

Volume 9
May 2013

GIT

EMEA Edition

SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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Access Control Systems

Facades and Fire Protection

Camera Lenses

Perimeter Protection

Work Safety

Security for Production Sites

IFSEC 2013

COVER: SimonsVoss - 3060 Access Control System Rapid (De)Activation of Locks in Emergency Situations

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Fujinon 360° panomorph lenses

NEW

5 megapixel resolution for day/night



Please visit us in Birmingham
IFSEC, Hall 5 Booth E25
May 13-16, 2013

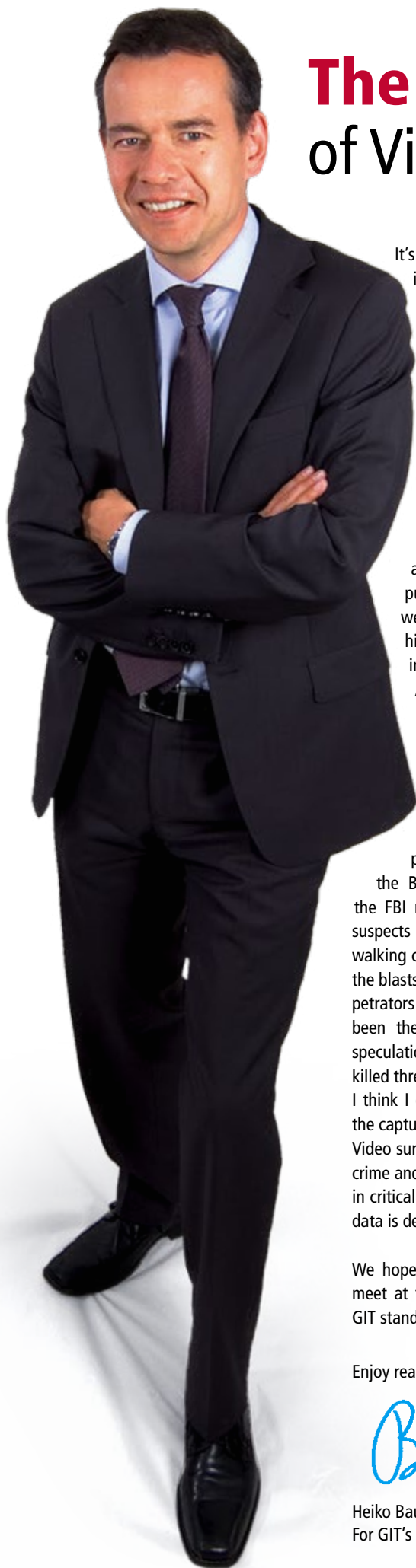


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The Power of Video



It's not easy to stay calm and continue doing business when one is confronted with pictures and news like the ones we saw about the Boston Marathon bombings. I am sure many of you have attended or participated in sport events similar to the Boston event and we all can imagine the pain of the victims and their relatives.

As security experts we know how difficult it is to protect big public events. No matter what measurements are taken, events will never be a 100% safe and secure. In a lot of countries critics of public video surveillance say that the price we pay for public video surveillance is higher than the benefit we get by capturing some shoplifters.

At a time when citizens willingly deal with pieces of their privacy every day as a trade-off for small conveniences, among them the ability to pay for purchases with credit cards and to use social media platforms, I doubt that the price for video surveillance in public areas is too high. The key to solve the Boston Marathon bombings was when the FBI released video and photos of the two suspects who were seen carrying backpacks and walking casually among spectators shortly before the blasts. The photos put faces on suspected perpetrators whose identity and whereabouts have been the subject of endless, often erroneous, speculation since the remotely detonated bombs killed three people and injured 176.

I think I don't need to point out how important the capture of the killers is to prevent more terror. Video surveillance definitively is a tool to prevent crime and the price people pay for being watched in critical public areas is close to zero if the video data is deleted after a fixed interval.

We hope that we will have the opportunity to meet at this year's IFSEC in Birmingham at the GIT stand in hall 4 at stand H130.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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The RFID Company



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NO PATCHWORK!

IN SECURITY SOLUTIONS



Don't accept any patchwork in your video security system. Instead, rely on a tailor-made solution with components from a single source. In capturing, recording, analyzing, evaluating and documenting our products set new benchmarks for quality, reliability and functionality. They are perfectly matched with each other so that you can work professionally with professional products. Quality from a single source, made in Germany. www.geutebrueck.com

GEUTEBRÜCK

Competence in Video Security

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Successful Sicurezza



Sicurezza, the two-yearly international event in Italy focusing on anti-intrusion, fire detection, passive defense systems, home and building automation, ICT security, intelligence and anti-terrorism, products and services for public law enforcement agencies and private security companies, celebrated thirty years of activity and closed the 2012 edition with positive results: 16,136 visitors (up 18%), 418 exhibitors (up 12%) of whom 35% came from 33 foreign countries. "The trade fair has shown itself to be an important meeting place in Italy for business dealings and for industry updates – stated Marco Seriola, Exhibitions Division Director for Fiera Milano. The double figure visitor growth and the presence of foreign trade operatives from 66 countries show the desire

to look beyond economic difficulties to push for a future with increased awareness regards a changing marketplace and which requires increasingly flexible and competent professional profiles." The 50 conventions, seminars and meetings were also a great success – tackling some industry hot topics such as certification and data protection legal issues, the future of installers and private security companies, road security, video-forensics and financial institution protection in the cloud era. Furthermore the visitors discussed about urban security and the advantages of smart cities, and also looked in-depth at subjects connected to the technological evolution, the integration of home-automation and the evolution towards IP security. www.sicurezza.it

Wavesight Partner with ID Integrated Security

Wavesight has been selected to supply the communication infrastructure in a major fiber to wireless switch-out for a large-scale urban surveillance project. The Company was requested to design a wireless communications infrastructure assisted closely by ID Integrated Security to migrate the Dacorum borough council's CCTV services from fibre to wireless in Hemel Hempstead. The council was looking for an IP solution that was robust, scalable and future proof and one that will meet and exceed

their capacity demands for many years to come. A licensed backbone solution using Wavestream+ was chosen by the systems integrator, to form the core of the infrastructure. Equipped with the Company's Bandwidth Accelerator technology, the Wavestream+ achieves a very high degree of spectral efficiency, delivering more capacity per channel than any other all-outdoor microwave system – In a zero footprint package that is easy to deploy and manage. www.wavesight.com

Elmdene: New Marketing Appointment

Elmdene International Limited – a subsidiary of Potter Electric Signal – announces the appointment of Jade Newman as its Marketing Executive. She will be responsible for raising awareness of the Company as a brand, and its product portfolio from switch mode Power Supply Units (PSU) to internal and external sounders, in major markets world-wide such

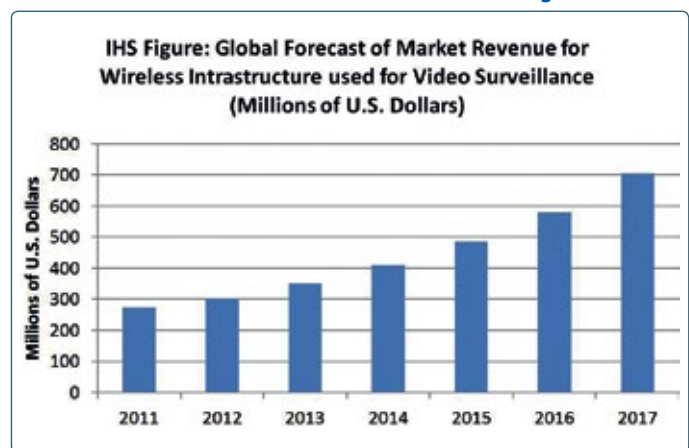
as the UK, Europe and the Middle East. Ongoing tasks will include: designing marketing material, identifying social media opportunities and organizing the firm's attendance at major exhibitions and events. In addition, she will assist members of the company's sales team as they seek to target new markets. www.elmdene.co.uk

AS & E Receives 2.6 Million US-\$ Order

American Science and Engineering (AS & E) has received a \$2.6 million order for the service and maintenance of cargo X-ray inspection systems, including Z Portal and ZBV systems to support a U.S. government agency. "Our trusted and reliable service team is committed to supporting our customers by keeping these Z Portal and ZBV systems operating in peak

performance so that they can continue to effectively reveal contraband at checkpoints," said Anthony R. Fabiano, the Company's President and CEO. "Our proven performance record of detection results is made possible by the outstanding global service network that we designed to meet our customers' evolving security requirements." www.as-e.com

IMS: Market for Wireless Infrastructure Gear Doubling



The global market for wireless infrastructure gear used for video surveillance applications is set to more than double from 2011 to 2016, with a significant amount of growth driven by demand for low-cost systems in emerging economies like China and India. Worldwide revenue for such equipment will soar to 705 million \$ in 2017, up nearly 160 percent from 274 million \$ in 2011, according to a new report published by IMS Research. After increasing by 11 percent in 2012, growth will accelerate to 15 percent in 2013, with revenue reaching \$350 million, as presented in the attached figure. "Offering a relatively inexpensive solution com-

pared to trenching cable, wireless infrastructure delivers a low-cost option for those who that want to establish surveillance networks," said Josh Woodhouse, video surveillance analyst at IHS. "In regions with widespread existing video surveillance infrastructure, such as the United States or the United Kingdom, the adoption of wireless infrastructure for video surveillance is growing steadily. However, emerging regions that lack such infrastructure will generate the strongest growth in the world, causing the market for video surveillance wireless infrastructure gear to boom during the coming years." niall.jenkin@ihs.com

Geutebrueck Secures Australian Natural Gas Project

Geutebrueck video security technology has been chosen to secure a major liquid natural gas project in Western Australia. The award of a massive A4.1 million \$ contract for a converged IP surveillance and security solution has been announced by Geutebrueck Pacific's partner UXC Connect, an Australian infrastructure and services provider. The fully customized solution combines IP video with public ad-

dress, general alarm and access control and is designed to protect against unauthorized access and maintain the safety and security of staff living and working on a remote site. The camp is being built to house 4,300 construction workers and includes cafeterias, laundries, communal areas and many other facilities which will all be covered by the solution. carmen.lahr@geutebrueck.com

SMART THINKING

WiseNet III WITH BUILT IN FRONT & PROFILE FACE DETECTION



The wise choice for professionals...

- Face Detection - Detect a face from the front and profile view
- P-iris - Precise iris control providing improved, contrast, resolution and clarity
- Multi-Cropping – Highlight and crop up to 5 areas of interest meaning efficient use of bandwidth
- De-Fog – Improve the quality of images captured in poor weather conditions
- Advanced Motion Detection – Improved noise immunity, mask specified areas and ignore objects that do not meet specified requirements
- Advanced Audio Detection – Improved efficiency through reduced alarm rates by camera recognising abnormal sounds
- Quick Installation – New detachable cabling structure to allow quick installation
- SSLE (Samsung Super Light Enhancer) - Improved Low Light Performance - CMOS sensor for clear images in low light conditions.
- Improved WDR – Enhanced image quality with reduced image blur and clear image processing
- Image Output – Output x 2 Full HD 1080p images simultaneously

www.samsungsecurity.co.uk



SAMSUNG

SAMSUNG TECHWIN

Wavestore Appoints Business Creation Manager

Wavestore has strengthened its sales team with the appointment of Iain Cundy as Business Creation Manager. He is well known within the electronic security industry having for the last two years been Demand Creation Manager for Panasonic and he was previously the Sales Manager for JVC. Working alongside other members of the Company's growing sales team, Iain Cundy will be working closely with installers and system integrators to identify new business opportunities for Wavestore's open platform VMS. Chris Williams, Director of the Company: "Iain has a proven track record of identifying opportunities for new and emerging technologies and then taking the lead in the design of custom-



ised solutions for clients. It is exactly this type of expertise which Wavestore needs in order to provide the best possible support to our business partners by fulfilling their requirements with our IP VMS and analytic solutions." www.wavestore.com

100th Certalarm Certificate

Certalarm announced the publishing of its 100th certificate. "The fact that we have reached the 100 certificates milestone proves that we are on the right way to becoming the pan-European mark for the fire and security industries recognized across the EU," says Wouter Blom, Director of the Board. Ever since the launch of the mark in 2010, the number of participating manufacturers has steadily increased, with Tyco Fire Protection Products and Tyco Safety Products Canada as its most recent entries. Today, there are 18 registered manufacturers including Bosch, Siemens and UTC. The 100th certificate has been issued for a security product of UTC

Fire & Security. Luc Joosens, Product Management Leader Intrusion Detection EMEA of UTC Fire & Security: "At the moment a security product is tested to a European standard for use in one particular country and nearly always requires separate paperwork, and sometimes even separate tests to be marketed in another European country. We therefore strongly believe in the concept of a single, independent testing scheme recognized throughout Europe such as the Certalarm quality mark. This will ultimately improve efficiencies and increase the speed to introduce new products and technologies across Europe."

www.certalarm.org

C-Tec Fire Panel at Education Facility in Manchester

A specialist education facility in Manchester is being protected by one of C-Tec's ZFP 4-loop touchscreen controlled analogue fire alarm control panels. It has a touchscreen interface which proved to be useful for the installation at the Together Trust's Bridge College, an independent college for students aged 16 to 25 years with disabilities, complex needs and autism. Marketing Manager Andy Green: "The visual aspect of the ZFP is very impressive as all devices installed on a system are displayed clearly on the panel's touchscreen interface. Therefore, if the panel identifies a faulty device,



you can see which one it is immediately." The interface is very user-friendly. The scroll up, scroll down options and onscreen keyboard especially make installation and programming simple and straightforward. www.c-tec.co.uk

Indigovision: Integrated Security for Zambian Utility

Zambian Electricity Supply Company has completed a major security project using Indigovision's IP video security solution. Working in conjunction with local partner, Security Integrated Systems, and regional distributor, Reditron, the security solution covers a geographical area of more than 1,200km protecting assets that include Victoria Falls power station and the Zambian National Control Centre. The majority of Zesco's sites are in remote locations, but are easily accessible to the public and previously used armed guards to protect vital utility assets. Zesco's main objective was to minimise the use of armed guards and link all the sub-sites to a centralized control room to create an integrated se-



curity system. The scope of the project identified a requirement for over 400 cameras, with many being in remote geographical areas with limited network connectivity. A decisive factor in Indigovision being selected was due to their expertise in delivering high quality video over low bandwidth. Reliability, flexibility and responsiveness were also key client requirements met by the Company. www.indigovision.com

Vivotek: Expert Certificate Program Launched

The Vivotek Expert Certificate Program (VEC) is available exclusively to official distributors and system integrators, aiming at cultivating genuine experts in the manufacturer's products, solutions and technology. The program consists of a two- or three-day workshop. It includes a comprehensive and detailed introduction of all the features and functions of the firm's cameras, as well as discussion of the technologies, the benefits, and the applications of cameras. In addition, the VEC program also enables participants to better understand the brand spirit and company objectives, while also facilitating exchanges of first-hand experience and the latest market intel-



ligence among participants. Executive VP Steve Ma stated: "Maintaining a trustworthy and close relationship with our partners is the core philosophy of Vivotek. Our business success will be achieved together with our partners." www.vivotek.com

Samsung Moves to New Heights

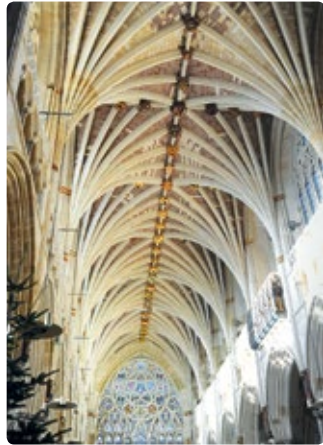
Samsung Techwin's professional security division has relocated to Weybridge, Surrey. "We outgrew the offices in Chertsey which we have shared for some time with a sister division," said Managing Director Johan Park. "Our new facilities will provide our administration, customer care and technical support teams with an excellent working environment to continue to offer the highest possible levels of pre and post sales support to our customers throughout Europe. In addition,



our new home will provide a base for our expanding UK sales teams as well as our product management and marketing colleagues." www.samsungsecurity.com

Apollo Fire Detectors Protect Exeter Cathedral

Apollo fire detectors are protecting Exeter Cathedral in Great Britain. The equipment was supplied and commissioned by Southampton based Technical Alarm Systems (TAS). The company is currently working on the second of a three phase project which includes connecting the Cathedral's library to the main fire system. TAS is using Apollo's XPander technology which communicates via radio signals, removing the need for any unsightly wiring and invasive drilling and making it an ideal detection solution for architecturally sensitive buildings. The third phase of the work will involve installing equipment in the new education rooms based in the Cathedral's cloister area. Using the manufacturer's XP95 range which will be networked onto the existing system, TAS has customized the equipment to blend into the surroundings (which include stone and wooden fixtures) to maintain the aesthetics of the rooms without being obtrusive. TAS Managing Director Stan Brooke comments: "We have been working on this project at the Cath-



dral for the last four years and Apollo was the natural choice for us. We've worked with them for more than 25 years and as such we know we can trust the equipment. In particular, its wireless XPander range was essential for the work undertaken in the library due to the architecturally sensitive nature of the ceiling. We've used Apollo time and time again and have always been happy with the quality of detection its products deliver."

www.apollo-fire.co.uk

Basler Business Figures 2012

Basler has presented its audited annual report 2012. The group's sales increased in fiscal year 2012 by 1% to €55.9 million (previous year: €55.1 million). The gross profit margin increased to 48.1% after 44.3% in the previous year. The earnings before taxes amounted to 5.6 million € (previous year: 5.6 million €). The pre-tax return amounted to 10.0% (previous year: 10.2%). With these results, the previous guidance communicated by the company has been achieved at the upper end. The cash flow from operational activity amounted to 12.6 million € (previous year: 13.7 million € -8%). The free cash flow calculated as the sum of cash flows from operational activity and invest-



ment reached a value of 6.3 million € (previous year: 6.9 million €, -9%). In 2012 the Company achieved one of the best results in the company's history. The focusing on the camera business agreed upon four years ago was concluded at the end of the reporting period so that the company starts as a pure camera manufacturer into its 25th fiscal year of 2013.

sales.europe@baslerweb.com

Dallmeier in Las Vegas

Dallmeier Electronic USA has opened its Las Vegas facilities. Headquartered in Fort Lauderdale Florida, the Company has made a significant investment expanding its operations to Las Vegas. The facilities will house the entire west coast staff, warehousing operations, sales, service,

training and logistics. Joe McDevitt, president of Dallmeier USA said: "This expansion shows our commitment to the casino surveillance market and will allow us to better serve our Las Vegas and West Coast customers."

dallmeierusa@dallmeier.com

BSIA Survey: Strong Middle East Demand

The results of new research carried out on behalf of the British Security Industry Association's Export Council, to coincide with the recent Intersec 2013 event in Dubai, underlines the strong demand being seen in the Middle East marketplace for the latest security systems from UK businesses, despite increased international competition, and also brings into sharp focus the key technology trends such as HD CCTV, PSIM and hybrid solutions that have been center stage over the past 12 months. The vast majority of the Export Council's member companies (87%), who responded to the survey, confirmed that they are active in this pivotal region. Of those questioned, 40% reported that they had witnessed a notable increase in revenues derived from the Middle East over the past 12 months. A similar proportion of companies saw business levels remaining unchanged, whilst a much smaller number (20%) reported that sales in the region had actually fallen. Significantly, the outlook for the coming year is much stronger than 2012 with an impressive 80% of members anticipating a rise in orders and, crucially, no one predicting a fall in revenues. Focusing on the business areas covered by the member companies who completed the survey, most were electronic security manufacturers – this reflects the composition of the Export Council as a whole – with 7% being involved in cash and valuables in transit solu-



tions and a similar number providing training. When questioned regarding the approach to security technology which they believe has had the greatest impact in the Middle East, over the past 12 months, the areas out in front – cited by 25% of those surveyed – were HD CCTV and PSIM (Physical Security Information Management). The HD (High Definition) revolution that is now so well established in consumer electronics is really making its mark in the Middle East with the roll-out of mega-pixel CCTV cameras to provide addition detail in security critical applications like banks and hotel lobbies. Of course the rise of PSIM in the Middle East is not surprising given the surge of interest worldwide in the bringing together and operation of a range of security systems, especially where larger projects are concerned. Not far behind in third place in the security technology stakes was hybrid security solutions on 17%. The hybrid approach allows the combination of legacy analogue infrastructure with the latest digital, networked, security technology which can prove beneficial if site owners want to maximize the return on investment on older elements when upgrading to IP.

compstonpr@gmail.com

Suprema Revenue Jumped 25% in 2012

Suprema's 2012 revenue rose 25% year-on-year growth and its net profit increased 148.6% from the previous year. For the year ended 31 December 2012, the company reported KRW 51.9 billion (47.72 million US-\$) in global sales which increased 25% from 2011. The strong growth of biometric security

systems over the company's worldwide sales channel made major contribution to the company's success and its profit topped by newly launched technologies such as face recognition and surging demand on its identification solution from government sectors.

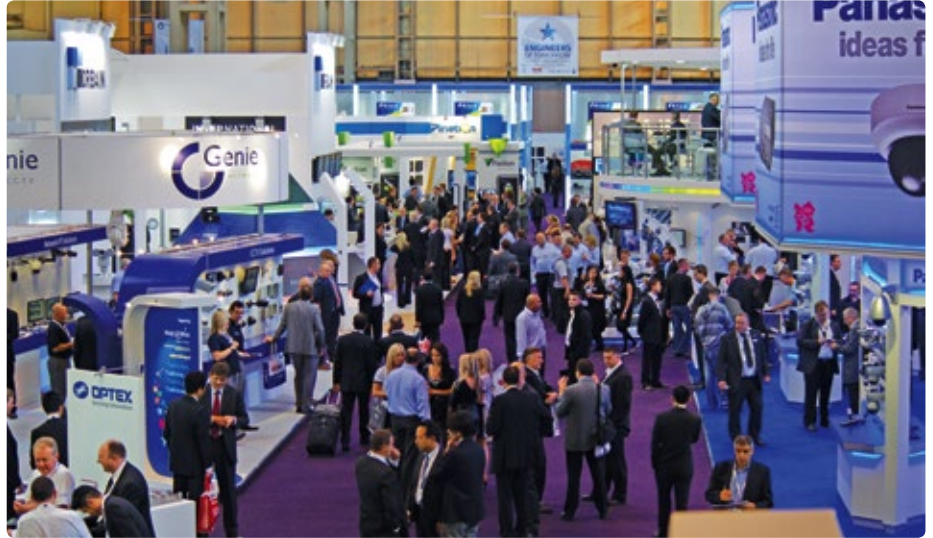
andyahn@suprema.co.kr

EVENT

Four of a Kind

IFSEC, FIREX, the Facilities Show and Safety & Health Expo in Birmingham

Taking place on the 13–16 May 2013 at the NEC Birmingham, IFSEC International 2013 is part of UBM's Protection and Management Week including also FIREX, the Facilities Show and the Safety & Health Expo. As the security, fire, IT and data industries become ever more integrated, IFSEC International, one of the world's largest dedicated security events, brings together the entire security buying chain under one roof.



IFSEC

Attracting more than 650 leading solution providers, from 100 countries, IFSEC is the biggest marketplace of its kind. Providing the opportunity to source, compare and test the latest products, while finding out how these can work best across a business. This year IFSEC will be celebrating its 40th birthday and will demonstrate its commitment to the security industry by providing insight into the future of security, with keynote sessions from the top names in the industry. Covering every area of security and fire, there will be a host of suppliers, education, advice and experts to suit your needs. The IFSEC show areas include; CCTV & Video Surveillance, Counter Terror, Access Control and Biometrics, Intelligent Buildings, Integrated Se-

curity, IP and Networks, Lone Worker and Physical Security.

Supporting the theme of security management, a dedicated area has been set up to showcase the full spectrum of solutions that can be implemented. There will be the opportunity to source information and speak to industry experts on the economics, standards, legal aspects and integrated solutions available in the market.

The IFSEC Academy provides access to seven free education theatres allowing attendees to engage in the biggest issues in security from the industry leading lights. With the chance to gain CPE or CPD points towards professional development, IFSEC International helps to enhance knowledge and solutions around business needs. Keynote speakers will enhance this

through the Intelligent Buildings Seminar Theatre, where solutions and systems integration will create opportunities for interoperability and information sharing.

IFSEC International Features

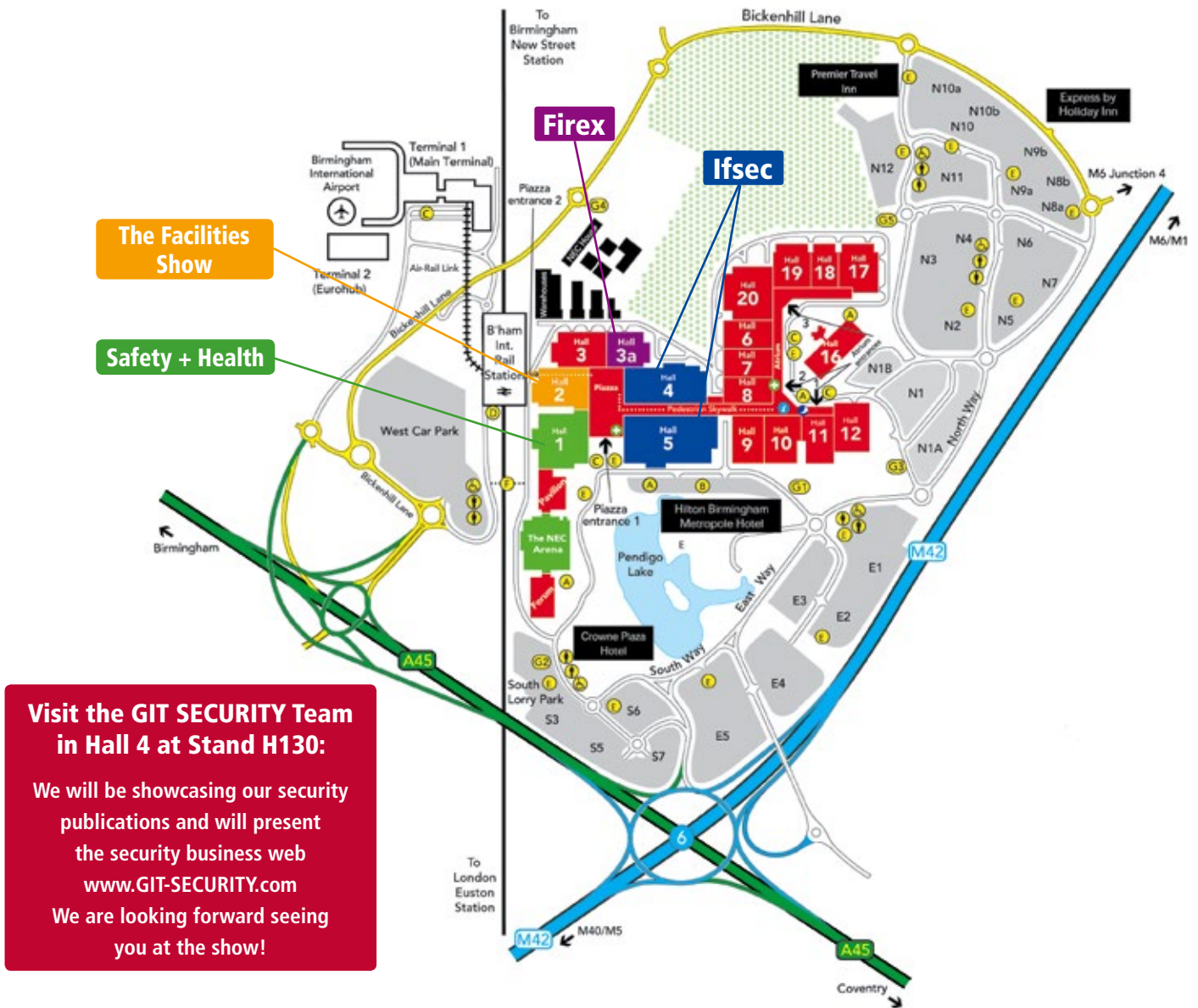
- New for 2013: Intelligent Buildings
Helping to identify the fire, security, IT, data and building management needs of your business, the Intelligent Buildings area will help visitors to discover solutions and innovations to integrate these sectors. Peers and industry experts will be on hand to share best practices and innovation, as well as, providing support around how to implement effective holistic solutions for business.

- New for 2013: IFSEC Speed Networking
Brand new for 2013, IFSEC Speed Networking provides the perfect solution to networking in a busy environment, allowing installers to make the most of their time away from projects, by gaining new business. This presents security managers, heads of security, building managers and project managers with the opportunity to get great advice about the best and most cost effective products to make their business secure.

FIREX

Focusing on fire prevention, Firex International presents the latest in approvals and compliance, current fire safety legislation and industry best practice and standards. This year's show provides a wealth of educational content delivered by respected fire safety professionals, in addition to a number of new, innovative feature areas, incorporating comprehensive seminar programmes which will run alongside the extensive





Visit the GIT SECURITY Team in Hall 4 at Stand H130:

We will be showcasing our security publications and will present the security business web www.GIT-SECURITY.com
We are looking forward seeing you at the show!

exhibition, encouraging engagement and establishing thought provoking debate.

ASFP Passive Fire Protection Zone

A combined hospitality and free expert clinic area hosted by the Association of Specialist Fire Protection (ASFP). This feature will focus on products, services and best practice on 'passive' or 'built-in' fire protection.

With a strong emphasis on professional expertise and the requirements for approved installers and contractors, the Passive Protection Zone will provide visitors with exclusive access to industry experts and knowledge on how to make their buildings intrinsically safe from fire, using the right materials and approaches to fire safety. A key feature of the zone will be the Passive Protection Module, a specially-built construction graphically demonstrating the importance of correctly designed and installed fire protection in buildings

FPA Info Zone

The Fire Protection Association will be hosting a series of free seminars and surgeries covering a

variety of topical issues including timber frame fires, fire risk assessment competency requirements and business continuity planning. Visitors will also have the opportunity to meet with our experts for informal one-on-one sessions. The info zone will also be a place for visitors to relax and network with free refreshments and regular demonstrations of new FPA products and initiatives including FPA Academy – an online learning portal.

Safety & Health Expo

Safety and Health Expo is Europe's leading annual exhibition for the occupational safety and health industry and the only health and safety show to have the exclusive support of key industry partners, IOSH (the Institution of Occupational Safety & Health), RoSPA (The Royal Society for the Prevention of Accidents) and the BSIF (The British Safety Industry Federation). Taking place from the 14–16 May 2013, the show is dedicated to sourcing innovations from across the sector and helping the health and safety professionals to gain the information to ensure the highest standards of health and safety with-

in your workplaces. In 2012 the show attracted 7,951 pure visitors, a 9.7% increase year on year, and welcomed over 300 exhibitors from a wide range of product areas and disciplines.

Safety & Health Expo will once again provide a plethora of high-quality educational content to meet the ever changes needs of the health and safety professional, providing authoritative information and vital legislation updates, whilst also showcasing the latest products and services to market and providing numerous networking opportunities.

▶ CONTACT

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www.firex.co.uk
www.facilitiesshow.com
www.safety-health-expo.co.uk



News has gone round that next year's IFSEC will be held at the ExCeL in London rather than the NEC where it has been held for the past 16 years. The quick-acting organizers who seized the empty NEC date will launch the new Security Technology event there in May 2014. We interviewed Tim Porter, Managing Director of Clarion Defence and Security, who told us more about what to expect.

EVENT

Security Technology Live

Quick Opportunistic Action Reserves the NEC for New Show

GIT SECURITY: Mr. Porter, the news probably came as quite a shock for Birmingham, when UBM decided to transfer IFSEC, Firex International, Safety & Health Expo and Facilities Show back to London?

Tim Porter: Yes – many people in the industry have told us that they were surprised with the decision to move away from a venue which has proved successful for the security industry over the past 16 years. We clearly believe that the factors that made Birmingham the best venue in the past are still true today – it is by far and away the best venue to host a dedicated security channel event in the UK. Birmingham has the advantage of geography, being in the middle of the UK. The NEC venue there has many more car parking spaces for visitors – who we know like to drive to the show – than ExCeL, and that is all before you consider the issue of dates. Our new show Security Technology Live is being held in May, the traditional dateline for the industry, but IFSEC is moving to the second half of June when many parts of Europe have already started their summer vacations. It also places IFSEC much closer to the dates of Security Essen, and for 2014 it also clashes with the FIFA World Cup. But it's important to state that Clarion Events have for a long time been looking at launching Security Technology Live as a dedicated security channel event that is intended to provide better return on investment for exhibiting companies and a better experience for visitors. We had looked at venues in the Midlands, but when we heard IFSEC were moving out of the NEC and we had the opportunity to take a date which has seen thousands of visitors attending for the last 20 or so years, we'd have been foolish to turn it down.

Will the newly launched Security Technology Live be a substitute for these events or will it be something completely different?

Tim Porter: Security Technology Live is dedicated to the security channel. If you are a manufacturer or distributor and want to meet any part of the security channel market from the UK and Europe, this is an event for you. By running Counter Terror Expo, a dedicated end-user event for the protection of large-scale sensitive sites, we have found trying to mix the security channel and end user audience is very difficult to achieve in the UK as the two audiences do not mix well. The security channel is fundamentally concerned about how to make more money for their business and less concerned about key

government security strategies. Security Technology Live will not be trying to attract end users, but instead be 100% focused on delivering an event that will provide the new technology, expertise, advice and networking opportunities to help the security channel grow their business. The event will also have a different pricing model for exhibitors, reflecting the need to increase ROI from security events, including our Foundation Partners rate. In fact we already have over one third of our initial target for the floor plan reserved and booked.

Could you tell us something about the concept of this new event?

Tim Porter: It's a simple concept – a dedicated security channel event. Its focus will be on delivering an excellent, interactive event for any member of the security channel to attend and to discover new technology, whether that's analog or IP, and how that can be implemented into future customer requirements. It will be held at the NEC, Birmingham, a central location with excellent transport links and a reach across the majority of the UK, an international airport next door, 17,000+ car parking spaces and at a date and time when the security industry has been used to attending a security event for the past 17 years. By keeping the event simple in concept and at a central location it will allow us to deliver an exhibition that will service the core needs and requirements of the security channel market.

Which are the target groups that might find the Security Technology Live particularly interesting?

Tim Porter: Security Technology Live will appeal to the entire security channel market; from manufacturers and distributors to installers, integrators, specifiers, VARs (including IT VARs), electricians, technical teams and consultants. We know this is a new event and there might be some tough decisions for companies to make with their choice of events to attend in 2014. I would encourage anyone to contact myself or our team to talk through in more detail about how we plan to develop Security Technology Live.

▶ CONTACT

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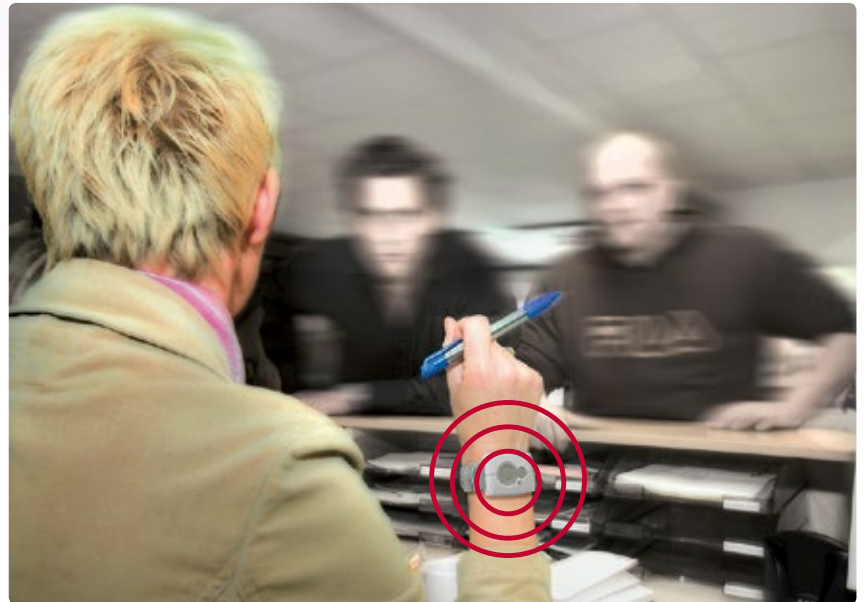
Personal Basic Call and Alarm System

The Job Centre in the City of Copenhagen Uses a Wireless Call and Alarm System



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The city of Copenhagen was confronted with an increase in aggressive behaviour by customers at the job centre. This resulted in a rapid rise in the sickness rate of employees there, because they felt threatened or attacked.



The concept quoted for was the amanTag-PersonalBasic solution from deister electronic – a wireless call and alarm system

The city sought measures to reduce absence among its employees, and initiated the first project in a new job centre in Copenhagen's inner city. In the scope of this project the city needed to find solutions to improve the workplace situation and to give employees a feeling of greater safety in their working environment.

Special Requirements

The job centre encouraged a system based on a personal alarm button, which is small and easy to carry around, that is completely mobile and can be used by employees in the entire office area.

Activation of the alarm button should immediately send a message to a mobile communications set up. The message should contain the employees ID and current location within the building. The emergency call should either be sent to another employee to show who is in an emergency situation and where he or she is,

or to a security employee as, for example, is the case in a large city office. In addition, the system should be designed so that an event report is generated automatically for evaluation purposes, and the system should be fully web-based to permit remote maintenance. The mobile alarm system should of course stand up to a cost benefit analysis, because 200 employees have to be equipped with this device.

Solution

The concept quoted for was the amanTag-PersonalBasic solution from deister electronic - a wireless call and alarm system; it features a transponder with an alarm button to support the employee in an emergency. This solution offers the advantage that, in an emergency, the employee only has to press a button on his wrist. The alarm message triggered in a threatening situation contains detailed information about the person and their present location. These are

transmitted to a security agent, who carries a receiver with a display. A major requirement of the job centre was that employees should not be restricted in their freedom of movement, but rather be able to move freely and safely in their working environment. This installation has been in operation since February 2007 and there is a high degree of satisfaction with the solution. Because the system operates so well, orders for other job centres have already been implemented.

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Winners 2013



In GIT SECURITY 1/2013 we have shown the winners of GIT SECURITY AWARD 2013. Who was happy, who received the cup and the certificate? In this issue we proudly present some of the people behind those winning products in the categories fire and explosion protection, industrial safety, CCTV, access control, intruder alarm, perimeter protection, safety and security management.



Dietmar Hog (left) is Division Director for Hekatron's fire alarm systems – and proud to be one of the winners



Heiko Baumgartner and Raf Schrijvers, Tyco's product marketing manager for the award-winning Intevo product



„Yippieh-Yeeeeeah!“ Elmar Hartmann, Managing Director of Gantner Electronics is lifting the award to the sky

Since May 2, 2013 companies can apply again their products for the next one – for GIT SECURITY AWARD 2014.

Participation conditions and registration see here: www.PRO-4-PRO.com/en/Safety-Security/secaward2014



Always good for a winning product: the Honeywell company Esser – here Waldemar Ollik (l.) receiving the cup from Steffen Ebert



Lights on for LED Lenser: Zweibrüder's Managing Director Sven Objartel and Communication Manager Brigitte Pautzke



New star of Mobotix: Dr. Magnus Ekerot wins an award for S14 Flex Mount – the double hemispheric camera (smiling in the back: Simone Herold :-)



Cathy Cheng and William Ku from Vivotek are happy about receiving their trophy at Intersec in Dubai



Serial winners: Johan Sjö Dahl (l.) and Marwan Khoury (r.) take over the Award at Intersec in Dubai



One more time Axis: Here the MD of the office in Germany, Edwin Roobol with Silke Stumvoll – at the retail show Eurocis



Arjan Bouter (second from right) and the Nedap team at Intersec are proud to receive the award



Francis Lachance, Ted Ghali und Pierre Racz (f.l.t.r.) receive GIT SECURITY Award for Genetec



SeeTec CEO Andreas Beerbaum and Marketing Manager Andreas Conrad are even ready to rock the market again – they currently work on a new version of their winning product



Ludwig Bergschneider receives the award in Dubai at Intersec – on behalf of TKH and Aasset

Looks good at every trade show stand: the GIT SECURITY AWARD





INTERVIEW

A New Challenge

An Executive Move to Samsung Techwin

Jonas Andersson is Senior Vice President for product planning and strategic marketing for the security solutions division of Samsung Techwin. He joined the company in January 2013 having worked for the previous 18 years for Axis Communications in a number of senior roles, including Director of Video Product Management and Video Solutions and for the last five years, Business Development Director. He was also Chairman of the ONVIF (Open Network Video Interface Forum) Steering Committee between November 2008 and December 2012. He discussed his move here for the readers of GIT SECURITY.

GIT SECURITY: There will be many in the security and IT industries who will be surprised that you have left Axis, which is such a high-profile and successful company. Can you tell us why you decided to do so?

Jonas Andersson: It was not a decision that I made lightly as I enjoyed my time at Axis Communications and it was great to be able to contribute to the success of a highly respected team which has achieved so much. The opportunity to continue to progress my career in a senior product planning and strategic marketing role for Samsung Techwin proved to be irresistible. This was because I welcomed the responsibility that comes with the role, but also because in the process of considering whether to join the company, I was inspired by the levels of enthusiasm of the people I met, all of whom were determined to ensure that Samsung Techwin could take up the number one market leadership position.

There are a number of manufacturers who, knowing your track record, would have been very keen to recruit your services. What was it that attracted you to join Samsung Techwin?

Jonas Andersson: The opportunity to work alongside and offer leadership to a highly talented product development team, and to have the

responsibility of driving the process of creating and driving future product strategies was clearly one of the main reasons why I wanted to take up this new role at Samsung Techwin. The security solutions division is clearly determined to mirror the success of the consumer and industrial divisions of the Samsung Group. It is extremely exciting and motivating to have the opportunity to play a key role in helping the company deliver its ambitious yet achievable growth target.

How do you see the security solutions division changing over the coming months?

Jonas Andersson: It is a little too early to reveal any ideas on long term strategy. What is clear is that Samsung Techwin continues to enjoy a significant share of the traditional analogue-based security solutions market and in many European countries it is the number one analogue brand. We are however now poised to achieve the same level of success with an impressive end-to-end IP network solutions range which includes NVRs, license-free viewing and recording software, and an impressive line-up of high-definition megapixel cameras. Working closely with independent software vendors is part of our Smart Security philosophy, which is about making it easy for customers who are looking for a gradual transition from

an existing analogue system to a full IP network-based surveillance solution. Axxon, Aimetis, Digifort, Griffid, Ipronet, Exacq, Genetec, ISS, Milestone, Mirasys, ONSSI and Seetec are among the list of video management software developers that we have been working with because of their ability to offer 'open' software specifically designed to facilitate the integration of equipment and systems from different manufacturers.

How long will Samsung Techwin continue to offer analogue based products?

Jonas Andersson: There is still a strong demand for analogue based solutions and this is reflected in our product portfolio, which provides customers with the flexibility to choose the best solution for the job in hand. In fact, the recent development of 960H recording technology has enabled us to launch a new range of DVRs which, when added to an analogue system, can provide an instant and dramatic improvement in the display and recording resolution of images captured by industry standard analogue cameras. I would expect to see this method of upgrading an existing analogue system to be very popular among end-users who do not yet to have sufficient reason to change to a Video over IP system. Whilst we will continue to provide support for projects

where an analogue solution is still required, there is no doubt that the longer term future is all about offering integrated security products and systems which take full advantage of the benefits afforded by IP network-based solutions.

Over the last two years Samsung Techwin has introduced over 200 new products. Do you envisage that your product portfolio will continue to grow at the same rate over the next year or so?

Jonas Andersson: Many of the products recently introduced have in fact been part of our IP network range and have proved to be a great success. There will, however, be a lower number of new products launched over the coming months. Having said that, we will not of course hesitate to introduce updated products as and when new technology becomes available or when we identify a gap in the market. A good example of this is the recent introduction of the seven new models in our 'affordable' LiteNet HD network camera series. Until now, the relatively high price of HD cameras has prohibited their use for the vast majority of projects and feedback from the marketplace told us that customers were reluctant to pay for features that they may never need. We have therefore produced the LiteNet cameras and domes specifically to overcome this issue in that they incorporate

most of the important features associated with HD technology, but at an affordable price level.

You were previously the Chairman of the ONVIF (Open Network Video Interface Forum) Steering Committee. How is your passion for achieving the objectives of ONVIF likely to impact on Samsung Techwin's future product marketing strategy?

Jonas Andersson: ONVIF is an open industry forum for the development of a global standard for the interface of network video products. It is committed to the adoption of network video in the security market and the ONVIF standard is intended to ensure interoperability between network video products regardless of the manufacturer. Samsung Techwin has always shared ONVIF's vision and many of our products are compliant with the current standards. The company has in fact been a full member of ONVIF since June 2009 and as such has had the opportunity to actively participate in the development of the standard. Users are increasingly looking to gain maximum benefit from their investment in security. This means a requirement for an integrated solution where different systems are able to interact with each other and be controlled and monitored via a single display screen. With this in mind, Samsung Techwin has an ongoing program to integrate with leading ISVs (Independent Software Vendors) that offer 'open' software specifically designed to facilitate the integration of equipment and systems of different origin. This provides customers with the flexibility to choose the perfect combination of security products to match their specific requirements. No two businesses or organizations will have the same operational requirements, and different market sectors, such as education, transport, healthcare, military, local government, etc. will face varying levels of threats to their people, property and assets. Samsung Techwin is however now ideally placed to provide the correct solution for virtually any application, regardless of the size or complexity of the project or the environmental conditions.

You are clearly confident that Samsung Techwin can continue to grow at what seems an exponential rate.

Jonas Andersson: Yes and this is based on a belief that we will be able to continue to develop video surveillance and access control products that are able to meet the current and future needs of security professionals. Our products utilize innovative technologies, many of which are unique to Samsung Techwin, and can deliver benefits

and outstanding value to those involved in combating criminal and terrorist activity, whilst offering time and cost-saving advantages to installers and system integrators. As an added benefit, the same products and technologies can offer operational advantages for a wide range of other applications. For example, health and safety compliance, process control and improving the efficiency of assembly lines are just a few of the ways in which video surveillance systems are being effectively used by

the manufacturing industry, whilst within the retail market sector high-definition cameras equipped with video analytics can provide store management and merchandisers with invaluable information about customer behavior.

▶ CONTACT

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WORK SAFETY

A Culture of Prevention

The European Agency for Safety and Health at Work

EU-OSHA – that's not an old Japanese Samurai war cry but stands instead for the European Agency for Safety and Health at Work. It was set up to promote safe healthier and more productive places of work in Europe – through campaigns, preventive measures, partnerships and research projects. In particular it promotes a culture of risk prevention. Matthias Erler of GIT SECURITY spoke with Christa Sedlatschek, Director of the agency.

GIT SECURITY: Mrs. Sedlatschek, according to your agency's own profile, safety and health protection are the basis for stability and growth in Europe. The number of safety standards and regulations for companies is already immense. Isn't this often simply too much?

Christa Sedlatschek: That is a subject that is often raised in conjunction with regulations and laws. We see it from a different perspective of course. The European legislation is very important for our 27 Member States – particularly so for the most recent to join. Without laws and European standards, probably nothing would happen at all in some areas. What is however correct for all countries is that especially the small and micro firms must organize themselves well so that they are not unable to cope with the implementation. We take this very seriously – for this reason these small and micro companies are also our main target audience. We want to give them the tools to make implementation easier. These include, for example, our online tool for 'interactive risk assessment' (OIRA), especially for small companies.

The European Agency for Safety and Health at Work would like generally to promote a culture of prevention. There are certainly other different cultures in the various European countries.





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Christa Sedlatschek: Naturally. We see differences with regard to implementation of regulations as well as in the handling of the subject. This is also reflected in our surveys. Northern and central European countries traditionally have a heightened understanding of safety – the particularly innovative approaches come from here. Risks are fundamentally treated differently in Spain to Finland, for example, where children are already introduced to preventive thinking and doing in the kindergarten and in their primary school. Ear protection is worn even at relatively low sound levels although in some other countries it is rarely seen on building sites. On the other hand, as well as the cultural differences, we see an even stronger factor in the fact that many countries are under pressure from the crisis.

What assignments has the agency taken on so far?

Christa Sedlatschek: In the last few years the agency has developed a new strategy for the improvement of working conditions in Europe that will start to be implemented in 2014. First of all the preparation of a good basis of facts and figures was necessary because we are still in the situation that we have to prove that investment in health and safety measures actually brings a return. There are studies available that show how important healthy and motivated employees are for a company. In addition we want to generally raise awareness. Our Healthy Workplaces Campaign is the largest campaign for safety and health at work in Europe.

Are such campaigns the usual way of working of the agency?

Christa Sedlatschek: Yes, such campaigns always lasts two years. The current campaign is called 'Working together for risk prevention' and is based on the social dialog between management, employees and trade unions – that's the only way it can work.

What is the theme of the next campaign and what measures are involved?

Christa Sedlatschek: As from 2014 it will be about stress at work and other psycho-social risks. Here we provide a practical approach by asking how one can manage stress and reduce it. As the figures show, this is a very important and therefore welcomed subject in many countries. For this we develop corresponding tools for companies – for example, the industry-specific online tool called OiRA. It is the first time that a European institution has presented a concept or module for risk assessment. It will be adapted to the local conditions at a national level by our partners – 16 Member States have joined so far.

What other projects are there?

Christa Sedlatschek: Our Risk Observatory was set up in 2005. The current prime project of the agency called Foresight aims to look beyond new and emerging risks at work and to foresee long-term changes. The first area that we have in focus are the so-called 'green' jobs – workplaces where the technology or processes being used are intended to reduce the environmental impact. New workplaces are created here with the old risks but in a new context. Here in particular a great deal is missed because it is often assumed that 'green' also means 'healthy'. If a risk assessment is to be realistic then a more critical view is called for.

.. are you thinking, for example, about collapsing wind turbines?

Christa Sedlatschek: That is one example – and another would be recycling stations. There are dangers here that we don't yet understand in detail. Organic solvents, for example, can have hidden risks, and these are sometimes not even seen. Another area of activity for EU-OSHA is the preparation of research results from individual Member States for the other countries. For this we are currently building an OSHWiki that provides information about the latest findings and practical implementation results – the online encyclopedia will be launched at the end of this year. This is interesting against a background of budget cuts: existing knowledge will be made available.

... a sort of Europe-wide knowledge management. Do you have other examples of new dangers for us?

Christa Sedlatschek: Very topical is the handling of nano-materials that are already in widespread use. Fine particles are currently being researched all over Europe and there are not enough results by far. The same goes for many chemicals that have recently come onto the market.

An important and, by itself, very complex subject with which you are also involved is accident prevention. Could you give us an insight into your work in this area?

Christa Sedlatschek: First of all we provide figures and information about measures and solutions – it is important that we make business sector-specific information available. For example, we can provide the legal basis as well as the risk assessment for the building industry, for agriculture, for fishing, the healthcare or energy sectors. Our Internet pages deliver specific and detailed information for the relevant industry.

Together with the risk assessment you have developed an interactive online tool. How does it work and how has it been received?

Christa Sedlatschek: This is an Internet-based workplace risk assessment that is adapted to the respective national situation and that can be also carried out with a mobile device. It includes sector and country-specific multiple choice questions. The result is a printable risk assessment that the appropriate responsible person can evaluate. It is not complicated and is very helpful particularly for small businesses – and it's free. The tool doesn't only provide concrete action guidelines but also shows the consequences that will occur if nothing is done. We have very accurate knowledge about the connection between safety at work and illness days – this makes the commercial importance of the subject very obvious. For years now we have noticed a drastic increase in psychological stress. This instrument is also intended to promote social dialog within a company to find good solutions together.

What do you think is the cause?

Christa Sedlatschek: One of the causes is the enlargement of the service sector and the resulting increased direct contact with customers, clients or patients. This increases the pressure. Also globalization and ever more frequently required flexibility are on the increase – there are hardly any classic contracts of employment anymore. That also adds to stress and pressure.

Safety costs something – but there are also economic incentives, such as in the form of reduced insurance premiums and reduced social security payments. What can you provide here?

Christa Sedlatschek: This subject is constantly on our agenda. The most recent contribution to it is our publication on the subject of 'economic incentives'. Here we demonstrate with examples from various countries how incentives such as, for example, bonuses from health insurance companies have been proven to help with implementing health and safety measures.

Mrs. Sedlatschek, many thanks for the conversation.

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Fire Detection Products at Firefex

Apollo Fire Detectors will be showcasing its range of fire detection products at Firex International at the NEC Birmingham (13–16 May 2013). Visitors will be able to find out about the company's product and service offering including the EN54-11 2001 approved Manual Call Points in Standard and Waterproof variants, and the full range of the company's Part 23 Approved Visual Alarm Devices. In addition, the manufacturer will be launching its new smart phone app at the show, which incorporates features such as an Interactive B55839 guide, Installation Checklist, Xpert card and DIL Switch addressing program. Information will also be available on the



fifteen products of the Company that have recently 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.

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Directional Antenna

Narda Safety Test Solutions has extended the range of application for its Interference and Direction Analyzer down to very low frequencies with a new loop antenna. The antenna is suitable for detecting interference caused by switching power supplies or data transmission over electricity supply lines. The loop antenna for the Interference and Direction Analyzer IDA-3106 covers a frequency range from 9kHz up to 30MHz. Its typical antenna factor of 47.5dB(1/m) at

1MHz gives it unusually high sensitivity. This makes it particularly suitable for tracing defective or poorly screened switched mode power supplies or electrical controls that generate interference fields, for identifying interference due to data transmissions made using the power line carrier technique, or for demonstrating interference with other signals in the very low frequency range (VLF), e.g. using the time signal of the DCF77 transmitter. www.narda-sts.de

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FIRE SAFETY

Façades and Fire

The Interpretation of Fire Regulations and Materials Testing

The façade of a building is an important part of the building as it provides a significant proportion of the building's thermal insulation and is also the outward face of the building. We have recently read both national and international reports of several fires involving the façades of buildings, with the result that there has been a lively debate on the use of flammable insulation in exterior walls.

The question now arises of what our regulations have to say, and whether they can be interpreted in different ways. However, one thing that we can say for certain is that this is an area in which more research is required, and that international cooperation is essential if we are to ensure the design and construction of robust fire-resistant façades.

That façades present a challenge in terms of fire protection is well known, particularly now with growing demands for the use of flammable materials, not only on the surface of façades but also within the structure of exterior walls. If, for example, we build a timber building, we want to show this on the outside, i.e. to use visible timber in the façade. Flammable insulation, such as EPS, can be used to provide a simple and cost-effective solution that meets the energy targets. At the same time, however, the applicable requirements for fire protection must be fulfilled, making it important to treat the material in the light of its potential fire risks.

The Swedish Building Regulations

The 19th edition of the Swedish Building Regulations, BBR 19, specifies the following requirements for exterior walls in Class Br 1 buildings:

1. That the separation function between fire cells is maintained
2. That the spread of flame within the wall is limited
3. The risk of spread of flame along the surface of the façade is limited
4. The risk of injuries to persons resulting from materials falling from the façade is limited

We can ask how we are to verify fulfillment of these requirements. The general guidelines in the Building Regulations give details of certain parts, but they are unclear in some respects and can be interpreted differently.

Item 1 above is unclear. According to the guidelines, this requirement is fulfilled if the exterior wall has a separating capability, but it is not clear as to what capability is reasonable. Some can interpret it as being the same as that of the floor/ceiling structure, i.e. EI 60. This is the cautious interpretation, but the question is whether it is reasonable. Windows are exempted from the requirements if the distance is at least 1.2 m, but if so, other parts must also fulfill the requirements of EI 60, which is not the practice today.

In addition, the guidelines in BBR 19 state that an exterior wall design that meets the fire test requirements of SP Fire 105 fulfills the requirements of Item 1, which is not correct. SP Fire 105 can be used to assess the risk of the spread of fire along the surface of a façade and within the structure of the wall itself, and can also to some extent be used to assess the risk of falling materials. The fact that SP Fire 105 does not test fulfillment of Item 1 will be corrected by the Board when the Building Regulations are revised in 2013, but the uncertainty concerning

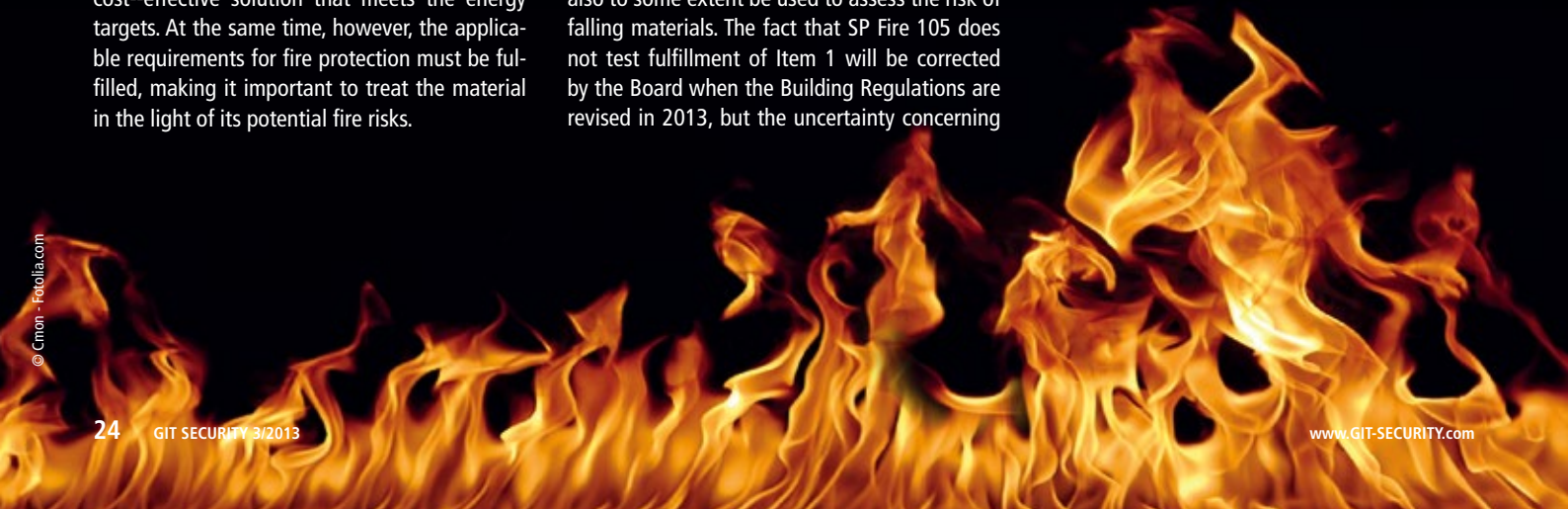
the level of separating function between fire cells remains.

According to the guidelines in BBR 19, spread of fire within the wall and along the surface of the façade up to a height of two storeys above the burning room is accepted when testing in accordance with SP Fire 105. This means that the test accepts a burning interior of walls that are also intended to provide separation between fire cells. From this, there is naturally a risk that the fire can spread through a neighboring fire cell, even though the wall itself meets the separating requirement when it is based on the total fire resistance of the entire section of the wall.

Item 4 above is also unclear. The guidelines text first states "... that the risk of falling parts of the building, such as shards of glass, small pieces of plaster etc. is limited". If we then read on, and see what the requirements are after testing in accordance with SP 105, the guidelines text says "... no large parts of the façade fall down, e.g. large pieces of plaster, sheets or panes of glass ...". So what is it that is meant: shards of glass or large sheets of glass, small bits of plaster or large pieces of plaster? All this results naturally in varying interpretations of the requirements.

Fire Testing of Façades

As described above, the fire resistance of façades in Sweden is now tested in accordance with SP Fire 105. This is a national Swedish test method, but the results can also be used in Denmark, Norway and (to some extent) Finland in order to show whether the structure meets the requirements in the respective countries' Build-





Experiment (left) and simulation (right) after seven minutes, when the fire was at its fiercest

1st International Seminar for Fire Safety of Façades

Paris, France, 14–15 November 2013

The purpose of this seminar is to bring together engineers, scientists, consultants, decision-makers and manufacturers interested in façades in order to publicise the latest findings from research and investigation of fires in façades.

Subject areas to be covered by the seminar are:

- Standardisation
- Testing and assessment
- Building regulations
- Fire protection design
- Extinguishing systems and rescue action
- Façade systems
- Case studies

Further information is available from <http://facade2013.sciencesconf.org>

ing Regulations. However, the Nordic countries have different limitations concerning applicability of the test, e.g. relating to the number of storeys. The test is intended to represent a fire scenario of a fire in an apartment, of which the window has failed, with the result that a larger mass of flame surges out. The test can also represent a burning rubbish container on the ground beside a façade.

SP Fire 105 tests façades on full scale. The size of the test façade is 4m wide x 6m high, and must represent the actual façade system as closely as possible. The length of fire exposure is about 20 minutes, and the fire must not spread along or within the façade too far from the source of ignition during the test. Any falling pieces or droplets are noted and assessed.

The temperatures of the fire gases above the panel are measured, as is the heat flux towards the panel. The aim of these measurements is to decide whether the façade system itself contributes too much to the progress of the fire.

Method Development

A European development project for façades and their fire protection is currently in progress. The work is being carried out jointly by a number of parties within EOTA, with the aim of developing a method of evaluating the fire resistance of façade systems so that it can be included in a European Technical Approval for façades. The work is aimed at developing a common European method for testing and classification of the fire resistance properties of building façades. SP is participating actively in the work with the aim of developing a method for full-scale testing and ensuring that the method addresses the most relevant fire resistance properties, in the same spirit as SP Fire 105. Another objective of our work is that the method should include methods of measurement and clear requirement levels for factors such as the spread of fire and falling materials. It is important to avoid arbitrary assessments of test results.

It is very unclear as to when the European test method will be published. With the introduction of CPR on 1st July 2013, both EOTA and the ETA system will cease to operate, but the work will probably not be completed by then. If so, SP will press for the work to be taken up and concluded by some other organization ISO TC 92 has developed a large-scale method for testing façades: it is possible that this method, suitably modified, could be a candidate. It is most important to ensure that fire protection of façades is treated realistically.

Research into Façades

Research is being carried out by SP Fire Technology in order to obtain a better understanding of the fire dynamics and effects on façade materials of a fire when tested in the SP Fire 105 rig. Additional measurements have been made in a number of tests, giving us a detailed picture of the progress of the fire and assisting the description of comparisons using models.

Using FDS (Fire Dynamics Simulator) we have simulated our façade test rig using computational fluid dynamics. Using our numerical model, we can represent the large-scale effects on the façade with close agreement to the results of experiments. In future, this will permit us to make certain forecasts of how the effect of fire changes when conditions are changed. Some of the latest research results were presented at a conference in Fire Computer Modeling in October in Santander in Spain.

International Seminar

The fire safety of façades is of international interest. As a result of increasing environmental requirements and stricter rules for energy efficiency, the use of new, flammable façade materials (often as additional insulating materials) will increase. It is therefore very important that fire protection of façades should be properly treated in response to the coming large-scale changes, which present new risks to façades. An international seminar on the subject will be held on 14–15th November 2013 in Paris. SP Fire Technology is a member of the management group for the seminar, and Lars Boström is the chairman of the technical committee reviewing papers submitted for presentation at the seminar.

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Buildings today can have any number of systems installed in order to control security, heating, lighting and ventilation. It is common practice, particularly in larger scale buildings, to combine these different elements into a single, integrated building management system (BMS). One essential building service has, to date, largely resisted full integration – fire detection. This situation is set to change with the evolution of a new device called OpenConnect Gateway. To understand why this development is so significant it is important to understand why fire detection systems have been kept separate from other building services in the past and explore why integration is now so desirable.

The Complexity of Integration

Firstly, and perhaps most importantly, fire detection is deemed safety-critical. It could therefore be argued that fire detection should take precedence over other building services systems and remain completely independent.

This is why fire detection systems are subject to much stricter standards and controls than other building management services. The regulations governing the integration of fire detection systems are many and various and this can lead to some rather strange anomalies. For example, where a BMS and a fire alarm system are channelled through a common information-gathering system, the cabling must be fireproof. However, a simple wire connection from the fire detection system to the BMS may fall outside this rule.

It is worth noting that there is no legislation as such on the topic of integration, only recommendations. At the European level, there is a draft standard on integration, DD CIC/TS 50398:2009, which states: "the integrated alarm system shall be designed so that any application is not adversely affected by any other application in normal conditions." It therefore takes a highly accomplished system de-

signer and installation engineer to understand the application standards and work out which takes precedence where different systems meet.

Practical Considerations

While regulations may appear to discourage fire system integration, in practical terms interaction between the different elements of a BMS are not only desirable, but also necessary if safety-critical procedures are to be effective. The ability for a fire signal to tell a security system to release certain access doors for use as escape routes is one simple example.

Indeed, some degree of fire detection integration has been satisfied already by the use of interfaces and complex bespoke integrations, which enable a fire alarm to trigger other pieces of plant and equipment. Actions can include opening and closing doors, shutting down air conditioning, or stopping passenger lifts safely at ground level.

However, there are some restrictions associated with the use of interfaces. Even interfaces with built-in isolators do not address the fundamental issue that multiple additional devices are required to facilitate even simple levels of integration between fire devices



Eva Kosanovic,
Head of International Sales,
Apollo Fire Detectors

and other building services equipment. As commercial buildings become larger and more complex, and the expectations of occupants become more sophisticated, adding more and more physical devices to link building services together becomes less and less practical. It is therefore time to return to first principles and ask what it is we are actually trying to achieve.

Finding a Solution

When reduced to basics, integration is actually all about communication. The benefits of having diverse building products and systems co-operating with each other are self-evident. Faster response times, co-ordinated strategies in case of emergency or failure, and pre-planned and pre-programmed evacuation procedures are amongst the most effective results of inter-system communication.

BMS is essentially an attempt to find a common translation for all these different languages so that lighting, heating, ventilation and other equipment can work in harmony.

Apollo Fire Detectors Limited has been developing a solution to fire system integration for some time. The result is a simple, off-the shelf product called OpenConnect Gateway. OpenConnect takes the information from a fire alarm control panel and connects it to a building management system using standard protocols such as BACnet, Modbus or LonWorks. The device is effectively a 'plug and play' concept that fire panel manufacturers can incorporate into their existing products.

This integration solution has been developed in conjunction with Tridium and uses their well-

established Niagra AX software framework, on which many building monitoring, automation and control applications are based. Apollo has also worked closely with leading fire panel manufacturers through its Panel Partnership and will continue to support the development and adoption of OpenConnect as it comes to market. In line with Apollo's belief that collaboration and openness are the best basis for innovation, it will be making the OpenConnect protocol available to participating control panel manufacturers under licence. The licenced manufacturer will be able to develop their own software to incorporate this protocol and will provide a suitable physical connection between their panel and the OpenConnect Gateway. This allows sufficient freedom for the panel manufacturer to continue to offer its own unique design and features while incorporating the option for integration with BMS.

Installers benefit because there is no need for modification of fire detection and alarm devices used in conjunction with OpenConnect-enabled control panels. Nor is there any need for recurring engineering for each new project. End users will enjoy full integration of the fire system and reduced cost through the use of standard software and a single interface, while the integrity of the fire system remains assured. The new integration device is being made available in four base model options: 200 BMS points, 1,600 BMS points, 12,000 BMS points and 25,000 BMS points. For maximum integration, each OpenConnect Gateway includes as standard two Ethernet ports, an RS232 and RS484 port, a 15V dc input and two spare comms card slots.

Conclusion

The precautionary approach adopted in current codes and regulations when giving guidance about integration is understandable but not legally binding, and in practice system designers and specifiers have been moving towards greater integration for several years. Fire product manufacturers have also acknowledged the need for greater communication between fire and building service products through the development of interface units. However, the needs of the market continue to evolve and OpenConnect Gateway is one example of how the issue of integration can be resolved far more effectively using a single device than dozens of individual interfaces or bespoke solutions.

To summarise, fire detection systems evolved for the purpose of protecting lives and property. For this reason they should always be classed as safety-critical, which means that fire detection devices should be physically separate from other building services equipment. That said, there is no reason why closer information integration should not be pursued, especially if it brings practical benefits such as reduced time and cost without compromising the integrity of the fire system.

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FIRE SAFETY

Tunnel Vision

A Smarter Route to Tunnel Safety

In 1999, 39 persons died in a major fire in the Mont Blanc tunnel. While aiming for high levels of tunnel safety, it is also important to make best use of public resources. Society demands a high level of safety, but not at any cost whatsoever. Scientists from Lund and Borås have taken up the challenge to develop a new structure for fire safety in tunnels.

A number of horrific tunnel fires occurred in Europe around the turn of the 2000s. A heavy goods vehicle carrying flour and margarine caught fire in the Mont Blanc tunnel on the morning of 24 March 1999. The fire grew quickly, and the driver was forced to abandon his vehicle without being able to extinguish the fire. The fire spread to several other vehicles, and took over 50 hours to be brought under control. 39 people died. The accident required expensive and time-consuming repairs, with the result that the tunnel was closed for three years. Goods and passengers had to take long diversionary routes and spend time in queues. The social, political

and economic consequences were severe. As a consequence, legislation on minimum safety requirements in road tunnels in the EU was produced as an attempt to control the risk of tunnel fires. This in turn has resulted in the publication of Swedish legislation on fire safety.

For many years, scientists at SP in Borås and at Lund University have been working on fire



safety in tunnels. Two years ago, the group was asked by the Swedish Transport Administration, which is responsible for most of the road tunnels in Sweden, to formulate a new framework for fire safety in tunnels.

Since 1995, the Swedish Transport Administration (or the National Road Administration as it then was) has applied a technical description of how a road tunnel must be constructed. New editions were published in 1999, 2004 and most recently in 2011. The main aim, of course,

is that a tunnel must be safe. Society requires a high level of safety, but not at an unlimited cost. The following four principles provide guidance on how such balances might be achieved: risks that could be eliminated by reasonable means must be dealt with; major catastrophes must be avoided; public resources must be applied where they are most useful; and risks should be in proportion to benefit.

A Choice of Approach

A basic prerequisite for new guidelines for fire safety in tunnels is that Swedish legislation must be applied. This sets the minimum acceptable level of safety. The guidelines can then be designed in a number of different ways: they can, for example, be prescriptive in terms of details, or be more performance-based. Prescriptive specification has the drawback that costs for some tunnels can become unreasonably high, or that what might be better solutions cannot be applied as they conflict with the detailed specifications.

On the other hand, if the performance of a tunnel is determined by performance-based objectives, it is possible to encounter other problems. Demonstrating that required performance has actually been fulfilled is more difficult than following a detailed design approach. This means that performance requirements must be formulated so that they are clear and so that it is possible to verify them.

In its work, the group of scientists proposes a hybrid of prescriptive requirements, approvable solutions, and performance-based requirements. The new Building Regulations in Sweden present an example of this approach: starting from existing legislation, they express both prescriptive and performance requirements and acceptable solutions for fire safety. An approved design can be achieved in two ways: by following the approvable solutions or by showing that the performance requirements have been fulfilled. All prescriptive requirements have to be fulfilled. In this respect, the group has attempted to reflect the regulatory structure for buildings so that hopefully the sector can recognize itself.

The work can be divided into two parts: specification of requirements and verification. The first part, starting from existing legislation, is concerned with specifying fire safety requirements for tunnels. In turn, these requirements can be divided into overall and subsidiary requirement levels. The proposed framework has a total of six overall requirements, or basic requirements. Five of these basic requirements are general requirements that apply to the construction sector as a whole.

Lessons to Be Learnt

One of these five basic requirements is concerned with the ability to escape. In the Mont Blanc fire, evacuation failed very badly, with many persons dying in their vehicles. The danger was not made apparent to them. One lesson in this respect is the importance of clear instructions for those using the tunnel in respect of evacuation, e.g. through the use of loudspeakers and information signs.

Another basic requirement is concerned with the prevention of the spread of fire. In the Mont Blanc accident, the fire spread to several goods vehicles. This can be prevented by such means as transverse ventilation, immediately extracting hot fire gases. Another way of limiting the fire and its spread is the use of a fixed extinguishing system in the tunnel, which has the dual effect of cooling both the fire and adjacent targets.

The Mont Blanc tunnel had a transverse ventilation system. Unfortunately, however, the system had inadequate capacity and was wrongly used, with the result that the fire was able to

More information

Two reports on the new fire safety framework in tunnels can be downloaded from SP's website:

- SP Report 2012:26, Requirements and verification methods of tunnel safety and design.
- SP Report 2012:48, Performance-based requirements and recommendations for fire safety in road tunnels (FKR-BV12) [in Swedish].

The authors are Jonatan Gehandler, Haukur Ingason, Michael Strömgren, Anders Lönnermark (SP) and Håkan Frantzich (LTH).

spread over hundreds of meters between the vehicles. This lesson illustrates the importance of organizational fire protection and of ensuring that systems actually work in practice. In the case of buildings, this corresponds to systematic fire protection work. This is even more important in tunnels, as shown by the number of items of legislation that relate to the requirement.

As opposed to an ordinary building, a tunnel has vehicles passing through it. In this respect, a tunnel is more similar to a process industry. The process of flowing vehicles can be interrupted at any time. Requirement group no. 6 deals with managing the flow of vehicles. This includes dealing with accidents in an effective manner to prevent them escalating. The Mont Blanc fire revealed major shortcomings in how the rescue service and the tunnel control technicians dealt with the accident, underlining the importance of training exercises and having a well-trained and informed organization.

Proving the Theory

Part two of the work of preparing a new target standard is concerned with verification, i.e. showing that a tunnel meets the requirements. This can be done in two ways: either by complying with the provable design solutions that have been specified or by showing that the tunnel meets specified performance-based requirements.

To show, for example, that the requirement in respect of evacuation has been fulfilled, it can be appropriate to comply with the specified ap-

proval solutions. One such approvable design requirement is not to exceed a certain maximum distance between evacuation doors. However, if the conditions necessitate some other solution, it must instead be demonstrated that the design meets the performance requirement.

In this case, the performance-based requirement is that everyone should be able to evacuate before critical conditions, such as reduced visibility, arise. Fulfillment of performance-based requirements by a particular design arrangement can be verified by a scenario analysis, which is something that is already employed in the construction sector. A scenario analysis postulates a number of plausible accident scenarios that must achieve the performance-based requirements. Computer simulations and calculations evaluate the consequences which, for an approved tunnel, must fulfill the performance-based requirements.

Train for the Future

Prescriptive requirements, such as training and exercises, can be fulfilled in only one way, as demonstrated very clearly by the Mont Blanc fire. This particular requirement can be fulfilled only by regular training and exercises.

A tunnel is regarded as being sufficiently safe if it meets the framework requirements. The combination of prescriptive requirements, performance requirements and approvable solutions provides flexibility in respect of how the solution is designed and provided. Solutions can vary, depending on the conditions. Hopefully, this work will result in the production of a clear and simple process, bringing together innovations and an efficient use of resources, while at the same time meeting the overall requirement for safety. A further target is to avoid catastrophes such as the Mont Blanc tunnel fire in the future.

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COVER STORY

More than a **Cosmetic Change**

Rapid (De)Activation of Locks in Emergency Situations

While smudged makeup could be considered a minor emergency, the breakout of a fire or someone going on the rampage in a public building is a far more urgent situation that demands an instant reaction. SimonsVoss has enhanced their 3060 access control system with a solution for just such situations.



With a 3061 electronic cylinder fitted in each door, controlling access to individual rooms and the building in general is very much simplified by the 3060 digital locking system. One of the main features of the new cylinder is that it is powered by a battery with a significantly longer service life. The cylinder can be activated up to 300,000 times with standard button cell batteries over up to 10 years stand-by time. Frequently used central doors can be operated for years without the battery having to be replaced.

This digital locking cylinders can also store 3,000 access authorizations as well as administering 64,000 transponders per cylinder and 304,000 cylinders per transponder within a single locking system. But 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? The 3061 digital locking cylinder – door monitoring can detect all these situations and report them to a main control center, where individual status messages for each door are displayed on the Event Agent. This also allows you to filter out particular messages or to re-set them.

Access Under Control

Authorized users carry a transponder that either grants or denies access according to the programming carried out over the systems wireless Network 3065 from one or more PCs. Preparation of a locking plan on a PC and subsequent transfer to a PDA is also a feature of this system. Controlling done over the network nodes offers real-time monitoring and,

SimonsVoss is running their European roadshow again where visitors can find out about the new items and features available in their particular country. Stretching over a period of four weeks and appearing in 25 different towns, the tour enables installers and users to see the following new additions to the digital locking and access system:

- the Smartcard cylinder
- the door monitoring cylinder with surveillance function
- the SimonsVoss Mobile Key solution based on the NFC standard (Near Field Communication)
- Version 3.2 of the LSM software
- the new programming stick for small systems
- the new protection function mentioned in the article that deals with fire or amok situations

Please register before visiting the roadshow because places are limited. The remaining dates for the 2013 tour are:

- 06 May – Dordrecht, Netherlands, Hotel Villa Augustus
- 07 May – Copenhagen, Denmark, Scandic Sydhavnen
- 07 May – Milan, Italy, Devero Hotel
- 08 May – Sevenum, Netherlands, Partycentrum de Turfhoeve
- 13 May – Essen, Germany, Atlantic Congress Hotel
- 14 May – Cologne, Germany, Hyatt Regency
- 14 May – Lyon, France
- 15 May – Mainz, Germany, Atrium Hotel
- 16 May – Stuttgart, Germany, Dormero Hotel Stuttgart
- 16 May – Paris, France
- 17 May – Munich, Germany, Dolce Hotel

optionally, makes it possible to drive integrated external systems, such as to switch on lights or heating systems automatically when doors are used. Alternatively the 3067 programming transponder can make any necessary changes locally to the cylinder or the 3064 transponder on a small system with the simple press of a button, for example, if a key is lost or if there are changes in the locking plan.

Critical Reaction

While this configuration permits general access control on a daily basis, it has not until now been equipped to deal with the hostage or rampage situations that unfortunately hit the headlines ever more often. Above all, the users and operators of larger buildings – in particular those in the public sector, the healthcare and education sectors – would often like to have additional and rapidly functioning protective measures that can be implemented in critical situations: when the fire alarm sounds or people or equipment are under attack, maybe when someone runs amok in a school, it is essential to react quickly.

The newly conceived function permits all doors on the system to be either locked or opened within seconds at the touch of one button. Locking them prevents unauthorized persons from entering the rooms in the building. Conversely, opening them makes escape routes immediately free. The function has been implemented through an upgrade of the company's Wavenet Router that provides the communications between central PC and

the locks. The lock systems that are networked to each other can be activated or deactivated over radio and the signal from each router reaches up to 249 doors. And that still happens even if the communications and computer networks are already out of action.

The ability to either lock or unlock multiple doors simultaneously gives peace of mind to those who work in a building equipped with such a feature. It means that intruders with bad intentions will not have the freedom to roam throughout a building unhindered, and this alone can prevent a tragedy. Doors can still be opened from within and, in the case of a fire, all the right doors will be opened anyway to ensure that evacuation routes are free and emergency services have full access.

Of course, every installation has its own particular needs and configuration. Planners, installers and potential users alike will undoubtedly have questions about the system and how it can solve the specific access issues applying to their individual situation. The answers are happily provided anytime by SimonsVoss sales staff but can also be found during one of this year's roadshow events – see the adjacent panel for a list of forthcoming locations.

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ACCESS CONTROL

A Study in Security

Heriot-Watt University Opens Door to Student Bedroom Smart Access Control

Effective campus security is a difficult assignment for any university as it mostly depends on knowing who is on campus and where and when they have access. But when your on-site student accommodation is located in five buildings spread over two campuses' that are almost 40 miles apart, it becomes even more of a challenge.

That was the problem facing Scotland's Heriot-Watt University, one of the top UK universities for business and industry with an established reputation for world-class teaching and practical, leading-edge research, when they decided to upgrade their housing offering.

The university knows how important good quality accommodation is to the student experience and has 1,600 residential self-catering places available at its Edinburgh campus. 300 of these are in a new student residence development, while 218 residential places in a new £ 12 million state-of-the-

art student village are available at the Galashiels campus.

With regard to security, the university were looking to future-proof both sites for expansion. Andy Crichton, Salto Systems Scotland Area Manager, says "The key to gaining and keeping cost-effective control of all buildings across a campus is to get all the buildings running the same contactless smartcard system, eliminating the multitude of different security systems that typically get installed and added to over time. This can include an almost unmanageable mix of keys and pin-code locks that

present both estate and security departments with an impossible task of keeping on top of what is secure, controlling keys and codes, not to mention the cost of having to replace locks where keys have been lost and security has been compromised.

Virtually Wireless

To avoid such a scenario we were asked to put together two access control system designs for the university. Both would run across five buildings over two sites, two buildings on the Riccarton campus in Edinburgh and three buildings at

Borders campus in Galashiels, using the Salto Virtual Network (SVN) and Salto Wireless Network (SWN). Both sites would also use the Mi-fare DESfire card. "

The virtual network allows stand-alone locks to read, receive and write information via Data-on-Card technology. With this, user-related access information is stored in an encrypted format on the smart card with online wall readers able to update (and receive information from) the cards at any time anywhere in the building. The wireless network includes all the features of SVN but additionally al-

lows users to control access in real time. All locks communicate with a central server via gateways in real time through RF (2,4Ghz) to provide the highest level of security and control.

Crichton continues, "On the Riccarton campus, the two buildings, Christina Miller Hall east and west, are split into three blocks each and designated blocks A, B and C. The main reception is in the east building with a shared laundry block in the west building that all students need to access. There are 330 doors secured across both buildings.

No Lockouts

The buildings, which consist of five bedroom flats and 10–12 bedroom flats, are secured with external wall readers at the main entrance, with blocks A and B sharing access. The main entrance door is also protected by an XS4 wireless handle and requires an authorized card to enter at all times. The bedroom doors are secured by the same XS4 wireless handles set in toggle mode. This allows access via the card which puts the lock into an unlocked mode to allow free access to the room. This particular feature was requested by the university to assist them when students locked themselves out of their flats by leaving their access cards in their rooms.

Meanwhile on the Galasheils campus, their three buildings consist of the Gateway building with 135 doors, Pavilion One with 156 doors and Pavilion Two with 268 doors. The Gateway building has three hard-wired main entrance doors. The main reception is in the Gateway building as is the laundry area. All students have access to these areas. The bedrooms are set up to operate here with a function known as 'exit leaves open'. Students are required to use their access card to gain entry, but when they leave their room the lock goes into an unlocked state for a predetermined time. As at Riccarton, the flats here are also fitted with XS4 wireless handle sets.

All bedrooms in both campuses also have Salto Energy Saving Devices (ESD) fitted. These can only be used by the student assigned to that room. If the student goes to another room and inserts their

card in the ESD it will not activate the power in that room."

Local Delegation

Adrian Johnston, Project Manager Estates Services at Heriot-Watt University comments, "Residential accommodation at many universities can face a number of security issues so ensuring the safety of students and their assets is a high priority.

Controlling access therefore plays a very important role in securing and protecting buildings at

both our Riccarton and Galasheils campuses. The Salto Pro Access for service software we're now using allows us to control the whole system centrally from the main data centre located on the Riccarton campus, while individual departments on both campuses can manage and configure their own doors, users and access rights locally via the WAN network.

We selected a Salto solution because of their reputation in advanced technology security solutions for the education sector. Our

new XS4 smart locks now enable us to upgrade our security arrangements as and when required without having to buy new hardware, saving Heriot-Watt long-term operating costs while providing the university with what it needs most, 24/7 total control."

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City Hospital Birmingham Can Now 'Lockdown' with ISM's Genesys PSIM Software

Assaults against NHS staff have increased considerably in the past few years with fears that extended waiting times and workforce cutbacks are to blame. Often these attacks don't result in a successful prosecution against the perpetrators. ISM were approached by Birmingham City Hospital to help address this rising problem and to provide a major incident control software solution for the impending Olympic games. ISM recommended Genesys2, their market leading integrated security management software.

ISM's PSIM Genesys2 was chosen when the security team at the Sandwell and West Birmingham Hospital NHS Trust were exploring the options for a flexible Lockdown system at the City Hospital, Birmingham. In the event of a major incident involving wide spread contamination or an assault against a staff member, they had to be able to lockdown the entire accident and emergency department.

ISM's Ultimate intercom system was also chosen by the hospital to control the passage of people through these main 'lockdown' doors via a network of video door entry phones integrated with Genesys2.

The brief from the Trust was precise and exacting. For example, the system had to provide instant and simultaneous Lockdown in the assigned areas and perform Partial, Portable, Progressive or full lockdown from one control point. It had to utilise the existing access control and have an 'access override' feature restricted to authorised NHS staff. Given the widespread austerity measures imposed on public services, the system had to be cost effective with low maintenance costs. It had to demonstrate cost efficiencies through a better, more targeted use of security and other staff and it had to be scalable.

Peter Finch, Security Advisor at the Trust said, "I am delighted with the work of ISM. We can

now lockdown a number of doors simultaneously within our lockdown profile at City Hospital in a split second. This is vital if we are to protect our patients, our staff and members of the public, not to mention our hospital site from the impact of a terrorist attack or a major incident."

Genesys2 Installed, Phase 2 in Progress

"Genesys integrates with our existing access control system which is vital," continues Peter. "It means we only need deploy minimal security resources to maintain the security of our site and we can protect our healthcare delivery from unanticipated interruptions."



Birmingham
City Hospital

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CEM SYSTEMS

From Tyco Security Products

ACCESS CONTROL

No Hurdles for the ‚Speed Team‘

Modern Access Control for the Protestant Hospital in Mülheim

The Protestant hospital in Mülheim an der Ruhr was founded on the initiative of a Protestant Priest in the middle of the 19th century. Today it belongs to the Ategris holding company that runs numerous other hospitals in Mülheim and Oberhausen. With 602 beds and around 1,250 staff it is also an academic college hospital of the University of Düsseldorf. The clinic uses the Aeos security management platform from Nedap and the off-line lock system from Salto, provided by GST Gesellschaft für Sicherheitstechnik.

When the quick-response emergency team – internally known as ‚Christoph 7‘ after the most famous rescue helicopter in Germany – rushes to an emergency such as a heart attack or a stroke somewhere within the hospital, there is no time to be lost: in the most serious case it can be a matter of life or death. Saving lives has absolute priority of course and requires unhindered access – the access control management system must therefore be prepared for this eventuality. So the Team has its own special ‚Christoph 7‘ cards: held in front of any card reader they initiate elevator priority control. The elevator that is specially reserved for the emergency team is ordered to the appropriate floor. Only when a Christoph 7 card is used in the elevator will it then go with priority to the selected floor. The elevator is released for normal operation again by the Team by card.

This is just one of many features that the new access control system provides for the Protestant hospital in Mülheim. The system has been realized by the local company GST Gesellschaft für Sicherheitstechnik using the Aeos security and access management system from Nedap as well as with an electronic lock system from Salto.

Paving the Way for Flexibility

The foundation of the system goes back to an investment decision made in 2008. Back then the hospital changed from the outdated old system in a migration process to a Nedap Aeos. This



Nedap Aeos is a comprehensive software package based on IP, Web, Java and Linux that manages all the security needs of one or multiple buildings

comprehensive software on IP, Web, Java and Linux basis manages all the security requirements of one or many buildings. As well as access control, this includes the identity and authorization management, IP video management and intrusion alarms. Add to that the supervision and reporting with web-based alarm administration via a web-based, operating system independent graphic interface.

The Salto off-line system has been fully integrated into the Aeos security management platform and thereby enables the homogeneous administration of all components, people and functions. It manages all online doors and online functions, the access doors, the off-line lock system, room doors, patient cabinets and containers, employee cupboards as well as mobile care and food trolleys.

The creation of a new contactless card, including the photo, is achieved using the Aeos software. An ID card can be created on the card printer for every data record in the system and assigned the corresponding authority.

People Instead of ID Carriers

A particular advantage of the Aeos platform lies in the fact that it is not based on ID carriers but people. The difference is immediately noticeable, for example, if a card is lost. The entire employee record must not be re-entered in the system just because a single identification number of the affected person is missing. „This particular criteria can be the deciding factor when choosing the system, above all if there are numerous locations at which the ID features must be distinguished“, says Dietmar Vetten of GST. This fact permits the issue of multiple identification devices per person. Some groups of people have, for example, two ID cards in one that are valid in different hospitals.

The cards replace the previously common bunches of keys. They don't just open doors and cabinets – the elevator can also be controlled with them. Meanwhile long-range readers have been installed near the elevators: these recognize when a bed is moved close to the elevator and permit priority use. The authority can also be organized differentially so that a priority usage is only available if a member of staff arrives with a bed – if he is alone he will be treated like every other member of staff.

Mechanically Stable – Highly Flexible Functionality

Aeos manages a total of 1,580 off-line lock systems. The choice fell to Salto on the one hand because of a range of practical stress tests in various wards of the hospital in which the striker as well as the lock cylinder were found to be particularly stable mechanically compared to systems from other manufacturers.

In addition, no other manufacturer currently has such a wide product range. Dietmar Vetten says: „From the striker for a glass door through panic and fire alarm points up to padlocks and sliding door solutions, various different cabinet locks as well as the most varied types of printer; no requirement is not met“. The extent of functionality is also unbeatable. The doors can be controlled in the basic function independently of the access control authorizations. So the doors to the administration offices, for example, remain open for the rest of the day once they have

been opened first thing in the morning and are automatically locked again after a preset period of time.

Naturally these doors can also be locked by authorized staff in between times (e.g. during the lunch break). „Management is easier as mainly electronic strikers are used as against electronic cylinders“, says Simone Fabek, head of Facility Management at the hospital. In general, practice has shown that the use of strikers as against locks has significant advantages. The automatic release of the catch by using the ID card means that it is no longer necessary to manually open the door with a handle as was necessary until now – a big advantage in the hectic working day of a clinic. The doors can be locked either with the ID card or by simply pulling the door to. Certain doors can also be locked from inside by pressing the „do not disturb“ button on the striker.

A further apparently small matter should also not be overlooked that make the off-line systems from Salto so practical and cost-efficient: they are fitted with conventional batteries that are on sale in every DIY store. Georg Thies, a member of the hospital's Facility Management team points out that many manufacturers use special batteries – this makes the maintenance and accessories expensive. The current charged state of the batteries is transmitted to the Aeos ID cards, which enables their exchange to be planned in good time and carried out without involving the users.

Doors and Cabinets

Some 470 of the 1,580 off-line systems serve to secure the changing room cabinets or medication cabinets of the staff as well as the patient's own cabinets. A special feature of the Mülheimer hospital are the central cabinets and the mobile cabinets of each ward: they are filled by external service providers with the necessary materials that the nurses need in the individual patient rooms. These include, for example, bandages and syringes.

The cabinets are used here because the wards are very large and the distances sometimes reach over two buildings. They are kept locked to protect their contents against unauthorized use and ensure that they are always fully equipped - only authorized nurses can open them.

Emergency Door Monitoring and Canteen Trolleys

Applications of the security management system can be found everywhere. So all escape doors – i.e. those doors that are on escape and rescue routes within the hospital – are connected to Aeos. Whereas alarms could only be raised before by pressing an emergency button, they can now also be alerted at a central point and forwarded. The connection also serves to prevent doors being opened without permission – if this happens anyway an alarm is raised in Aeos so



The clear and user-friendly GUI of Nedap Aeos

that the door can be closed again. An additional connection to the video surveillance system is also planned.

The scope of the Nedap software reaches even as far as the catering service: the central food supply service functions in this Mülheim hospital in that the food is delivered to the kitchen deep frozen, divided into portions and stacked in the canteen trolleys. It is then thawed and carefully warmed up on the ward so that it doesn't arrive on the plates lukewarm or even cold any more because of the long transport distances. Each of these canteen trolleys has a transponder that automatically opens the door in front as it passes over the inductive loop in the floor directly below. In this way it is not necessary for a member of staff to manually open a door with their card each time and the kitchen remains accessible to authorized persons.

Central Location – Preferred Parking

For shopping-lovers it is very practical to use the car park of the centrally located hospital, and so some employees had the idea of using their ID cards outside normal working hours. This is now prevented by a connection to the Aeos software, as Dietmar Vetten of GST explains: „The installation specialist has fitted a card reader to the parking lot barrier that is connected to the Aeos system. This has saved having three separate proprietary parking management systems“.

The parking spaces can be of ‚mixed‘ use according to an algorithm – that is, by the public (by visitors) and by staff. The software shows the current occupancy status of each. If one of the staff park there too long an email is sent to the facility management personnel. Parking authorization for the various stand-by services is organized so that just the one person from each

stand-by team that actually has stand-by duty can park there during the appropriate shift, even though all the staff that provide stand-by cover have authorization for the various parking lots.

Optimum Cooperation

With regard to the implementation of all these systems, no better praise can be given by the customer. This applies not only to the support by GST but also, as Georg Thies and Klaus Domscheit emphasize, for the „very good teamwork between Nedap and Salto“. The Salto striker portfolio, that has meanwhile been in use in the hospital for four years, provides an off-line product choice that is hard to beat – good products alone are not decisive but also good communication within the triangle of manufacturer, installer and customer/user.

As Axel Schmidt of Salto points out, this has already been tested „in hundreds of joint projects in Europe and worldwide“. During this time the cooperation has been optimized, as Christian Nagel of Nedap confirms: „Our emphasis is on the integration of our software – because we have open platform, and for this we work long-term together with experienced partners“.

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ACCESS CONTROL

Key Control at Luxury High-Rise Condo

Management System Allows Management to Track and Document Key Usage

Keeping residents and the facility safe and secure is a serious undertaking at the Promenade Condominium. For the past 17 years, management has relied on Morse Watchmans' KeyWatcher key control and management systems to help achieve this goal.

Located on the Upper East Side of Manhattan, The Promenade Condominium is a residential high-rise luxury condominium with 191 units on 38 floors. It is distinguished by spectacular views and full amenities including a health club and pool. The building offers an outdoor jogging track and a fitness center, wrap-around roof terrace, conference room, party room, children's playroom, billiard room, bicycle and storage room and a garage – all with controlled access. Building management holds keys for these areas as well as keys for each unit and uses the Morse Watchmans key control and management system to secure, control and track keys.

No Issues of Unmanaged Access

"Holding the keys in the KeyWatcher eliminates any issues of unmanaged access," said Dominick Camilleri, Resident Manager at The Promenade Condominium. "The system works very well and over the years we have never had a problem."

The Promenade's original KeyWatcher was recently updated with the newer KeyWatcher Illuminated system, along with the complementary KeyWatcher Key-Pro software to enable improved tracking of key usage. The installation of the new system followed a detailed technical evaluation that also included competitive products and, according to Mr. Camilleri, the Morse Watchmans system was found to be superior. He says, "The KeyWatcher Illuminated system was selected over the other brands because of its quality, performance, reliability and scalability. "Admittedly, we were spoiled by our past experi-



Dominick Camilleri, Resident Manager at Promenade Condominium with his KeyWatcher

ence with the old KeyWatcher system. It really set the standard for our evaluation of a replacement system in terms of reliability and longevity."

Similar in appearance to the original, the new KeyWatcher Illuminated system offers several convenient features that make controlling keys for a large residential property easier and improve accounting and tracking. Built into a rugged steel cabinet with highly illuminated key slots, the improved design makes it easier to locate keys and maximize wall space. The illuminated two line by 16 character screen clearly displays messages and user prompts for a variety

of different functions, including removal and replacement of keys. The cabinet is wired with a tamper-proof mechanism and alarms can be sent automatically via email to designated managers.

Networked Control

The Key-Pro software enables Mr. Camilleri to monitor activity from any desktop connected to the network. He can also trace key movements by time, date and user code. The automated record keeping software can also help to reduce the number of man hours spent searching for keys or following up on incidents.

"What we most like about the new system is the capability for tracking keys," adds Mr. Camilleri. "For liability issues and other reasons, it is important for us to know and document the whereabouts of keys and the length of time that keys are out. The KeyWatcher gives us that information in an easy to read report. I would definitely recommend this product to other large facilities that need key control."

Whether it's a high-rise luxury condo or an apartment complex, Morse Watchmans' key control systems provide tenants and property management with improved security measures, increased convenience and time saving procedures.

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ACCESS CONTROL

Upping the Ante

From Access Reader to Innovative Access Terminal

In our first GIT SECURITY issue this year we introduced the emerald access control terminal to our readers. We now interviewed Philip Verner of CEM Systems to find out more about the departure from traditional reader design to innovative terminal design that is revolutionising the security industry.

GIT SECURITY: Mr Verner, you recently launched the CEM emerald Intelligent Access Terminal. It's not just a standard access device, is it?

Philip Verner: As one of the next generation of CEM Ethernet edge devices, emerald is revolutionizing the security industry. The market is very excited about its introduction because of its big selling points that include the integrated access control and VoIP intercom functionality, the scramble keypad and Remote Applications functionality. Running remote applications increases the simplicity and scope of the system and provides advanced security intelligence directly at the door. We see remote applications as revolutionizing how this is accessed – moving intelligence typically only accessed via a PC client directly to the door, all with minimal effort from the user.

Did this new product already find a ready market?

Philip Verner: Certain applications will appeal more to different groups of users, such as general users, engineers or security personnel. General users can benefit from applications such as First and Last Swipes allowing them to manage their own time and attendance, thereby increasing efficiency within an organization. The Your Visits application allows a user to view the visi-

tor image so he/she knows who they are meeting prior to an appointment. Engineers are able to view and configure server data at the door and security personnel can access applications such as Device with the Most Alarms, Occupancy and Muster Zones, which provide them with an abundance of relevant information while ensuring a high level of security at all times. So the short answer to your question is „Yes, the product has found many different markets“.

For those who haven't yet read about the terminal: what are its most important features?

Philip Verner: Emerald features an innovative LCD touch screen, access control reader functionality, motion detection, an integrated VoIP intercom and a range of remote server based applications, all in one device. All these features give the user the opportunity to enhance the overall system functionality. The bright, 4.3" LCD touch screen with hardened glass, for example, displays predefined messages and icons to cardholders depending on their privileges. The touch screen uses capacitive technology, which enables it to respond to the lightest touch. Emerald communicates directly with the CEM AC2000 host server using Ethernet connectivity, removing the need for an additional controller in the system design. The terminal has a large internal database enabling it to operate off-line should communications be temporarily lost with the host server.

What else have you built into the terminal and how can it be used?

Philip Verner: Emerald provides fully integrated audio intercom functionality at the door through a built-in weather-resistant microphone and speaker. The local graphical user interface (GUI) gives access to authorized AC2000 server-based applications at the door, providing users with a wide choice of information and decision-making tools, directly at the edge. They display system information for cardholders such as Your First and Last Swipes, the Info application which allows the system administrator to display important information such as Health and Safety messages, site directions or a list of telephone numbers for assistance. All these remote applications have a wide range of appeal for a range of different users.

What is particularly intelligent about your new emerald Intelligent Access terminal?

Philip Verner: Our intelligent field devices have been available in the market since the 1990s. Indeed, our company was the first to introduce an IP card reader with a keypad, LCD display screen and a large internal database to ensure zero downtime, allowing intelligent access control to be available at the door at all times. Emerald has all these features, including the ability to access AC2000 server-based applications –

CEM At Abu Dhabi Investment Council

CEM Systems announced that AC2000 SE (Standard Edition) security management system has been successfully installed at Abu Dhabi Investment Council headquarters, Al Bahar Towers. AC2000 SE was selected to secure the premises by CEM Approved Reseller, Tyco Fire & Security UAE LLC, as part of their security solution which comprises of Access Control, CCTV, Intercom, Perimeter and Physical Security.

Abu Dhabi Investment Council is an investment arm of the Government of Abu Dhabi. "The Council" is responsible for investing part of the government's surplus financial resources through a globally diversified investment strategy. Work began in 2009 to construct Al Bahar Towers, the new office for the Council.

"CEM's AC2000 proved the best solution for the Council because it is a feature rich system with the flexibility to be tailored and integrated to third party systems to meet the client's requirements" said Craig Menzies, Tyco Fire & Security UAE LLC.

The AC2000 SE, powerful access control and integrated security management system, secures both of the Al Bahar Towers, as well as the shared parking, ground and mezzanine levels. A custom lift control inter-



face was developed by CEM allowing identification and special access for VIP users requesting lift call. Lift cars are then assigned on a priority basis.

The system at Al Bahar Towers utilises powerful AC2000 software modules including AC2000 AED (Alarm Event Display) which provides a real time graphical representation of events and alarms occurring throughout the system. It also includes AC2000 VIPPS (Visual Imaging & Pass Production System) which allows the Council administrators to produce professional quality permanent and temporary ID passes.

AC2000 Failover has been used at Al Bahar Towers to create a system with a high level of redundancy.

AC2000 Failover provides the ability to create and maintain a copy of the main AC2000 server. In the event that the main server fails, the AC2000 Failover server will immediately take over until such times as the main server is restored.

AC2000 SE is supported at Al Bahar Towers by CEM's industry leading hardware. The installation utilises the S610s card reader which offers intelligence at the door with an offline database for card validation even when communication with the host server is temporarily unavailable.

normally only available on a client PC – directly at the door. Emerald is the next generation of intelligent field devices, allowing businesses the opportunity to use the system as more of a business tool rather than just for security. It can increase business efficiency, with applications such as Visitor Management as well as Open/Close providing the ability to control equipment, such as turning on lights and PIRs for example, that results in energy and cost savings.

Are there any particular vertical markets you are targeting with the product?

Philip Verner: Emerald is creating new opportunities for both the user and CEM. It is allowing us to better target the different verticals as we can tailor the product through such things as the remote applications, allowing us to meet unique vertical requirements. Emerald can be used at similar sites to traditional access control readers such as schools, hospitals, airports, sea-ports, and casinos; anywhere that requires the highest level of security to ensure the safety of those inside the building. With the new features available, security can be heightened at restricted areas, such as hospital pharmacies and air traffic control towers or increased if the site is on high alert.

Could you name us the one or other interesting company or institution already using it



and tell us about their experience with the product?

Philip Verner: Emerald has only just been released to market, but our dealers worldwide are installing emerald devices on their buildings for potential customers to view. Our existing customer base is looking forward to transitioning emerald into their sites.

◀ **Emerald in use:** "Features LCD touch screen, access control reader functionality, motion detection, integrated VoIP intercom and a range of remote server based applications – all in one device."

"Emerald" sounds quite luxurious – was that the reason for picking this brand name?

Philip Verner: CEM Systems is part of Tyco Security Products. With its culture for innovation, Tyco has invested heavily in the technology platform for this new touch screen terminal. With such a level of investment; it was clear that the new terminal required a global brand name that could be easily recognized and trademarked for protection. The name emerald was chosen as it represents the new gem of CEM systems. It is a cutting edge device that stands out in the market place and is set to revolutionize and redefine the way we all use access control.

Thank you for the interview Mr. Verner.

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Rachel Marley

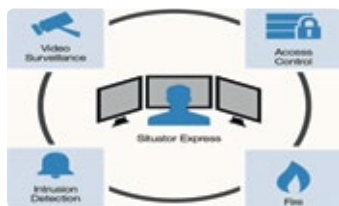
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Situation Management Solution

Nice Systems has announced the roll-out of Situator Express, an easy to deploy solution for security situation management which adds an advanced layer of management to the Nicevision IP video surveillance system. The solution enables organizations to effectively monitor, manage and correlate data from four principal security systems – video, access control, intrusion, and fire detection – at a low total cost of ownership. The open solution fuses video data from Nicevision with incoming data from additional security systems to provide a unified, holistic operating picture with an intuitive display of maps and images. Using smart sensor correlation, video analytics, and automatic adaptive workflows,



Situator Express enables organizations to manage security situations in real time and coordinate the most effective responses according to predefined security procedures. Information is shared with all relevant stakeholders and collaboration is promoted with other departments and external agencies. The solution also has an integrated reporting tool that provides information for later investigation, debriefing, and proof of compliance. www.nice.com

Hybrid DVR

LG introduces its Hybrid DVR LRH7160D, combining style with ease of use and all-round flexibility to suit every application. Its processing power allows a feature-rich setup and a very high image quality in live display and playback. 24 channels are divided into eight fixed analogue, eight fixed IP channels and eight totally flexible channels which can be IP, analogue or a mixture of both. Cameras can be clicked and dragged on screen to create the multiscreen the end user requires. Working with LG and Axis IP cameras up to 3MP with real-time and dual streams, analogue channels are recorded at a crisp D1 resolution in real-time. Internal storage offers 12TB (6x2TB) and a further 8TB via e-Sata, recording HD images is no problem for the LRH range. Video export in proprietary or AVI format, as well as USB and



network export options and with Dual NIC means no network port bottlenecks. Setup is quick and simple; from first power-up, the Smart-setup 5 step wizard is launched, which enables the installer to have a fully functional, recording DVR, network enabled in just a few minutes. The Network Client software supplied with the DVR allows fully functional remote access and configuration of multiple DVR (sites) and can view up to 3MP real-time streams. info@eu-sp.com

Bullet Type Outdoor Camera

Everfocus' EZ 655 is an 8,5mm (1/3") day/night bullet type camera with WDR in a vandal-proof and IP66 weatherproof outdoor casing with IR LED: The Sony 960H WDR sensor provides 5x better native light sensitivity. The 35 LED deliver an extended IR range of up to 60 metres (depending on the reflections in scenery); the IR power is adjustable. Zoom and focus of the built-in DC varifocal lens (choose between EZ 655/P-V1 with 2,8~12mm lens or EZ 655/P-V2 with 5~50mm lens) are ad-

justable through the camera bottom. Further features are: Split front glass to prevent internal IR reflections; Day/night function; Integrated Wide Dynamic Range; Integrated 2D & 3D DNR; Motion detection with 4 adjustable zones; Privacy mask function with 15 adjustable zones; Up to 16x digital zoom; Digital Image Stabilization (DIS); Easy bottom access to video test point and lens/OSD menu controls inside weatherproof cover; Integrated wall bracket. www.everfocus.com

Thinking Camera

Eyewatch's high-resolution camera is entirely based on IT standards. Applications which, up to now, had to be reserved for centrally-based servers, can now be directly installed and executed within the camera. The Company integrates image analysis, intelligence and computing performance, for DVR/NVR, in the camera. The Company's Software Developer Kit (SDK) gives the manufacturers of video analysis and other applications tools to develop uses or to port them to the Eyewatch platform and install them



flexibly in the camera. The system architecture based on Linux overcomes the limitations of centrally based image evaluation systems. Analysis and evaluation are carried out directly in the camera. info@eyewatch-gmbh.com

Customized Solution for Flexible Building Management

With the latest release of its Building Integration System (BIS), Bosch Security Systems offers improved scalability and third-party integration, efficient video and access integration as well as improved situational awareness. Combining different building management functions in one platform, it presents a flexible, standardized interface to various sub-systems. This proven solution integrates security-, life safety-, communication-, and building management in one front-end system with a customizable user interface. The system features optimized third-party integration. This includes building management systems with analog sensor values like temperature, power consumption or oxygen levels. Now these can be graphically displayed on the operator client. By monitoring energy consumption or air quality and temperature, an operator can react appropriately and before a criti-



cal situation arises. With the update to version 3.0, video integration has been further enhanced. It supports any of the Company's recording solution such as DVR 400/600/700, BRS (HD) plus the latest VRM version. At the same time new video devices can be integrated much faster due to frequently updated driver packages. www.boschsecurity.com

Locker Management by Smartphone or Tablet

Nedap's Locker Management solution Loxs can be managed from any Smartphone or Tablet device. Both can now be used to block, release, and unlock any locker or lockable component. "Very convenient in case a locker-owner went on vacation and left a rotten sandwich behind," the Company says. The user only has to log on to the webserver via his Wifi network. A custom designed menu system suitable for accessing the service will then be displayed enabling to manage the lockers. This is an



extra supervisor-feature, in addition to the Loxs webserver and terminal functionality. www.nedap.com

Patented Multifocal Sensor Technology

The German Patent and Trademark Office has granted Dallmeier a patent entitled "Überwachungseinrichtung" for "Panomera" with an issue date of 4.6.2011. Meanwhile, the 3-months objection period, during which third parties can raise an objection against the assignation of patent, has expired. As no legally effective protest has been filed, the assignation of patent has now become irrevocable. It has been just over a year since the application was filed and the German patent has finally been granted. "A very short time when one considers that patent applications can often drag on for several years," explains Dieter Dallmeier. "This patent underscores the unique nature of this technology." The multifocal sensor system is based on a special lens and sensor concept: It works with several lenses, each of which has a different focal length. The camera can thus be adapted to the area for surveillance in an optimal way, so details are still clearly visible, not only close up but also at very long distances, and individuals can



be recognized even at 160m distance. The camera permanently records the whole image with highest detail resolution. PTZ functions like panning or zooming are therefore also possible in the recordings. This way every incident can be reconstructed and documented subsequently after the event. The system is already used in numerous national and international projects, e.g. in various German Football League stadia (Mönchengladbach, Leverkusen, Cologne, Dortmund, ...), at airports (Nuremberg, Naples) or in the French shopping-mall La Part-Dieu in Lyon. www.dallmeier.com

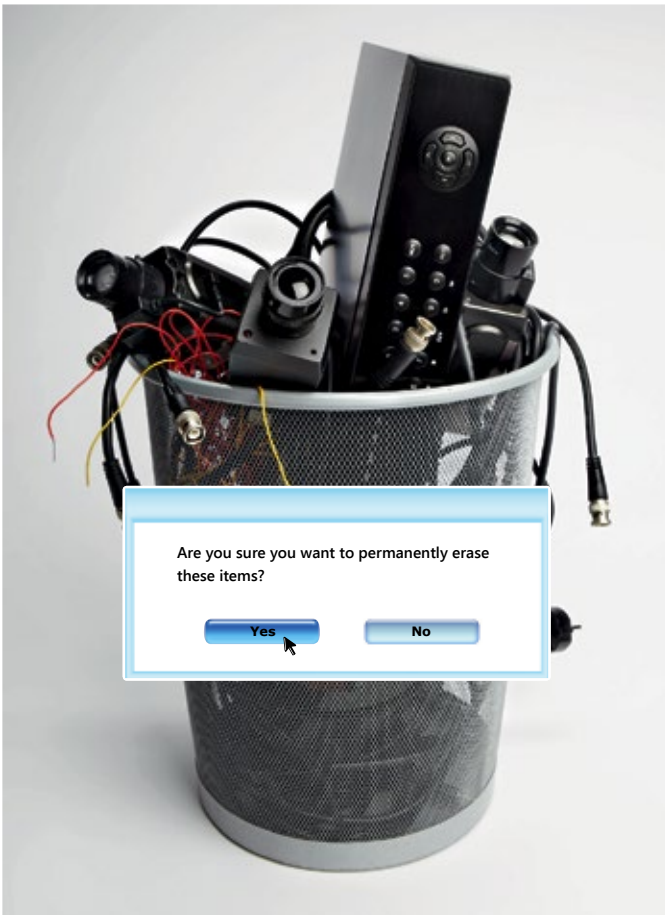
IP Dome Camera

Dallmeier expands its camera portfolio by another IP dome camera: The DDF4820HDV-DN is a HD network camera built into a vandal-resistant (IK10) dome enclosure. It provides real-time Full HD video (1,080p/30) using the H.264 codec, currently, the most advanced standard for high-efficiency video compression, and supports resolutions up to 3-megapixel. Besides a comprehensive set of automatic and manual image optimization functions and many other setting options, it features automatic Day/Night operation supported by integrated ambient light sensing and a removable IR cut filter (ICR). In addition, the camera is equipped with a fast (large maximum aperture) and motor-driven P-Iris megapixel varifocal lens (F1.2–F2.3/3–9mm) which allows for the convenient adjustment/ configuration of the zoom, focus and iris via the web browser. The novel P-Iris control technology, designed for a precise and automatic adjustment of



the optimum aperture, thereby realizes a significantly improved image quality compared to conventional DC auto iris lenses under almost all lighting conditions. The results are excellent contrast, brilliant clarity and enhanced detail resolution combined with a greater depth of field. In conjunction with the Digital Image Shift function, which provides for a subsequent digital fine alignment of the image section, a convenient and straightforward installation process of the camera is reached. 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



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VIDEO SURVEILLANCE

IP Video Surveillance: Smarter and Smarter

How Cameras and Applications Are Evolving

Living with intelligent devices is a dream we have had for centuries. Michelangelo, Jules Verne and many other great thinkers had this vision, but their vision preceded the technology of their time. With Moore's law and all the technology we have created, isn't it time for this dream to come true?

The intelligent home is slowly emerging after many false starts – albeit not the clever Jetson's fridge but we have automatic thermostats to learn our home preferences and control heating and cooling. I've had my automatic lawnmower for more than 10 years. While I'm a happy user, the technology is not yet common.

In our industry, guard responsibilities have remained more or less the same because technology cannot match the human brain's abilities. But advancements in camera and software technology are enhancing guard efficiency as they can be guided by video on smartphones or tablets and cameras that actually send alerts pro-actively. This is just the beginning.

where IP cameras were not an option. Traditional solutions used an analog camera attached to a video encoder. But by separating the optical unit from the network camera's "guts," it is now possible to make all-digital IP pinhole cameras with HDTV quality. This could be inside your ATM, drop ceiling in a store or any other place where discreet installations are a must.

Smarter Resolution

IP-based cameras are not restricted to the low image resolution achieved by analog cameras. With HDTV-compliant cameras, you get dramatically more video detail than with an analog camera, just like you have in your living room. But today we've moved slightly away from the more-pixels-is-better concept, and instead have concentrated on delivering better image usability in all lighting scenarios and environments. Thanks to better processing power and in-camera software, IP cameras are hitting the market with increasingly better WDR and light sensitivity (i.e. Lightfinder) with precise iris control. Smarter design

Pinhole cameras are great for covert applications; however this was one of the few areas

Smarter Analytics

There has been so much talk about the advanced analytics that people tend to forget the value of the most basic ones. After all, what is the value of a camera when someone has covered the lens with chewing gum, lipstick or spray paint? With 2-way communications, network cameras can send operators alerts of tampering or other failures. In the same manner, we see video motion detection becoming better and better, and today you can expect it not to generate the previous false triggers caused by switching on and off the lights. With thermal network cameras you can detect people and animals with high accuracy in places they are not supposed to be, which makes the technology an ideal combination with analytics.



Martin Gren,
Co-founder of Axis
Communications

Smarter Integration

Network cameras communicate in both directions, providing the ability to be integrated with other devices such as access control, point of sales (POS) terminals and more.

With the intelligence and better processing power in the cameras, they are now able to run embedded applications such as people counting, cross line detection and advanced video motion detection. Even more advanced applications previously only possible on a dedicated PC or server, such as license plate recognition, facial recognition and full VMS suites, can be found.

I believe we will see even more applications emerge over the coming years as more software developers begin to use open camera platforms as their new playground.

Smarter Deployments

Memory sizes are growing with Moore's Law and edge storage offers many new benefits, which will turn into a game-changer. As capacity grows within the next decade, you will be able to store years of video in the highest resolution inside the camera with a lower resolution stored in the VMS or the cloud. The role of the Video Management System will remain critical to managing all the cameras, but for the smaller instal-

lations camera-based recordings with a cloud solution for monitoring will be the norm.

Even smarter compression?

There is one trend going in the opposite direction: lower compression. In the early days of IP, all video was stored as individual JPEGs. Next came MPEG-4 but with very low uptake, as the benefits were not worth the efforts to change. But since H.264 compression was so much better and the need for higher and higher resolution grew, the whole industry made the switch rapidly.

Thanks to better technology such as H.264 Main Profile, data rates are trying to keep up. But in many applications, city surveillance in particular, we have seen many users who want lower compression to see much more details. Higher resolution cameras tend to give more noise, which is difficult to compress. Fortunately, the cost of storage continues to fall with Moore's Law, creating the contrarian trend of lower compression desires.

The recently ratified H.265 standard will eventually make it to video surveillance. The big question is if true bandwidth savings are enough, or just a minor enhancement. What is certain is that early implementations of H.265 will not

offer much savings compared to H.264's emergence.

Smarter World

All these technology trends will hopefully change our society into a smarter, safer and more secure world. The great thinkers of yesterday would be proud of what we've accomplished, but envious that they didn't have access to this great technology. Some of them for sure would have made extraordinary software developers today.

▶ CONTACT

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AIRPORTS + AVIATION

Jets Secured

"Aero-Dienst" Protects Hangars with Panomera

As a full-range supplier in the field of business aviation, Nuremberg-based Aero-Dienst also demands the highest standards when it comes to security. That is why it is using a completely new video surveillance concept: Modern multifocal sensor systems ensure the security of all four of its hangars including the outdoor areas.

Aero-Dienst has provided its customers with an extensive range of services in business-related aviation for over 50 years. This includes maintenance and operation as well as purchase, sales and management of business jets. Almost 300 employees look after the special requirements of their customers. Here too, the question of security is important. "We intend to afford our

customers the highest level of security when they entrust us with the care of their jets", declares managing director Martin Bauer.

Accordingly, Aero-Dienst was searching for a video surveillance system that would meet its needs – and was leaving nothing to chance in the process. A number of providers were reviewed, and no less than three test installations including cameras from various manufacturers were tried. But none of the test configurations satisfied the Nuremberg company's requirements. "Until we saw the Panomera from Dallmeier. This approach was really impressive", says Martin Bauer.

A Patent Solution

Panomera is a "patent" solution in the true sense of the word: The new camera system, a multifocal sensor system, is not only exceptionally powerful, it has also been patented because it is unlike any other system currently available. Unlike conventional HD and megapixel cameras, which only have one lens, Panomera functions with multiple lenses, each of which has a different focal length. With this novel sensor concept, surveillance can be ensured even for extremely

large areas at the highest possible resolution to the farthest background of the area of coverage.

Two Panomera systems were installed in each hangar, in opposite corners of the structure. In order to be able to cover all possible angles, a high-resolution HD camera was mounted in each of the other two corners. "We can have a total overview of the entire hall with no omissions using just four cameras. That is an area of well over 1,300 m²", explains Roland Meier, the Team Leader for Panomera Multifocal Sensor Systems at Dallmeier. All four hangars will be subject to surveillance in this way.

The images are recorded in highest resolution and stored for up to 90 days on powerful video servers manufactured by Dallmeier. This will enable any incidents that occur to be reproduced and investigated subsequently as well.

Andreas Bengelstorff, Head of Security/Buildings, is satisfied: "There really is not a single blind spot that we can't see anywhere in the halls any more. This means that we can offer our customers the most comprehensive security possible. We also have a much better view of the scene ourselves, which will help us to optimise our own processes and workflows."



Admittedly,
it can't do everything,
but it does excel at
access control.



More Details, Less Cost

The high resolution is not the only advantage that comes with the Dallmeier solution. "The other offers that were submitted in response to our call for tender specified the use of at least 14, or even 18 cameras in order to provide coverage of the area for which we now need just four cameras", relates Andreas Bengelstorff. He adds: "So we also only need four installation locations, not 18. That represents an enormous saving in terms of installation, infrastructure and maintenance. Ultimately, we have decided on the solution that is not only technologically unrivalled, but also the most cost-effective."

Good Images Even at Night

Besides the service hangars, the outside areas are also protected reliably by two Panomera systems. Here, at 10,000m² the coverage area is even larger!

Besides the multifocal sensor systems, HD cameras with integral IR lighting are also installed to capture the best possible images at night as well. The IR cameras from Dallmeier also have a unique feature: In contrast to conventional IR cameras, which have many small LEDs

arranged in a ring around the lens, Dallmeier IR cameras have three large, high-powered LEDs. These endow the IR cameras with very high spotlight power and homogeneous illumination even in the peripheral areas. "In addition, we have been able to integrate existing cameras in the outdoor area in the new system", adds Roland Meier.

Plans for the Future

The system has already proven itself in practice, and has run faultlessly since it was commissioned. Andreas Bengelstorff is satisfied: "Not only are the products great, customer support is excellent as well. This just confirms our belief that we made the right choice!"

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LENSES

Lenses – Just a Camera Accessory?

Saving Costs in the Wrong Place Ruins Picture Quality

Wikipedia begins the explanation of the term 'Lens' in two short sentences as follows: „...A lens is an optical gathering system that produces a realistic optical image of an object. It is the most important component of optical imaging devices, for example of cameras, binoculars, microscopes, projectors or astronomical telescopes“. The decisive point in the explanation is the phrase „most important component“ (thank you, Wikipedia). And it's therefore always amazing how little attention is given to the choice of the correct lens.

In the security industry, and especially for video surveillance, the tried and trusted analog video technology has been relied upon for many years, but the IP market has also been booming now for a while. The advantages of digital technology are obvious; the higher resolution allows larger areas to be monitored and sometimes a few analog cameras can be replaced by just one high definition system. The digital zoom feature makes this possible. But even the use of video management software requires a good image quality to start with.

The demands on the optical system are continuously growing with the increased number of pixels on the same sensor area. Whereas a

few years ago the lens only had to resolve 625 TV lines, the pixel density nowadays is many times higher for the same sensor area. Two million image elements have meanwhile become standard in the IP world and specifications of up to 10 megapixels (MP) can be found ever more often on the data sheets. Simultaneously the camera manufacturers are constantly on the search for solutions to improve the picture quality even further.

With these high expectations, it can often come to disappointment and disillusionment of the end users from the not-so-perfect picture. And this stems in these difficult commercial days from making savings in the wrong place. Many

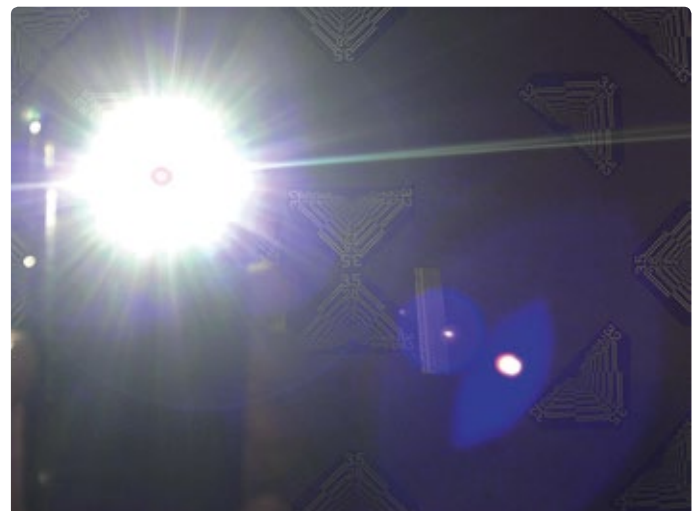
thousand Euro can be spent on qualitatively high-value cameras only to see this investment then ruined by the use of unsuitable or cheap lenses. Those who sacrifice quality here cannot get it back later. And for exactly this reason lenses should not be treated simply as accessories but their choice should be well considered.

The Edge of Darkness

The differences are enormous. A good quality lens can represent a real benefit, particularly under difficult light conditions such as during dawn or twilight or under weak artificial illumination. It should be capable of high luminosity. The larger the amount of

light transmitted to the sensor, the better the picture. Unfortunately, however, the specifications on the data sheet do not always say much about the quality. You will probably not find anything there about the coating of the lenses or about the definition attainable under IR lighting. The installer will probably find little about the finish and about its performance at very differing temperatures. But, one step at a time.

Many manufacturers describe their lenses with a particular MP number. For sure an estimate of the quality can be obtained from this number but it is not a guarantee of actual definition. In contrast to the number of pixels on a sensor, the definition of a lens cannot be



Big differences of the coating can be seen here. Left: Cheap lens and poor coating. Right: Tamron M13VG288IR. Many details still to be detected even in difficult backlit conditions.

measured so accurately. There are no absolute limits; the definition depends on a number of factors. What are the lighting conditions? What is the object distance? With what iris setting will the lens be used? The given definition can be easily reached directly in the middle of the sensor and under ideal conditions, but how does it look at the edges? Right here you can quickly see the difference because the definition of lenses decreases rapidly, particularly in the corners, and these are particularly important if a megapixel camera is going to replace multiple analog cameras. Tamron has chosen the conservative route here and only qualifies its MP lenses as such if they also achieve the given definition at the edges – the quality is normally much higher in the center.

Night and Day

The same goes for IR-corrected lenses. The image quality usually decreases under lighting in the non-visible range (as from a wavelength of c. 800 nm). The camera can only provide the picture that the sensor has received and not use its full potential. Valuable details can be lost and how well are the lenses actually corrected for IR light? The different wavelengths of visible and infra-red light are refracted with different strength at the boundaries. This causes a shift of focus when switching from day to night mode. The result is a completely blurred image if the lens is not corrected for this different range of wavelengths. And the emphasis here lies on „corrected“. Often only a coating is used to improve the IR transmittance.

Material Difference

A further element in the development of high-quality lenses is often not considered at all. The design of the housing and the materials used are key to a quality product. Imagine the following situation: a camera is installed in a weatherproof housing and used to survey an uncovered public car park. Within the first year, temperature differences of up to 80°C will be experienced within the housing. In this Winter just passed the thermometer showed -20°C. And in Summer 60°C in direct sunlight is common. All materials expand when heated,

and contract again when they are cooled. The lenses, however, must always be the same distance from one another. Even a few µm difference can put the image out of focus. Re-focusing is then complex and expensive.

One could easily continue the argument for high-quality lenses, but that would not make the choice of the correct lens any easier. Many manufacturers nowadays have a special solution for each application and a large variety of modules are available. Tamron has decided

to keep its lineup in the MP range as simple as possible for its customers. Besides other models, we want to cover the most commonly required focal lengths with the ‚Double-Varifocal‘ concept using only two lenses. A high-value and simultaneously clear solution from wide-angle (2.8 mm) up to the telephoto area (50 mm) is provided.

But of course, the cost factor cannot be totally ignored. Particularly for large projects it is important to make an exact assessment. But regardless of which lens you

finally choose, one thing should be remembered: the lens is always the first element in the chain of image transmission.

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Conversion of Backups into a Standard Video Format

Dallmeier's PStream Convert is an easy to use application that enables the convenient and fast conversion of any backup made by the manufacturer's recording systems into a generally supported standard video format. It supports the conversion of backups from all the Company's recording systems (DMS, DLS, VNB, DMX as of generation 4 as well as DIS-2/M) and Smavia Appliances. For this process, it is irrelevant which method was applied to create the backup, whether it was directly exported from the device to a CD/DVD/USB stick or performed with a management software (PView 7, Smavia Viewing Client, Semsy III). All backups are supported. Converted videos are output in an AVI con-



tainer format with MPEG-4 coding, which is supported by virtually every player software. Within the container the quality of the converted videos (frame rate, bit rate, resolution) can be customized to meet individual needs and there is an option to define either the PAL or NTSC video standard.

www.dallmeier.com

Evaluation And Display Computers

Geutebrück's two GSC Speedview units are evaluation and display computers for Geviscope, Reporter and G-Scope/1000 systems. Also useful as set-up computers, they can provide display feeds for up to four DVI-D or VGA monitors. All image characteristics are freely definable irrespective of whether these come from live streams, alarms or recordings. Both models support the manufacturer's network-friendly dynamic live streaming (DLS) function which significantly reduces the data volumes transmitted and processed. The GSC Speedview-AP is an advanced processing model with every component, from the



processor to the hard disk, specially selected for highest possible system performance. It is intended for demanding applications, for instance those requiring the smooth replay of H.264 streams. This model comes equipped with a 4x graphics card built in, making it suitable for use as a digital matrix outlet. The standard 'ST' model can also be used for the same purpose if an optional multi-monitor graphics card is added.

www.geutebrueck.com

1.3MP IR Bullet Camera

LG has introduced an Onvif compliant PoE Network Bullet LNU5100R camera to their range, combining strength and style with the benefits of IP network performance in a vandal-resistant IP66 housing. Built-in LED IR with a range of 30m gives great night-time images whatever the ambient light level. True Day Night ICR 1.3 Megapixel camera, with HD quality images (720p), a 2.8mm-10mm Vari-Focal Lens, Real-time streaming (30fps) and Wide Dynamic Range, combined with Adaptive Contrast Enhancement provides sharper definition images with a higher contrast ratio under a wide variety of lighting conditions. The built-in SD card recording facil-



ity assures the user that even should a network failure occur, images will still be recorded locally at the camera which can then be downloaded when networks communications resume. Motion detection or other local events can all be recorded to SD card. Added features such as the Embedded Video Content Analytics, Region of Interest streaming and very low latency make the LNU5100R a versatile camera for all conditions.

info@eu-sp.com

New Look for PTZ Domes

Five of Samsung's PTZ domes have been redesigned and are now smaller, lighter and more modern looking than their predecessors. "Our design engineers are always looking at ways to improve the aesthetics of our products and the redesigned domes certainly have a more modern look. Being smaller and lighter, they are also easier to install," said Senior Product Manager Peter Ainsworth. The five domes collectively offer a solution for any application where a PTZ dome is required. Customers can choose from models, which are designed for either internal or external use, with the option of 27x or 37x zoom, whilst the top of the range models are equipped with Wide Dynamic Range (WDR) technology, which makes them ideal



for locations where there may be strong contrasting lighting conditions. The PTZ models are supplied with full support services, including free system design, free technical support and a full three-year warranty. www.samsungsecurity.com

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3 MP 1/2.7" 8-50mm
with IR-correction (DC-Iris)



PANOMERA® multifocal sensor system

Van Gogh, Raffael, Michelangelo

Sicurit has chosen the names of famous artists for a series of protection devices for museums: Van Gogh, Raffael, and Michelangelo. The van Gogh surveillance system for paintings has been devised to protect a large number of works of art hanging in museums and galleries. Paintings and tapestries are typical objects which require protection. The alarm is triggered if the object is touched or removed. The system involves two parts: detection and evaluation. The painting is hung by a straightened stainless steel wire attached to a sensor which evaluates the forces exerted on it. Very small movements and attempts to touch and/or remove the protected object are detected according to the set sensitivity. Two varieties of the system are available, a standard system and a directed system. The directed system indicates which sensor has triggered the alarm. The standard system only shows that one of the analyzers connected to the switchboard has triggered the alarm. It is possible to discover which sensor has triggered the alarm by switching on the memory function of all the sensors. The system offers a very reliable 24-hour protection for works of art. The work of art needs only to be touched to trigger the alarm. Thermostatic resistance allows demisting of the screens. Nothing is attached to the work of art.

The Raffael sensor protects valuable paintings on exhibition in museums, castles or private places to which the public has free access. The sensor gives continuous protection (24 hours a day) for paintings, by protecting the canvas itself. It is particularly suitable for large canvases in heavy frames hung on a wall where other systems cannot be used or require installation on the painting itself. The sensor protects paintings without installation difficulties and without damage to the paintings themselves.

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

www.sicurit.net



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L-3's Explosives Detection System for U.K. Airport Operator

L-3 Security & Detection Systems (SDS) has received an order for 12 Examiner XLB explosives detection systems (EDS) from LHR, a U.K. airport operator. With its ability to scan over 1,200 bags per hour, it is "the first dual-energy TSA-certified system to meet the industry's high-speed EDS classification and achieve EU Standard 3 approval under the Common Evaluation Program (CEP) of Security Equipment," the Company claims. "We are very pleased that LHR has selected our advanced high-speed system," said Thomas M. Ripp, president of L-3 Security & Detection Systems. "Using dual-energy CT provides additional data that



conventional single-energy CTs cannot deliver. The threats to aviation are evolving, and we believe the XLB is uniquely positioned to address them."

www.L-3com.com/sds

960H Technology DVRs

The three new models in Samsung's SRD series of DVRs offer an instant upgrade in the recording resolution and display of images captured by industry standard analogue cameras. All three models utilize innovative 960H technology to provide the opportunity to take advantage of the high quality images offered by 650TV line cameras. Senior Product Manager Peter Ainsworth says: "There are countless existing CCTV systems which include cameras that are able to capture high quality color images at 650TV lines, but the images are being recorded on DVRs which are only capable of playing back the recorded images at 480TV lines. By simply swapping these DVRs with models equipped with



960H technology, users can now achieve an immediate improvement in the resolution of the live or recorded images that can be displayed on a high definition monitor. We believe this method of upgrading an existing analogue system will prove to be very popular among customers who do not yet have sufficient reason to change to a Video over IP system, or where investment in the latest generation of high definition cameras can be justified."

www.samsungsecurity.com



Scan for
more information



Dallmeier
www.panomera.com

The UK's newest and most energy efficient datacentre has placed Samsung IP network video surveillance cameras at the heart of its security system. With the responsibility of housing equipment and handling data of immense value and importance to its customers, security at the site is naturally considered a very high priority.



Clive Mears, Datum's Head of Security

CCTV

Single Source Protection for Data

Datum Installs Samsung IP Network Video Surveillance in Its Secure Data Centre

Datum opened its flagship data center, which was designed and built by specialists Keysource, in January 2013. It is located on the high-security Qinetiq Cody Technology Park in Farnborough, and has the objective of providing clients with flexible data co-location services with single or multiple rack options as well as dedicated and custom suites for bespoke requirements. All offerings are backed by extensive support services including a 24/7 manned help desk and technical support.

The facilities are spread over three distinct areas with the design of each focused on its main purpose. In addition to the actual data center, an energy center houses back-up UPS and stand-by generators, whilst a separate office building provides client usable space.

Paul Garner, Data Center Manager of Datum, comments: "It is

absolutely crucial to the integrity of our business that we can demonstrate to clients that their infrastructure is being stored in a totally secure environment and physical security is therefore of paramount importance. The Samsung video surveillance system is at the forefront of procedures to tightly control access to sensitive areas of our facility. It works alongside our access control system to ensure that we can monitor and verify all activity of staff and visitors with high quality video evidence".

Highly Efficient

The contract to install the video surveillance system was awarded to Bristol based installation experts Destination 5 by Keysource, a specialist in the design, build, optimization and ongoing management of data centers. Rob Elder, Director of Keysource comments:

"Working closely with Datum we have been able to develop an impressive facility that has high levels of efficiency, availability and flexibility. Security was an important aspect of the development, so we needed an IP network-based video surveillance system that would be reliable and robust as well as being able to capture and record images of the highest quality. Destination 5 was able to deliver an effective solution, utilizing cameras, monitors, video recorders and monitoring software from Samsung, to meet our needs and those of Datum."

Keysource has adopted a scalable approach to meet the client's precise operational requirements, both now and in the future. The first phase of the data center, which has a Power Usage Effectiveness (PUE) of just 1.25, provides an initial 250 rack positions,

but when fully developed will offer a total of 1,000 racks and more than 40,000 sq. ft. (3,700m²) of net technical space.

Dome Cameras

A final total of 200 Samsung cameras and domes will be installed, but in line with phase one of the facility's development Destination 5 has so far installed a total of 63 units comprising 37 SND-5061 1.3 megapixel network dome cameras, which are part of Samsung's 'affordable' LiteNet range, and 19 SNO-5080R 1.3 megapixel weatherproof network bullet cameras. These have built-in vari-focal lenses and IR LEDs which enable them to deliver high definition images both during the day and at night. In addition, seven SNP-5200 1.3 megapixel PTZ dome cameras have been installed. These incorporate a true day/night camera and feature



- ▲ Comprehensive surveillance both inside and out
- ◀ Every step in the data center is monitored

a 20x optical zoom lens to monitor closeup detail of any activity.

Images from all the cameras are transmitted over a designated security LAN to the secure control room where they are recorded and stored for up to 90 days on one of four Samsung SRN-1670s which, whilst delivering all the benefits of an NVR (network video recorder), have the look and familiarity of a DVR. Unlike most NVRs which can only be programmed remotely, the SRN-1670D can be locally configured and controlled with the help of a mouse.

"The evidence grade quality of the images that we are monitoring with the help of the Samsung Security Manager (SSM) software is extremely impressive," said Datum's Head of Security, Clive Mears. "Equally important from an operator's point of view however is how easy it is to use. For exam-

ple, when viewing live images or reviewing pre-recorded video, we can choose a display configuration which best matches the number of cameras we need to monitor at any one time, and having decided on which configuration is best for any particular situation, we can then save it for future use."

Following on from the success of the first phase, Destination 5, which also installed the data center's access control, intercoms and intruder detection systems, has been contracted to install the remaining 137 Samsung cameras and domes.

▶ CONTACT

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SECURITY FOR PRODUCTION SITES

Security for Sierra Grande Mining

Integrated Solution Provides Perimeter Protection and Improved Overall Mining Efficiency



Over the past thirty years, the Argentinean town of Sierra Grande, located in the southeastern corner of the Rio Negro Province, has experienced a wide variety of ups-and-downs. During the 1980s, Sierra Grande was a bustling town prospering from its rich natural iron ore deposits and mining capabilities. Conversely, the 1990s brought government-ordered mining stoppages, the unemployment of thousands, and a mass exodus from this once proud town.

Thankfully, with government reversing their Sierra Grande mining ban, the 2000s have seen a sharp uptick in both the fortune of this region and in the lives of those who bring the ore out of the mines. However, it took more than simply reopening the mines to allow Sierra Grande to thrive once again. To help do so, Hikvision was brought in to both secure the mining facility and increase efficiency.

MCC Minera Enters

When MCC Minera Sierra Grande S.A. acquired mining rights to this town in 2006; it knew a great many challenges needed to be overcome.

In particular, of the three existing underground deposits – labeled North, East, and South – only the South dig-site is currently in use. Currently, Sierra Grande's mine extraction capacity is approximately 2.8 million tn. of iron ore per year.

High-Tech Solution

Of particular note, the natural environment of not only the mining area, but the entire re-

gion, of Sierra Grande was a major cause for concern. Specifically, this section of the Rio Negro Province is famous for its harsh desert landscape and even harsher desert weather. As such, before MCC Minera opted for Hikvision, a thorough examination of other security manufacturers' products was conducted. Lic. Christian Uriel Solano, President of Security One Argentina – Argentina's official Hikvision distributor for this project – noted, "It came down to two main factors: technology and durability. Both of these aspects proved that not only would Hikvision products be up the task from a technology standpoint, but they would be able to withstand any weather this unforgiving desert could throw at them."

MCC Minera was not looking for a simple CCTV for basic security purposes. Instead, the goal was to build a comprehensive solution that provided security and improved overall mining efficiency. Not only would Hikvision products be asked to withstand the blazing heat and bitter cold, but they would be asked to do so outside in the bright light, under-

ground in virtual darkness, as well as combining analog and digital components both indoors and out. "It was an extremely complicated and technologically advanced case, and we congratulate the integrator on this project, Krall Infomatica, for really doing an excellent job," Mr. Solano summed up.

The Nuts & Bolts

Beginning at the perimeter, Hikvision' DS-2DF1-714 IR Network High Speed Dome Network High Speed Dome and DS-2CC5173P-VP(IR) Vandal Proof & Weather Proof Dome Camera were tasked with providing general surveillance of the area. Complementing this was the iDS-2DF1-517 WDR Network High Autotracking Speed Dome to man sensitive areas. In particular, both cameras' IP66 rating provide assurance against weather factors, while the latter's embedded intelligence algorithms allow an operator the ability to preprogram specific triggers and immediate notification features.

However, due to the fact that these outer perimeter walls stretch over a kilometer from the



Moving lower, the DS-2CC192P(N)-IRT IR Bullet Camera's IR leds and vari-focal lens provided a similar ability within the darkened mines; while the DS-2CC192P(N)-IR Bullet Camera did the same in both administrative and other mining settings. Additionally, the DS-2CC1192P(N) (-A) Box Camera's low-illumination ability complemented all of the above throughout the many office

and administrative settings comprising MCC Minera's facilities.

Rounding out this total solution were both the DS-7316HFI-ST Standalone DVR and DS-7208HVI Standalone DVR to record these closer cameras in 4CIF resolution real-time recording; while the DS-9516NI-R Embedded NVR was responsible for recording the outer perimeter's wireless IR cameras on its embedded Linux-based system.

Through an amalgamation of creativity, high-tech products, and a renewed sense of hope; Hikvision is helping both MCC Minera and Sierra Grande reach greater heights than ever before.

▶ CONTACT

Hikvision, Hangzhou, China
Tel.: +86 571 88260577
www.hikvision.com

main administrative facility, it was impractical to connect these cameras with cabling. Instead, Hikvision's DS-6101HFI-IP Digital Video Server was used to convert the perimeter cameras' analog signals to the digital IP network wirelessly; providing both higher efficiency and cost effectiveness.

Of particular note was the DS-2CD7153-E 2MP Network Mini Dome Camera, with its HD 720P real time video, and vandal-proof housing. Strategically placed on the port to monitor the loading process of raw iron ore onto waiting ships, this high resolution camera was able to both increase productivity and increase worker safety due. Additionally, its housing allows it to withstand the punishment from rock and other debris periodically catapulted upwards from the moving conveyor belt.



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PERIMETER PROTECTION

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Solarpack is a multinational integrated management company focusing on electricity generation projects in the field of solar photovoltaic energy and is specialized in the development, financing, construction, operation and management of these projects. Controlling a large area where high valuable equipment is deployed all over the site, is not an easy task and it usually requires investing a great amount of money to keep the facility well protected.

For one of the most important solar plants in the West of Spain, Solarpack is now protecting its perimeter of 41 acres with an intelligent analytics solution of Valencia based company CCTV Center, combining FLIR thermal imaging cameras and Aimetis Symphony powerful analytics software.

Business Challenge

Solarpack is continuously investigating new security solutions to have a pragmatic security system to protect its installations, considering the complexity that involves a solar plant. In this project, the challenge was saving investment costs and maintenance costs, as well as improving the security system towards a more

effective and reliable solution, offering automatic notification of alerts and events. Quick search and review of video images was also an essential requirement. A number of tests made with other security systems lead Solarpack to determine that thermal imaging cameras were the best solution and, specially, FLIR thermal imaging cameras. It was then when Solar Pack contacted CCTV Center, FLIR's official distributor and integrator in Spain.

Solution

CCTV Center's presented a solution combining FLIR thermal imaging camera and Aimetis Symphony analytics software. Aimetis Symphony is award-winning intelligent video surveillance software that offers a single, innovative, open IP video platform for video management, video analytics, system integration and alarm management.

The superior quality images from the FLIR thermal imaging cameras together with Aimetis Symphony analytics were a really great solution for the whole system. The end user had a previous experience in projects with thermal imaging cameras and a good image quality was always a main requirement.

Due to the high contrast of their images, thermal imaging cameras are specially recommended for analytics and perimeter applications. Thermal imaging cameras can detect a human target at a distance of up to 2,000 m and produce clear and crisp images in total darkness, light fog and rain where color CCTV cameras can't. Thermal imaging cameras provide an ideal solution for 24/7 surveillance, saving costs in IR illuminators or any other additional illumination system.

Installation

For the perimeter protection of this solar plant 21 FLIR F-Series thermal imaging cameras with a resolution of 320x240 pixels are installed on 2 to 3 meter high poles, alongside a wired fence. The F-series are fully enabled for control and operation over digital and analog networks. The F-Series provide high contrast imagery optimized to get the most out of video analytics software. Digital Detail Enhancement ensures clear, properly contrasted thermal images in all weather conditions.

The thermal imaging cameras are working together with an intruder detection system, both connected to a CSA (Central Station Alarm). All the thermal imaging cameras are integrated with Aimetis Symphony software so they can be controlled from a server PC placed at a remote workstation. „Integrating the FLIR F-Series cameras with Aimetis software was a great solution“, says Pablo Campos from CCTV Center, in charge of this project. „We used FLIR thermal imaging cameras before with Aimetis Symphony and the FLIR F-Series are included in the list of compatible devices. Once calibrated, analytics performance is outstanding.“

Target Detection

Aimetis Symphony software is configured with a virtual fence, so when an intruder crosses the virtual line, determined by the operator, an alarm is triggered. The alarm is then sent to the CSA, where the operator receives the signal. The operator then connects with Aimetis Symphony client and checks the video stream associated to verify if it's a false alarm or a real threat.

The system can make distinction between humans and animals. When the system identi-



Human targets are being tracked and will trigger the alarm when crossing the virtual fence



Animals are considered as authorized intruders and will not trigger the alarm



fies the target as a human, it will start tracking the target. The software doesn't trigger any alarm unless the target crosses the virtual line configured by the operator. When the system identifies a target as an animal or unknown object, it will not send an alarm at all, even when an animal crosses the virtual fence. This is because "animals" are considered as authorized intruders in the system. The high quality of the thermal imaging cameras and the reliability of the analytics makes it possible to make this distinction, resulting in a drastically drop in the number of false alarms.

Cost Savings

Before the new installation 10 to 15 security guards were hired to protect the premises. Now there are no security guards patrolling or controlling the access to the solar park anymore. Everything can now be managed from a remote workstation by only one or two operators. "The new installation is saving a lot of money and is far more effective than having a team of security guards viewing daylight cameras that can't display images at night or in bad weather conditions. Furthermore, the use of thermal imaging technology saves costs of deploying and

keeping an illuminating system running. Also not a lot of electricity is consumed, using thermal imaging cameras instead of other solutions, and maintenance costs are low as well", concludes Pablo Campos.

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VIDEO MANAGEMENT

Seaworthy

SeeTec Secures a Dutch Floating Production Storage and Offloading Unit

The Dutch vessel unit "Glas Dowr" is used for storage and offloading of gas and oil on the high seas. At locations where pipelines can't be installed due to the geologic situation, bad weather conditions or insufficient infrastructure, ships like the "Glas Dowr" take over the job.

Since it went on duty in 1997 it has been leased by a large number of oil companies. The crew of the "Glas Dowr" is in action on a global basis, currently working at the Kitan field in the Timor Sea near Darwin/Australia. Under such circumstances strict safety instructions go without saying. Every process or course of action has to be under video surveillance for an all-over documentation. For this reason a video surveillance system was installed in 2007 and renewed in 2011. The replacement was owed to the system's change from analog to IP. There was only one company to be considered for the implementation: Dexter System Solutions B.V. "The combination of Dexter's highend IP camera solutions and its seamless integration with SeeTec Video Management Software proofed to be the perfect solution for our customer," quotes Ben Braeckman, Sales Manager industrial communications systems at Dexter System Solutions.

Monitor Processes, Observe Standards

In summer 2011 Dexter brought SeeTec in as software partner. Especially the software's reliability and its multi supplier approach led to the choice in favour of the Ger-



man VMS specialist. The project planning, the choice of the appropriate Axis network cameras and the implementation of the system were carried out in a cooperational work.

The surveillance system aboard is exclusively used to monitor the processes and to ensure the strict observance of the security standards. According to Ben Braeckman human interaction is the greatest risk to the automated processes: "80% of accidents on board of Floating Production Storage and Offloading are results of human failure. Trespassing on closed areas hereby is the biggest risk for the whole dealing and the crew. To avoid and minimize danger and injuries and to guarantee smooth processes without needless interruptions we use the surveillance system."

In the first place processes are being monitored like the discharging of smaller supplier boats or the vessel's own helicopter deck. At every important location Axis Communications PTZ Dome Network Cameras were installed. All together there are 12 Axis 232D + Network Dome Cameras which have been developed particularly for outdoor surveillance. For a 360 degree video surveillance an additional Axis 215 PTZ network camera is used. The cameras themselves are protected by an explosion secure body made by Dexter. Thus the physical integrity of the hardware can be ensured. Due to the fact that the craft wasn't present at the harbour for the implementation, the system setup and the configuration of all 15 cameras had to be done by remote. Operations at three different points on the vessel are now documented smoothly. One of them exclusively covers the helicopter deck monitoring, while a responsible officer keeps an eye on it. With a rate of 25 frames per second the images are displayed judder-free and

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Project facts

Customer: Bluewater
 Object: Ship "Glas Dowl FPSO"
 Cameras: 15 Axis cameras
 Software: SeeTec ProBox 15
 Installer: Dexter System Solutions B.V.
 Requirements: Energy and space saving,
 solid image transmission under extreme
 conditions and low failure rate

sensitive. The handling of high-explosive charge makes special demands to the whole equipment, no matter if hardware or software. We found the perfect software partner in SeeTec", comments Ben Braeckman, Head of Project. In the upcoming future, the whole fleet shall be equipped with SeeTec Software and Axis cameras step by step. Ben Braeckman is happy about this success: "We are convinced of our concept and we fully back the implemented solution."

without delay. The recorded footage is stored on a server and can be viewed on the bridge on three dual-monitor clients. The officers on duty are responsible for the surveillance.

Whole Fleet to Be Equipped

Bluewater is very satisfied with the solution and further vessels shall be equipped with similar surveillance systems. "The working area is highly

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VIDEO SURVEILLANCE

Unwanted Visitors

Société Générale Uses Grundig Cameras to Keep Its Customers and Employees Safe

A recent survey by the National Observatory of Crime and Criminal Responses (ONDRP) has found the number of armed assaults targeting ATMs and conveyors has increased by 75% between May 2011 and May 2012. Société Générale is taking significant new security measures.

Société Générale chose Grundig because of its high-quality products and because its cameras offer the level of security required without compromising the efficient day-to-day running of the business. Grundig has a comprehensive understanding of the current statutory requirements and its products allowed Société Générale to meet all its legal obligations.

Inside and Out

2000 internal and external Grundig cameras have been added. The external cameras operate effectively, night and day. Full HD video has been implemented for evidential purposes.

Four Into One

Grundig's Four-Channel Converter Improves Upgrade Cost-Effectiveness

Grundig has added a four channel, analog to single channel HD-SDI converter to its range of video surveillance products.

The GTH-C0041C CVBS composite video converter streams four analog D1 video channels into one Full HD, 1920p x 1080p HD-SDI video channel. The four analog video channels can be displayed either in quad format, within a single camera view of the HD-SDI DVR or each analog channel can be displayed individually.

Andreas Kronwald, product manager at Grundig, explains, "The four channel analog to HD-SDI converter makes upgrading existing analog systems to HD-SDI quick, simple and cost effective. It allows installers to con-

sider re-using existing analog cameras and coaxial cabling within a new CCTV system, perhaps in less critical positions on-site, and thereby reducing costs. The analog cameras can be upgraded later as and when the budget permits.

"Each analog channel is recorded as one quarter of the Full HD, HD-SDI channel. The resulting video is of similar resolution to D1, the highest available for analog video." Grundig's full HD-SDI range includes a box camera, outdoor bullet, fixed dome and vandal-resistant fixed dome with IR LED options and true day/night functionality, an 18x external PTZ dome and 4, 8 and 16 channel DVRs.

Société Générale is proud to be ranked as one of the world's best companies to work for. Its continued investment in electronic security, despite the uncertain economic climate, demonstrates just how seriously it takes its duty of care to staff. Grundig has played a key role in protecting Société Générale.

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Lipstick-sized Bullet-Style Network Camera

Axis Communications presents the M2014-E, a network camera which is no bigger than a lipstick. The camera's functional and compact form factor makes it particularly suitable for installations such as in retail stores, boutiques, hotels or small offices that need easy-to-use and future-proof video surveillance. "Being the smallest HDTV bullet-style network camera on the market," the camera "is perfect for video surveillance solutions in small- to mid-sized systems," says Erik Frännlid, the Company's Director of Product Management. The camera provides HDTV 720p image quality at full frame rate. The camera delivers multiple, individually configurable video streams in H.264 compression, greatly optimizing bandwidth and storage without compromising image quality. Motion



JPEG is also supported for increased flexibility. With its built-in memory card slot for edge storage and support for the manufacturer's "Camera Companion," the camera provides a convenient, small-scale video management solution. www.axis.com

Multi-Platform Video Management Software

Milestone Systems introduces Milestone Arcus, an embedded video surveillance platform for low-complexity, low-cost security installations. It runs on Linux, Mac OSX and Windows related operating systems, within network storage and cameras or other devices on the edge. Hardware partners embedding the platform in any kind of hardware form factor will be able to offer a streamlined, video management tool that is simple and easy to install. The

system is a multi-platform VMS solution for hardware vendors to embed in their products, to be sold by their channels as an out-of-the-box solution, ready to use. These embedded solutions will be co-branded with the Company to let customers know they are getting the best in video surveillance. Hardware vendors can embed the multi-platform in their products for customers wanting simple, inexpensive surveillance tools.

www.milestonesys.com

Access Control Integration Module

Indigovision has launched its latest integration module enabling Paxton access control systems to be fully integrated into Control Center, the Company's IP security management software solution. "This is a significant milestone," said John Semple, Head of Product Management. "The industry is now demanding completely integrated security solutions. Individual security components, such as analytics, license plate recognition, access control, alarm systems and perimeter detection need to be integrated with video security to provide an easy to manage, fully integrated IP security solution. Our customers tell us that an integrated solution dramatically increases effi-



ciency with alarm management enabling quicker incident response." The Integration Modules include systems from multiple manufacturers, including Lenel, Software House, Honeywell and GE. Other external systems such as license plate recognition and advanced analytics can also be integrated into the solution.

www.indigovision.com



Continuing our image of excellence

The Alliance-pro is a full featured, H.264 Main Profile vandal dome camera with support for up to 5 MP resolutions. Designed with the installer in mind, installation is quick-and-easy thanks to the remote motorized zoom and focus (with A2 or A3 lenses), a hinged pivoting shroud, and 3-axis gimbal. This and other IQeye cameras allow for seamless integration with current and future technologies such as exacqVision® Edge which utilizes the on-camera SDHC storage to create a low-cost, low-power system solution.



Remote Zoom/Focus

The remote, motorized zoom and focus features eliminate the need for manual focus adjustments at the camera, allowing for quick and easy installation.



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www.iqeye.com



VIDEO SURVEILLANCE

All Around Secure

New Innsbruck Museum Rounded off with Geutebruck Video

'The Tyrol Panorama', a new purpose-built museum in Innsbruck, in the Austrian

Tyrol, has been designed to showcase both the dramatic, 1000-square-metre,

360-degree wrap-around painting of the same name, as well as the modern day

panoramic outlook over Innsbruck, the Inn Valley and the Alps beyond.

▲ At the heart of the museum is a circular gallery housing "The Tyrolean Panorama" itself

▼ left: Tyrolean State Museums Ltd.: The company has repeatedly chosen Geutebruck video solutions to safeguard buildings and collections

▼ right: A Geutebruck re_porter-based video system protects the new high-tech building and contents



Photo: Alexander Haiden / Das Tirol Panorama

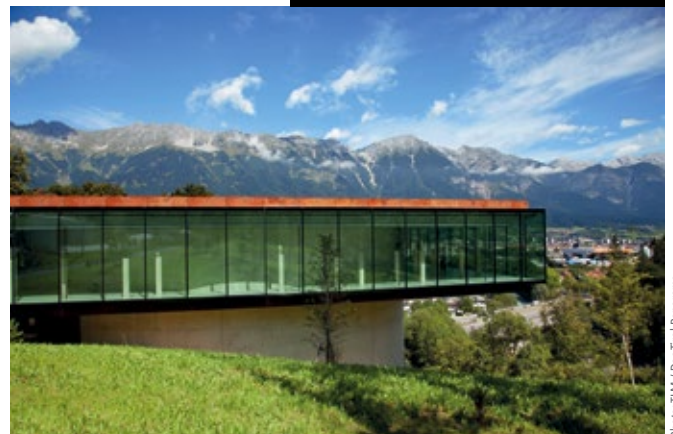


Photo: TLM / Das Tirol Panorama

Completed in 2011, the three-storey, high-tech concrete and glass construction is set into the hillside next to the Tyrolean Imperial Infantry Museum at Bergisel to the south of the city. Its core exhibit, the vast, recently restored, canvas panorama depicting the local battles of 1809 against Napoleonic and Bavarian forces, dates from 1896 and is one of only twenty artworks of its kind still in existence.

The combined museum and gallery complex is run by Tyrolean State Museums Ltd. which also manages the Tyrolean State Museum Fer-

dinandeanum, the Museum of Tyrolean Folk Art, the Zeughaus (Armoury), Court Church and the Folk Song Archive. Over recent years the company has repeatedly chosen Geutebruck video solutions to safeguard its buildings and collections and the new Bergisel development was no different. Innsbruck installer Fiegl & Spielberger supplied the alarm and video solutions including Geutebruck re_porter-16 video systems, and installed more than sixty Sony cameras. Besides focusing on the giant panoramic canvas and its viewing gallery, the video security system also

monitors all the sensitive areas in and around the museum's exhibitions of Tyrolean history, life and culture.

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info@geutebrueck.com · www.geutebruck.com

Network Speed Dome Cameras

Hikvision unveiled a series of surveillance cameras – DS-2DF5274 1.3MP Network Speed Dome Camera and DS-2DF5284 2MP Network Speed Dome – which are specifically designed to provide a solution for airports, industrial parks, harbors, and any large area where high performance PTZ functionality is required. The models incorporate true day/night cameras with an IR cut filter and are capable of a 1/3" progressive scan, works extremely well in low light environments and, with the benefit of 3D DNR (Digital Noise Reduction) functionality, the images are further enhanced since it greatly helps to reduce noise and motion blur. The DS-2DF5274 offers a 1,280x960 resolution at 25 to 30 frames per second, and a 20X optical zoom of 4.3mm to 86.0mm. It also has a zoom speed



of 5s and 54.1–3.2 degree angle of view. Whilst the DS-2DF5284 is a similar camera with slightly different capabilities, gives consumers another option. It has an HD 1,080p resolution at 25 to 30 frames per second, as well as a 20X optical zoom of 4.7 to 94mm. Its zoom speed is 2.7s with a 58.3–3.2 degree angle of view.

www.hikvision.com

HD IP-Camera Line Expanded

American Dynamics introduced its Illustra 600 Series of High Definition (HD) IP Box and Bullet Cameras. Box and Bullet cameras deliver very high HD video quality in all lighting conditions. The True Day/Night and Wide Dynamic Range features provide superior low-light performance, saving on bandwidth and storage costs. The cameras are suited for industries such as banking, retail, aviation or any business where there are large banks of windows that cause fluctuating lighting conditions. They offer 720p and 1,080p resolution and are available in three different models. The 600LT models are designed for smaller businesses such as bank branches, small retail outlets or physician's of-



fices that may only need 720p resolution. The LT models contain many of the features included in the 600 models, delivering high-definition and very high video quality with a few exceptions: no audio, SD card and dry contact inputs. The LT models benefits those businesses that have 16 or fewer cameras, as well as larger businesses that don't require full-featured HD cameras for all of their locations, providing significant cost savings.

www.americandynamics.net

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Wide Dynamic Range


Arecont's Wide Dynamic Range (WDR) technology is now available in three different camera series – the Megadome 2 WDR, Megaball WDR and Megavideo Compact WDR cameras. They are available in resolutions of 1,080p and 3-megapixels. The technology delivers a dynamic range of up to 100dB at full resolution and without lowering the frame rates. By combining long and short exposures

in the same field-of-view, WDR maximizes the amount of detail in both bright and dark areas of a scene. The WDR performance represents an up to 50dB improvement (300X) in dynamic range compared to non-WDR cameras. "Wide dynamic range is a highly sought-after capability in the European security market," said Peter McKee, Vice President of EMEA Sales. www.arecontvision.com




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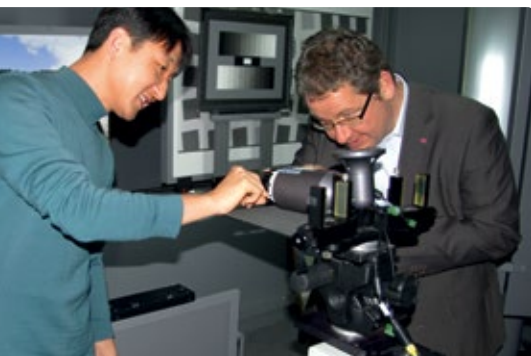
CCTV

Eastern Promise

Who Are European Security Partners

2012 saw the introduction of a new company into the European Security market, which considering the economic situation is somewhat surprising. However, like many new companies formed this was as a result of the familiar saying, "As one door closes, another one opens".

In the Autumn of 2011, many people were surprised that Sanyo, as a brand, would cease to trade at the height of its success within the global market. After the initial shock, two people within the organization saw this as a potential opportunity to fill the void that would undoubtedly be created. David Hammond and Stefan Teuber, both industry stalwarts, decided that 2012 may be the best time to start a new business to implement and develop the services and standards that had served so well in the past. Discussing it as a team, half of the Sanyo European staff decided to join the new company and to continue the work, building upon the relationships that had taken many years to develop.



Stefan Teuber and Gun Kim, Senior Engineer, in final testing of the LCU5100R just prior to production



Stefan Teuber und David Hammond of EuSP on their visit to LG Electronics Digital Park in Pyeongtaek, Korea

Careful Positioning

The business model sought to find a manufacturer that had an excellent brand reputation and strong ethics in how they deal with their business and customers. European Security Partners would then become the main partner in Europe for that brand, becoming the eyes and ears in the European market, working in total partnership with that manufacturer.

One manufacturer, LG Electronics security division, stood out amongst all the others in the market. With their recent increasing market share in the consumer and B2B sectors, many end users, installers and distributors already have LG products in their homes and businesses and are delighted with the performance, so the brand is well known and respected. Initial meetings were very positive and the directors and product team of European Security Partners were quickly involved in helping LG develop products for the security market.

One of the main issues for LG was having a company in Europe who had an understanding of the market, by country and by region, to meet the cultural, political and geographical challenges. Language, culture, religious and political differences are not just related to individual countries but also to regions within those countries. With offices located in Germany, Italy, the UK and soon also Spain, European Security Partners with their experience are able to alleviate

these familiar barriers to manufacturers wanting to break into Europe. The communication and support path between the manufacturer and the end user has been improved so that real market information gets back to the manufacturer.

LG now offer XDi technology in a full range of security products with a family theme, in analog and IP. Crisp clear images with excellent color reproduction under challenging lighting conditions are common now within all image capture devices employed within the cameras. Ranging from box cameras, bullet cameras and domes, with or without IR, to DVR/NVRs with easy-to-use menu structures for installers and end users alike, the total solution can be viewed on LG high resolution monitors with HDMI inputs in varying sizes. The addition of a software management monitoring system enables LG to offer solutions for the majority of applications.

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Full IP Video Touch-Screen

Urmet Domus launched their full IP touch-screen monitor, which has been specified and installed across London in numerous high-volume and landmark residential buildings. The monitor, the first in a line of exciting product launches planned by the Company in 2013, is designed mainly for large-scale residential developments. The 7" touch-screen iMODO, is mac addressable and offers the user a wealth of additional features. Some of the features, in addition to the regular functions such as call to concierge, panic alarms and video messaging, include: Dual LAN Port – this not only connects the touch-screen to the IP voice building network, but the second port also allows third-party home automation integration. Alternatively, the second LAN port can connect straight into a home router, providing users with a device that will allow them



to browse the Internet. WIFI – this is a built in feature and allows ease of connection to the Home Area Network. It is also home automation compatible – using the second LAN port it is possible to integrate the iMODO with other third-party home automation systems. Other features are PoE, and Full IP.

andym@msecmarketing.com

Cloud Based Access Solution

Clay by Salto is an easy to use, secure locking solution for Small Medium Enterprises (SME). Making its world debut at IFSEC 2013, 13th-16th May NEC Birmingham UK, the solution will initially be launched into the SME market in the United Kingdom, Denmark and Netherlands with other regions and markets to follow. The product is designed to bring electronic solutions to SMEs, providing vastly better functionality and performance than is possible in a traditional mechanical solution, and with a flexible management system that requires no cumbersome software installation or cost of a fully wired electronic product. The solution combines a cloud-based intuitive software platform that is easy and fast to understand and manage, with high quality and design hardware that is easy and quick to install. Its increased security comes from users



being able to easily and intuitively establish, consult, change and cancel specific access rights by person and place and time, and all in real-time, thus eliminating the problems and limitations of their existing mechanical solutions, such as the costs associated with changing locks, keys, and cylinders when keys get lost.

www.saltosystems.com



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▲ As well as all the comfort of a top hotel, the Hilton in Frankfurt also ensures a high level of security for its discerning guests

BRANCH FOCUS: HOTEL

A Watchful Eye

Luxury Needs Security: Abus Secures the Hilton Frankfurt

The Hilton in Frankfurt am Main near the stock exchange is one of the finest addresses in the banking and service metropolis. With 16 meeting rooms for 2 to 585 people, all with state-of-the-art equipment, a luxurious range of rooms, gourmet gastronomy, fitness club and one of the largest indoor hotel pools in Europe, this luxury hotel meets the very highest expectations. Alongside all these comforts, the hotel also offers its discerning guests a superior standard of security. The central component of the complex security architecture is an Abus video surveillance system.

An article by Florian Lauw.

The video surveillance system was commissioned in 2012. The indoor and outdoor areas of the hotel are covered by a total of 23 analog and 9 IP cameras linked to 2 HDVR video surveillance recorders with integrated video management software Made in Germany. "Our guests should feel completely at ease in the Hilton Frankfurt. Security forms the basis of that," explains Marcus Reinsch, Cluster IT Manager in Central Germany. A watchful electronic eye is indispensable, says Reinsch, particularly in highly frequented areas such as the hotel lobby where guests might easily leave a smartphone or laptop on a table or chair for a little while. Incidents which would not necessarily be noticed by the staff can be cleared up in this way afterwards. The same goes for all the access areas, as well for places difficult to keep an eye on, such as in and around the underground car park, explains the IT expert. "Just the fact that we have video surveillance in certain parts of the hotel serves as a deterrent and increases the security in the outdoor and indoor areas of our building," believes Reinsch. Whether it's thieves inside or vandals outside the hotel, neither stand a chance of getting away with it.

Customized Modernization

The Hilton Frankfurt had the first video surveillance system with 26 cameras installed in 1998. After almost 14 years of continuous operation the aging system was outdated not only from a technical point of view but it was also a thorn in the side of IT Manager Reinsch in terms of reliability. "The old CCTV system sometimes just produced black and white pictures. The low resolution of the cameras meant that we weren't able to recognize very much on the video recordings. Repairs became more frequent," Reinsch summarizes the situation at the time. He commissioned Digicom informationstechnologie from Göppingen, a company specializing in complex security solutions, to solve the problem.

Initial discussions took place in 2008 with Tamer Vural, the company's managing partner. "I visited the Hilton Frankfurt several times to get a precise overview of the conditions on-site and the requirements of the new video surveillance system," recalls Vural. After the Hilton Frankfurt put out a tender throughout Europe in January 2012, Digicom prevailed over many other well-known competitors with an offer for a new video surveillance system from Abus. The company's expertise of nearly 30 years in the market



and the excellent price-performance ratio of this manufacturer's technology gave it the edge.

A Cost-effective Concept

The concept for modernizing and expanding the video surveillance system planned to replace all the old video surveillance cameras in the indoor and outdoor areas with modern analog and IP cameras from Abus. To save time and cost, the existing analog network would still be used to transmit video signals.

The installation work went according to plan and within four days, three Digicom employees had installed the new video surveillance system. In consultation with IT manager Reinsch, Tamer Vural selected a balanced mixture of analog and IP cameras to get the most from the price-performance ratio of both types of technology. The final list of new items included 7 analog outdoor cameras in weatherproof housings, 16 standard analog cameras, 3 WDR IP cameras with LAN connection in weatherproof housings, 4 IP cameras with WLAN data transmission, 2 IP dome cameras with Power over Ethernet (POE) as well as 2 of the latest generation HDVR video surveillance recorders including video management software designed by Abus in Germany.

Analog Wherever Possible, IP Wherever Necessary

High-performance analog cameras monitor the common areas such as the lobby and entrances to the conference rooms, restaurants, bars, the swimming pool and fitness area. Elevator entrances, corridors, escape routes as well as luggage and storage rooms are also secured. The outdoor area adjoins a public park to the rear of the hotel with lots of trees and shrubs, and is also fitted with analog video surveillance cameras, well protected in weatherproof housings.

In parts of the hotel where high resolution IP video surveillance has replaced analog technology, the Digicom technicians installed either an encrypted wireless connection or an IP-coax transmission set. This device allows several video signals to be digitally transmitted via coax cable. The skilled radio and television technicians could therefore easily incorporate three high resolution WDR IP cameras into the analog network in the underground car park of the hotel. Just a few weeks after installation, these video cameras helped to clear up an incident which occurred: a truck which was too high had driven into the underground car park and damaged the sprinkler system which then

flooded the ground with 30 cm of water. Even though the driver reported it himself, the entire incident had also been documented by the Abus HD video recorders, including the driver's number plate.

In Compliance with Data Protection Laws

Naturally, using video surveillance systems also means complying with all data protection requirements and protecting the privacy of the hotel staff and guests. This includes, for instance, restricting the access of personnel to the data from the two HDVR video surveillance recorders, clear guidelines for how long the recordings may be kept and clear public signs advising of video surveillance.

▶ CONTACT

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 BUSINESS PARTNER

In Focus: Samsung SNV-7080-P

The SNV-7080P is a dome camera from Samsung's 3 Megapixel camera series that is fitted with a 1/3" CMOS sensor and the new Samsung WiseNet2 DSP chipset. The camera has an internal SD/SDHC card slot and a motorized vario-focal lens. The picture can be transmitted in various levels of resolution from CIF (320 x 240) through 16:9 1080p Full HD format up to full 3 megapixels (2048 x 1536) that can be sent simultaneously, which enables the most important data stream to be sent to the display or the recorder. The SNV-7080 P supports H.264 and JPEG codecs.



CAMERA TEST



Performance

Performance assessment when used with 1,000 Lux

In a perfect lighting situation the camera delivers a very natural picture. The colors are reproduced very clearly and realistically and impress with high contrast. At 20 fps motion clarity is faultless and without any smearing. There is no noise visible.

Performance assessment when used with less than 1,000 Lux

The clarity of the picture does not reduce even under sub-optimum lighting conditions. The camera continues to deliver absolutely sharp images, even under 10 Lux. Below 10 Lux however the color reproduction suffers significantly and thereby reduces the contrast. In spite of this, the motion clarity stays relatively constant with reducing light and even at 0.5 Lux shows accentuated colors and therefore a good result. A slight picture noise is visible quite early (below 100 Lux).

Performance assessment in backlight situations

On the whole the Samsung SNV 7080-P is also impressive under backlight conditions. With a switchover time of 3 seconds to a b/w picture under suddenly occurring backlight in a dark environment the camera reacts with an average speed and shows an above average high level of clarity. What disturbs however is the above average sized cone that blots out the object being viewed.

Performance assessment in use: Bandwidth measurement

The camera makes use of the available bandwidth and adapts very well to the ambient lighting conditions when in 'variable' mode. It manages to keep a constant motion clarity in light or dark areas. At 20 Lux the bandwidth usage rises briefly up to a maximum value of 17 MB/s, but returns afterwards to an average value of 7 MB/s.

Conclusion

As a 3 megapixel Full HD network camera the Samsung SNV 7080-P is impressive above all in its sharpness. No matter what the conditions, the camera delivers a sharp picture. There is already a slight image noise to be seen at 100 Lux that tends to increase as the light reduces, but this plays only a small role under such conditions. With a maximum transmission rate of 30 images/sec. the camera impresses with good motion clarity. In addition it has camera-based movement detection and video analysis functions such as face recognition, for example.

Technical data for the camera test

| | |
|------------------------|---|
| Manufacturer | Samsung |
| Model | SNV_7080-P |
| Firmware version | 2.00_121004 |
| Distance to test chart | 0.3 m |
| Lens used | 3 ~ 8.5mm (2.8x) Motorized vario-focal DC auto iris |
| *Focal length set | c. 6 mm |
| *Compression method | H.264 |
| *Max. Resolution | 2048 x 1536 |
| *Compression | – |
| I-Frame-interval | 1 second |
| Max. stream bandwidth | variable |
| Measured frame rate | 20 fps |
| Average bandwidth | 7.16 Mbit/s |

* The camera was integrated into the test system using 'default' settings and modified with the test criteria listed above.

Assessment with differing illumination conditions

| Criteria Lux values | 1000 Lux | 100 Lux | 10 Lux | 0,5 Lux | 0 Lux + *BL1 |
|-------------------------------|----------|---------|--------|---------|--------------|
| Colours | 1.5 | 1.5 | 2.5 | 3.5 | b/w |
| Contrast | 2 | 2 | 2.5 | 3.5 | 3 |
| Focus | 1.5 | 1.5 | 1.5 | 2 | 2 |
| Motion sharpness | 2 | 2.5 | 2.5 | 2.5 | 2 |
| Image noise | 2 | 2 | 3 | 4 | 2 |
| Recovery from backlight | – | – | – | – | 3 |
| Performance against backlight | – | – | – | – | 3.5 |

Assessment according to the following grades: 1 (Excellent) 2 (good), 3 (average), 4 satisfactory), 5 (limited), 6 (poor). BL= Backlight *in the beam of a white light LED

Test the Best!

Seetec and GIT SECURITY test video cameras in the test lab of the Hardware Competence Center at SeeTec under standardized conditions. The results provide a solid basis for the planning of IP video projects and help to avoid embarrassing surprises. For the test procedure video sequences are created under various different fixed lighting conditions and subsequently evaluated. Movement in the picture as well as night and backlight conditions are also included.

Performance

Performance assessment when used with 1,000 Lux

If good lighting is available the Interlogix TVD can impress with brilliant colors. This benefits above all the sharpness and the contrast.

Performance assessment when used with less than 1,000 Lux

The clarity can also be maintained when operating at light levels below 1000 Lux. The imaging of static objects remains very good throughout. Although the colors fade with decreasing light, this is compensated for by generally constant contrast. Only a slight streaking of moving objects affects the picture. At 0.5 Lux the camera automatically switches into night mode (b/w imagery) and provides a generally clear picture with deficits in motion clarity and image noise.

Performance assessment in backlight situations

In contrast to the behavior of the camera at light levels around 0.5 Lux, the motion clarity under backlight is significantly better. The sharpness is continuously reduced and doesn't abruptly deteriorate. Just the large light cone spoils the image as it covers a large portion of the whole picture. The camera switches at 0.5 Lux to b/w and also stays in that mode under backlight conditions.

Performance assessment in use: Bandwidth measurement

The camera was tested under H.264 with maximum resolution. The bandwidth usage down to c. 0 Lux remained relatively constant at an average of 4.15 MB/s. The data rate reduces under poor lighting. Under backlight a brief peak of 9MB/s was measured. There can be a loss of quality in areas with less light, caused by the attempt to keep the bandwidth usage at an average of 4 MB/s without regard to the external conditions.

Conclusion

The Interlogix TVD-M3210V-2-P delivers a clear picture under good lighting conditions with good color reproduction and a continuously excellent sharpness. The sharpness only reduces on moving objects as less light becomes available, although this happens gradually and is therefore acceptable.

In Focus: Interlogix TVD-M3210V-2-P

The Interlogix TVD-M3210V-2-P is a compact megapixel dome camera with 3MP resolution, that complies with both the ONVIF and PSIA standards and is intended for inside use. The camera uses H.264 compression technology and employs a dual-stream process to adapt the bandwidth of the data to the user's requirements. The video data can also be stored on an internal SDHC memory card, for example if the network fails.



CAMERA TEST

Technical data for the camera test

| | |
|------------------------|-------------------------|
| Manufacturer | Interlogix |
| Model | TVD-M3210V-2-P |
| Firmware version | V3.0.e |
| Distance to test chart | 0.3 m |
| Lens used | 2.7-9mm, F1.4 auto iris |
| * Focal length set | 6 mm |
| * Compression method | H.264 |
| * Resolution | 2048 x 1536 |
| * Compression | - |
| I-Frame-interval | 1 second |
| Max. stream bandwidth | variable |
| Measured frame rate | 12 fps |
| Average bandwidth | 4.15 Mbit/s |

*The camera was integrated into the test system with the "default" settings. The settings were modified according to the test criteria listed above.

Assessment with differing illumination conditions

| Criteria Lux values | 1000 Lux | 100 Lux | 10 Lux | 0,5 Lux | 0 Lux + *BL1 |
|-------------------------------|----------|---------|--------|---------|--------------|
| Colours | 1.5 | 2 | 2 | b/w | b/w |
| Contrast | 2 | 2 | 2 | 3 | 3.5 |
| Focus | 1.5 | 1.5 | 1.5 | 2 | 2 |
| Motion sharpness | 2 | 2.5 | 3 | 3.5 | 3 |
| Image noise | 2 | 2 | 2.5 | 3.5 | 2.5 |
| Recovery from backlight | - | - | - | - | 3 |
| Performance against backlight | - | - | - | - | 3.5 |

Assessment was performed according to the rating system of 1 (very good) to 6 (unsatisfactory).
BL= Backlight *in the beam of a white light LED

Compact Cube Cameras

Vivotek launches two compact size cube cameras – IP8130 and IP8131. Both cameras, with their small appearance and elegant design are designed for end-user surveillance applications such as homes, offices and shops. IP8131, the enhanced version of IP8130, is especially suited to low-light situations with a removable IR-cut filter for day and night functionality and built-in IR illuminators, effective up to 6 meters, securing excellent video quality under completely dark environments. Both cameras are equipped with 1-Megapixel CMOS sensors, and are able to capture 1,280x800 resolution video at 30fps. Also, by supporting industry-standard H.264 compression technology, bandwidth and storage consumption can



be reduced significantly. There is also a built-in microphone that can record sounds within a 5 meter radius. With the bundled ST7501 multi-lingual 32-channel recording software, users can set up an IP surveillance system easily. www.vivotek.com

Reader with convenient GPRS connection

Idesco's latest reader, Access 9 CD 2.0 G, sports the convenient and economical GPRS portal for administering ID transactions. A robustly reliable portal, GPRS is a perfect cost-effective solution for sites unable to accommodate cabling. The Access 9 CD 2.0 G is easily deployed in the remotest construction sites, where no data transfer capability exists besides GPRS – the same protocol your GSM mobile phone uses. Natu-

rally, Access 9 CD 2.0 G is designed to endure the harshest environments and most inclement weather. After programming and entering your credentials, you'll be able to control the reader's wireless interface settings by SMS from around the world. Built for extreme toughness, this remarkable new reader also comes with an enlarged LED to ensure visibility in bright daylight.

www.idesco.com

Launch of Cloud-Based Video Surveillance Solution

Genetec will hold its European launch for Stratocast, a new cloud-based video surveillance system at IFSEC 2013. In addition, Genetec will showcase the latest version of its unified security platform, Security Center, and the all-new Synergis Master Controller. With packages starting below USD 10 a month per camera, Stratocast is an affordable, yet powerful Video Surveillance as a Service (VSaaS) solution. Designed to meet the needs of small and midsized businesses, such as quick service restaurants, retail shops, office buildings, as well as sporting and musical events, Stratocast offers a high-end and extremely reliable video security solution without the costs and advanced configuration typically associated with installing and managing on-premise surveillance systems. Visitors to the Genetec stand (hall 4 C430) will experience first hand how Stratocast leverages Genetec's video leadership to provide

essential functionalities such as native HD video support for unbeatable picture quality, automated alerts that notify users of system activity, and the unique Cloud Federation feature which allows enterprise users to easily add cameras to remote locations while centralizing monitoring within their existing Security Center operations. With a guaranteed uninterrupted service 99.5% of the time, and a modern and easy to use interface, users will be able to quickly and reliably access live and recorded video from their Stratocast system on their computer, smartphone or tablet, from anywhere in the world. Genetec will also showcase the latest version of its security platform, Security Center, that blends video surveillance (Omnicast), access control (Synergis) and license plate recognition (AutoVu) into a single unified platform.

Ifsec 2013 · Hall 4 · Stand C430
www.genetec.com

12-Megapixel Panoramic Camera with WDR

Arecont Vision announced the availability of "the world's first 12-megapixel 180° panoramic dome camera with true Wide Dynamic Range (WDR)". In addition to its superior performance under challenging lighting conditions, the manufacturer's 12-megapixel WDR 180° panoramic camera is 57 percent smaller than previous Surround Video models. The Company's WDR technology delivers a dynamic range of up to 100dB at full resolution and without lowering the frame rates. By combining long and short exposures in the same field-of-view, WDR maximizes the amount of detail in both bright and dark areas of a scene. The WDR performance of the cameras represents an up to 50dB improvement (300X)



in dynamic range compared to non-WDR cameras. "Our panoramic cameras render pan-tilt-zoom cameras obsolete by covering a full 180° field-of-view with high resolution, allowing users to zoom-in for details," said Raul Calderon, Senior Vice President of Operations, Engineering and Product Management.

www.arecontvision.com

Cameras And Software For Controlling IP And Analogue



Grundig Security, one of the leading manufacturers of security equipment for professional integrators, will be exhibiting its latest new products at Ifsec 2013. The company's stand design gives integrators hands-on experience of its comprehensive, high-quality range. – Simone Kischkat, marketing manager at Grundig Security, explains, "We have a clear, practical stand that reflects Grundig's brand values. Visitors can see, test and operate IP, HD-SDI and analogue products. We will also be releasing our 2013/2014 product catalogue at the show." – Andreas Kronwald, product manager at Grundig Security, stated, "This is our third year at Ifsec and once again we are introducing a selection of innovative new products in all technology areas. Our analogue camera series features 960H support with image resolutions of up to 700TVL. We present our IP camera range with camera options for

low light applications and a camera option with 360° view. – "Our new 4, 8 and 16 channel DVRs also support 960H, real-time recording and share the same intuitive interface as our NVRs. The NVRs provide Full HD, real-time recording and make commissioning and set-up simple by incorporating automatic camera configuration for Grundig IP and ONVIF profile S cameras. They all come with a built-in PoE switch." Grundig will also demonstrate the GCMS, Central Management Software which controls the NVRs, DVRs and Grundig IP cameras, even if they are used within a single, multi-technology CCTV system. The GCMS can help simplify analogue to IP migration for installers and can reduce CCTV system costs by facilitating the re-use of legacy analogue cameras in new IP systems.

Ifsec 2013 · Hall 5 · Stand C30
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Place: NEC, Birmingham, UK

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► One of the world's leading fire safety shows, International Firex is strategically located alongside IFSEC, Safety & Health Expo, The Facilities Show and Fire & Rescue.

SICHERHEIT 2013

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Date: Dec. 01–04, 2013

Place: Cairo, Egypt,

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► The mission of MEFSEC is to facilitate knowledge transfer and business opportunity in key sectors of the firefighting, safety and security market. The aim of this event is to build networks by bringing together experts, industry leaders and distributors.

Perimeter Protection 2014

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Website: www.perimeter-protection.de

► Trade Fair for active and passive security elements and systems for site protection and building security.

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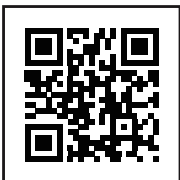
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