technology on a smartphone is an important indication that biometric security is becoming more mainstream than ever before. For the last few decades PIN security has been ubiquitous, so it was an obvious step that smartphones would also use this technology. But there can be complications, it's easy to forget a PIN and equally it can be possible for a quick-witted individual to learn this and use it for unauthorized entry without the rightful owner necessarily being aware anything is amiss! Fingerprints (and indeed anything that uses the unique properties of the human body, such as facial recognition or iris recognition) have great advantages. They won't be forgotten or mislaid and can't be replicated by any simple method. So the user will never struggle to prove their identity! Biometric security is already a very significant element of the security industry so it's interesting to see the publicity with the launch of such a high-profile consumer product. It's right that consumers will be able to choose biometrics as an alternative to technologically and practically inferior methods of identification. In a fast moving world, people don't want inconvenience they want to be able to securely use what they are entitled to with a minimum of fuss, whilst maintaining full security. I suspect this will be an important landmark in the wider adoption of biometric security and will encourage the majority of people to call for it elsewhere in their daily lives.

▶ *Comment the comment: e-mail us at gsm@gitverlag.com*

Avigilon Launches Global Partner Program

Avigilon announced a global partner program to its network of resellers and systems integrators. The Partner Program recognizes commitments and rewards efforts made by partners to ensure their success and facilitate business growth. The Company offers it's partners enhanced marketing, sales and support efforts and provides the opportunity for increased revenue. The Partner Program is based on a tiered structure that categorizes partners according to average annual sales volume, credit history and training certifications. Partners who participate in the program are then eligible to receive numerous benefits.

www.avigilon.com

Raytec Lighting Integration with Milestone VMS

Raytec has announced their integration with Milestone's X Protect video management system. Their range of Vario IP network illuminators is the first range of CCTV illuminators in the world ever to be integrated into a video management system. The integration allows the highest level of flexibility, management and control over your lighting in conjunction with all other network technologies in your security system, from one central platform. Controlled individually or in groups, Raytec network illuminators can be easily configured using the Milestone Management Application, to create a smart system designed to provide event driven lighting triggered by alarms from a camera, detector or other network device. Such illumination on demand e.g. on detection of a subject, is highly effective at deterring crime and reducing the system's running cost and environmental impact..

www.raytecctv.com

INTERVIEW

A Decade of Innovation

Arecont's Approach to the EMEA Market

In 2013 Arecont celebrated its 10 years anniversary. Within these ten years the company was a major driving force in the industry's transition from analog to IP video surveillance systems. The transition to IP is one of several market factors stimulating the deployment of megapixel cameras for mainstream video surveillance applications. Better performance at lower cost has always been Arecont's approach for this challenge. As the EMEA market was an early adaptor to megapixel video imaging and IP network systems it is a natural move for Arecont to further strengthen its position within this market. Heiko Baumgartner had the opportunity to talk to **Ivo Drent, Arecont's Vice President of European Sales** at their new European headquarter in Frankfurt, Germany.

GIT SECURITY: A lot has happened in the last 10 years since Arecont was founded. How is the business going at the moment?

Ivo Drent: Just to give you an impression: Some days ago during a phone conference with our CEO he mentioned that in September this year we had as much revenue as in the whole year five years ago.

I assume that a big part of the success is the megapixel cameras and panoramic systems you offer. Where do you see the advantages these systems offer the customer?

Ivo Drent: There are two main fields where our systems are especially strong. In a lot of applications megapixel cameras do now replace several fixed analog or low resolution IP cameras to survey large areas. Customers get a better system performance at lower costs plus a higher image quality they can use to identify the face of a suspect or to read a license plate number of a passing vehicle. The second segment where we are very successful at the moment are customers who previously relied on pan-tilt-zoom cameras to cover larger areas. As a PTZ camera can only point in one direction at a time, this creates a significant risk for missing an important or security-threatening event in another part of the coverage area. The wider views delivered by megapixel cameras provide a much stronger solution. Multi-megapixel cameras provide a more complete coverage and users can do "virtual" PTZ in live or archived video without the risk of missing crucial events. This does also help operators not to "panic" in case of an incident and concentrate on the right actions to be taken.

What is new Arecont's product pipeline?

Ivo Drent: We have just launched a unique new addition to our line of SurroundVideo. The new 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. The cameras set a new benchmark in wide area surveillance by simultaneously focusing on multiple areas of specific interest within a scene using a single camera solution. The cameras will be available from 5 MP up to 20 MP configurations and feature our Wide Dynamic Range technology in the 12 MP configuration. It delivers a dynamic range of up to 100 dB at full resolution without lowering the frame rates.

There are other panoramic cameras in the market. What makes this series so unique?

Ivo Drent: The fact that every sensor can be individually adjusted is new, so each sensor is directed in exact the direction needed for a specific scenario. All signals from the sensors are aligned within the system and deliver a picture that gives the user a perfect overview of the whole coverage area. Having four sensors means the resolution is optimized across the entire image. With a single-sensor camera, you would typically use a fish-eye lens that has less resolution as you move toward the edge.

It seems like Arecont likes to combine different technologies in one system?

Ivo Drent: You are right. Combining as many valuable technical features into one system as possible is a good concept as we move forward with IP technology. We combine Megapixel technology with Wide Dynamic Range and low light capabilities in the SurroundVideo Omni cameras. Customers no longer accept IP cameras with high resolution that do not allow you to see fast moving objects or are underperforming when it gets dark. Another good example for the combination of different technologies in one product is our micro dome where the customer does not

need to decide between a small dome, Megapixel technology, WDR or low light performance. He gets everything in one product.

Product performance is an important issue but integration into the surveillance system is important too. Does Arecont offer its own video management software?

Ivo Drent: No, we believe in the "best-of-breed" concept, so we concentrate on developing great cameras and leave the software part to our VMS partners. There are so many opportunities to improve high performance video surveillance systems. Details are important like our new dome bubbles that enable clear pictures for 10 MP dome cameras or the quality of lenses. Integration is also crucial like for example the integration of 180° IR beamers we developed with Raytec or the cooperation with storage partners.

How does the cooperation with your partners look like?

Ivo Drent: We work very close together with our VMS partner to make the integration of our cameras as easy as possible and ensure a high level of integration. The thorough testing facilities at our MegaLab in Los Angeles ensure smooth integration of megapixel cameras with third party systems. Quality assurance engineers oversee the MegaLab integration and load performance testing. As we are more present in the EMEA region now, it is easier to cooperate with European VMS partners that operate with a more regional focus. Establishing one new MegaLab in Europe will help us to cooperate with software, storage and integration partners in the EMEA region.

How do you see the EMEA market and what can we expect from Arecont in our region?

Ivo Drent: The EMEA market was an early adaptor to megapixel video imaging and IP network systems and it is a market that still has great potential for growth. The different countries are in different phases of their adoption to IP technology and we adjust our service to regional requirements. In the UK for example we are structured by regions while in France we concentrate on key verticals like city surveillance and logistics. In general establishing stronger relationships with key distributors and system integrators in the different countries is our key task and will be crucial to accelerate our growth in Europe. I am looking forward to contribute to that together with the European sales team. At the moment we expand our sales and service team in all key countries and we aim to have 14 people located in Europe by the end of this year. With our new headquarter in Frankfurt we have the opportunity now to host customer trainings and integration workshops. We will expand our service and technical hotline so that every customer gets help in his language and we will establish the first MegaLab outside the US here in Frankfurt.

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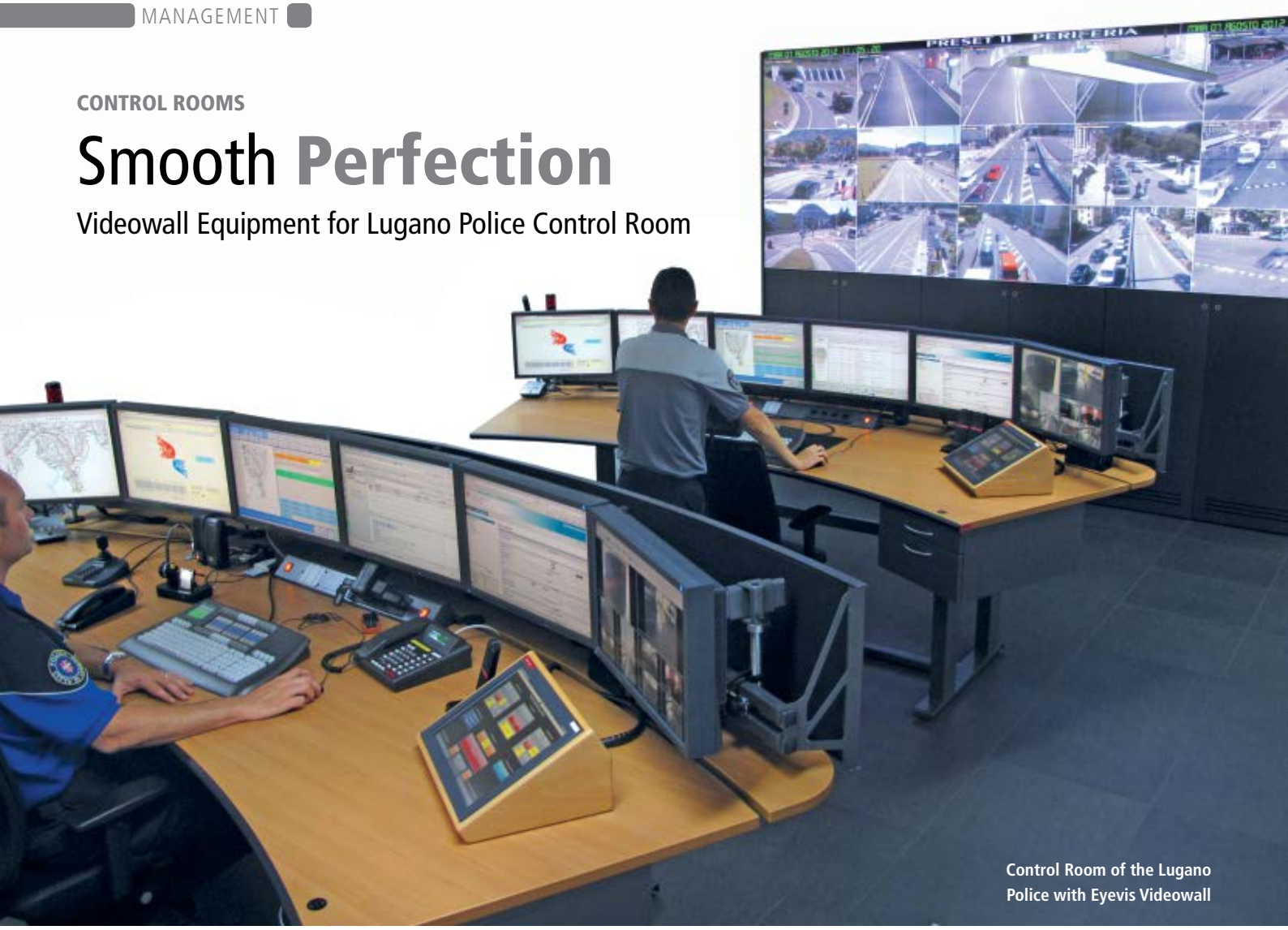
Videowall Equipment for Lugano Police Control Room



Control Room of the Lugano Police with Eyevis Videowall

Lugano is situated in the very south of Switzerland idyllically at the shore of the lake that owes his name to the city. As with everything else, people in Switzerland place great importance on smooth perfection. For this reason the "Polizia Città di Lugano" has integrated numerous different information, process and alarm systems into a functional unit. In this process a secure and ergonomically exemplary solution was created which is easy to handle and future-proof. Like with many other projects Wey as the integrator is relying on Eyevis large scale video technology.

Over the years the technological equipment of the old operations center became more and more complex through many new requirements without having a suitable integration concept to simplify and standardize the handling. Operative process changes and numerous new tasks additionally lead to an increase of the number of operators in the center.

The latest example of this trend is the project of the new tunnel Vedeggio-Cassarate which forced the city of Lugano to redesign their road and traffic light control system. In addition 118 emergency calls recently have to be received and processed for the whole canton. To face those tasks, conditions and the control concept as well as the ergonomic situation of the operations center appeared to be more and more overstrained – a solution had to be found. Lugano City Police in the framework of an advertisement decided to go with the "Wey-Distribution-Platform", since it meets the requirements of the advertising criteria for the new operations center with its comprehensive integration concept.

Now the operators have seven workstations with up to six monitors available that can each be controlled with a single multifunctional keyboard. All integrated systems as well as large scale image displays are conveniently controllable from any workstation. Thanks to Wey-Event-Management-Systems all results (alarms, system reports, failures etc.) are automatically displayed at the workstation and/or on a large scale video display.

Also new: all computers of the integrated systems are now placed in a central, air conditioned system room and the computer signal distribution of video, keyboard, mouse and audio is handled by the "Wey-Distribution-Platform". Due to that, noise and heat emissions in the operations center are reduced, ergonomics at the work stations are increased, maintenance is facilitated and CO_2 emissions are reduced considerably.

Large Scale Video Screen

For the large scale screen six Wuxga-LED rear projection Cubes in 56" (2×3 configuration) were put into operation. With this the large scale video screen provides an almost bezel-free total image area of 3.63 × 1.51 m. Currently the large scale video screen is used to display the 47 available video cameras. In the near future 200 more video cameras are supposed to be added for the surveillance of pedestrian zones and parking lots (Project Security). Besides the video camera images computer video images from the

Alarms, system reports, failures etc. are automatically displayed at the workstation and/or on a large scale video displayw

"Wey-Distribution-Platform" are connected to the large scale video screen as well.

The large scale video screen is controlled by a high-performance Netpix graphic controller with five eyevis-IP-Streaming-Video-Decoder-Boards. The IP-Decoder-Boards allow for the simultaneous depiction of up to 40 video streams of different origin. The management of camera and computer video sources on the large scale video screen is assumed by the eyecon wall management software. The special feature: the Wey-IP-Remote-Extenders are completely integrated into the eyecon wall management software. In this way the signals of the IP-Remote-Transmitters can already directly be used by the eyecon wall management software for controlling and depiction of the large scale video screen. A network of redundant versions of the large scale video wall and the controllers, as well as of the Distribution-Platform-Components, guarantee for a high failure safety.

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CCTV

Revellers Repair Bike Rack

Reverse Vandalism: CCTV Footage Seen by Millions of People around the World Shows that CCTV Surveillance Isn't Always About Crime

A few months ago in Boston, Lincolnshire, the myth surrounding the idea that CCTV is used only as a deterrent to stop crime was well and truly exploded. On prime-time television, viewers around the globe witnessed a group of youths bending a previously vandalised bike-rack back into position, with CCTV images broadcasting the whole incident with crystal-clear quality.

Unknown to revellers and onlookers alike was the fact that impressive quality CCTV images were being transmitted wirelessly back to the town's security control room using equipment supplied by specialist outdoor wireless CCTV company, Wavesight. Operators at the new control room can clearly be seen zooming in on the youths and watching them as they carefully bend the bike rack into position.

Reverse vandalism: CCTV footage of the revellers webcast on GIT-SECURITY.com

In July, facilities management and security company, OCS, updated the Boston CCTV camera system to future-proof it for years to come. Removing the old analogue cameras and leased fibre lines, they utilised Wavesight's transmission products and expertise to provide a wireless solution using the latest in IP cameras supplied by Panasonic.

Steve Pittom, MD for Wavesight, comments: "This is a very powerful image for us. It clearly shows the quality of the images that can be transmitted wirelessly in real-time. It is often said that a picture paints a thousand words, and this was never so true as when the CCTV operators in Boston witnessed the un-vandalising of a piece of street furniture. For it to make headline news, due not only to the nature of what was happening, but also on account of the quality of the images broadcasting this impressive DIY repair job to the masses, is a testimony to our skills in ensuring that wireless CCTV technology really works and provides an excellent solution that meets client needs."

The footage, which has already received over two million views from around the world and was also aired on BBC and ITV evening news, can be seen on GIT-SECURITY.com using the following link: www.git-security.com/webcasts/cctv-footage-reverse-vandalism-revellers-repair-bent-bike-rack

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EVENT

China Public Security Expo: Successful Ending

CPSE Ends with Intended Transaction Volume over RMB 23 Billion

The 14th China Public Security Expo (CPSE 2013) came to a successful conclusion on November 1st. According to the latest statistics released by the Organizing Committee, there were over 150,000 professionals attending CPSE 2013 with more than RMB 23 billion (€ 2,8 billion) intended transaction volume. All of the statistics hit a record high.

Great Business and Big Projects

Business during the show was exceeding expectations so that for example during the expo, Tsinghua Tongfang company added an extra reception table due to the soaring orders. The S1 Megapixel Network HD Camera, a new product released by Tsinghua Tongfang on the expo, priced 199 yuan, was popularly welcomed. In just three days, Tsinghua Tongfang received more than 3,000 orders. The market of civil-use surveillance became one of Tsinghua Tongfang's focuses on cloud security & protection.

Merely in the first two days, Ui-Max had got several 2-million-plus projects of intelligent community and parking lot surveillance. During the expo, they contacted with lots of core customers from Jiangsu, Sichuan, Hunan and Guangdong, and had achieved cooperation intention with them on projects of intelligent residential district and parking lot, with a predicted order amount of over 30 to 40 million yuan.

Utepo is a company specialized in security and protection signal transmission. With the ever-deepening trend of HD and networking in video surveillance industry as well as the popularization of network monitoring, Utepo released E&P-link products, and a solution to HD network transmission application. On the expo, many high-quality core customers turned to Utepo, with the intended transaction volume reaching 40 million yuan.

Pedro Duarte, Vice President of Samsung Techwin Latin American, founder of the Latin American Security Association, concerned Chinese market eight years ago. He said that the CPSE 2013 was the biggest security expo he had ever seen. There were a large number of attending enterprises with their highly advanced products, many of which he found interesting. He was looking forward to launch in-depth cooperation with Chinese security enterprises.

Intelligent Secure Cities

The above mentioned examples are just some spotlights of CPSE 2013. With the theme of „integrating the power of enterprises and capital, jointly promoting the construction of intelligent secure cities", it comprehensively showcased the most cutting-edge technology and innovative development security industry. A number of famous international enterprises, including Intel, Honeywell, Aptina, Schneider, Tyco, Ingersoll Rand, Bosch, Legrand, Sony, Panasonic, Samsung, LG, Hitachi, Sanyo, Siemens, Texas Instruments, Pohang, Tamron, as well as well-known domestic security enterprises, including Hikvision, Vimicro, Huawei, Changhong, Haier, TCL, Dahua Technology, Hisilicon, Skyworth, Tongfang, Fiberhome, Digital China, CSST, Jieshun, Jinpeng, ZNV, Suzhou Kedacom, Netposa, Tiandy, Phoenix Optics, Fujian Forecam, brought in the most advanced security technology, solution and products, covering the field of video surveillance, anti-terrorism equipment, community security, biological recognition, access control, intruder alarm, building intercom, smart home, perimeter alarm, intelligent transportation, anti-counterfeiting and automatic control, etc.

1,500 exhibitors from 42 countries and regions, up to 120,000 sqm exhibition area, nine exhibition halls and another two temporarily halls occupied, adding up to over 6,000 standard exhibition booths, 350,000 person-time visits, 15,000 overseas buyers and visitors, these all make CPSE 2013 the largest security expo worldwide. Oversea delegations, which are constituted of directors of security & protection associations from 42 countries and regions, including the United Kingdom, the United States, Canada, Brazil, South Africa, Russia, India, Turkey, the Middle East, Asean, South Korea, Hong Kong, Macao, Taiwan and so on presented at the CPSE 2013, as well as security professionals and buyers from public security, transportation, electric

power, education, medical care, culture and so on, from 31 provinces, cities and autonomous regions in China.

According to Mr. Yang Jincai, Secretary General of the CPSE Organizing Committee, with 25 years of constant development, 14 sessions of CPSE have been successfully held. With an ever-expanding scale, ever-improving degree of internationalization, and ever-enhancing influence year by year, it has become a grand event in the public security industry with the largest scale and impacts, greatly contributing to China's public security industry development, and the acceleration of global public security industry integration. CPSE provided service to over 6,000 enterprises so far, offering a hundred-billion-yuan business opportunity to nearly 320,000 professional buyers. Compared to the scale of the 13th CPSE held in 2011, CPSE 2013's exhibition space was increased by 10,000 square meters in this session, up by 10%; the number of standard exhibition booths was increased by 865, up by 22%; the number of exhibitors was increased by 134, up by 13.5%; the volume of on-spot transaction in CPSE 2011 reached 20 billion yuan, and in CPSE 2013 it has exceeded 23 billion yuan.

Plans to Grow

In terms of space capacity, CPSE 2013 has reached the upper limit of Shenzhen Convention & Exhibition Center. Next step, CPSE will take preferential policy towards enterprises with stronger brand impact, R&D competency, innovative capacity and development potential. Meanwhile, Shenzhen Security Industry Association, Xinjiang International Exhibition Center, and the Global Security Industry Alliance signed in this CPSE a cooperation agreement on jointly holding the 1st session of China, Asia and Europe Public Security Expo. This is the first cooperation between the Shenzhen Security Industry Association and local exhibition, and we will further such kind of cooperation in the future, in an attempt to provide more professional exhibition services.

Mr Yang Jincai said, through CPSE 2013, we can see that the whole industry is still developing in a prosperous direction. Intelligent urban construction centered on smart security will be a new growth point for the industry in the future. In such a process, a number of enterprises with outdated products, technology, development planning, and management as well as a lack of independent innovation capability will finally be eliminated, the formation of security technology and security companies will be more diversified, and there will be a healthier development within the industry.

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EVENT

A New Record for Dubai?

Organizers Expect the Biggest Intersec Ever

Renowned as the region's largest and most comprehensive security and safety show, Intersec 2014 will offer a unique spectrum of products from the fields of Commercial Security, Information Security, Fire & Rescue, Safety & Health, Homeland Security and Policing. Intersec will take place from 19–21 January 2014, at the Dubai International Convention and Exhibition Centre and once again the show is under the patronage of HH Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum. In 2013 Intersec attracted more than 21,000 trade visitors and this year organizers expect more than 1,000 exhibitors from more than 54 countries.

Growth Driven by Burgeoning Safety, Fire Protection and Security Industries

Safety, fire protection and security remain high on the priority lists of governments and corporate companies worldwide given the current uncertain scenario in many parts of the world. The Middle East region, replete with its crucial reserves of oil and natural gas, and boasting some of the fastest growing economies within its ranks, is being viewed as a vitally important part of the world by the global safety, security and fire protection industries.

This emphasis on greater security is felt in many ways including growing expenditure on security infrastructure, equipment and personnel by regional authorities as well as an increasing awareness in society about the importance of maintaining a safe and secure environment. Given all this, it's not really surprising that Epoc Messe Frankfurt, organiser of Intersec is expecting the 2014 edition to be the biggest yet. Intersec 2014 looks set to break all previous records in terms of both participation and attendance. Already all of the world's ten largest security companies have confirmed attendance, including Honeywell Security, Bosch Security Systems, Assa Abloy, FLIR Systems, Axis Communications, Samsung Techwin and Tyco International along with 150 exhibitors making their regional debut.

According to Ahmed Pauwels, CEO of Epoc Messe Frankfurt, the continued success of Intersec is being driven by the rapid development of the safety and security industry regionally. "Across the Middle East authorities are improving security infrastructure, enhancing policing and crime fighting capability and concentrating on maintaining a peaceful environment. Furthermore, with the renewed vigour in the construction sector and an increase in projects at finishing stage, demand within the private sector also continues to rise. This all makes the region a high-priority market for international manufacturers and suppliers." "Intersec continues to work closely with local authorities and regional players to better reflect the needs of the region onto the international stage," Pauwels added.

Four Main Areas

As with previous years, Intersec 2014 will comprise of four main focus areas: Commercial Security & Information Security; Safety & Health; Fire & Rescue and Homeland Security & Policing:

Commercial & Information Security

This section includes control & surveillance equipment, access control, monitoring & recording systems, and information security. Commercial Security is the largest section of Intersec representing more than 500 companies. If your company is specialised in one of the following areas, then Intersec's Commercial Security Section is a must-attend event for you. This is the largest product section of the exhibition and

features key names such as Assa Abloy, Axis, Bosch, CP Plus, Harco and Honeywell Security.

Fire & Rescue

Intersec has once again established itself as the number one meeting point for Fire and Rescue industries in the Middle East region and beyond.

In the modern infrastructure that consists of tall modern buildings, a fire spread can be unpredictable and potentially life threatening. With the best practise standards being followed, the fire resistant construction is required to be closely regulated. As an exhibitor at Intersec, you will have the opportunity to showcase your company to professionals to the extensively growing fire and rescue industry as well as across all other fields in the public security sector. The visitor profile includes civil defence forces, police, army, firemen, security and safety officers, architects, construction companies and developers, only to name a few. The fire & rescue section at Intersec is receiving strong ongoing support by the UAE Civil Defence Forces.

The Fire & Rescue section is the fastest growing segment and within this segment prominent companies including Bristol/Corodex, Draeger, DuPont, Naffco, Sffeco, Siemens and Underwriter Laboratories will be participating.

Safety & Health

This segment includes Personal Protection Equipment (PPE), environmental protection at work, safety at work equipment and health at work. This section regularly features key industry names including Ansell, Karam Safety and Safetix.

Homeland Security & Policing

The Middle Eastern security market is expected to maintain its ongoing growth, urging government and private sectors to boost their budgets for modernization of national security equipment.

In this area the focus is on on armour protection, perimeter security, forensic science and laboratory equipment, physical security, detection and disposal equipment, optics, electronics, as well as specialised training and consulting for government entities. This area is of particular interest to governmental agencies and includes Dubai Police, UAE Civil Defence as well as private companies such as Al Fajer, Gatekeeper Security, Macneille, Madoors Systems, Nedaa and Streit Group.

Intersec 2013 welcomed visitors and delegates from the Governments of GCC (UAE, Oman, Saudi Arabia, Kuwait, Bahrain, and Qatar), Lebanon, India, Pakistan; from Customs, Airports, Embassies and Consulates, Transport authorities, Telecommunication companies, and many more. Amongst those were key decision makers looking to invest in innovative security products and solutions.

On the sidelines of Intersec 2014 will be a full complement of fringe events and features including the popular Intersec conference programme and the outdoor demo area.

IOSH Middle East Occupational Health Seminar

The Institution of Occupational Safety and Health (IOSH) supports Intersec's Health and Safety Conference, to be held on Monday 20 January 2014 at the Dubai International Convention and Exhibition Centre.

The theme of the conference is Occupational Health. It aims to help and encourage occupational safety and health (OSH) practitioners to be more effective and proactive in preventing work-related ill health, and to play their part in promoting health and good rehabilitation practices in their workplaces. IOSH believes that the OSH community should play a fundamental role in supporting wellbeing in the workplace and promotes a holistic, proactive approach to managing health and wellbeing issues at work. It also aims to encourage occupational safety and health practitioners to work with others, particularly occupational health and human resources specialists, to improve employees' work performance.

▶ CONTACT

Epoc Messe Frankfurt, Dubai, UAE
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Fixed Network Cameras

Axis Communications announces the indoor Q1614 and the outdoor-ready Q1614-E fixed network cameras. Able to capture quick movements recording at twice the usual frame rate and to handle complex scenes with high contrasts and extreme low-light conditions, these IP cameras are ideal for demanding industrial applications. The cameras feature HDTV 720p recording at 50 or 60 frames per second which resembles twice the frame rate used in conventional cameras. This ensures quick movements are captured in more detail so that for example the license plates of fast-moving cars or quickly passing objects on a sliding band in an industrial production line can be better identified. The network cameras are the first of the manufacturer's products to feature adjustable

high-sensitive shock detection, a function which enables the cameras to automatically send an alarm to a control room if it is hit. This feature is especially valuable in applications where the camera is subject to vandalism, and it helps operators maximize camera uptime. The company's Lightfinder technology allows for effective operation in extreme low-light conditions.

Intersec · Hall S1 · Stand 705C

www.axis.com

Six Network Cameras

Vivotek launches six network cameras. The IP8364-C and IP8337H-C are two bullet-style network cameras designed for diverse outdoor applications. Both cameras are encased in IP66-rated weather-proof housing that is resistant to rain and dust. In order to strengthen the robustness of the camera, the mounting bracket includes cable management, designed specifically for protecting the cable within the bracket. Featuring a removable IR-cut filter as well as IR illuminators effective up to 20m, both cameras are able to adapt to constantly changing outdoor lighting conditions and provide very high image quality around the clock. In addition, IP8337H-C comes especially equipped with WDR Pro technology, enabling visibility in high contrast environments. FD8164, FD8164V, FD8137H, and FD8137HV are fixed dome network cameras that are designed for indoor applications. These four new fixed dome network cameras are all equipped with 3D Noise Reduction Technology, a feature that helps reduce bandwidth from sensor noise while capturing clear and polished video under low-light conditions. In addition, the removable IR-cut filter and improved IR illuminators, effective up to 15m, are also featured for excellent image quality in spite of challenging lighting conditions.

Intersec · Hall S1 · Stand 1119C

www.vivotek.com

Wireless Infrared Beams

ACE Security and Electrical has become one of the first installers to specify the new range of Optex Smart Line Quad wireless beams at a VIP residence. Approached by the owners of a prestigious property in the South East to install a reliable perimeter detection system to provide early warning for the close protection team on site, Jim Lander, Managing Director of ACE Security and Electrical: "Our VIP personal security team needed to secure the perimeter of the multi-acre site and gain early warning of unauthorized individuals or groups trying to enter or leave," he explains. "The stability of the detection device and its catch performance was therefore a crucial factor. The site had many environmental challenges including natural woodland and the wildlife within the grounds." Another key consideration was the need for covert installation and for the project to be completed as quickly as possible, with minimal disruption to the customer and surrounding environment. As part of its iSeries portfolio, Optex provides battery operated beams with pre-fitted wireless transmitters which makes the equipment completely wirefree.

Intersec · Hall S2 · Stand 719C

www.optex-europe.com

Distributed Security Solutions

Milestone Systems announces the release of its XProtect Corporate2013 R2. With this version the company extends their offering of distributed security solutions by widening the array of products that can be interconnected with XProtect Corporate, while simplifying the licensing of its more advanced Federated Architecture concept. With support for an unlimited number of cameras, users and sites, it offers a centralized, single-management interface for efficient surveillance administration including all connected devices, regardless of the size or distribution of the implementation. Interconnect provides a flexible way to gain central surveillance operation across geographically dispersed sites. It combines remote surveillance installations with the advanced surveillance functions of XProtect Corporate in one cohesive security solution.

Intersec · Hall S1 · Stand 719

www.milestonesys.com

IP Outdoor PTZ Camera

Videotec has introduced the Ulisse Netcam, a PTZ Full-IP that is able to control modern SD, HD and Megapixel cameras. It can take any ONVIF Profile S fixed Camera and all PTZ functions can be managed by the most popular VMS through 1 IP address. Network camera, zoom lens and PTZ only need one IP address. The system can work over the ONVIF Profile S protocol or over the cameras proprietary protocols. The integrated PTZ offers a total freedom of choice to use the best IP cameras or most zoom lenses for excellent quality images. These units can host high-performing zoom lenses for particularly clear vision. Two optional integrated powerful LED illuminators ensured a clear night vision. Moreover this heavy duty PTZ is designed for any outdoor climate up to 60 °C, with strong wind or

bad weather conditions. The frontal glass is kept always clean by the integrated wiper and washer for a perfect camera vision. Less susceptible to vibrations than traditional dome cameras, it maintains high positioning accuracy of 0.02° with a variable speed up to 100°/sec.

Intersec · Hall S1 · Stand 430C

info@videotec.com

Hybrid Wireless Fire Detection

Hochiki Europe has announced the introduction of its latest Continuing Professional Development (CPD) course, Hybrid Wireless Fire Detection – The Standards & Technologies. Designed for M&E contractors and consultants, architects and end users, the course provides an overview of what is required when specifying, installing and maintaining hybrid wireless fire detection systems. It has been designed to provide essential information on this subject including an overview of relevant sections from BS 5839 Part 1 and EN 54 Part 25 standards, a guide to when to use hybrid wireless, the technology behind the system and examples of appropriate applications. The use of hybrid wireless based fire detection technology has grown massively in recent years and has proven particularly useful within temporary locations and environments where minimum disturbance to the fabric of a building is important. The Company has introduced its pioneering Firewave solution in 2011. It is flexible, quick, easy to install. It is EN54 compliant and should be used as an extension to a compatible hardwired system, such as the manufacturer's Enhanced Systems Protocol (ESP) intelligent system. Hybrid Wireless Fire Detection is part of the Company's CPD training portfolio, which covers a range of life safety related subjects. The other three courses are Emergency Lighting Standards and Design Considerations; False Alarm Reduction in Detection Systems; and Understanding the Selection, Spacing and Siting of Detectors. Each course has been externally reviewed and approved by the Construction CPD Certification Service. They can be held at a customer's premises and last for approximately one hour each and contribute 1 CPD hour to the attendees' CPD quota. 'The working environment is rapidly evolving and life safety professionals must continuously acquire new knowledge and skills in order to remain at the cutting edge of what they do,' commented Paul Adams, deputy marketing manager. 'Knowing how to correctly specify and install hybrid wireless fire detection systems is extremely beneficial and this new course, along with our other highly successful CPD courses, highlights our commitment to education and the sharing of our world class expertise.'

Intersec · Hall 2 · Stand 505-F

cpd@hochikieurope.com

Bosch Integrated Solutions for All Industries

At Intersec in Dubai Bosch will showcase the latest technologies in Commercial & Information Security, Homeland Security & Policing, Fire & Rescue and Safety & Health. The product highlights for video surveillance are the Dinion starlight HD and Flexidome IP starlight RD cameras. With its starlight family Bosch Security Systems offers real 24/7 cameras. The starlight cameras are specifically designed for high performance in extreme low-light conditions. The new DIVAR IP recorder family consists of all-in-one video management systems as well as storage solutions. The DIVAR IP all-in-one solutions combine a network recorder, storage array, client workstation and integrated VMS. Also on display are the new intrusion detection systems: The AMAX panel 4000 is offered in two different basic editions: AMAX panel 4000 and AMAX panel 4000 EN, with independent EN 50131-3 grade 2 certification. For its EN portfolio, Bosch Fire systems will be presenting the Fire Panel 5000 Series panel along with its Repeater panel. They will showcase the new interface connecting fire alarm and voice evacuation communication via IP.

Intersec · Hall S1 · Stand 817C

www.bosch.com

Fire Detection at Intersec 2014

Apollo Fire Detectors will showcase its range of fire detection products at Intersec 2014. Visitors will have the opportunity to find out about the company's product and service offering including EN54-11 2001 approved Manual Call Points. A full range of Manual Call Points are available including addressable, conventional, waterproof, marine, I.S and SIL and all come with the manufacturer's Lifetime Product Guarantee. As well as being designed to provide easy installation and commissioning, each call point incorporates a highly visible alarm indicator which can be seen from up to ten meters away. The Company will also use the show to highlight its 15 fire detection products that have been independently evaluated to IEC61508, resulting in Safety Integrity Level (SIL) 2. A SIL rating gives confidence that in a 'live' situation, equipment will function as planned, which is particularly important in high risk environments such as the marine and offshore industry – a major growth area in the Middle East.

Intersec · Hall 2 · Stand 502-F

www.apollo-fire.co.uk

HD Cameras for Low Light Conditions

With the DDF4320HD-DN and DDF4520HDV-DN Dallmeier launches two new HD cameras performing very well at low light conditions. The DDF4320HD-DN and the vandal-resistant DDF4520HDV-DN are hybrid dome cameras, providing HD video in real-time (720p/30) using the H.264 codec and supporting resolutions up to 1.3 megapixel. In addition to HD video over IP, the hybrid cameras provide for a simultaneous analogue SD (PAL/NTSC) video output via BNC (CVBS). The cameras are characterized by their Wide Dynamic Range (WDR) and ability to capture images with highest color fidelity and superb detail reproduction even in scenes with a wide range of contrast and strong backlighting. The excellent low light performance also provides for

clear and low noise images even in low light conditions. Besides a comprehensive set of automatic and manual image optimization functions and many other setting options, the cameras feature automatic Day/Night operation supported by integrated ambient light sensing and a removable IR cut filter (ICR).

www.dallmeier.com

Smart PTZ Dome Cameras

Hikvision recently introduced two smart analog PTZ domes (the DS-2AF7268 and DS-2AF7264, respectively) which both incorporate a 960H image sensor to capture superior images at a horizontal resolution of 700TVL. This 960H image sensor presents a leap in current analog surveillance performance and provides a 36% resolution improvement when compared to 4CIF. Utilizing these PTZ domes with Hikvision 960H embedded DVRs allows users to experience highly-detailed images and also provides insurance against security risks such as theft and burglary. These two PTZ domes provide enhanced IR illuminators and offer up-to 150m clear visibility in low or zero lighting conditions. Digital

WDR and 3D DNR are also supported to improve image sharpness, and provide a more accurate color reproduction in variable lighting environments.

www.hikvision.com

Protection in Case of Emergency

SimonsVoss has enhanced its Electronic Locking and Access Control System 3060 with a newly designed protection function. With it, door locking devices can be activated or deactivated in a split second in the event of an emergency. Users and operators of large buildings, particularly those in the public sector and the health care and education sectors, often wish for an additional protection system which can be quickly put to use in critical situations. People want to be able to act very swiftly in the event of a fire alarm or attacks on people, such as a shooting incident in a school. This protection function provides three responses in such emergency situations: a simple press of a button makes it impossible to open a door from the outside – intruders can no longer get inside as a result. By the same token, a means of escape can also be immediately provided by pressing the button to deactivate the locking device concerned. The system also informs those in charge about the disturbance, fire, gunman attack or other emergency. The manufacturer has provided this new protect function by extending its Wavenet Router radio network – by connecting digital locking cylinders with a central computer, for example – to offer additional functions. One single signal can reach

up to 249 doors per router. Interlinked in a network, locking devices can thus be activated or deactivated simultaneously using a radio signal. Thanks to radio, the system will still work even if the communications and IT networks are already down. Depending on the actual nature of the incident, the Wavenet Router can provide the right protection function, such as 'Lock doors in gunman incidents' or 'Release doors in the event of fire.' If there is a gunman in the building, doors to classrooms can be securely locked, for example. If a fire alarm is triggered, System 3060 automatically releases the right doors, opening up the way for people to escape or for help to arrive.

Intersec, German Pavilion, Stand S2-512C

www.simons-voss.com

Door Monitoring in Three Minutes

Is the door open or closed? Has it been locked just once or is it double-locked? Is someone trying to break in through the door? Simonsvoss's Digital Locking Cylinder 3061 can detect all these situations using the manufacturer's door monitoring and report them to a main control centre, where individual status messages for each door are displayed on the Event Agent and can be re-set when required. This door monitoring cylinder is installed within three minutes with no need to drill a single hole and without affecting door certification. Just fifteen more minutes and the complete system is ready for operation. Three technical innovations interact in this highly integrated door monitoring system: the intelligent fastening screw, the cam sensor and the monitoring logic. Designed to hold the profile cylinder securely in the lock case, the fastening screw is equipped with an intelligent system which can detect whether the door is open or closed or if an authorized person is trying to open the door at any time. The cam sensor detects the position of the dead bolt and whether it has been double-locked or just locked just once. The system notifies the main control centre of the door status at all times by radio. To do so, it uses the company's Wavenet radio technology and intelligent G2 protocol functions. The Event Agent in the software displays status messages and also allows you to filter or reset messages or take action where required. If the network should crash, no damage is caused. Any information already received is not lost from the cylinder's access list.

Intersec, German Pavilion, Stand S2-512C

www.simons-voss.com

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AIRPORT SECURITY

A Constant Flow

An interview with Erich Keil, Head of Corporate Security Fraport AG Frankfurt Airport Services Worldwide

Internationally, Fraport belongs to one of the leading companies in the airport business and operates Frankfurt airport, one of the most important air transport hubs in the world. The location employs some 78,000 people in the 500 or so companies and institutes (incl. The Squaire and Gateway Gardens), of which 21,000 alone work directly for Fraport. This makes Frankfurt airport the largest place of employment in Germany. The Corporate Security team with a total of around 530 employees belongs to the Flight Operations and Terminal Management Division and has been led in this form since 2010 by Erich Keil. He heads the Security Control Room with its roles of Emergency and Continuity Management, Danger Prevention with preventative, defensive fire prevention (the airport's own fire team) and the Fire Brigade Training Center, Security Process and Contract Management with resource planning, Operative Management, the Investigation Group including person security, the Airport ID Service Center with responsibility for the regulation of air security training, the security infrastructure as well as Quality Management, the airport's own clinic and, last but not least, the Rescue Services. He also represents Fraport AG in the Global Player Initiative, a dialog forum of the Bundeskriminalamt (Federal Office of Criminal Investigation), is a member of the Public Security Forum at the German Federal Parliament and belongs to the Security and Operations Technical Committee of the AdV (German airports working group). Our scientific Editor, Heiner Jerofsky, visited Erich Keil in his office and spoke with him about his responsibilities, challenges and security at the largest German airport.

GIT SECURITY: You have been at Frankfurt airport since 1986 and, amongst others, were Chairman of the Board of the Fraport security subsidiary Frasec (Fraport Security Services). You have now been head of Corporate Security of Fraport AG for a number of years. What has changed during this time and which security and safety tasks form the main focus of your area of responsibility?

Erich Keil: In such a large organization such as Fraport there are of course continuous changes taking place, also in the area of safety and security. Starting from a purely operative function, the way things used to be done, we nowadays increasingly control the security processes to ensure high quality and efficiency. The operative activities on the other hand, insofar as they are not a core element of the tasks of an airport, are predominantly done by third parties. I'm referring mainly to the checks of the staff of our company but also those of all other companies where their job necessarily takes them from the uncontrolled area to the controlled area for employees. That applies for the transitions within the terminals and also for apron access. Our 100% subsidiary FraSec should be mentioned here that provides this service for us together with the Airport Security Management division.

Erich Keil, Head of Corporate Security Fraport AG Frankfurt Airport Services Worldwide

Flying and security are inseparably bound to one another. Every passenger and also every visitor expects the highest standards of staff, technology, maintenance and organization. How can you always meet these expectations?

Erich Keil: In Germany the aspects of airport security are divided into three distinct areas by law. The Bundesinnenministerium (BMI – Federal Ministry of the Interior) is responsible for passenger checks and has assigned the federal police the job of supervisory control. They themselves make use of mainly private security companies to carry out these control measures. The responsibility for security of the airport compounds lies with the airports themselves by law. This is supervised by the relevant regional aviation authority. And finally, responsible for security measures concerning air freight is the Bundesverkehrsministerium (Federal Ministry of Transport) that, as the responsible intermediate authority, has commissioned the Luftfahrtbundesamt (LBA – Federal Office of Civil Aviation) to carry out this task for them. It is most important that a uniform type of technology exists at all airports. The BMI ensures this in the first instance and has set up its own central research and test center at the state police in Lubeck. The capabilities of technical apparatus and processes are put to the test here and it is checked to see whether these can be integrated into the daily control procedures. Even if the European Commission declares certain technology as suitable, it will first of all be checked in Lubeck. If it is considered to be suitable there is will be employed by the state police and also the regional civil aviation authorities or the LBA 1 to 1.

The security control room is the ‚heart and brain' of your operations. What communication and visualization systems are used there primarily and how many call outs are there of Airport Security – including the fire brigade and the rescue services – each year, commanded, coordinated, monitored and documented by how many staff?

Erich Keil: The Security Control Room (SLS) is a so-called ‚integrated control room' in which all the activities of the security force, the airport fire brigade and the rescue services are coordinated. Of course, everything that happens in our SLS is documented, precisely and watertight. For this we use an operations control system for the documentation and also for the radio communication that has already been partially switched over to digital operation. Normal systems, such as mobile phones, are also used. And from all this we can derive statistics that I can happily quote to answer your question. The SLS also has access to the entire video surveillance at the airport, and that is a lot. Per shift there are around ten employees in the SLS. They are managed by Security Duty Officers (SDO) who direct not only internal staff but also the operative staff outside. In a 24 hour period there are usually around 650 to 800 events that result in about 500 to 600 jobs for Security, 70 to 80 jobs for the rescue services (including jobs for the so-called PRMs, the passengers with restricted mobility such as wheelchair passengers) and around 30 jobs for the fire brigade. The high number for Security results mainly from following up on air security alarms (e.g. securing of doors at the border of the controlled air side), fire and intrusion alarms and other security jobs. This is of course a massive number of events over the course of a year and you can appreciate the pressure under which the SDOs work together with the team in the SLS.

The airport's own fire brigade forms an important part of the whole security concept and has a broad range of responsibilities. What are its main tasks and how many personnel are involved?

Erich Keil: To carry out all the tasks there is a team of around 250 firemen and women on duty at the airport during the day and a large part of the night (325 including the administration, preventative fire protection and the fire brigade training center). The four fire stations within the compound are arranged so that any point on the extensive road and taxiway system can be reached within three minutes from receiving the alarm. At the new northwest runway this is actually achieved within two minutes. The broad range of jobs of preventative fire protection extends from tackling fires on aircraft and aircraft fire protection on the apron through fire protection in all the buildings and areas of the airport compound to technical support and operating the fire brigade training center. This is a center that serves not only for the training purposes of our own fire brigade but can also be used by firemen and women from other brigades.

To secure the new runway, Fraport tested and installed a new fence system for the first time, a high-performance alarm fence made by a German company. What have been your experiences with this technology to date? How common are false alarms and does the system actually save monitoring and reaction staff?

Erich Keil: This new type of fence is a great investment from an operational point of view. Since it was put into operation almost exactly two years ago there has not been a single false alarm. This has meant that, while still being visually pleasing, we have been able to adapt our routine inspection tours to the new situation. The cost/performance ratio is therefore ideal even though the fence was more expensive at the outset and the system – based on quiescent current – naturally by far exceeds the requirements set by either the ICAO (International Civil Aviation Organization) or the regional authorities.

How can you provide consistent all-round protection for the entire compound, for the sensitive apron, the important building, aircraft, vehicles, technical systems, airfield lighting, transport routes, fuel storage and pipelines? And how important are the video management systems, danger alert systems and high-security access control systems?

Erich Keil: Your question covers almost all the technic systems of an international airport of course! It's not about securing everything within one all-embracing airport fence. I've already touched on some of the methods in explaining the tasks of our control center. The total security for all eventualities that you mentioned doesn't exist in one system as such. It is rather a coordinated interaction of video technology, alarm systems, control measures for people, vehicles and deliveries to the transit points to the security sensitive or secured areas and the cooperation of all employees at the airport. Everyone has a security job to some extent that starts with avoiding operational dangers (e.g. driving at the appropriate speed on the apron or following procedures at the aircraft stands).

There is continuous building, modernization or expansion at Frankfurt airport. That demands additional and certainly not insignificant security measures. How do you achieve this and with what personnel and technical effort? Do you also employ external security service providers and mobile security systems?

Erich Keil: This question addresses another significant part of the security tasks of an airport. Within our own organization we have a division that is responsible for this subject and works in close cooperation with the planners and those doing the work. The processes are conceived from a security background and implemented in process instructions. The security assignment and operations are then coordinated by the SLS. The number of staff assigned corresponds to the scale of the building works. Yes, external companies are sometimes engaged for these tasks. And in these cases the systems mentioned previously (video, communication) play an important role.

The airport has meanwhile become a shopping and experience airport. There are vital systems, such as security control rooms, alarm systems, automatic sprinkler systems, fully automatic baggage transport systems, communications systems and emergency power supplies in the publicly accessible terminals. How does the security architecture look here?

Erich Keil: Naturally an airport operator must offer products to its passengers, visitors and staff, on the one hand to provide the fundamentals but on the other hand to make the airport more attractive so that as many people as possible fly from here and so that you can feel good in such an enormous environment. At the same time, we try to make the waiting time for transfer passengers – who make up more than half of the total number of people using the airport – as pleasant as possible and to set up ideal and sensible transfer routes. From the point of view of security, it must be observed that the facilities used by them are always freely accessible and that our obligation to transport security is fulfilled in all aspects. This becomes noticeable above all when a lot of people are within our terminals at the same time. Think of the demonstrations that have taken place every Monday since the northwest runway was put into operation, where just in the area of Terminal B West between 500 and 800 people are mingling with the flying public. Here we have to organize the cooperation be-

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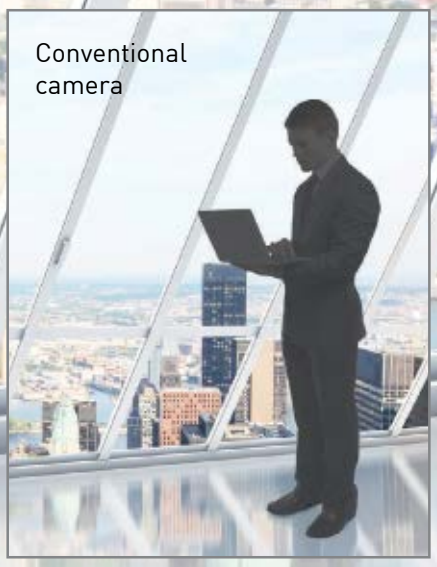

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tween the respective offices of the City of Frankfurt, the regional and state police and our corporate security so that on the one hand the normal passenger traffic can continue without complications but on the other hand the demonstrators can exercise their constitutional right.

Fraport is obliged to secure the airport compound because of various national and international laws. What sort of system copes with tens of thousands of IDs – how do you keep constant track of fluctuations, external companies and visitors? What systems do you prefer to use in each area (magnetic cards, transponders, RFID or biometrics) and what experiences have you made with the newest access control technology?

Erich Keil: You'll understand that for security reasons I can't talk about all our systems. However, the subject of ID is one of the most difficult to master within an organization that not only has many of its own employees but also those of external service providers to cover. The earlier ID service is therefore being given a comprehensive overhaul and will result in the airport ID Service Center. That sounds casual at first but it is a process that must be carried out together with the employees. In addition, our ID administration system must be adapted almost daily to the current conditions, not just for reasons of the fluctuation of employees, to keep more than 75,000 IDs and around 20,000 driving permits up-to-date. Further, the latest technology demands a change in our airport ID cards. Where before a magnetic strip on the card was sufficient, for an interim period we need hybrid IDs that have the magnetic stripe on one side but simultaneously include modern RFID technology and can be used at our new readers. Here it is only necessary to hold the ID close to the reader to read the data from the RFID chip. This ensures that only those people can enter the area behind the reader who have the appropriate authority. The same goes for driver's permits that meanwhile can be used at multiple locations. But I haven't yet mentioned the well-known color distinction of our IDs that discriminates between those authorized for public areas, operational areas and the apron.

How does the dialog between member companies and authorities within the Global Player Initiative contribute to airport security?

Erich Keil: I am convinced that security can only be ensured in a globally networked world if those responsible openly discuss the risks. The good communication between internationally operating companies and the security agencies about subjects such as commercial crime, people smuggling, corruption or the prevention of terrorism is irreplaceable. For this reason we take part – together with almost 60 other German companies – in the Global Player Initiative of the Bundeskriminalamts. This initiative has built up a network between the participating companies and the BKA to distribute security-relevant information quickly if needed. We company representatives use this opportunity, for example, to keep ourselves informed about the security situation in foreign markets in which Fraport is active or would like to be active. The exchange serves not only our own travel security, location security for existing activities of Fraport abroad but also for prevention in areas that may be relevant for Fraport in future. The Initiative is therefore for both sides an organization from which everybody profits. It is a give and take on both sides and this is the only way such a cooperation can be successful.

What are your prime aims in the near future? Where do you expect technical innovations and changes or a re-think of security planning?

Erich Keil: I mentioned at the start of the interview that there are always changes going on at an airport like ours in Frankfurt, also in the security philosophy. From this comes my highest priority to take control of these changes, to coordinate them and communicate them within the organization but also in the affected departments of the airport and to the appropriate authorities. Sometimes approvals are necessary from the authorities, sometimes processes must be adapted or altered for legal reasons or because of the physical situation. And so there is a constant flow in security and never standstill. This applies to the technology as well that is being constantly developed and researched, just as in the past. Think for example of body scanners or mass spectrometer methods used in passenger or staff controls or the subject of liquids for passengers that are undergoing constant change and are dependent on the progress of technology. Those are words that a few years ago were not ever used in conjunction control technology.

It is good to know that you take on your difficult job with exceptional professionalism and great flexibility. Many thanks for your time and the informative conversation.

Scientific Editor
Heiner Jerofsky

Dome Camera with IR LED Focusing

Samsung Techwin's SNP-6200RH Full HD 20x optical zoom IR network dome camera is intended to provide a cost-effective video surveillance solution for challenging environments such as airports, ports and other transport facilities, as well as car parks, open spaces, retail and industrial estates. The network dome camera is able to capture superb quality Full HD (1,920 x 1,080). Its built-in IR LEDS can illuminate objects at a distance of up to 100m by focusing the beam as the camera zooms, resulting in clear imaging even when the field of view is in total darkness. The ONVIF conformant camera is equipped with Wide Dynamic Range (WDR) technology for environments where there may be strong contrasting lighting conditions. It is also weatherproof to IP66 as well as IK10 vandal resistant, and can with-

stand high temperature variations of –50 °C to +55 °C, making it an ideal video surveillance solution in even the most challenging environmental conditions. It utilizes bandwidth friendly H.264 compression with the option to also use MJPEG compression.

STEsecurity@samsung.com

Full HD – Remote Back Focus Control

Dallmeier's IP cameras of the 4920 series offer pin sharp images in Full-HD quality, and an easy and convenient configuration and installation. Whether as box camera or in a vandal-resistant dome housing: The DF4920HD-DN and DDF4920HDV-DN use a 5 megapixel CMOS image sensor and provide Full-HD video in real-time (1,080/p) using the H.264 codec. A special highlight of the 4920 series is the function Remote Back Focus Control – a technology which allows for a precise and easy remote focusing over the network. With just one click, the ideal focus range is recognized automatically (One-Push Autofocus), which then, if needed, can be precisely adjusted by using manual fine-tuning. This results in always achieving perfect images with excellent sharpness. Furthermore, the Digital Image Shift function provides for

a digital fine alignment of the image section conveniently via web browser, without having to modify the camera itself. Depending on the requirements, the camera can be conventionally supplied with 12V DC or conveniently operated via Power over Ethernet which allows for an easy, quick and cost-effective cabling and commissioning.

www.dallmeier.com

DISASTER PREVENTION

Operation Taranis Monitored

Europe's Largest Ever Disaster Response Exercise Was Expertly Monitored by Grundig

Salzburg in Austria recently played host to the largest disaster response exercise ever undertaken in Europe; codename Operation Taranis. The EU co-funded project took place in June 2013.

The premise of the exercise was that severe storms and rain in Salzburg and its surrounding area had caused landslides, buildings to collapse and flooding. This had also led to a number of train and boat disasters. In addition, there was a plane crash at the airport and chemical leaks at two nearby towns. National emergency response vehicles were deployed for many weeks. The Austrian Minister for the Interior and the Salzburg authorities then decided to deploy additional support from the international EU civil protection response system. In total, 900 emergency response units from seven different countries attended 22 different, hypothetical emergency incidents, over 3 days.

The company responsible for Operation Taranis and its organization was Excon. They appointed LaBoe Security OG to provide remote viewing, transmission and monitoring of all the incidents and the responses.

Despite the huge scale of the operation, each of the 22 incidents was monitored in real-time. Full HD, IP cameras from Grundig provided the images and VMS software from Alnet Systems provided control. The cameras were mounted on hydraulic, telescopic masts and powered by batteries. Their HD images were transmitted using

wireless IP technology, by fibre optic network or by a 3G mobile network. A walk-in observation room contained many Grundig Full HD monitors along with three video walls. Each incident was also remotely monitored by the EU commission in Brussels, the Red Cross headquarters in Salzburg and at Excon's HQ.

Exercise Director and Salzburg's "security commissioner", Anton Holzer, concluded, "All the teams have excelled in providing an outstanding emergency response. They demonstrated a high level of competence and effective, cooperative communications. They not only carried out their difficult tasks with great professionalism and competence, but also with passion and enthusiasm".

The exercises were a great success and provided reassurance that the emergency response to any unprecedented EU disaster would be fast, highly competent and effective. Grundig IP cameras and monitors impressed all the agencies involved with their image quality, both day and night.

CONTACT

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New low-light Full HD box camera

The new GCI-K2505B true day / night box camera is the latest addition to Grundig's comprehensive IP range. The high quality IP camera offers outstanding sensitivity at low-light levels. The camera remains in colour mode until 0.03 Lux, before switching to black and white mode, where its sensitivity extends to an incredible 0.005 Lux with no additional IR lighting.

The GCI-K2505B uses a 2 Megapixel CMOS sensor with dual shutter and Progressive Scan technology to produce high quality, quad video streams at these exceptionally low light levels. Installers can select a range of resolutions for each video stream. Options include a single, 1080p stream at 50 frames per second (FPS) in H.264 or MJPEG formats; dual streams of 1080p and 720p at 50FPS; and Quad streams of 1080p, 2x 720p and CIF, simultaneously at 25 FPS.

Andreas Franusic, product manager at Grundig, explains, "The high 'frames per second' rate increases low-light performance and enables real-time video recording from multiple streams simultaneously. The Quad stream technology allows efficient video transmission and storage, whilst saving network bandwidth. The streams can be optimized to suit applications, such as 1080p for NVR recording and lower resolution 720p, D1 or CIF video streams for monitor displays, PCs, tablets and smartphone viewing."

The GCI-K2505B is ONVIF S compatible, comes with a micro SD/SDHC memory card slot for alarm and scheduled image recording and has a power over Ethernet (PoE IEEE 802.3af) option, so no separate power supply is required.

The camera's video format is 16:9, which can be rotated through 90° to provide portrait (corridor view) or landscape views. It has motion detection built-in and five privacy zones. Image quality has been further enhanced with ATW, WDR and DNR functionality.

info@grundig-security.com

Grundig SDK integration with Milestone´s XProtect

Grundig Security, world-class manufacturer of IP, HD-SDI and analogue security products is pleased to announce its Software Development Kit (SDK) integration with Milestone Systems, provider of XProtect open platform Video Management Software (VMS).

Milestone Systems is the world's leading supplier of open platform VMS solutions. Its XProtect open architecture VMS is used by more than 100,000 customers worldwide. Milestone delivers a flexible and reliable VMS platform to manage every requirement of a security system with unlimited integration capabilities for third-party analytics and business solutions. The XProtect platform is scalable, making it ideal for installations ranging from just a few cameras up to large, multi-site applications in the thousands. The XProtect client interfaces are available in 26 languages and adjustable for different user skill levels or tasks.

Founded in Copenhagen, Denmark, in 1998, Milestone Systems has 15 international offices, annual revenues in 2012 of 55.6 million USD and a network of 8,000 channel partners.

Grundig Security manufactures advanced video surveillance systems for professional security applications. Grundig offers IP, HD-SDI and analogue technology solutions. Its product range includes surveillance cameras; DVR and NVR recording systems; LED backlight monitors; and network transmitters. Its IP camera range, now integrated with XProtect, provides Full HD video in 2, 3 and 5MP formats and includes box, bullet, fixed dome and PTZ dome cameras with vandal and weather-resistance options and numerous mounting methods. All Grundig products deliver high quality video images and practical installation features with intuitive set-up and operation.

Grundig Security, head-quartered near Duesseldorf, Germany, has a reputation for producing products with exceptional functionality, quality and reliability. Grundig invests in brand promotion and marketing, creating demand for its products and services across the world. Comprehensive market experience and expertise are used to inform new product development. The Milestone website, www.milestonesys.com, lists every compatible Grundig camera by model number.

info@grundig-security.com

Readers' Choice

GIT SECURITY AWARD 2014 – the Winners

Again it was a neck-and-neck race for the GIT SECURITY AWARD 2014. Only three products in each of the five could win: Those ones the most readers were voting for – via fax, letter or online voting on www.PRO-4-PRO.com. Thanks to all participants!

Category A Safe Automation

WINNER

Siemens: Sirius 3SK1 Safety Relays

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Category B Fire and Explosion Protection, Industrial Safety

WINNER

Wagner: OxyReduct VPSA

Active Fire Prevention with VPSA technology

OxyReduct with Vacuum Pressure Swing Adsorption (VPSA) technology by Wagner is a system for active fire prevention based on oxygen reduction, which is particularly well-suited for large storage areas. Using a physical process to separate gas mixtures, this innovative technology produces nitrogen to reduce the oxygen level in the risk. Using positive and negative pressure, the surrounding air is split into nitrogen and oxygen directly on-site. Thus the energy consumption to generate one cubic metre of nitrogen can be reduced by up to 50% under certain conditions compared to conventional PSA technology. OxyReduct VPSA works extremely efficiently and is especially used for large production volumes of nitrogen.

Dehn + Söhne: DehnSecure

2ND PLACE

DehnSecure Protects d.c. Applications

The modular devices of the DehnSecure product family are coordinated lightning current arresters with a discharge capacity of 25 kA (10/350) and a functional design. They can be energy coordinated with type 2 surge arresters of the Dehn Red/Line product family without additional cable length. The DehnSecure arresters combine high performance and user-friendliness in a single device. Their electrical parameters were rated for the most stringent requirements in lightning and surge protection systems. The modular design of the DehnSecure arresters makes them safe and user-friendly. The vibration-proof module locking system, for example, is unique. The mechanically coded base part and protection module ensure against installing an incorrect replacement module.

Bernstein: Contactless-Safety-Monitoring-Sensor

CSMS (Contactless Safety Monitoring Sensor)

The CSMS is a safety sensor based on RFID technology. Safety series circuits of up to 32 sensors, compliance to PL e / SIL 3 (category 4) can be achieved without the need of additional monitoring devices. As there is no need for external monitoring and associated accessories, costs are greatly reduced. M12 modular connectivity provides fast, easy and simple system installation as standard. The coding level of the CSMS already complies with prEN14119 draft regulations. Protective device system errors are located quickly and easily with the help of the diagnostic interface. At any time the system status of each of the 32 CSMS can be transmitted to the control system via Profibus.

3RD PLACE

Siemens: SWING

Wireless Fire Detection

With its SWING fire detection system (Siemens Wireless Next Generation), Siemens is introducing a wireless fire detection solution which offers a high level of reliability and flexibility. SWING combines a failsafe wireless network with patented ASA technology (Advanced Signal Analysis) to ensure optimal fire detection. The system is especially suitable for use in locations where the wiring of fire detectors is impossible or undesirable. The system is based on mesh technology, which maximizes communications redundancy and thus matches the security and reliability of a cable-based solution.

2ND PLACE

Congratulation to Mr Ralf Suerbaum from Hamburger Kunsthalle, winner of the reader price, a brandnew Pentax camera.

FLIR: K-Series

Handheld Thermal Imaging Cameras for Fire Fighting Applications

The K-Series enables fire fighters to see through smoke. This helps them to find victims in smoke filled rooms and to see if a fire is burning behind a wall. This knowledge can help them to avoid dangerous "back drafts". For these applications infrared camera world market leader Flir Systems now offers the Flir K50 (320 x 240 pixels) and the Flir K40 (240 x 180 pixels) – both have a large bright 4" display and feature 5 different color modes for every situation. The K-series withstands a drop from 2 meters on a concrete floor, is water resistant to IP67 and fully operating up to +85 °C and up to 260 °C for 5 minutes – and it can be operated with fire fighters gloves. Flir offers 2 years warranty on the camera and 10 years on the detector.

3RD PLACE

Readers' Choice

Category C CCTV

Mobotix: M15 IP Camera

Allround Dual Camera

The camera M15 builds on Mobotix' innovative camera platform concept and offers two exchangeable 5 Megapixel sensor modules. In this way, it can be adapted to current and future needs at any time, regardless of the original mounting place. Five different sensor combinations are currently available. By using 5 Megapixel sensors, the users will gain more than four times better light sensitivity, a frame rate of up to 30 frames per second and an increased zoom in color and in black-and-white. The M15 is equipped with the new MxActivitySensor technology for intelligent motion analysis that reduces false alarms considerably. Furthermore, it is IP66-certified and is successfully tested at a temperature range from -30 °C to +60 °C.

WINNER

Category D Access Control, Intruder Alarm, Perimeter Protection

Salto : Clay Cloud Access Control

Cloud-based Access Control System

Clay by Salto is a brand-new easy to use, secure locking solution for SME's that is revolutionary in design, usability and features. The key hardware element is the Clay IQ that serves as the hub between the wireless lock and the cloud, and is so simple to set up, users need only plug it into a standard electrical socket. Neither router configuration, nor any other cabling is required. The new product utilizes the versatility of the cloud to give owners of SME businesses the ability to control their building access remotely and manage it in real-time via any device with an internet connection, providing security that is both flexible and future-proof.

WINNER

Category E Safety and Security Management

WINNER

Bosch Communication Center: Secure Truck Parking

Secure Truck Parking

There is an increase in goods traffic and a raising demand for mobility in a qualitative and quantitative dimension. The lack of parking lots for trucks lead to a high number of traffic fatalities and rising crime by freight theft due to increasing values of goods, parking lots searching, parking in restricted areas and tiredness of drivers. Bosch Secure Truck Parking (BSTP) combines three components: 1) Online booking platform 2) Video surveillance 3) Intervention via Monitoring Center In combining technical with personnel methods, which contains both an intelligent booking system and physical security, BSTP prevents attacks on trucks. Thus, truck drivers can use their regeneration phases effectively and economic damage is prevented in advance.

Panasonic: WV-SW598

New Panasonic Full-HD Dome Camera with 30x Optical Zoom and Rain Wash Coating

The new WV-SW598 from Panasonic comes with a set of features that permit it to be installed outside in challenging climatic conditions. The casing comes with a so-called rain wash coating that amounts to an unpaid window cleaner coming by every time it rains. The coating ensures that flatter water droplets take dust and dirt with them when they roll down the outer housing as they cannot form the usual globular shape on the special surface coating.The super high resolution of the camera at Full HD / 1920 x 1080 pixels ensures that fine detail is maintained, and transmitted at up to 30 fps over multiple H.264 (high profile) and JPEG streams that allow simultaneous real time monitoring and high resolution recording by the new Uniphier, Panasonic's proprietary LSI platform.

2ND PLACE

Samsung Techwin: SNP-6200RH

3RD PLACE

PTZ-Network Dome Camera

The SNP-6200RH is a 20x optical zoom IR PTZ network dome camera able to capture superb quality Full HD images. An IR function illuminates objects at a distance of up to 100m by focusing the beam as the camera zooms, resulting in clear imaging even when the field of view is in total darkness. The ONVIF conformant SNP-6200RH is equipped with Wide Dynamic Range technology for environments where there may be strong contrasting lighting conditions. It is also weatherproof to IP66 as well as IK10 vandal resistant, and can withstand high temperature variations of –50 °C to +55 °C making it ideal for demanding applications.

Bosch Security Systems: Amax

Amax Intrusion Alarm Systems – Simply Reliable

Amax intrusion alarm systems from Bosch are designed to meet the special requirements of homes and small to medium-sized businesses. Thanks to the LCD or LED keypad which features a self-explanatory menu-driven navigation structure the operation of the intrusion alarm systems is extremely easy. Amax panels enable a simple and cost-effective installation due to intelligent default programming of the panel. The panel supports multiple alarm transmission options like communication via telephone network and internet.

3RD PLACE

Abus Security-Center: Ultivest Wireless Alarm System

Plan, Configure and Secure Wireless Alarm System

The Ultivest wireless alarm system goes beyond providing classical alarm components: It combines active burglary protection that links electronic surveillance and mechanical security, access control, IP-based video integration, app remote control and optional connection to the home automation system via KNX. Information and status messages are displayed clearly. Buttons which light up as the situation requires and voice prompts contribute to the ease of use.

SimonsVoss Technologies: Protect Function

Protection in a Flash

SimonsVoss has enhanced its Electronic Locking and Access Control System 3060 with a newly designed protection function. With it, door locking devices can be activated or deactivated in a split second in the event of an emergency. People want to be able to act very swiftly in the event of a fire alarm or attacks on people, such as a shooting incident in a school. This new protection function provides three responses in such emergency situations: a simple press of a button makes it impossible to open a door from the outside – intruders can no longer get inside as a result. By the same token, means of escape can also be immediately provided by pressing the button to deactivate the locking device concerned.

2ND PLACE

3RD PLACE

Advancis: WinGuard

Software Platform to Organize Security

WinGuard is a software platform that integrates several non-connected security systems of different manufacturers, controlling them by a homogeneous user interface. The user is enabled to detect incidences and to resolve them with approved standardized procedures. The most recent version WinGuard X3 is a solution reaching far beyond the common scope of conventional security management systems and additionally offering integration of the complete building and communication technology. The connection to higher-tier mission control systems is another enhancement compared to conventional security management. Procedures automatically initiated by the system and dynamic workflows support the user in event handling.

APPLY RIGHT NOW

DEADLINE

MARCH 31, 2014

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Yes, you are right. Although we have just announced the winners of this years GIT SECURITY AWARD, we would like to invite all providers of security and safety products to join in the competition for GIT SECURITY AWARD 2015 already now. As we want to present the winner of the GIT SECURITY AWARD 2015 next year at the Security Essen show in September, we will therefore change the time schedule: Please apply for GIT SECURITY AWARD 2015, already until March 31 and submit your product entry.

The Categories

A – Safe Automation

B – Fire and Explosion Protection, Industrial Safety

C – CCTV

D – Access Control, Intruder Alarm, Perimeter Protection

E – Safety and Security Management

Participation conditions and registration see here: www.PRO-4-PRO.com/en/Safety-Security/secaward2015

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INSTINCT TO PROTECT

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apollo
WORLD CLASS FIRE SOLUTIONS

Werner Wagner, Managing Director and founder of the Wagner Group, presents Uwe Ladwig, Head of Fire Detection Systems at Bosch Sicherheitssysteme, with a glazed air sampling smoke detector as a thank-you for ten years of joint success in the field of early fire detection

COOPERATION

Joint Success

Bosch Celebrates 10 year Cooperation with Wagner

Bosch and Wagner celebrated 10 years of successful cooperation in air sampling smoke detector systems on 23 September 2013 in Langenhagen. The program also included the presentation of a technological innovation, the latest milestone in fire detection.

In 2001, Wagner decided to use the decades of experience it had accumulated in the field of fire protection system applications – from research and development, production and design to system integration – to develop a new technology in very early fire detection. Reliable and highly sensitive very early fire detection is a necessity for particularly complex operational environments with high security requirements. In order to provide this, the company reached a milestone in the field of air sampling smoke detectors with the Titanus range, which was first introduced 12 years ago. The patented Logic·Sens signal processing system checks the air samples from the protected area and reliably compares them to established fire characteristic patterns making it capable of recognizing even the smallest pyrolysis particles as a fire. This range is VdS approved, complies with the EN 54-20 directive and other international standards.

Bosch Sicherheitssysteme made a major advancement in the worldwide technological leadership in the field of early fire detection using air sampling smoke detectors when it included Wagner air sampling smoke detectors in its standard range of fire protection systems in 2003. Uwe Ladwig, Head of Fire Detection Systems at Bosch, stated the following about the partnership: „We consider Wagner to be a reliable and long-standing supplier of state-of-the-art fire protection technology. Thanks to our close collaboration, we have managed to complete many challenging international projects with technologically progressive concepts. Our objective is to offer our customers an optimal solution with the best components available on

Attendees of the 10-year anniversary in Langenhagen near Hanover included: from left to right: Felix Heck (Wagner Products), Sören Wittmann (Bosch), Thomas Knauel (Bosch), Uwe Ladwig (Bosch), Robert Guggina (Wagner Products), Werner Wagner, Christian Lechner (Wagner Products) and Torsten Wagner

Torsten Wagner, Managing Director of the Wagner Group, presents the latest technology in early fire detection: It sets itself apart with its intelligent detection, as it can recognize and analyze important disturbance variables during very early smoke detection. This significantly increases false alarm immunity and enables the development of new protection concepts

the market. In dialogue with Wagner, we continuously expand our range and are now developing solutions to fulfill tomorrow`s customer requirements."

Latest Milestone

As part of its international sales activities, Wagner supports its OEM partner with professional training, design assistance and project support for national and international projects. As part of further product development, it has also succeeded in integrating Bosch LSNi technology in its air sampling smoke detection system. The advantage: the air sampling smoke detection system can be connected directly to the modular Bosch 5000 series central fire panel and the information on faults, alarms, service and maintenance is transmitted via the LSNi bus system network. The detectors can also be configured directly from the control panel via the network.

This global innovation was presented live at the Wagner World during the 10-year anniversary celebration on 23.09.2013: „Our newly developed technology is based on our solution approach 'We will tell you what's burning and what isn't'" says Torsten Wagner, Managing Director of the Wagner Group, who is also in charge of research and development. For the first time, the specific fire patterns of materials for each customer can be defined and recognized by the technology. For example, the detection function can differentiate between cigarette smoke, dust, beech wood, PVC and cardboard. Torsten Wagner explained: „At the same time, the knowledge gained on what is burning makes it possible to define new protection concepts in order to take the appropriate effective countermeasures. As such, the staff can simply be informed of cigarette smoke, instead of the fire brigade being called in."

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Sensor Performance Improved

Hochiki Europe has launched three sensors: The ALN-EN, ATJ-EN and ACC-EN devices have a number of features that improve functionality and reduce false and unwanted alarms – making them particularly intelligent. Replacing the ALG-EN photoelectric smoke sensor, the ALN-EN builds on its incredible success by further refining the responsiveness of the company's High Performance Chamber Technology. Its design minimizes the differences in sensitivity experienced in flaming and smoldering fires, providing an optical chamber that is equally reactive to all smoke types and which greatly reduces the possibility of false alarms. The ACB-E heat sensor has been superseded by the ATJ-EN, which incorporates a variable temperature heat element as well as a rate of rise heat element – both of which can be managed from a control panel. This allows either element, or both simultaneously, to play an active part in making the alarm decision. Last but certainly not least, the ACC-EN has taken over from the ever-popular ACA-E as the company's flagship multi-sensor. It features three modes, allowing the optical element, the thermal element or both to be active. Like the ALN-EN it also has the distinct advantage of utilizing High Performance Chamber Technology. All three devices are fully compatible with the Company's Enhanced Systems Protocol (ESP) – a robust addressable communications solution for intelligent fire detection. In addition, they offer increased noise immunity and a number of software advances. To help with identification, newly designed ergonomic outer covers come with 'at-a-glance' marking – unmarked denotes smoke, one ring heat and two rings indicate it is a multi-sensor. Each device is fully backwards compatible with its predecessor, ensuring a seamless transition if products need to be retrofitted into an existing system. What's more, the chambers can easily be removed or replaced for easy maintenance, while EN54 and LPCB third-party approvals, alongside VdS and SIL verifications rubber-stamp their credentials.

www.hochikieurope.com

FIRE DETECTION

A Resolution to Reassess

Paul Pope, Business Innovation Manager EMEA at Apollo, suggests that while January might be the time for personal resolutions, building owners and those responsible for fire detection technology should also be making a resolution to review their systems with their installers and specifiers to ensure they're still up to the job.

Paul Pope, Apollo Fire Detectors

So often we hear of sites overhauling their fire detection system because they've become troublesome, unreliable, subject to too many false alarms and are providing poor or no intelligence for the complexities required in modern fire detection and protection systems. It seems a shame, however, that this overhaul only takes place when fire detection systems are starting to creak at the edges, cost money and are generally failing to deliver. How much time and money could organisations save if we encouraged a more proactive approach to assessing fire detection technology? With this in mind, perhaps it's time we made this year's New Year's resolution about just that – minimising false alarms and maintaining certified fire detection and fire protection measures by overhauling technology that's no longer suited to what it's being asked to deliver.

Why Change?

Take a look around your workplace – what's changed from this time last year? The chances are something will be different. Since January 2013 you may have a new use/risk for a room, more staff, a different building layout and chances are, the requirements for your fire detection system will have also changed and it's something you probably have not even thought about. It's your responsibility to give your fire detection specialists all the information that's needed to ensure that they still have the right fire detection and protection equipment in the right place to protect you.

Choosing the right technology for any environment can significantly reduce the likelihood of false alarms and more importantly the right sensor detection and protection for the risk. Leaving malicious interference to one side, false alarms are usually caused by the fire system reacting exactly as it is designed to do; it will raise an alarm because it has sensed something that it thinks looks like the symptoms of a fire, but is later discovered to have come from a non-fire source. More often than not the technology is rarely to blame – it's the decisions we make to install what we do where we do that is at fault. This is why it's vital that even small changes of use need to be considered (such as an old office becoming a hot drinks station) to help establish whether the fire detection equipment could identify a symptom of fire from a non-fire source.

The Discovery range from Apollo is one example of a product ideally suited to changes such as that above. Each detector has different certified sensitivity settings, so that fire detectors can be 'fine-tuned' to the local environment – so office to drinks station may not need a new detector but a 're-tuning' of the current one to allow for steam produced from a kettle. The five different modes offered on this range are designed to take account of the variations in fire detection requirements, as, for example, the requirements of a cleanroom will be very different from that of a boiler room.

For every scenario there is the right detector: Optical sensors, smoke, carbon monoxide and multisensor detectors can be combined to give a rapid and accurate response ▼

We are fortunate to be in a position where technological advances provide us with a broad scope of detection equipment that can provide coverage in almost every situation. From optical (photo-electric) smoke detectors (which respond particularly well to slow-burning, smouldering fires) to multisensor detectors providing smoke and heat sensors (combining optical readings with temperature change to give a rapid accurate response) the choice is, almost, endless. Combining this with the open protocol approach favoured by some manufacturers, such as Apollo, a subtle change in use in any building presents few challenges.

Fire detection is not a static business, the technology and standards move on, but more importantly, the places it protects, change. It's our responsibility as fire detection experts to ensure that we are always providing the most appropriate needs for each and every one of clients, helping them to minimise needless false alarms and ensure that lives and property continue to be protected. However, this responsibility also extends to you, the site owner, to keep us updated with any changes, so make it your New Year's resolution to review your fire detection needs to continue protecting life and property at your business.

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An Education in Fire Protection for the University of Hertfordshire

In a refit undertaken as part of an upgrade to an existing system, Apollo Fire Detectors is protecting the lives and property of more than 3,400 students housed at the University of Hertfordshire's owned and managed student accommodation.

The College Lane Campus is based at the heart of the University, giving students access to the Students' Union, its entertainment venue – The Forum – as well as teaching rooms and the University's largest Learning Resources Centre. The Fisk Fire Group was tasked with installing Apollo's XP95 range across the campus' communal areas and more than 650 bedrooms.

The Fisk Fire Group is part of Apollo's Partner Plus programme and has worked with Apollo for more than 20 years. The Partner Plus programme enables Apollo and its customers to work in true partnership, ensuring that end users, such as the University of Hertfordshire, receive both a seamless and efficient service, as well as reliable and robust products.

Mark Fisk, director at Fisk Fire, explains more about the University project: "Student accommodation is a very unique and fluid environment: in term time the accommodation is a thriving social environment, whereas during holidays the number of residents reduces significantly. In addition, the communal areas, usually kitchens, can present the risk of false fire alarms, with a host of ‚delicacies' being prepared – some more successful than others! The detectors need to compensate for excess steam and smoke, while still providing appropriate fire detection.

„Having worked with Apollo for more than two decades, we knew that its XP95 range was a good fit for this environment. Like all of Apollo's products, XP95 is an open protocol solution, which means we had full flexibility with regards to the other detection equipment we were installing. Approximately 800 Apollo analogue addressable XP95 detectors were installed throughout the campus. Having addressable detectors allows for quick identification of the alarm's location, which is a necessity in a large site such as the campus. The detectors were easily installed, which meant minimum disruption for students who were on the campus at the time."

Versatile Knitted Gloves for Industry

Ansell launches five new gloves in its Hyflex range of versatile knitted gloves for industry. All integrate one or more of the manufacturer's research innovations. The oil-resistant, high grip 11-927 is a knitted glove with first-to-market performance. Protection from cuts and potentially toxic oil translates to peace of mind for workers; improved grip positively impacts productivity and extreme abrasion resistance lowers the frequency of glove replacement. It is the first knitted glove to combine Ripel Liquid Repellence Technology (that prevents oils or lubricants from making accidental skin contact), and Ansell Grip Technology for a secure grip in oily environments. Highly abrasion- and cut-resistant (EN Level 3), it effectively replaces leather gloves when handling sharp metal components coated in oil or lubricant or assembling engine parts. The glove is recommended for a wide range of applications in the automotive manufacturing, machinery, transportation, and metal fab industries. Even gloves with a good dry grip can become slippery in oily environments, causing cut injuries from sharp parts or tools. The improved grip resulting from

the combination of RIPEL Liquid Repellence Technology, which channels away oils and liquids, and the high-grip finish of Ansell Grip Technology actively contributes to reducing the risk of cut injuries. Poor grip can also reduce workers' confidence, precision and productivity; compensating with extra force can cause hand fatigue and musculoskeletal disorders. The finish of the glove actually minimizes the force needed to grasp greasy or wet objects. Unlike the foam layer of other dipped gloves, which may break through and allow oil to reach the skin, the glove's Ripel coating protects workers from irritation, allergy risk, and toxicity. The durable and comfortable light-duty dipped glove is particularly suited for handling abrasive objects. It features the patent pending Fortix Nitrile Foam Coating that results in extreme durability and abrasion resistance (EN Level 4). The thinness of this layer allows for a flexible, snug-fitting and comfortable glove that can be worn all day. Workers are more likely to accept wearing protective gloves if these feel similar to bare skin. The sensitive, breathable Hyflex 11-840 is intended for manufacturing industries and maintenance tasks. The ultralight 11-818 glove provides the comfort and tactility of bare hands. One of the market's lightest nitrile gloves, it has an impressive abrasion resistance of EN Level 4 thanks to its Fortrix Coating which extends the glove life by up to three times. Freedom of movement is enhanced by Ansell Zons, a modulated knitting technology which reduces the strength required to flex the hand.

www.ansell.com

COVER STORY

Protection, Monitoring – and Smartphones Open Doors

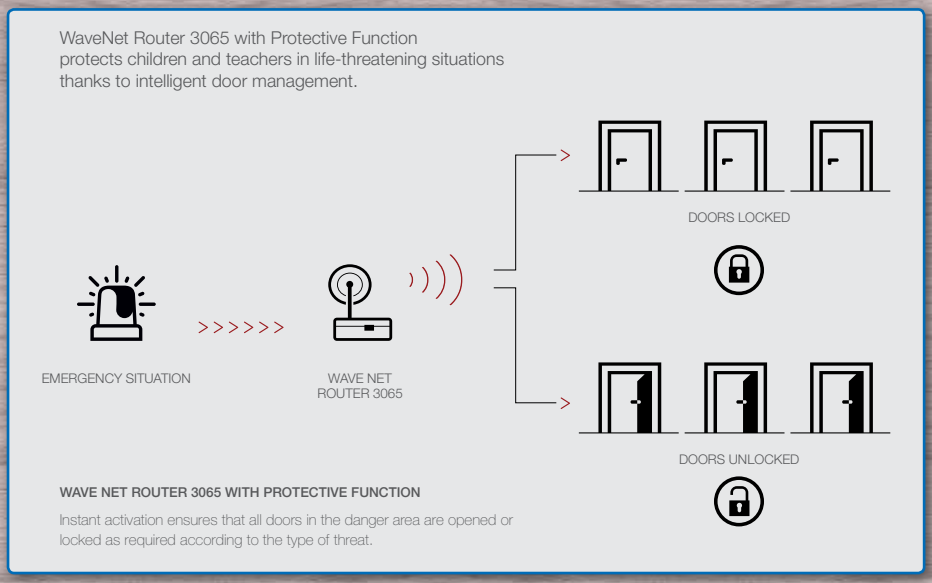
Instant activation or deactivation of locking devices in the event of fire, gunman attack and other emergencies – Door Monitoring in three minutes – Smartphones opening doors: NFC access solution MobileKey from SimonsVoss

SimonsVoss has enhanced its Electronic Locking and Access Control System 3060 with a newly designed protection function. With it, door locking devices can be activated or deactivated in a split second in the event of an emergency. Users and operators of large buildings, particularly those in the public sector and the health care and education sectors, often wish for an additional protection system which can be quickly put to use in critical situations. People want to be able to act very swiftly in the event of a fire alarm or attacks on people, such as a shooting incident in a school.

This new protection function provides three responses in such emergency situations: a simple press of a button makes it impossible to open a door from the outside – intruders can no longer get inside as a result. By the same token, means of escape can also be immediately provided by pressing the button to deactivate the locking device concerned. The system also informs those in charge about the disturbance, fire, gunman attack or other emergency.

Instant Protection by Radio

SimonsVoss has provided this new protect function by extending its WaveNet Router radio net-



Digital Locking Cylinder: three technical innovations

work – by connecting digital locking cylinders with a central computer, for example – to offer additional functions. One single signal can reach up to 249 doors per router. Interlinked in a network, locking devices can thus be activated or deactivated simultaneously using a radio signal. Thanks to radio, the system will still work even if the communications and IT networks are already down.

Depending on the actual nature of the incident, the WaveNet Router can provide the right protection function, such as 'Lock doors in gunman incidents' or 'Release doors in the event of fire.' If there is a gunman in the building, doors to classrooms can be securely locked, for example. If a fire alarm is triggered, System 3060 automatically releases the right doors, opening up the way for people to escape or for help to arrive.

This function can even be retrofitted to existing systems which feature the latest TN4 Generation locking devices at a reasonable price.

Keeping an Eye on the Door: Complete Door Monitoring in Three Minutes

Is the door open or closed? Has it been locked just once or is it double-locked? Is someone trying to break in through the door? Digital Locking Cylinder 3061 can detect all these situations using SimonsVoss door monitoring and report them to a main control centre, where individual status messages for each door are displayed on the Event Agent and can be re-set when required. Probably the smallest integrated door monitoring system in the world, this door monitoring cylinder is installed within three minutes with no need to drill a single hole and without affecting door certification. Just fifteen more minutes and the complete system is ready for operation.

Three SimonsVoss technical innovations interact in this highly integrated door monitoring system: the intelligent fastening screw, the cam sensor and the monitoring logic. Designed to hold the profile cylinder securely in the lock case, the fastening screw is equipped with an intelligent system which can detect whether the door is open or closed or if an authorised person is trying to open the door at any time. The cam sensor detects the position of the dead bolt and whether it has been double-locked or just locked just once.

Digital Locking Cylinder 3061 door monitoring notifies the main control centre of the door status at all times by radio. To do so, it uses SimonsVoss WaveNet radio technology and intelligent G2 protocol functions. The Event Agent in the SimonsVoss software displays status messages and also allows you to filter or re-set messages or take action where required. If the network should crash, no damage is caused. Any information already received is not lost from the cylinder's access list.

Smartphones Now Open Doors: The NFC Access Solution MobileKey from SimonsVoss

Smartphones are the key to our world and never leave our sides. After all, wherever there is reception, we have access to the Internet. However, up until now, the clever little device wasn't smart enough to open an ordinary door with a lock and latch. That's all about to change – thanks to near field communication (NFC). This technology allows information exchange between devices at a very short distance of a few centimetres – this is the way that RFID cards, smart tags and card readers work – and now also smartphones.

The decisive trick in near field communication lies in the active display of the user's intent by

◀ **Access Control System 3060 – now with protection function.**

Cooperation: SimonsVoss and Lenel

SimonsVoss Technologies GmbH has received factory certification from Lenel Systems International for the OnGuard access control system on its Digital Locking and Access Control System 3060. SimonsVoss is officially certified by Lenel as an OpenAccess Alliance Program (OAAP) partner for that solution. Lenel, a market leader in access control security, is a part of UTC Building & Industrial Systems, a unit of United Technologies Corp. SimonsVoss Technologies is based in Unterfoehring near Munich, well known as a dynamic high-tech company. Since the launch of its Digital Locking and Organisation System 3060 in 1998, the company has reinvented the traditionally mechanical field of locking technology to become the European market and technology leader in battery-operated electronic locking and access control systems.

means of a particular, physical act. This consists in his placing his card or NFC-compatible smartphone near to another device. For example, if he wants to open a certain door, he displays this intent by holding his card up to a card reader.

This simple display of the user's intent can now be incorporated into a wide range of applications. We differentiate between three modes:

1. Read (= Reader/Writer Mode)
The smartphone acts like a card reader. This allows people to read, for example, tags, which are small RFID chips, on so-called smart posters. These tags include web links via which people are then redirected to websites where more information on the topic is available.

2. Exchange (= Peer-to-peer Mode)
This mode involves direct, close-proximity communication between two smartphones. For example, this can be used to exchange business cards and play interactive games (social gaming) as well as create Bluetooth and WLAN connections.

3. Work As a Card (= Card Emulation Mode)
In this mode, the smartphone acts like a non-contact smartcard allowing you to use it, for example, as a credit or debit card for payment functions. Public transport ticketing can also be effected via telephone.

The card emulation, in other words the imitation of cards, is now the most interesting mode for access control in particular. Namely because the smartphone can adopt smartcard functions such as Mifare Classic and Mifare DESfire. In other words: a smartphone can open doors in this way.

Ready for the NFC Smartphone Future

The new NFC application from SimonsVoss now makes it possible to make this vision reality for a wide range of practical applications: for example, it can furnish the users' smartphone with access authorisations via mobile phone networks and allow them NFC-based access to the renowned SimonsVoss locks – in other words to digital locking cylinders, digital Smart Handles and digital Smart Relays.

A practical application example: in the past, carers and maintenance personnel had to procure the corresponding keys for their duties from a key depot and return them again afterwards. This was very time consuming and valuable working time was wasted every time.

With the new NFC-based key distribution procedure from SimonsVoss, access authorisations can now be sent directly to the employees' smartphones from the headquarters on a daily basis and, in emergencies, even for limited periods of time. At the place it is used, the mobile phone then communicates with the corresponding SimonsVoss lock components via an NFC interface. If the respective authorisations exist, the doors, gates and barriers are opened.

Access Technology Via App

From a technical perspective, it functions extremely easily from the user's point of view: the users download the SimonsVoss MobileKey app from the Apple Appstore to their iPhone (soon to be available for Android-based smartphones too). The locking systems administrator now assigns the lock authorisations to his users as usual. Whenever something changes for a user with an NFC smartphone, a new smartcard data set (Mifare Classic and in the future also Mifare DESFire) is generated automatically and pushed to a central OTA (over the air) key server.

The user can then collect his daily or hourly lock authorisations simply at the push of a key in his MobileKey app. The keys can be configured by the administrator in such a way that they only work for a specified validity period and then expire again. The corresponding doors can then be opened – when the respective authorisations exist – by simply holding the smartphone to the reader integrated in the lock.

NFC Attachment

As the card emulation, which is important for access control, was not previously supported sufficiently by smartphone manufacturers, SimonsVoss current employs so-called NFC attachments. These are iCartes for iPhone4 and iPhone4S, and microSDs for Android-based phones.

These attachments include the NFC chip for close-proximity communication and a secure element in which all security-critical information such as passwords and access authorisations are stored and cryptological calculations are performed. The procedure demonstrated here is already working reliably for a range of test customers and is set to be launched on the market soon.

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At one time, keys were kept in boxes or drawers with little or no control over who had access to any given key. Even as security systems entered the digital and then the networked world, key control continued to exist separately from other system components and business operations. But as key control is one of the main components of effective access control and overall risk mitigation, it is essential for it to be part of an integrated system. Fortunately, technology developments and new products such as the KeyWatcher have made it possible to integrate key control as part of a facility's networked security system.

KEY MANAGEMENT

Who, Where and When

Control of Key Possession Ensures High Security

Morse Watchman's KeyWatcher Touch

Key management systems can reinforce access control policies that are already in place and can also help to reduce the costs that are associated with lost keys or unmanaged access. It's also important to know that it is never too late – or for that matter, too early – to implement a key control and management plan as part of an overall physical security strategy.

Key control is especially important for end-user markets such as casinos and gaming, correctional facilities, healthcare institutions, hospitality businesses, multi-family buildings and educational facilities. It is also a critical function for anyone overseeing security at conference centers, government agencies, control rooms, automotive businesses and corporate buildings. These users always need to know who has possession of a key and when it was taken. They are markets that have a common need for complete control over their keys, with a system that seamlessly manages and monitors keys and that interoperates with access control and other security systems. However, key control can and should also be applied to all businesses of any size because of the measurable benefits of enhanced security, convenience, increased staff productivity and accountability.

System Interaction

Today, the most advanced key management solutions have open protocols to enable connectivity to access control and other systems provided by a range of integration partners. A system can be connected to edge devices via RS232 or networked via Ethernet. Critical information about key control can now be communicated across multiple systems, enabling additional security action to be taken. For example, a user who has taken a specific key can be denied egress from the facility until the key is returned – and selected management can be alerted via email if a key has not been returned on time.

A key control system with programmable software can enable system managers to establish permission levels for each user, as identified by an assignable PIN code that the user enters on a keypad, with additional access options such as biometric readers available to add another level of security. Managers can monitor data from any desktop connected to the network. Advanced software can run activity reports, sort activities based on various criteria, view and print reports, etc. System managers can generate practical management reports, which trace key movements by time, date and user code, with audit trail reports to indicate the time and date of each key accessed by a user for a given time parameter.

Lockers Too

Physical changes in a facility may also increase the need for a key control system. For instance, a closet that may have once been used only for storing office supplies may now be used for holding more valuable items and should be locked. In some cases, convenience for the security staff can even be substantially increased. For example, changes implemented over the LAN are effective immediately, which can help prevent incidents such as denying access to keys for recently terminated employees. The network connectivity of the system also allows management to remotely release any key, adding to the convenience and inherent safety provided by a key control and management solution.

Building on their widespread use and popularity as a security management tool, key control systems' functionality has been expanded to include custom modules and lockers that can accommodate plastic card keys or other valuable items. Lockers, available in various configurations, can be used for storing credit cards, small firearms, cell phones, two-way radios, laptop computers, tablets, cash trays and so on, and can be managed as efficiently as keys in key control systems.

Locker modules can easily be incorporated into existing key control systems or configured as stand-alone asset management systems. Their operation is identical to a key management system in that only pre-authorized users can access items in the lockers. Items can be returned to any open locker for convenience, and systems can be set up as a personal storage space for one or multiple users. The systems are also engineered to alert security management in case of an incident. An open door, the use of force to gain access, a power failure or even the misuse of the keypad will trigger an alarm and record the event in the log file.

Two Heads Are Better than One

Both key control and asset management systems can be customized with features that help the organization maintain the highest levels of security within their specific industry. To that end, additional security features are available to help maintain the integrity of the system. For example, where protection of the key and asset cabinet itself is mission-critical, installation of a remote access device provides an additional layer of protection by enabling the locker system to be placed in a secure room. A second individual's PIN input and verification is then required in order for an authorized employee to access the contents of a locker. Many of these features are vital contributors to the maintenance of compliance standards for state or federal regulations as well.

All these advanced capabilities can revolutionize the function of key control, transforming it from its historical role as a separate function into its rightful place as a critical component of a cutting-edge security system.

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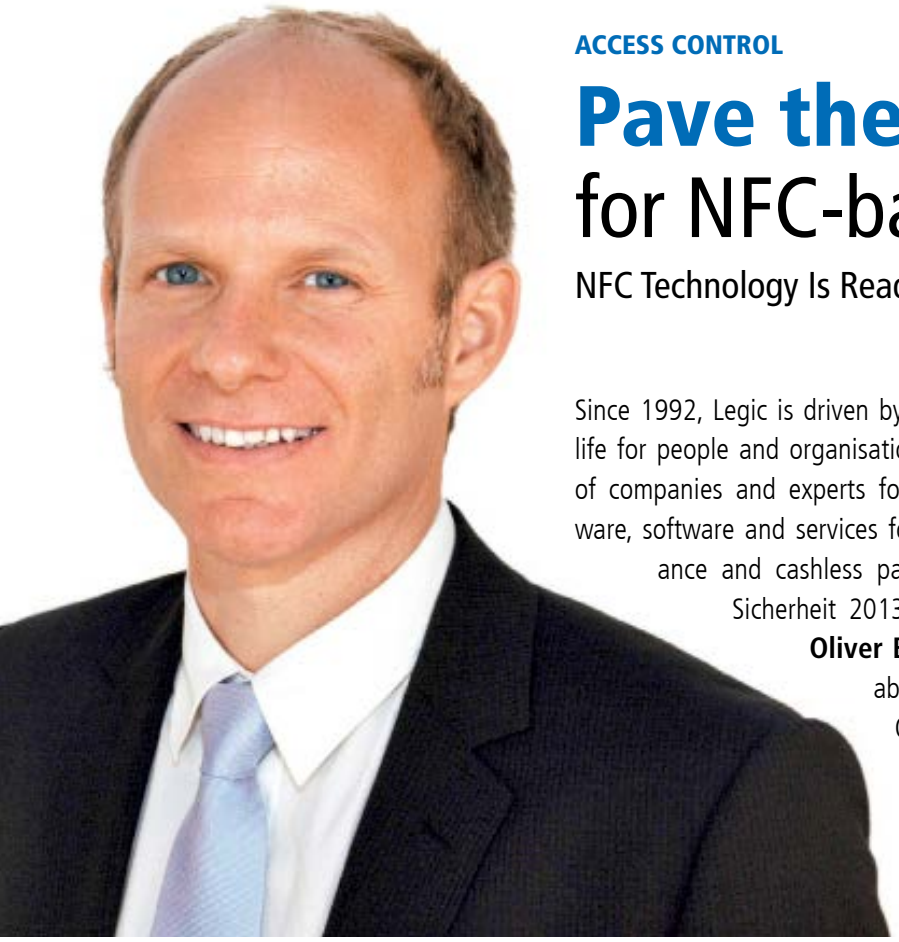

ACCESS CONTROL

Pave the Way for NFC-based ID Services

NFC Technology Is Ready to Play a Major Role in Security

Since 1992, Legic is driven by the vision to enhance a secure and simpler everyday life for people and organisations. The company represents an international network of companies and experts for contactless people identification and designs hardware, software and services for ID applications from access control, time & attendance and cashless payment through to biometrics and eTicketing. At the Sicherheit 2013 trade fair in Zurich, Heiko Baumgartner did talk to **Oliver Burke, Legic's Vice President Corporate Projects**, about three letters that make the headlines again: NFC. Oliver Burke started his smart card career in 1999. His expertise is recognized within the industry and his passion for developing strategies, new markets and regions is well known. Prior to his commitments at Legic, Oliver Burke belonged to the executive management team of Bell ID.

GIT SECURITY: As simple as these three letters NFC may sound, as vast are the possible uses of this technology. What possible usage do you see for NFC in the security field?

Oliver Burke: Near Field Communication now is an internationally recognised technology for the contactless exchange of data. The technology was already making its advance in 2007, only it couldn't assert itself at the time because the mobile telephone industry was occupied trying to find an answer to the iPhone. Right from the start, we believed that this novelty would take hold, which is why Legic made its reader chips in the 2000 and 4000 series NFC-abled as early as 2007. This strategy paid off, and today nearly all smartphones are equipped with NFC and even iPhones can easily become NFC-abled with sleeve solutions. With this technology, smartphones become multi-purpose employee IDs which open doors or pay for snacks. Now it is possible to safely and easily integrate time & attendance recording and access control into the daily business processes using NFC.

The idea of being able to do with a mobile telephone everything you can do with a contactless chip card is not new. What happened on the technology side that made NFC usable for security applications?

Oliver Burke: An important factor was the implementation of mobile ecosystems by Mobile Network Operators (MNOs). Nearly all MNOs have developed so-called MNO Trusted Service Management (TSM) services in recent years, which make it possible to use the SIM as a secure element. This is an important technical pre-requisite for encoding and securely storing security-critical applications such as payment or ID applications in the smartphone. Vodafone, Deutsche Telekom, Telefonica, AT&T, Verizon, Sprint and Swisscom have already adopted these MNO TSMs or will be putting such systems into operation in the near future. In general, MNOs provide a wallet which allows the end user to switch between different NFC services.

What service do you offer your partners to take advantage of the NFC technology for their products and service?

Oliver Burke: We are developing Legic IDConnect, a cloud-based Trusted Service Platform which allows our partners and end users to use contactless card applications via NFC-abled smartphones. We have carried out our own trial to gain feedback in dealing with NFC and got a better idea of end users' experience. With IDConnect we are going a step further. Legic IDConnect automates handling with NFC. It makes using NFC "a walk in the park". Integrators, application providers and end users will be able to easily and securely implement NFC smartphones into their current business processes. IDConnect users are spared from lengthy proceedings and integrations with the different MNOs and this allows broad NFC use in the ID environment.

Can you give us an example for an IDConnect project?

Oliver Burke: In Switzerland, we have just announced the cooperation between Swisscom and Legic. As the biggest Swiss mobile service provider, Swisscom is working hard to develop a platform for NFC services of different card issuers under the name "Tapit". With IDConnect, it is possible to enable all kinds of additional applications on Tapit-smartphones. Furthermore, with Kaba, we have a first partner for access control, hospitality and time & attendance applications. Kaba will link its products to Legic IDConnect and therefore make the usage of NFC for any Kaba customer a matter of a simple product update. This means that users of Kaba solutions can also use their smartphone e.g. to gain access to the building. Kaba was our first partner, but the Legic IDConnect platform is open for other application providers and partners who will gradually be connected.

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A difficult question: How secure is NFC technology?

Oliver Burke: NFC devices can function in three different ways. In the simple reader/writer mode, it is possible for smartphone users to read and write information on a contactless NFC tag. This mode does not contain any secure element, the application's focus is on simply making information available, for example an internet address or a business card.

The NFC Peer-to-Peer mode builds a bidirectional data connection between two NFC devices. This mode relies on the security of the phone apps which want to exchange data. But the card emulation mode works with installed reader infrastructure in the same way as existing cards. In this mode, a high level of security is achieved by using so called secure elements – specially secured chips in the phone.

What are the benefits for the end users that use NFC technology like it is used in your IDConnect projects?

Oliver Burke: They can rely on the existing infrastructure but with improved user-friendliness. As mentioned before, security is improved through quick remote wipe if the phone is lost. Forgotten badges are past, a dynamic, real-time allocation of segments and rights are today's technology. The deletion or alteration of rights via the phone network is secure and extremely easy for the administrators. Imagine how easy it is to give temporary access rights to temporary employees or external workers. Two mouse clicks and the administrator can grant temporary access via a smartphone.

What are the benefits for the end users that use NFC technology?

Oliver Burke: The biggest advantage of NFC is to use existing reader infrastructure but with the improved user-friendliness of a mobile device. The alteration of credentials via the phone network is extremely easy for the administrators. Imagine how easy it is to give temporary access rights to temporary employees or external workers. Two mouse clicks and the administrator can grant temporary access via a smartphone. This also helps to increase security, because credentials could be given on demand-only and could also be disabled remotely after use.

We have to ask again. How secure is this?

Oliver Burke: We use the most secure element of the smartphone – the SIM. The SIM is the No. 1 security element in smartphones. It is the place where the MNO store their information and which is trusted by the banks for their banking transactions.

Oliver Burke

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PERIMETER PROTECTION CONGRESS

Integrated, Practical, Innovative

Focus on Quality in Projects – and Video Security

The Exhibition Centre Nuremberg becomes a security zone again: On 14–15 January 2014, top speakers from industrial companies and planning consultants meet for the second time to discuss optimum outdoor security at the congress parallel to the Perimeter Protection trade fair. The Perimeter Protection Congress is not only intended for planners and manufacturers, but especially for users and installers too.

Dr. Roland Fleck, Managing Director NuernbergMesse, giving a welcome to a Russian Delegation with Vadim Savichev, police lieutenant general, Ministery of the Interior of the Russian Federation ▶

It also offers an interesting knowledge platform for official agencies responsible for outdoor security solutions in commerce, industry and public institutions. The speakers at the congress on the first two days of the exhibition are security managers from large companies, such as Norbert Grebasch from Berlin Brandenburg Airport, who deals with the combination of mechanical and electronic security systems from the user's viewpoint. As in 2012, the congress partner is the Verband für Sicherheitstechnik (VfS – Security Equipment Association).

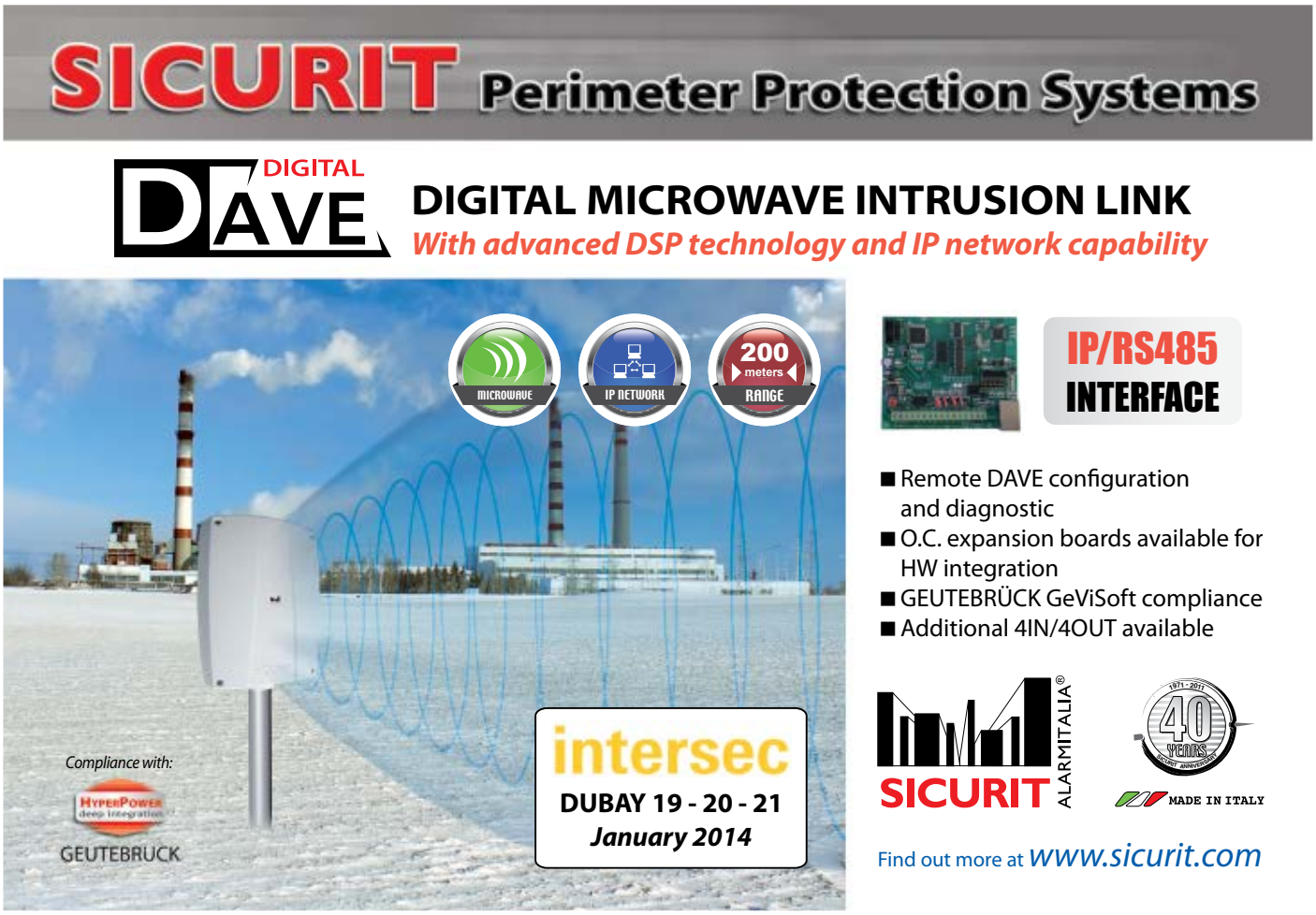
Wilfried Joswig, General Manager of VfS, is currently well occupied with the congress organization: "The preparations for the congress are in full swing. We have already received many confirmations from speakers and an extensive collection of topics, which we are still arranging at the moment." He sees its integrated approach as the special attraction of the Perimeter Protection Congress. Here visitors get information on mechanical and electronic perimeter security and the interaction between the two systems. The congress programme covers all the major fields of perimeter security from risk analysis, planning and contract award regulations to implementation and operation, including general legal liability conditions. Wilfried Joswig adds: "Manufacturers of security systems should also be interested in the users' experience reports on security solutions already implemented and their positive and negative findings. I think these presentations are an ideal opportunity to take up ideas and adapt technologies."

Convincing Variety of Topics Attracts Visitors

One of the focuses at the Perimeter Protection Congress 2014 is on Quality in Projects. Maximum care is essential when planning the perimeter security of a property if expensive follow-up work is to be avoided. The demands imposed on the requirement and contract specifications by land offices will therefore also be a topic at the congress. This plays a key role when manufacturers tender for a contract for the perimeter security of public institutions.

The visitors can also look forward to interesting papers on video systems, which are regarded as one of the most innovative segments of perimeter security. The various presentations will not only deal with new products and improvements, but also discuss energy-saving approaches and their impact on video systems. Thomas Preutenborbeck, Director Exhibitions at NürnbergMesse, sees the congress as an ideal complement to the trade fair: "Visitors find practical solutions for optimum outdoor security at the Perimeter Protection Congress. After the congress they have the opportunity to discuss these directly with the exhibitors and obtain more detailed information. In this way the trade fair and congress form a perfect symbiosis."

The congress programme for 2014 is available for visitors and other interested persons at **www.perimeter-protection.de** and **www.vfs-hh.de**.



PERIMETER PROTECTION

Cost-Saving with Thermal Imaging Cameras

Perimeter Protection of Solar Parks

Spanish security specialist Omega Seguridad has already secured over 20 solar parks across Spain and its neighboring countries. The company always tries to convince its customers to install thermal imaging cameras for perimeter protection and surveillance projects. One recent example is a solar park surveillance project in Sebis, Romania, using FLIR's SR series of surveillance cameras offering high-quality thermal imaging in any night- or daytime environmental conditions. They provide high contrast imagery – optimized to get the most out of video analytics.

Omega Group, based in Sevilla, Spain, offers a comprehensive range of surveillance and security services, including the installation and maintenance of systems and equipment for intrusion and fire detection, CCTV, access control, etc. One of the company's main areas of expertise is perimeter protection of solar parks. As an increasingly important provider of electricity across the globe, solar parks need to be effectively secured. The threats these installations face are the same as for any other energy producing facility: vandalism, sabotage and terrorism. Based on a proven track record for perimeter protection projects across Spain, the company has also been able to offer its expertise to solar park projects in other European countries like Portugal, France, Italy and Romania.

Solar Park Surveillance Project in Romania

For a new solar park, located in Sebis, Arad, Romania, the company installed 22 thermal imaging cameras for perimeter surveillance purposes. The new park is the country's largest and also one of the largest parks in Europe. The park has been developed by Bester Generación, a leader in the renewable energy market, specializing in the promotion, construction, operation and maintenance of infrastructures for the production of clean energy. It stretches across 200 hectares and includes some 72,000 photovoltaic panels, amounting to 15 MW of power. The new solar park is said to ensure the energy needs for around 100,000 people.

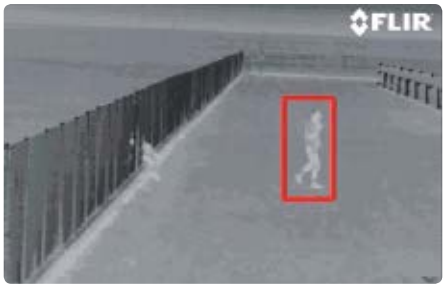
The total perimeter, including two separate confined areas of approximately 2.1 km, could be covered with a total of 22 cameras. On average, this amounts to approximately one thermal camera per 190 meters.

SR series

For this particular project, the company relied on FLIR's SR series of surveillance cameras, offering high quality thermal imaging in any night- or daytime environmental conditions. More specifically they chiefly used the SR-313 camera with 35 mm lens and 320 x 240 resolution, next to the SR-324 camera with 19 mm lens and 320 x 240 resolution. This series of security cameras provides high contrast imagery optimized to get the most out of video analytics software. In this case, video analytics was provided by Spanish company Davantis.

The company usually offers two options for perimeter protection to its customers: CCTV cameras and thermal imaging cameras. Although traditional CCTV systems are effective for security and surveillance applications, they are not able to see in total darkness. As a result, they have to be complemented with additional

Thermal cameras secure the perimeter of the solar plant



Intruders are easily detected at very low false alarm rates

lighting, which again allows the cameras to look at night over a certain distance.

Antonio Millán Fernández, project manager at the company, explains why his company always makes an extra effort to convince the customer to choose thermal imaging cameras: "Thermal cameras can see much farther than traditional CCTV cameras and therefore you need less of them. So in short: less cameras, less issues."

Smaller Investment

Although a thermal camera is still more expensive than a visual video camera, the investment cost for perimeter surveillance will still be lower, since you need fewer camera units. Fewer cameras also mean that there will be less investment required for all camera-related equipment (meaning: all equipment that is needed to get the camera operating properly and to get the video signal onto the control room screen). All these added costs need to be made per camera unit.

By reducing the number of required cameras, thermal imaging allows customers to make significant savings with the camera-related equipment and civil works. On top of that, thermal imaging cameras need no lighting equipment whatsoever and will operate with the same accuracy during night and day. Last but not least, the company calculated that the overall power consumption of a project with traditional CCTV systems is about 50% higher than the power consumption of a project with thermal cameras. This is a considerable saving on the electricity bill of the end user.

"For distances between 60 and 120 meters that would require two conventional cameras, but only one thermal camera, the cost of equipment involved on both systems would be equivalent," comments Enrique Delgado Torres, engineer and project manager. "For distances between 120 and 180 meters where 3 conventional cameras would be required, the equipment associated to the thermal system becomes more economical. Longer distances will make the advantage bigger."

"The more bends and curves a perimeter has, the more camera positions you will need to have a sufficiently good view," comments Vicente Nanclares Ocio, director of the engineering department. "Luckily for us, solar parks generally tend to have straight shapes, so this allows thermal cameras to see even farther than 180 meters."

Better Performance with Thermal Imaging

The lower overall investment is not the only reason why the company prefers thermal imaging for the Sebis project in Romania. Thermal cameras also have a higher accuracy and they generate fewer false alarms, which ultimately results in less frustration and less workload for the control room operator. "Obviously, we no longer experience light-related false alarms," comments Vicente Nanclares Ocio. "Sometimes, car headlights can set off false alarms, but since thermal cameras are unaffected by light, they are also not disturbed by it."

"Thermal cameras also allow us to see better through fog. Sometimes, the fog can be so dense that traditional CCTV cameras are unable to see through it."

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BRANCH FOCUS

Security for Public Transportation

Advances Through Intelligent Systems

Public transport has long been identified as a favoured target for terrorists. The Madrid train bombing in 2004, in which 191 people were killed and 1,800 were wounded, is one recent example. Mass transportation is attractive to terrorists because it is open and fully accessible and carries a high concentration of people into highly populated areas. An attack on transport infrastructure could inflict mass casualties, reduce public confidence in mass transit and could produce a significantly negative effect on the economy. Unfortunately, the large geographical spread of public transport networks makes them difficult to monitor, providing potential spots for other forms of criminal activity such as robbery and damaging. In order to fight terrorist threats and reduce criminal activity more and more video systems are being installed in the public transportation sector and by using video analytics for video systems they have evolved beyond fulfilling basic security needs.

Approaches Beyond the Security Aspect

Advanced features such as traffic monitoring functions and the detection of traffic flows are the most obvious applications. On a basic level, the ability to identify the movement and speed of vehicles that can be used to monitor perimeters and detect suspicious behaviour within defined areas, but video analytics enables video systems to do even more.

We have already seen how valuable flow analysis and how it can be used to improve the retail business processes; to direct the flow of visitors towards attractive products in retail stores helps to lift the sales figures and the public transportation business; to improve the business process and to secure revenue.

With video analytics installed, one can recognize when the flow pattern of a scene is disrupted and record and store the event. Such disruptions can lead to a security problem, but can also disturb the normal operation and lead to queues, customer complaints and delays of transportation vehicles. Flow analysis tools can also help to optimize the flow patterns in busy railway stations, airport and bus terminals by improving the planning of checkout line staffing and providing a long-queue alert in real-time as in the retail market. This helps transportation managers to redeploy staff to the ticketing or information counters.

Video Analysis Helps with Business Performance

However these are not the only ways in which flow analyses can enhance business performance; it can also be used for accounting purposes. Passenger flow can mean cash flow and in a lot of cities the public transportation is not managed by a single enterprise. Public companies, sometimes represented by different regional operators, connect their service with the service of privately owned companies. Within big cities there are several hubs where people can change from one bus to another or from train to bus. For the passenger this often means changing from one service provider to the next, without the need to buy a new ticket and without the need to care whose service they use. A monthly pass for a certain region is convenient for the passenger but complicated for accounting for the business partners offering such a service. An intelligent system can provide a solution to this however as pre-existing camera can be used to monitor passenger flows.

Due to smart virtual tripwire technology used in a modern cameras and video management systems directional counting of incoming and outgoing people with only one camera provides highly accurate and reliable frequency statistics even in complex entry situations. It is possible to detect exactly how many people change from bus line A to B at a hub, making schedule planning and coordination and accounting easier.

To improve bus or railway schedules a variety of tools are available. You can let your passengers fill out surveys and you can go through hundreds of questionnaires. You can count how many passengers use every single train or bus by hand or you can simply analyse your video data with an intelligent system.

Additionally, as in the retail business, you can get more information out of the cameras. Gender analysis and age profiling can assist in product differentiation and are valuable tools to optimize marketing and attract new customers.

Focus on Safe Business Operation

In some new projects recently described in GIT SECURITY like the cover story about the Matterhorn Gotthard Bahn in GIT SECURITY 5/2013 the need for better security on the stations or the fight against vandalism had lower priority. Much more important was the desire to have a better ability to generally provide the passengers with more information on the platforms. The focus was on being able to see even the most remote station at a central point at any time so that staff can react effectively to specific situations and any possible danger. Intelligent systems manage to overcome the hurdle of increasing the information available and enhance the safety of the passengers. The integration of video surveillance with modern passenger information systems no-one has to wait on passenger platform anymore with no idea what to do. In a central control room images of the local situation can be bundled and from there the management can inform passengers with announcements and via the display boards.

Heiko Baumgartner

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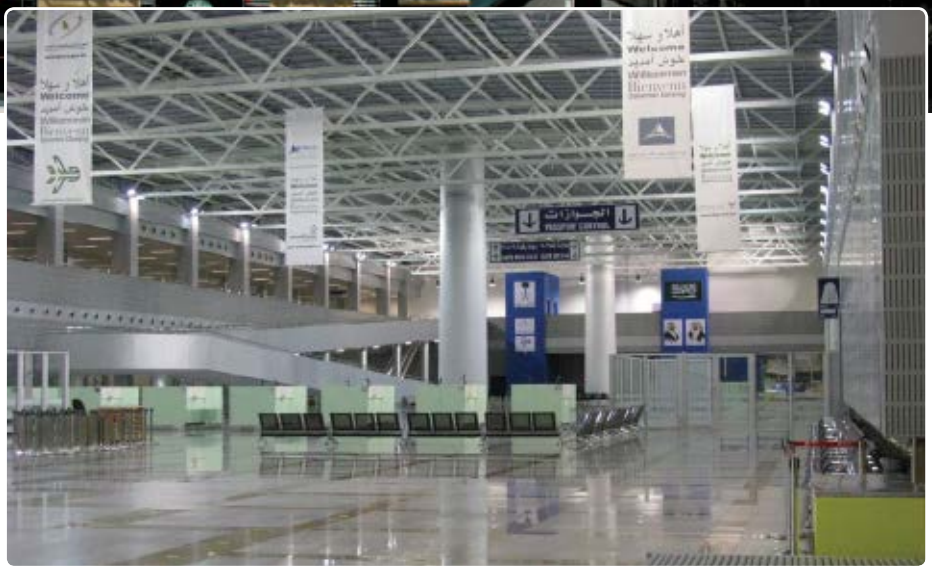

King Abdulaziz International Airport (KAIA) is Saudi Arabia's third largest airport and occupies an area of 105 square kilometers. Because of its proximity to the cities of Mecca and Medina, the airport is the gateway to Saudi Arabia for a large number of visitors from around the world. In 2010 alone, KAIA serviced more than 17 million passengers. Over the past several years, the airport has undergone a series of renovations to enhance passenger service and ensure their safety. A recent challenge was to deploy a high-performance, reliable, and easy-to-use high-definition surveillance solution in KAIA's 13 parking lots, terminal lobbies, retail shops, duty free areas, and restaurants for greater security, more efficient management and to protect travelers and airport assets.

Tasked with selecting a new surveillance system for the airport's public parking, lobbies and shops, Al Musbah, a local provider of security solutions, had one goal in mind. "We wanted a high-performance, reliable, and easy-to-use solution to capture irrefutable evidence for quick and successful investigations," said Adel Safadi, manager of CCTV & Video Analytics Systems at Al Musbah. The ability to take quick action when an incident occurs - whether it's an accident or theft - is a critical factor in reducing disturbances and maintaining high customer service levels. "The Avigilon high-definition surveillance system gives us the tools to review and take appropriate action as quickly and effectively as possible."

A total of 274 Avigilon HD cameras ranging from 1MP to 16MP provide complete coverage of these busy public areas. Eleven 16MP cameras, three 11MP, 29 5MP, 43 2MP, and 31 1MP cameras monitor the 2,000 vehicles that enter and exit the parking lots daily. In the airport's lobbies and all market shop areas, 24 5MP cameras, 44 2MP cameras, and 87 1MP cameras deliver complete coverage. All of these HD cameras are streamed and monitored around the clock in the airport's state-of-the-art control room. Security personnel manage the high-definition surveillance system using the company's Control Center Enterprise network video management software (NVMS) with High-Definition Stream Management (HDSM), which was built from the ground up to manage high-definition surveillance video.

Security on a Plate

"We are mandated to provide the most accurate evidence possible to local law enforcement to assist in their investigations," explained Safadi.

With the Avigilon Control Center and High-Definition Stream Management security officers have access to all cameras on very little bandwidth

HD video delivers far greater detail enabling security personnel to make rapid and accurate decisions

The system is also used by the airport director to provide higher efficiencies for KAIA management, as well as airport police who now have another connection to secure passengers and identify suspicious objects or banned vehicles. "The two parties and other agencies are so impressed with the image quality that they have requested direct access to this high-definition surveillance system to expedite their efforts." Since high-definition video delivers far greater detail, security personnel can make rapid and accurate decisions. In the parking lots, security personnel can read license plates and capture facial details any time of the day or night, no matter how congested an area. "We can even capture license plate numbers when the car's headlights are facing the cameras," added Safadi.

Delivering such high quality images, the Avigilon high-definition surveillance system has also proven useful as a management tool in the duty free shops where it is used not only for customer protection and crime prevention, but also as a tool to monitor inventory levels and ensure best practices. "We can keep track of stock levels and monitor customer service to deliver the best retail experience possible."

Minimum Bandwidth

While very impressed with the image quality, the airport was initially concerned that bandwidth requirements would be too high. Al Musbah wanted to ensure that the system installed could efficiently manage the transmission and display of high-definition video, so the benefit of the additional detail would not be lost. Using the Control Center's HDSM technology and grouping the cameras to form a sub-network that connects to the high bandwidth fiber network, Safadi was able to easily overcome any concerns. The HDSM system only sends the requested pixels, so the workstation does not become overwhelmed with processing unnecessary data. "Security officers are able to navigate through the 274 cameras easily on very little bandwidth," said Safadi. "The use of JPEG2000 compression gave us the ability to view multiple cameras on very little processing power at the viewing station, while still maintaining excellent image quality."

Security staff can view live footage and playback video at the same time using the Avigilon Control Center software, while managing multiple megapixel cameras seamlessly in fast forward and review mode. "We can retrieve superior evidence at a phenomenal speed – the search capabilities are wonderful," noted Safadi. The ability to zoom into points of interest while maintaining a full live view of the overall scene has also proven to be a great advantage. "We have four local and six remote operators, all of whom can zoom into a different scene within the same 16MP camera – something that is impossible with a mechanical PTZ."

Arresting Images

Airport security personnel have improved the success of their investigations since installing this high-definition surveillance system. In one case, Safadi was able to easily and quickly retrieve multiple clips from a range of cameras to provide local police with a video of an alleged thief as he entered the airport, committed the theft, and left. "We were able to provide police with the complete story, which quickly led to the suspect's arrest," commented Safadi. "The police were very impressed with the video quality and speed with which they received it."

Al Musbah selected the Avigilon high-definition surveillance system to monitor the parking lots and duty free shops for a number of reasons, but largely for its ability to capture, review, and store high quality footage to facilitate investigations. Convinced by the system's performance, ease-of-use, and reliability, and impressed by the company's support, the airport is hoping to expand the system to cover other key areas. "The system has not only surpassed our performance expectations, it has also proven to be a very cost-effective way to secure our site," concluded Safadi. "By installing this high-definition system, we were able to reduce the number of cameras required from 2,300 analog-based cameras to just 274 Avigilon HD cameras, saving us a lot in installation and labor costs."

▶ CONTACT

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SECURITY FOR PUBLIC TRANSPORTATION

Transport Security Expo 2013

A Window onto High-tech Security Solutions for Air, Sea & Public Transport & the Supply Chain

As national borders increasingly dissolve across Europe, with the result that goods and people, including international terrorists, renegades and criminals, can move around with greater freedom than ever, the issue of transport security has been pushed right up the agenda by most governments.

Accordingly almost 4,000 visitors came along to Transport Security Expo 2013 at London Olympia 2 in mid-November, keen to see over 100 exhibition stands showcasing the latest high-tech systems for explosives detection, perimeter security, access control, CCTV, systems integration and more, all in the cause of aviation, maritime, public transport and supply chain security. Incorporated in the two-day event were conferences on Aviation, Maritime and Public Transport Security, as well as 40 Technology Workshops and a Meet-The-Buyer Programme.

Among the exhibitors catching the eye were familiar names ranging from ARINC, Audax, Avigilon, Axis Communications, Cochrane UK, Everfocus Electronics, Gallagher Security, Indigovision and L-3 Security to Morse Watchmans, Navtech Radar, OptaSense, Panasonic, Pelco, Rapiscan Systems, Scanna MSC, Smiths Detection, Varian and Vivotek.

Practical Information plus Product Demonstrations

VidSys Sales Director for the EMEA region, James Whybrow, conducted a fascinating Workshop session to evaluate how integration technologies such as the company's Physical Security Information Management (PSIM) software can reduce costs and improve security for aviation authorities.

Deployed to run the operations centres of public sector agencies and enterprises around the world, the PSIM software platform was demonstrated to an attentive audience at the ARINC booth. By leveraging mobile devices, PSIM also provides instant situational awareness and mission-critical intelligence to first responders, senior executives and other authorised parties. Its latest Release 7.5 provides increased flexibility and customisation for an enriched experience for both administrators and security operators. The updated features – including mapping enhancements, advanced search capabilities and other operational enhancements – will help users more easily manage and respond to events, allowing for better situation management and improved response times.

VidSys PSIM software 7.5 also offers new geocoding functionality, enabling operators to identify locations of interest based on address look-up for faster situational awareness. In ad-

dition, realtime collaboration is now enabled between multiple users or agencies.

Staying with the theme of integration, Gallagher Security presented its integrated approach to access control and perimeter security through a number of updated and recently launched products. These included new functionalities for the V7.10 Command Centre system, which resides on an organisation's IT network and brings together electronic access control, intruder alarms supervision, perimeter security and compliance management on a single scalable platform, providing situational awareness together with comprehensive command-and-control. Gallagher also displayed the recently introduced K20 Tensioner Link system – a perimeter fence hardware solution, and the Z10 Tension Sensor system – a fence wire disturbance detector that significantly reduces false alarms.

Exhibition Gets Bigger and Bigger

Elsewhere the transportation solutions from Axis Communications demonstrated crystal clear images both in real time and recordings, making it possible to access relevant information from anywhere, at any time.

Meanwhile Audax unveiled its latest capability at the forefront of mobile, digital, evidence-gathering with body-worn video (BWV). The use of BWV can dramatically enhance the gathering of primary evidence and can for instance record everything that a police officer may see and hear.

Rapiscan Systems showed its range of screening solutions for customs and border protection, including scanning vehicles at crossings, containers at seaports or baggage at airports.

Amongst the Olympia stand-holders who were also at Defence & Security Equipment International at London's ExCeL Centre in September (see GIT SECURITY, November 2013 Issue, pages 22-23) was OptaSense with its distributed fibre optic acoustic sensing technology. This delivers realtime information on threats to long, dispersed assets such as oil pipelines and railway infrastructure vulnerable to illicit incursions, but can equally monitor movement around borders and airports.

Then, of particular interest among new names were the security seal solutions of Tyden-Brooks, celebrating its 140th anniversary this year. To minimise risk and prevent theft, its range of products were on display for securing trucks, air and sea freight containers, bags and tote boxes. Much attention focussed on its advanced seals for containers and cargo – the globally cellular-enabled GlobalTrak Krateus electronic bolt seal and the Hyperion RFID e-seal.

Such has been the success and steady growth of the Transport Security Expo that the Exhibition and Conference is moving from three floors of Olympia 2 to a single floor at the adjacent and far larger Olympia National Hall for the next event running from 2nd to 3rd December 2014. So don't miss it!

Oliver Haines

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Theft Prevention

American Dynamics, part of the Security Products business unit of Tyco, introduced the latest version of its Videoedge VMS which includes critical new features to help prevent crime and more effectively monitor active, high-traffic environments. Through analysis of the challenges facing security professionals in very active environments, American Dynamics identified critical features that are important to ensure the safety of patrons and employees, whilst securing company property. In retail, for example, loss prevention professionals require

reliable video analytics and integration with Point of Sale systems that provide real-time access to intelligence to help pinpoint suspicious transactions backed up by indisputable video. The company's system provides these results in seconds, allowing retailers to run exception reports and visualize the data to realize a sharp decrease in theft.

www.americandynamics.net

Thermal Imaging Binoculars

Ticam 750 from Thermoteknix is a range of lightweight, military specification handheld devices for reconnaissance, border security, target acquisition, counter drug operations, police surveillance, force protection, and general situational awareness in the field. The instruments will detect a man at over two kilometers. At the heart of the device is the manufacturer's Microcam, the lowest power-consuming thermal imaging module in its class giving up to eight hours continuous field operation from 4 x AA batteries without the

need for cumbersome external batteries or battery packs. Optional features include GPS, Digital Magnetic Compass, laser target marker, video recording facility and x2 telephoto (150mm) optics. Medium and long range models are available.

enquiries@thermoteknix.com

Students and local residents will feel safer as Samsung Techwin DVRs are at the heart of new CCTV systems installed by Link CCTV Systems at eight University of London Halls of Residence buildings. As well as the cameras, a new control room has been set up.

VIDEO SURVEILLANCE

Keeping an Eye on Students

CCTV Upgrade at the University of London

The University of London is one of the largest and most diverse universities in the UK. Established by Royal Charter in 1836, the University is recognized globally as a world leader in Higher Education. It consists of 18 self-governing Colleges of outstanding reputation, together with a range of prestigious Central Academic Bodies and Activities.

The new CCTV systems provide fixed static camera monitoring of all points of entry/exit and security reception areas, with the captured high resolution images recorded in real time and stored at full frame rate for 31 days on Samsung SRD-1670DC Digital Video Recorders (DVRs).

Scope

The CCTV project was driven by on-site total facilities management (TFM) provider, Balfour Beatty Work Place (BBW) which manages 31 buildings for the University, including the eight Halls of Residence buildings and a large external precinct in the Bloomsbury area, which provides access routes to several Colleges within the area, including SOAS and Birkbeck. TFM services are provided to sites across the University of London's entire estate. The dedicated team, working with the University's FM team, delivers a full range of services, including mechanical and electrical maintenance, grounds, security, reception, mail and cleaning.

Of the 31 buildings that are managed, 14 buildings and the external precinct area were already covered by existing CCTV systems. With the safety and security of its students, visitors and guests being of prime importance, the University took the decision to embark on an improvement plan that would address any shortcomings in the existing systems and to introduce time-saving efficiencies.

Winning Bid

The TFM provider, under instruction from the University, put this improvement work out to tender and independent CCTV technology specialists Link CCTV Systems won the contract to project manage the operation, from survey and design through to installation and maintenance.

The brief was to increase CCTV coverage by providing fixed detailed views of all points of entry/exit and security reception areas and to improve the quality of the live and recorded images. At the same time, the company was tasked to improve the safety and security to the Halls of Residence buildings by way of enabling building management and security staff to remotely view high-quality live and recorded CCTV images and

The images are available for the University of London Building Management teams and Balfour Beatty WorkPlace security team

as such, remove the need to visit each site to review footage of any incidents.

Monitoring the Activity

Link CCTV Systems was also awarded the contract to project manage the relocation of the University of London's CCTV control room from Senate House in Malet Street to Stewart House in Russell Square. The existing control room was due for refurbishment and this provided an opportunity to invest for the future and upgrade the CCTV system and associated equipment, enabling the University to have a platform for growth whilst ensuring the needs of all stakeholders and students were met.

The company designed operators' workstations and a supervisor's desk for the new location in Stewart House, as well as deploying a new CCTV control room monitor display. The company also migrated all the existing CCTV cameras to the new control room. Once again, high-performance 'real time' digital recording equipment played a key role in the solution by providing real time recorded images for all precinct and local building cameras.

Camera Technology

The camera is able to simultaneously record in real time high-quality 4CIF images across all of its 16 channels. It has the capacity for five SATA HDDs, offering the potential for a massive 10TB of on-board storage and utilizes H.264 compression to minimize bandwidth requirements whilst maintaining high image quality. It can also if required record audio across all channels and has USB ports for easy export of video.

Utilizing an existing high performance site-wide LAN, the live and recorded images are available for the University of London Building Management teams and BBW security team, by using Samsung's Net-i Ware or SmartViewer software. By simply clicking on one of the multiple layered maps, relevant camera images can be displayed on the monitor wall or local operator's console.

Spot the Difference

The existing control room was very small, enclosed and ineffective compared to the well-designed new facility which is light, airy and spacious, and provides a platform for growth and the potential to move forward to 24-hour surveillance.

During the relocation the technology specialists supplied and installed more than 90 cameras in Senate House, Stewart House and the precinct areas, and in the process diverted approximately 400m of cabling while encountering issues such as Listed Building status, accessing cabling in underground tunnels and the logistics of moving men and equipment between buildings 400 m apart.

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360-degree High Definition Camera

Samsung's SNF-7010 360-degree 3 megapixel camera provides users with the option of selecting from a number of display options including 360-degree fisheye, single and double panorama, quad, rectangle or user selectable region. "360-degree cameras are increasingly being specified for projects where there is a requirement to monitor activity 24/7 in environments such as banks, offices, retail and warehouses," said IP Product Manager Tim Biddulph. "The advantage they offer is that a single 360-degree camera is all that might be needed to efficiently and cost effectively cover a whole area where a much larger number of standard cameras might normally be required to avoid any blind spots. With no moving parts, savings can also be achieved on maintenance costs." The ONVIF compliant camera, which features a digital PTZ, utilises Progressive Scan technology to provide sharp edges on moving subjects and vehicles. It supports up to six streams of videos using either H.264 and MJPEG compression formats, providing the option to simultaneously transmit images to multiple locations at various frame rates.

STEsecurity@samsung.com

Mini Dome Cameras

Iqinvision announced the release of the next generation of its Iqeye Alliance-mini HD Megapixel series of cameras. It not only includes the increased processing power needed to run analytics or VMS applications at the edge, it also features WDR, on-camera storage, and true day/night capability. Available in H.264 vandal dome models with support for HD720p, HD1,080p, and 3MP resolutions (5MP coming Q1 2014). The cameras deliver the highest quality megapixel images with the lowest bandwidth demands. Both ONVIF and PSIA compliant, this line of cameras has been designed for a wide range of indoor applications and works seamlessly with all leading NVR/VMS providers. It comes standard with both beige and black trim rings for aesthetics and convenience.

sales@iqeye.com

Miniature Video Server

Vivotek launched its miniature H.264 1-CH video server VS8100. With its compact size and power sharing feature, it is an option for front-end installations and discreet surveillance applications, such as homes, offices, retail stores, banks, and city surveillance, allowing for easy migration from an analog to digital surveillance system. The company's video servers act as a reliable and user-friendly facilitator for the transition from CCTV to IP-Based Surveillance. Data received from analog cameras can be encoded by the manufacturer's self developed codec system and broadcast via an IP network for monitoring and recording. The server's compact size, no larger than that of a human finger, means that minimal footprint is required to deploy the technology in a variety of applications. **www.vivotek.com**

Stable Wireless Connections

Moxa's Safetynet p certified Dual-Radio Wireless Access Point/Bridge/Client AWK-5222 is a flexible and reliable solution for industrial wireless networks. With two independent radio modules the compliant AWK-5222 supports various wireless configurations and applications. Especially the Company owned radio redundancy mode that increases the reliability of the entire network by sending redundant packet data across different frequencies allows for stable radio communication. The system offers two radio modules that enable two independent wireless connections. Due to the dual band radio cards, both support the IEEE 802.11a/b/g standards and enable maximum flexibility. For example, in radio redundancy mode a packet can be sent parallel on 2.4GHz and 5GHz. This virtually makes the wireless system immune against interference. **www.moxa.com**

Printer Line

HID Global has added an entry-level model to its Fargo Direct-to-Card (DTC) printer line that provides an easy-to-use, plug-and-play, more affordable solution for printing credentials with low per-card issuance costs. It is designed for small- and medium-sized businesses, retail organizations and educational institutions who want to eliminate the long waits, shipping charges and issues around flexibility of outsourcing their credential issuance needs to a service bureau. The printer includes everything that is required to quickly and easily create full-color, personalized credentials, without having to buy or install any additional components, accessories or software. The compact printer is designed with simplicity and efficiency in mind, and includes features such as an all-in-one printer ribbon and card-cleaning cartridge that is easy to replace and reload when required. **www.hidglobal.com**

Nedap Expands Network in Kuwait

Nedap Security Management has expanded their business partner network in Kuwait with Gulfnet Communications Company. Both partners aim to working together on multiple projects in the Kuwaiti market in the years to come. American University School has been one of the projects that both companies have successfully cooperated on in 2013. With this new partner the Company seeks to expand its business and service network in the Middle East region, contributing to deliver implementation of their security management platform Aeos. **www.nedap.com**

Extreme Radar

At Intersec 2014, Navtech Radar will showcase its Advanceguard AGS1600 Extreme radar, suited for temperatures from –40 °C to +65 °C, with an explosion proof option, providing a sophisticated wide-area detection and monitoring solution for Petrochemical Industries. It is specifically developed to cope with the environmental and climate conditions found in oil & gas exploration and production. The solution will be showcased with the company's advanced control software suite, Witness, at the exhibition in Dubai, UAE. The company will also demonstrate wide area surveillance for airports. The latest airport projects completed includes Bristol Airport in the UK and Valencia Airport in Spain.

sales@navtechradar.com

Video Management

The ION Series servers from Iomnis Surveillance Solutions have been specifically engineered to deliver the functionality of Onssi's Ocularis PS Video Management System (VMS). It is available in two versions: one that accommodates up to 26 IP cameras, and a hybrid version that accommodates up to 26 cameras with an on-board encoder to directly connect as many as 16 analog cameras. Both units come preconfigured with 16 camera licenses that are transferable, at no additional cost, from analog to IP cameras on the hybrid version. The integrated system is easily scalable to any size by adding ION Series servers. The full featured VMS comes with PSIM functionality including centralized management of physical security, content analytic and other systems at multiple sites. It also includes Ocularis Web and Mobile clients to provide remote monitoring and control of up to 16 live or recorded video streams in real-time, at full frame rates, over limited bandwidth.

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IP Video 2 Wire Network Extender

Nitek's EL1551U is a transmitter-receiver system which extends 100Mbps of Ethernet communication over a single pair of communication wires up to 460 meters. It is a component of the company's Etherstretch product line that turns any ordinary pair of wires, such as UTP or any 2 conductor cable into a high speed network communication path. The system is transparent to the network and requires very little installation time, with no setup or configuration needed. Simply connect your network devices to the network ports of the transmitter and receiver along with existing cabling and the system begins communicating. The system is suited for upgrading analog UTP video balun systems to IP systems without needing to replace or even disturb the existing cable infrastructure. **www.nitek.net**

Compact Mini Box Camera

With a mere 50mm width and a weight from only 180g inclusive of the cable, the MDF4220HD from Dallmeier is a real space saver. The mini box camera with a 1.3 megapixel CMOS image sensor provides HD video in real-time (720p/30), using the H.264 codec. The MDF4220HD is a hybrid camera which can send HD video over IP and analogue SD video via BNC simultaneously. Equipped with a 1/4" tripod socket located on the top and bottom side, the MDF4220HD fits all standard brackets with UNC threaded screws. Due to its extremely compact design and the included mounting brackets, the mini box camera is also ideally suited for installations in automated teller machines (ATMs). The camera is characterized by its Wide Dynamic Range (WDR) and ability to capture images with highest colour fidelity and superb detail reproduction even in scenes with a wide range of contrast and strong backlighting. The excellent low light performance also provides for clear and low noise images even in low light conditions.

www.dallmeier.com

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

Security Management

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CCTV, system solution, system integration, video monitoring security, building management

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Security Management

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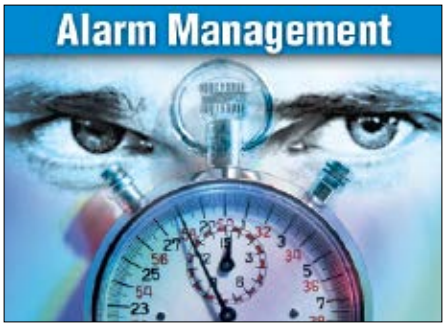

Alarm Management

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Video Technology

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

Video Technology

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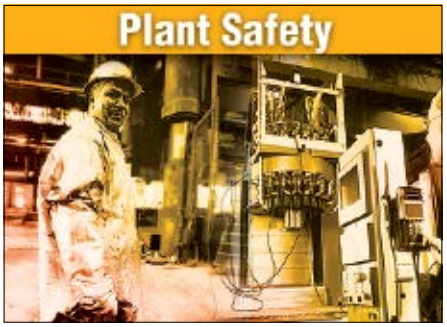

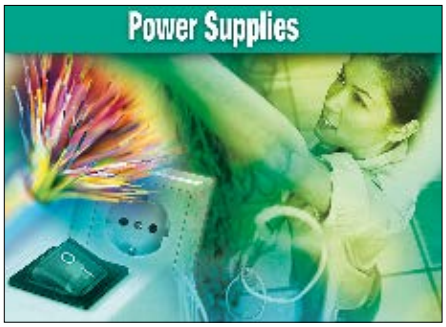

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