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4

GIT

MAGAZINE FOR SAFETY AND SECURITY

SECURITY

EMEA



Security Management

Video Fire Detection

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Perimeter Protection

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Maintaining the façade



Eighty people died in the Grenfell Tower fire in London. This would never have happened in Germany, because the fire would not have been able to spread in the first place.

Even if many people are at odds with German bureaucracy, a simple regulation prevents the worst happening: high-rise builds, where the top floor is above 22 meters, must have a façade made from non-combustible materials. It's expensive, but sensible. This stipulation has been in place in Germany since the 1980s and was championed by fire chiefs.

Yet the subject of façades is relevant worldwide: in Dubai, for example, there have been three major fires in high-rise buildings since 2015. Once again, the cause lay with the façade. It is scandalous that the use of cheap materials in construction puts human lives at risk. The fire service cannot reach the site quickly enough, because the fire spreads in minutes. Sprinkler systems are also useless if the fire climbs across the façade. We saw with the London fire how quickly this happens.

The passive fire prevention guidelines must be taken into consideration so that the fire is at least contained, or prevented from spreading in the first place. It is particularly important that oxygen is not generated by insulation or other control structures. Refuges and parts of the building that are completely fireproof make work easier for the rescue services. This includes rapid evacuation. Another disadvantage of the flammable façade is that these usually have a small air gap between the building wall and cladding. This is a disastrous combination, as experts know.

Reinhard Riess, head of Frankfurt's professional fire service, explained in an interview with *Süddeutsche Zeitung*: "We now know that a combustible insulation had been affixed to the London high-rise's external wall. Metal panels were fixed to this, probably with plugs and screws, creating a gap in between in which air could circulate. This kind of arrangement acts like a fireplace as soon as it ignites."

The United Arab Emirates learned from the fires and published a new fire prevention guideline – twice in the last two years. Nevertheless, there are still several thousand buildings in the UAE which were constructed according to the old regulations and are therefore still dangerous.

The right conclusions need to be drawn, not only in the United Arab Emirates, but everywhere. The ISO 13785 global standard "Reaction-to-fire tests for façades" is a start. Generally, test standards which also cover the subject of combustible materials on façades should be obligatory.

One approach would be stricter regulations and stricter tests during construction. Older high-rise buildings, which remain most at risk of fire, must also be retrofitted. And as quickly as possible. After all, we are talking about people's lives.

Enjoy reading this issue!

Lisa Schneiderheinze
For GIT's Safety and Security team

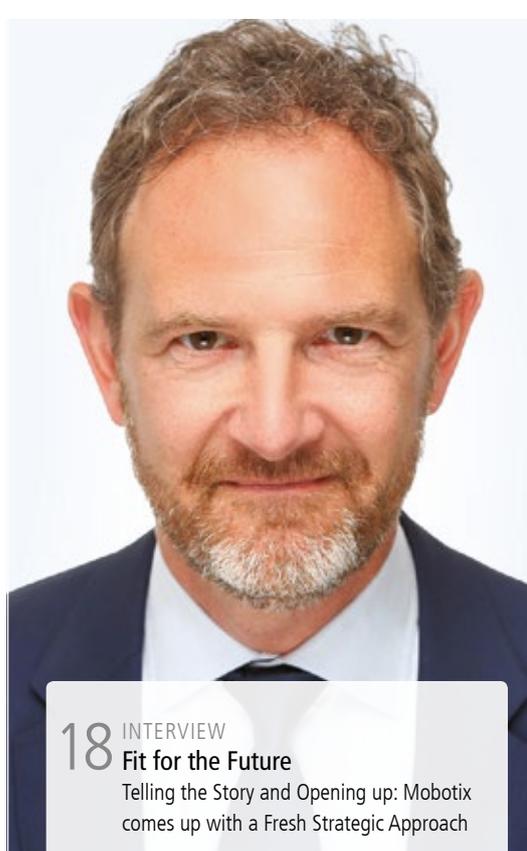


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Comelit Door Entry System Reflects Sleek Lines of Iconic Luxury Development

In keeping with the sleek, contemporary architecture from Foster and Partners, the Corniche riverside development of three high-rise buildings in central London is fitted with modern door entry systems from Comelit. The aptly named



Vip system – installed by security systems and building technology integrator Interphone – consists of four 3one6 Sense entrance panels, 213 Icona internal monitors and third-party home automation integration. The brushed stainless steel touch-sensitive smooth surface with no buttons and integrated color camera and LCD are fitted at the entrances to each tower. Inside each apartment is an Icona door entry monitor with a gloss surface in transparent, scratch-resistant polycarbonate, edged with a brushed stainless steel surround. The full-duplex hands-free monitor features white back-lit touch-sensitive controls and a 4.3-inch color LCD screen. All of the three buildings are also fitted with the company's Multi-User Gateway, which allows access to be controlled and monitored by residents using the App installed on a smartphone or tablet.

www.comelitgroup.com

Pelco: New CEO Jean-Marc Theolier

Pelco by Schneider Electric welcomes their new CEO, Jean-Marc Theolier. Jean-Marc comes to Pelco having served in a variety of leadership and engineering roles within Schneider Electric and other technology companies. After graduating with a Degree in Mechanical Engineering and an MBA, Jean-Marc started his career with Schneider Electric in Power Controls (Merlin Gerin) as a Mechanical Engineer. He moved to the USA 20 years ago, first to Texas for Crouzet Automation North America as a Sales Manager and then to California for Crydom Relays. Jean-Marc became General Manager – CEO of Crydon in 2009, then subsequently had GM roles of increasing size businesses at CST and Sensata Technologies. Jean-Marc's personal interests are cycling, running and swimming and participation in triathlons. He and his family have held dual American and French citizenship since 2006 and will be relocating to the Clovis, CA area in the coming months.

www.pelco.com

Morse Watchmans Expands Integration Capability of KeyWatcher Touch

Morse Watchmans announced the release of Gallagher's Command Centre Access Control System integration module for its flagship KeyWatcher Touch system. The new module enables users to map Command Centre access groups with KeyWatcher Touch profiles, allowing new users to be added to the system from Gallagher's Command Centre. "KeyWatcher's open architecture platform provides new business and security advantages based on enhanced functionality and centralized control," said Fernando Pires, VP of Sales and Marketing, Morse Watchmans. "With our new module integrating Gallagher's Command Centre and KeyWatcher Touch, time-consuming tasks are effectively and reliably automated across the enterprise." Among other efficiency benefits provided by the integration is the ability for users in the Command Centre to be assigned to a specific KeyWatcher Touch access group. This automatically adds both the user and associated profile to sites for access to specified keys. As well, alarms and events from the KeyWatcher Touch system can be configured and sent to the Command Centre for monitoring. "This integrated solution eliminates duplication and provides the end user with a more secure environment," said Rob Hughes, Product Manager at Gallagher Security.

www.morsewatchman.com

Access Control for Support Center

Paxton, the UK market leader of electronic IP access control and door entry solutions, recently supported the BBC's DIY SOS team in their latest project to create a new, purpose-built support center, with short term accommodation for young people living in and leaving the care system. Nick Knowles and the DIY SOS team headed to Swansea to support The Roots Foundation Wales, a charity part-funded by BBC Children in Need which offers wide-ranging support to children and young people. Despite storms and a tight 11-day build schedule, the team, with the help of hundreds of volunteers built the new 320 square meter facilities from the ground up. As part of the project, Paxton donated a range of their products including Net2, their flagship networked access control solution, Net2 Entry an IP based door entry solution, Net2 Pax Lock, a wireless access control system in a door handle, and a range of their readers and keypads to control access in and around the new building. In total eight doors were secured in the installation by Secured Alarm Systems Ltd, a Swansea based company specializing in electronic security, who worked on site to assist with the project.

www.paxton.co.uk

Strength in Depth at Intersec

Vanderbilt's stand SA-G17 at Intersec 2018 between January 21st and 23rd, 2018 in Dubai will reflect the company's increasing range of security solutions. Alongside products like SPC and ACT365, will be Sipass integrated – a product made by Siemens – ACTpro, SPC Connect and the Sipass-SeeTec integration. This is a powerful open access control management software, scaling from small to large complex deployments. "The user-centric design delivers ease of operation and maintenance, with simple and self-explanatory menu structures and buttons," explains Ross Wilks, Product Marketing Manager at Vanderbilt. It is able to replace traditional key cards with Android and iOS mobile devices, or wearables like Apple Watch and Android Wear. Seetec's software and Vanderbilt's hardware has been co-developed to enable a system that is highly efficient, flexible and scalable. Cloud-solutions ACT365 platform for access control and video management and SPC Connect – a hosted cloud-based solution designed specifically for installers to monitor, manage, and maintain SPC panels remotely from any location – will also be on show.

www.vanderbiltindustries.com

Hidden Threats Revealed with Hikvision's Under-Vehicle Surveillance Systems

Hikvision has launched a new range of fixed and portable Under-Vehicle Surveillance Systems (UVSS). Fully digitally based, the UVSS have been specifically designed to scrutinize the undercarriage of vehicles, offering a fast and effective means for



security personnel to examine moving vehicles, and all with minimal disruption to traffic flow. To address differing application requirements, the company has independently developed two types of UVSS, one fixed model and one portable. Both can accurately display an image of the underside of a moving vehicle to provide highly detailed, critical security monitoring. At crowded airports, high-volume venues, large-scale events, public places, and high security facilities, it's well known that criminals may attempt to use vehicles for a wide range of nefarious purposes – such as hiding or smuggling illegal items. In this scenario, UVSS can be deployed to quickly and accurately identify hidden threats, contraband, or the smuggling of persons. The UVSS can be used to automatically screen every vehicle entering or leaving a site, with popular applications including prison 'mantraps', customs border checkpoints and secure car park entrances.

www.hikvision.com

ACRE Announces the Sale of Mercury Security Products

ACRE CEO Joseph Grillo stated, "Divesting Mercury after many years of success since ACRE purchased the business in 2013 is a strategic move that allows ACRE to focus on its core Access Control, Video and Intrusion businesses under the Vanderbilt and Comnet brands. HID is the perfect home to provide for the continued growth and success of Mercury, which will remain a valued technology supplier to Vanderbilt." The ACRE portfolio consists of global brands with proven technologies, a long acclaimed reputation for innovation and a high level of customer service and support. Vanderbilt provides over 2,000 products across access control, intrusion, video and cloud-based access and video systems in 95 countries. ComNet offers a broad line of fiber optic, copper, and wireless video and data transmission equipment designed for security and surveillance applications in intelligent transportation systems, utility and industrial markets. HID's acquisition of Mercury Security is subject to regulatory approval and customary closing conditions. It is expected to close in Q4 2017. Financial terms of the agreement are not being publicly disclosed. Houlihan Lokey Capital, Inc. and Raymond James & Associates, Inc. acted as financial advisors to ACRE and Mercury.



www.hidglobal.com

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Portfolio Changes at Honeywell

Honeywell announced the results of its comprehensive portfolio review, including its intention to separately spin off its Homes product portfolio and ADI global distribution business, as well as its Transportation Systems business, into two stand-alone, publicly-traded companies. The planned separation transactions are intended to be tax-free spins to Honeywell shareowners for U.S. federal income tax purposes and are expected to be completed by the end of 2018. "Today's announcement marks the culmination of a rigorous portfolio review involving a detailed assessment of every Honeywell business. As part of that review, we analyzed numerous criteria, including growth outlook, financial performance, market dynamics, potential for disruption, and, most importantly, assessment of fit as a Honeywell business," said Honeywell President and CEO Darius Adamczyk. "The remaining Honeywell portfolio will consist of high-growth businesses in six attractive industrial end markets, each aligned to global mega trends including energy efficiency, infrastructure investment, urbanization and safety. [...] Our simplified portfolio will offer multiple platforms for organic growth and margin expansion through further deployment of our worldclass HOS Gold operating system and the Honeywell Sentience Platform. Honeywell will also have multiple levers for continuing to execute an aggressive capital deployment strategy, including a vigorous and disciplined M&A program. The spun businesses will be better positioned to maximize shareowner value through focused strategic decision making and capital allocation tailored for their end markets," Adamczyk said. www.honeywell.com

Uniview Held Global Partner Summit

'Stronger Together' was the first global partner summit held by Uniview during CPSE Security Show in Shenzhen on 30 October 2017. Uniview insists on putting customers to the first place and sharing the benefit together, which is exactly suit to the theme of the summit – Stronger Together. More than 200 partners from all over the world attended the summit. Hermit Zhang, CEO of Uniview, gave the opening speech. "It's been 12 years since Uniview started video surveillance business in 2005. And the global video surveillance trend has changed a lot. But one thing that hasn't change is our commitment to our partner and our ability to do amazing things together." Said Hermit Zhang. Uniview keeps its pioneer position among global video surveillance manufacturers for reasons. Uniview always puts innovation and quality to the first place during the whole process of product research and development, keeps pushing the edge of innovation. <http://sg.uniview.com>

www.GIT-SECURITY.com

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Detectortesters Appoints New Managing Director

Detectortesters (No Climb Products Ltd.) has appointed Robert Campbell to the role of Managing Director. During his career, Robert has held numerous high-profile positions, managing business around the world including companies in the UK, France, Germany and Asia. Many of his positions have been within the fire industry, most recently as Managing Director at Cooper Fulleon and Cooper Fire Systems. Robert joins Detectortesters at a particularly exciting time, with the company recently launching several new products at Firex International, including the innovative Solo 365. In addition to this, a major refurbishment project is currently underway, transforming the company's Hertfordshire premises. Commenting on his appointment, Robert said: "The Company and its solutions are well known and respected around the world, this is a period of growth and tremendous opportunity for the business and it's great to be part of that." Robert joined Detectortesters on the 11th September and is based at the company's office in Hertfordshire. www.detectortesters.com



Light + Building 2018 with New Themes and 2,600 Exhibitors

'Connected – Secure – Convenient' is the motto of the coming Light + Building exhibition, which will be held with an additional exhibition hall in Frankfurt am Main from 18 to 23 March 2018. Focusing on the key issues of the 'smartification of everyday life' and 'aesthetics and well-being in harmony', the industry is preparing to present intelligent and networked solutions, future-oriented technologies and current design trends which increase not only the economic efficiency of buildings but also the comfort and safety and security of the users. Light + Building brings together all power-controlled building-services systems and promotes integrated building planning. One of the focal-point themes of the coming fair will be safety and security technology. The combination of different systems, such as video monitoring and access control, their interconnection and integration in building automation are important aspects of interest to both the industry and users. Enriching the location will be a special show entitled 'SECURE! Connected Security in Buildings' and the Intersec Forum, which will be held concurrently with the fair on four days from 19 to 22 March 2018. www.light-building.com



Nedap's Smart Parking Sensors Installed in the United Arab Emirates

The Roads and Transport Authority (RTA) in Dubai has launched the initial phase of the Smart Parking Project, covering controlled parking at Al-Rigga and the World Trade Center areas, a project implemented by Energy International Corporation, Dubai, U.A.E. The smart parking sensors of Nedap were implemented in Al-Rigga Area to provide real-time parking information. The company's Sensit system consists of smart parking sensors which detect the vehicle occupancy status and duration of parking events at individual parking spaces. These sensors use dual-detection technology, combined magnetic and infrared, to ensure the most accurate vehicle detection measurement. Real time occupancy information of sub-zones in Rigga area is displayed in the RTA app. It also allows payment of parking fees without an additional charge for an SMS. The number of available parking spaces is also displayed in Arabic and English on dynamic message signs on the streets. www.nedap.com

New Arecont Vision Executive Leaders Appointed

The company has announced the promotion of five executives to larger, key assignments. Raul Calderon, who joined in 2007, has been promoted to Chief Operating Officer and General Manager, and will continue to report to Dr. Kaplinsky (CEO and founder) and Dr. Berezin (President and founder). With this change, Mr. Calderon is now responsible for the day-to-day operation of the company, with Sales, Marketing and Support now added to his portfolio of Operations, Engineering/R&D and Product Development/Manufacturing. Kyle Parker, most recently Vice President North America Sales West, is promoted to Vice President, Americas (US, Canada, Mexico, Latin/South America). Mitch Fagundes has been promoted to Vice President of Global Strategic Accounts from his previous role as Director of Business Development. Sanjit Bardhan is now Vice President of EMEAL, adding Europe to his previous leadership responsibilities for the Middle East, India, and Africa. Paul Tagger is promoted to Managing Director, Europe under Mr. Bardhan. He was previously country manager for the UK and Ireland. Scott Schafer, who has been Executive Vice President of Arecont Vision for the past nine years, has left the company but won't be disappearing from the industry by any means, however, as he also serves on the Executive Committee and the Board of the Security Industry Association (SIA). Scott is the incoming Chairman-Elect and takes up the mantle of Chairman of the SIA in 2018. www.arecontvision.com

Fire Industry Association Releases New Qualifications

Following the launch of four brand new fire detection and alarm qualifications in designing, installing, maintaining and commissioning of fire detection and alarm equipment earlier this year, the Fire Industry Association has announced that bookings can now be made on the FIA website. The courses are full formal qualifications and will lead to a certificate upon completion, which will be equivalent to an A-Level. "We have designed these courses following the syllabus set by the newly formed Fire Industry Association Awarding Organization," said Michael Gregg, the FIA's Training Manager. "We have put together a robust set of classroom-based learning days that will aid learners in their development – not just in preparing for the examinations, but also in a way that aims to improve their overall knowledge and understanding of the concepts presented." For each qualification there are four units of study, all of which must be passed in order to gain the certificate at the end and be awarded the qualification. This is an important step forward in formalizing the process and developing the level of service technicians in the fire detection and alarm industry. Courses can be booked at a range of locations across the UK, allowing learners to access the nearest convenient training center. www.fia.uk.com

Azur Drones acquires Skeyetech

Azur Drones has carried out a fourth fund-raising exercise of €3.5 million. It has now raised more than €10 million in funds over the last 12 months and, with Skeyetech, completes its third defining acquisition in nine months. The Bordeaux firm, comprising 15 high-level engineers, has developed a system of standalone UAVs designed to secure industrial sites. The UAVs take off automatically when sensors detect possible intrusions, then carry out cross-checks to confirm and characterize these intrusions, and finally automatically return to their sealed recharging bases. This innovation enables Azur Drones to offer a plug and play solution for securing industrial sites worldwide, in addition to its existing range of wireline and fixed-wing UAVs. The Bordeaux center will bring together all the Group's Research & Development activities and will become a major R&D center in the defense and security sector. The company's turnover has topped the €4.5 million mark, with 50 employees spread over four sites in France, and it aims to achieve a turnover of more than €10 million in 2018. www.azurdrones.com

Accident Classification

With the publication of ISO 19434, a long-standing need has been addressed for a comprehensive mine accidents classification system that could present a standard scheme for all factors associated with the accidents. That will enable full analysis based on either software systems or manual assessment. By presenting a common understandable language for communication between all parts involved in safety, health and environment issues in mines, the hope is that working conditions can continue to improve across all operations in the mining sector. Developed by the ISO technical committee on mining (ISO/TC 82), Seyed Reza Hosseini, Convener of the working group on classification of mine accidents (WG 6), explains that the standard represents a new direction for their work: "Until now ISO mining standards mostly looked at safety features for machinery. ISO 19434 looks at the accidents themselves, giving each accident a code that indicates its causes and consequences."

www.iso.org

Arecont Vision Adds Ipsotek Video Analytics

Ipsotek is well-known in scenario-based analytics, headquartered in London, England and with worldwide sales and support. Arecont Vision already provides standard analytics on cameras, based around motion detection. Server-based or purpose-built platforms can do much more with analytics than is possible or practical on a small edge device like a megapixel camera, which is why Arecont Vision partners with companies like Ipsotek. The result is a much more sophisticated solution for customers. Most of the industry's best VMS and NVR platforms are already long-time members of the Mega Lab and its parent Technology Partner Program. Ipsotek is now available in the AV Mega Lab for continued development and support activities in Los Angeles, and cameras are in Ipsotek's test lab in London.

www.arecontvision.com

Bosch Solution for Portuguese Museum

Bosch Remote Portal helps Porto's Serralves Museum manage rising numbers of visitors. Porto is home to one of Portugal's most important art and architecture foundations, the Serralves Foundation, which governs the Serralves Museum of Contemporary Art and Serralves Park. Both are National Monuments, Portugal's most important heritage classification. Over the past years, the Serralves Museum has become Portugal's most popular museum: visitors now exceed 300,000 per year. With such high visitor numbers, the Serralves Foundation wanted to identify high- and low-traffic days, so they could adjust staffing levels and thereby prevent long queues at entrances and dangerous overcrowding of exhibition rooms. Bosch supported the Foundation by installing Flexidome IP panoramic 7000 video cameras inside and outside the museum. Then the cameras were connected to the Bosch Remote Portal – the built-in video analytics function can interpret what they see. So they not only capture and transmit video images, but can also transmit associated data, such as object type, size or speed. Remote Portal is a software that as a service allows installers to access any Bosch IP camera via the cloud to configure applications, monitor the health status of the camera or set up camera counter reports.



www.boschsecurity.com



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Panasonic's Business Solutions Centre launched in Wiesbaden

A technology showcase of Panasonic's B2B solutions has been launched at the company's headquarter in Wiesbaden, Germany. The Business Solutions Centre, purpose built at a cost in excess of €1m, offers visitors the opportunity to see and experience the many different solutions that Panasonic offers and is split in to four distinct zones:

- Boardroom and Collaboration
- Intelligent Security Solutions
- Connected Signage
- Live Operation

Unlike similar facilities, the Solution Centre showcases numerous third party products, intelligently combined with Panasonic technology to create working examples of how connected technology solutions can create business without boundaries.

"We think our technology sets businesses free. Our commitment to innovation has the power to make technology invisible, so our customers are free to take their business further," said Laurent Abadie, Chairman and Chief Executive of Panasonic Europe who officially opened the facility. "In addition to our strong consumer business, Panasonic provides world leading technology products and solutions for business. The new facility provides a platform for customers to work with some of the continent's best engineers, to design solutions that solve their toughest business challenges."

Close Cooperation with RheinMain University of Applied Sciences

The Business Solution Centre was designed and implemented alongside the RheinMain University of Applied Sciences. Students of the media technology study course, who are on an industrial placement with Panasonic, act as showroom assistants – conducting guided tours in German and English. Prof. Dr-Ing. Bernhard Gross, Professor for Multimedia Networking at RheinMain University of Applied Sciences in Wiesbaden and Rüsselsheim said, "The Solutions Centre is at the cutting edge of business technology, so provides our students with a tremendous opportunity to supplement their studies with real world experience in an industry leading facility."

Digital Signage

The Solutions Centre showcases the latest in Panasonic connected digital signage, integrated with LinkRay technology, which uses LED light to transmit content to mobile devices, and turns digital signage displays, signboards and light sources into 1-2-1 marketing tools for smartphones. The signage also uses age and gender recognition to deliver targeted advertising specific to the viewer. As the name suggests, the COMMsCUBE is a multi-faceted, multi-device environment designed to adapt to modern business needs. A sleek and clean work environment, it contains a



multitude of hidden technologies that work seamlessly in the background to provide a truly interactive and collaborative work space. Designed around a concept by German AV planner macom, the 'COMMsCUBE' demonstrates how AV technology can be used to encourage collaboration, unified communication, interactivity and the growing trend of Bring Your Own Device (BYOD). The work.space.experience area is suitable for ad-hoc meetings, huddles, standard conferencing and a worklab environment – as well as a flexible showroom.

Security Solutions

The live event space includes technology for the automatic capture of events and conferences. Autotracking technology is set up in the auditorium within the Solutions Centre so that, using facial recognition, any presenters are tracked around the stage by PTZ cameras. Finally, the intelligent security zone highlights the latest in smart security analytics so that indoor and outdoor CCTV cameras can provide powerful demographic data as well as a personalised customer experience thanks to facial recognition. Privacy is assured thanks to people masking technology. The Business Solution Centre is a research facility as well as a show room. Future research will focus on state-of-the-art AV-applications for industries such as entertainment and higher education, solutions for a more personalised retail experience and collaboration tools for connecting decentralised business. The Business Solutions Centre strengthens Panasonic's presence in Wiesbaden. Panasonic coordinates its European business from Hessen's capital and has approximately 300 employees at the site – a steady increase of seven per cent since 2012. www.business.panasonic.eu/

Passenger Help Solution for Trains in Europe

A train-to-ground solution that will enable a major European rapid transit operator to receive, manage and respond to on-vehicle passenger help requests remotely, from a central command center is to be developed by Synectics. Following a year-long competitive tender process which identified Synectics as the most suitable provider to deliver against the technical requirements involved the global surveillance specialist has been chosen to design and deploy the tailored solution across 680 trains servicing the capital city. To answer the brief, Synectics has developed an "audio gateway" hardware solution which interfaces with the customer's on-vehicle passenger help system to enable audio in/audio out transmission via the train's cellular modem. Using Synectics' Synergy command and control platform to integrate the communications data, authorized personnel based at a central command center are alerted when an on-vehicle help button is triggered. From the Synergy platform, the operative can then liaise directly with the passenger and implement any further reactive protocols required. www.synectics-germany.com

ONVIF Hosts Annual 2017 Member Webinar

ONVIF, the leading global standardization initiative for IP-based physical security products, hosted its annual membership meeting in late October, providing an update to members on the accomplishments of ONVIF in 2017 and its outlook for the year ahead. Attendees heard presentations on the final release of Profile A in 2017 and the ongoing development of Profile T for advanced video streaming. ONVIF Steering Committee Chairman Per Björkdahl highlighted collective achievements of ONVIF since its founding in 2008. He also cited the progress of ONVIF on a system-to-system approach for interoperability between various management systems, work which is happening in tandem with continued development of additional profiles to keep pace with the changes of the industry. With Profile S for streaming video; Profile G for recording and storage; Profile C for physical access control; Profile Q for improved out-of-the-box functionality, Profile A for broader access control configuration and the new Profile T Release Candidate for advanced streaming, ONVIF continues to work with its members to expand the number of IP interoperability solutions ONVIF conformant products can provide. www.onvif.org

Access Control Integrates with Lift and Escalator

AEOS, Nedap's access control system, has been granted an acceptance test certificate by Kone – a global leader in the lift and escalator industry. This is a big step forward for both security and access management, as AEOS can now be integrated with each of Kone's six lift types. The first project to benefit from this type of lift integration will be Three Snowhill in Birmingham in the UK. This new landmark has 18 stories and a floor space of 420,000 square feet. A high-end, multi-tenant new office building, it will sit in the heart of Birmingham's financial district. GBE Fire & Security has chosen Nedap Security Management to equip the building with AEOS, providing functionality including access control, lift destination control and vehicle identification. In total, 240 doors will be fitted with the AEOS software-based system, which was developed and built by Nedap. The official opening of Three Snowhill is expected to be in March 2019. www.nedapsecurity.com



Sony Network Cameras Safeguard People and Property at Alden Biesen Castle

One of Europe's largest castle estates, the Grand Commandery Alden Biesen, is located in the Belgian province of Limburg. With thousands of visitors flocking to the site, this presents obvious challenges for the castle's owners. Safety of visitors and staff is a prime concern, including VIP performers and guests who regularly attend events at the castle. Vandalism and unauthorised intruders were other key areas of concern, as well as the need to establish liability in the case of accidents. Working with venue security specialists DS Consulting a Belgian Security Consultant and a Belgian integrator SERIS-Technology, Alden Biesen has transformed video security by installing 25 Sony video security cameras at critical points around the site. The selection was made by organising a POC – Proof of Concept with several competitors during daytime and night-time. During the POC, several situations on site were evaluated and finally the Sony camera solution was selected as the best solution for the given challenges. Outside, E- and V-series bullets and ER-rapid dome models from Sony offer all-weather surveillance of the castle grounds, car park and other public areas. The cameras' Exmor R CMOS Sensor technology delivers superb image quality in HD or Full HD. Powerful processing ensures that car number plates and other objects can be seen clearly, even against harsh backlighting or in conditions of near darkness. Indoors, compact SNC-DH110T mini dome cameras from Sony keep a discreet eye over the castle's treasures with minimal visual disruption to the historic room interiors. www.boschsecurity.com/sonyvideosecurity



Euralarm Welcomes New Member Teletek Electronics

Following a decision of its Board, Euralarm has welcomed its newest Member Teletek Electronics. The company will join the Fire Section of Euralarm, which activities cover fire detection, notification, evacuation, extinguishing controls and smoke and heat ventilation. Teletek Electronics will now benefit from Euralarm's services in terms of representation towards European Institutions and Standardisation Organisations. This includes the monitoring of legislative and standardisation issues relevant to the Industry. Teletek will have access to the extended network of national associations and major companies in the electronic fire safety and security sectors, which form Euralarm's membership. www.euralarm.org



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Taktis Protects New Luxury Student Accommodation

A dazzling new luxury student accommodation development in the heart of historic Durham is the location for Kentec's Taktis fire detection and alarm technology. Ernest Place is a complex of 5 and 6-bed apartments and studios boasting deluxe features such as a gym, sauna and on-site cinema, and delivering a modern student lifestyle that is described as University student living at its finest! Such a prestige development demands a fire safety system of the highest pedigree, performance and reliability, which is why specialists MRM Solutions opted for an open protocol system built around the features of the Taktis Technology Platform. A fire safety system comprising three 8-loop networked fire control panels, one in each accommodation block, plus a Vision repeater using Hochiki ESP protocol, is connected to primarily Hochiki smoke and sounder beacon bases (VADs). Available in 2-8 loop or 2-16 loop versions and certified to EN54-2 and EN54-4, the platform is ideal for installation in larger buildings. Its capacity to be networked up to 128 panels and repeaters gives reassurance to all building owners/operators that they're in safe hands.



www.kentec.co.uk

SSAIB Helps Police Forces in Pioneering Drones Deployment

SSAIB has helped two police forces in their pioneering use of drones for a variety of crime-related objectives. SSAIB has certificated Dorset Police, as well as the Devon and Cornwall force, to the Surveillance Camera Code of Practice. This certification enables both police forces to operate these unmanned aerial system (UAS) drones in compliance with the SCC Code, as part of a strategic alliance between the constabularies. Drones can assist officers with missing people searches, crime scene photography and responding to major road traffic collisions, for example. Each of the police forces' drone device can stay in the air for 18 minutes before a change of battery is required, though the use of several batteries provides the capability to remain operational for a prolonged period if required. Each UAS unit has a high definition downlink, meaning officers on the ground can see live footage captured by the drone in the air. Civil Aviation Authority regulations require drone operators to pass a national CAA-accredited qualification. Adoption of drones by the two police forces has required them to additionally demonstrate their conformance with the Surveillance Camera Code of Practice.



www.ssaib.org

Hikvision and Paxton Create Seamless Vehicle Entry System

Hikvision, a supplier of video surveillance products and solutions, has announced the integration of its automatic number plate recognition system into Paxton's Net2 access control system, providing a host of benefits to installers and integrators which in-turn can be passed on to their end-user customers. Working in a stand-alone environment or part of a wider solution, this integration allows legacy and new ANPR systems to be operated seamlessly from the Net2 system, helping to control a gate or barrier by associating an individual's car registration number with their access control credential, such as an entry card or key fob, over multiple formats that utilize the Wiegand interface. This means the user does not have to leave the vehicle to action the gate or barrier.

www.hikvision.com

Hanwha Techwin Hosts ONVIF Developers' Plugfest and F2F Technical Meeting

Video surveillance specialists Hanwha Techwin hosted the 17th ONVIF Developers Plugfest in The Plaza Hotel, Seoul, South Korea on 8-10 November 2017. As a 'Local Sponsor', Hanwha Techwin supported the opportunity for manufacturers participating in the Plugfest to test their devices for conformance to the ONVIF standard. This included simulating real-life scenarios in order to assess the level of interoperability of different manufacturers' devices operating simultaneously as part of a single system. With integrated systems increasingly involving solutions from multiple manufacturers, ONVIF's Plugfest events are important to the electronic security industry as they bring together technical experts in order to test device compatibility and agree up-to-date industrial standardization of interfaces. During the Plugfest, around 20 global video surveillance and physical access control manufacturers carried out peer-to-peer tests of devices and clients both under development and finalized, to see how well they interact with each other. Hanwha Techwin took the opportunity to test its cameras, recorders and Smart Security Manager (SSM) software platform to ensure compatibility with other manufacturers' products.

www.hanwha-security.com

German Office to Support Local Channel Partners

Optex, a sensor manufacturer, has opened a new office in Offenbach, Germany to better support its network of distributors and system integrators in the Germany, Austria and Switzerland (DACH) region. The new facility near Frankfurt includes a meeting room with live products and will be managed by Thomas Napora, Head of Business Development/Sales for the company's security products. He is expecting business expansion in outdoor intrusion detection in residential and commercial applications as well as a growing number of high security perimeter protection projects in the region. Thomas says, "We have seen a growing interest in our Redscan laser sensors, our active infrared beam towers and our short and long range outdoor PIRS. With a strong base of trained and certified channel partners, we have now reached a point where we need a genuine physical presence. This new office will be a fantastic resource for our existing network of distribution partners and system integrators."

www.optex-europe.com



Charles Lombard: New Managing Director EMEA at Apollo Fire Detectors

Apollo Fire Detectors announces the appointment of Charles Lombard as its new Managing Director with regional responsibility for Europe, the Middle East and Africa (EMEA). With a career working in many European countries, Charles has led global businesses of increasing size and complexity based in Italy, Australia, Denmark and France. Charles was Vice President of a group of businesses in his last position with ITW. Born and raised in France, Charles holds a degree from the Grenoble School of Business, and a Master's degree in Social Sciences from the University of Birmingham. He is fluent in French, English and Italian. Speaking about his new role, Charles says: "I am looking forward to joining the Apollo team and to working for a truly global company and leader in its field. "Apollo can look back on a rich heritage and tradition, and I am planning to work with the team to continue building on these foundations and develop the next generations of innovative fire detection technology."



www.apollo-fire.co.uk

Surveillance System for Toyota Iran

IRToya chose Uniview to handle video surveillance in all branches. More than 30 cameras are installed in each branch, cover customer service area, entrances, offices and parking lot. With Uniview products, operators will be able to monitor all the spots inside and outside the store and guarantee the safety. Uniview has provided video surveillance solutions for many branches and soon will cover all the branches of Toyota in Iran. The main demand from IRToya is a solution to keep records with high quality 7/24 video for 2 months. In this case, Uniview provided IR cameras with smart functions and Full-HD image quality. Also, Uniview delivered network video recorders in each branch with four 6TB HDDs. Higher definition brings along the problems of larger storage costs. In order to solve this problem, Uniview developed self-innovated Ultra 265 technology which combined H.265 and U-Code encoding technology, helping to reduce up to 95% bandwidth, compared with a common encoding algorithm whilst no compromise on the details. Most of UNV cameras and NVRs support Ultra 265 which enables the Toyota stores to store over 30 channels videos for 2 months with only 4 pieces 6TB HDDs. If it is H.264 compression mode, it will need 14 pieces 6TB HDDs to store the video. Ultra 265 significantly saves the cost for customers. UNV cameras support various smart functions including people counting, intrusion detection, crossing line detection, scene change detection, etc. By using people counting function, operators can easily analyze the people flow based on the statistics generated from UNV cameras, and reorganize sources to improve.

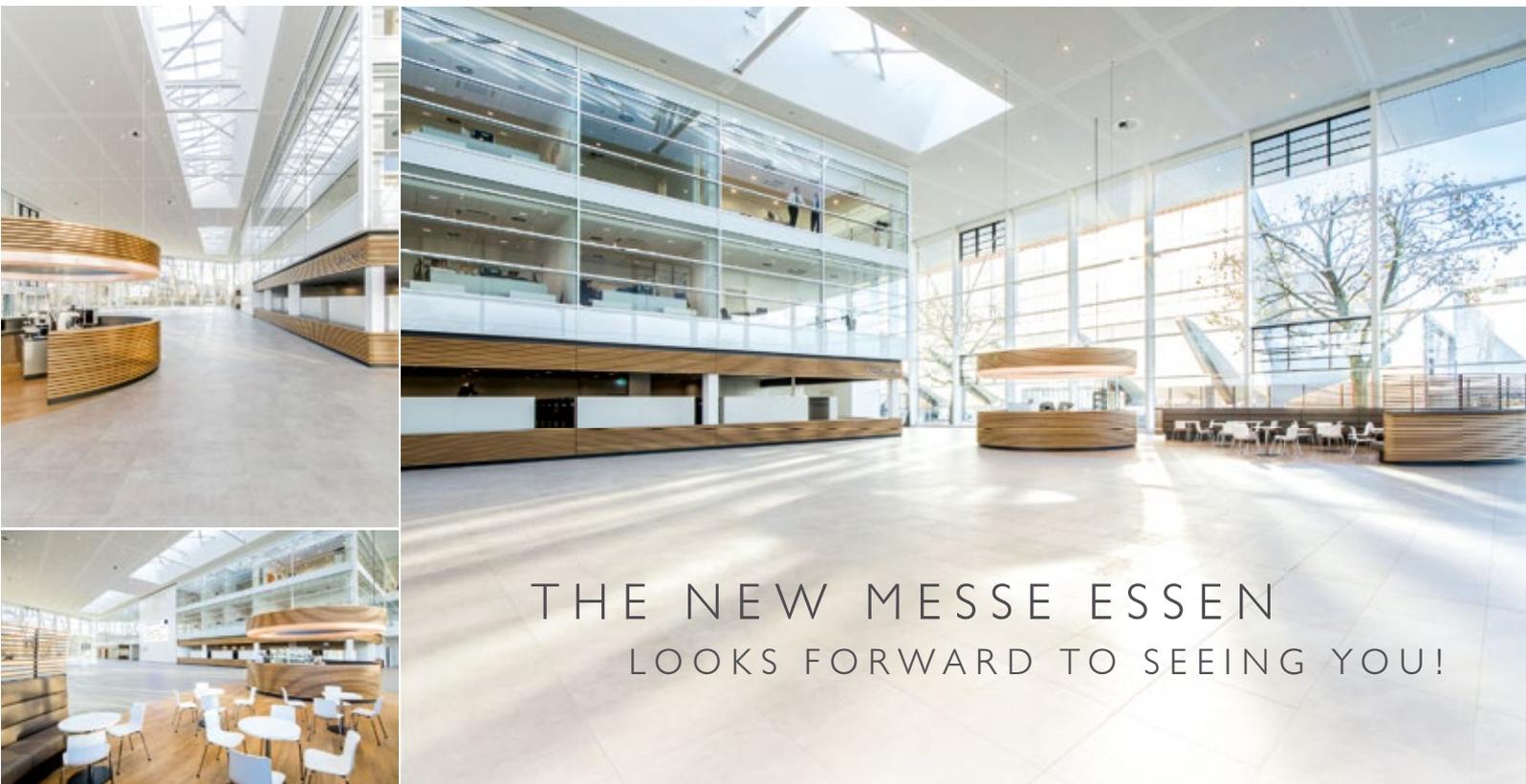
<http://sg.uniview.com>

Hanwha Techwin Expand UK Sales Team

Hanwha Techwin has appointed Keith Bardsley as Business Development Manager for the North of England. Keith will work closely with installers and system integrators in order to identify new opportunities for Wisenet video surveillance solutions and provide pre and post sales support for medium to large projects. Prior to joining Hanwha Techwin, Keith was a Regional Sales Manager for NW Systems Group, a systems integrator specialising in IP network based security solutions and he has also previously worked for Intech solutions and ADT Fire & Security. "The expansion of our UK sales team is another example of how "We move with trust," said Bob (H.Y.) Hwang Ph.D., Managing Director of Hanwha Techwin Europe. "We are delivering on our promise to provide the best possible support for our business partners and customers by continuing to increase our pre and post sales resources in line with increased demand. I am pleased to welcome Keith to our UK sales team. He will be able to put his extensive knowledge of IP video surveillance technology to very good use by supporting the increasing numbers of installers and integrators who are choosing to recommend Wisenet video surveillance solutions to their end-user clients."



www.hanwha-security.eu



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EVENT

Intersec Dubai 2018 Preview

Happy 20th Anniversary

In its 20th anniversary edition, Intersec returns with 13 exhibitors that participated in the very first exhibition in 1999. In 2018, Intersec occupies 60,000sqm across 13 halls at the Dubai International Convention and Exhibition Centre. With the show's other six sections covering Fire & Rescue, Safety & Health, Homeland Security & Policing, Perimeter & Physical Security, Cyber Security, and Smart Home & Building Automation, Intersec 2018 is expected to attract more than 31,000 visitors from 128 countries visitors.

New developments next year include a Drones Pavilion, an indoor Drone Zone, and a Wearable Security Pavilion, while returning features include the Safety Design in Buildings Pavilion in the Fire & Rescue section, as well as an Outdoor Demonstration Zone of the latest fire rescue applications in action.

A comprehensive three-day conference programme will be spearheaded by Dubai's Security Industry Regulatory Agency (SIRA) Forum, while other topics will cover cyber security, drones, commercial security, and fire protection.

Intersec 2018 is held under the patronage of His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, and supported by the Dubai Police, Dubai Civil Defence, the Dubai Police Academy, and the Dubai Municipality.

Looking at the Market Situation

When you look at the commercial security market, you will find a growing demand for streamlined and IP network video surveillance. Therefore, ana-

lysts anticipate that the Middle East's commercial security market will double its value over the next four years, with hospitality likely to witness the highest growth of all end-user segments, according to new research. Intersec's impressive global presence over the last 20 years coincides with the Middle East region's own rapid rise as a significant growth market for homeland and commercial security and fire protection.

Looking directly at the numbers, Frost & Sullivan's researchers observed that the market will be worth US\$4.8 billion by 2021. Video surveillance accounts for a 75 percent of total market share, followed by access control at 15 percent, and intrusion detection at 10 percent.

Saudi Arabia and the UAE together comprise more than half of the entire regional market according to F&S, while among the end-user sectors, hospitality will see the highest growth at a CAGR of 25 percent, followed by commercial buildings at a CAGR of 22 percent.

The latest in sophisticated technologies and innovation in a regional and global market that is undergoing dynamic changes will be a key focal point at Intersec 2018, the world's leading trade fair for security, safety, and fire protection.

Commercial Security Section

With 580-plus exhibitors, Commercial Security is the largest of seven sections, with more than two-thirds of the world's top 50 security solutions players on board, including Hikvision, Bosch, Dahua, Assa

Abloy, Tyco, FLIR, Hanwha Techwin, Axis Communications, Avigilon, Panasonic, Infinova, IDIS, and Milestone Systems. "Safety and security is the pre-eminent priority for businesses and civic authorities not just in the region but across the globe, especially in today's scenario where a small security vulnerability can lead to major losses," said Ahmed Pauwels, CEO of Intersec's organiser Messe Frankfurt Middle East.

"Intersec's Commercial Security section reflects the increasing demand that exists in the region for cutting-edge IP-based network video surveillance, access control and monitoring systems. With a majority of the leading brands present, the exhibition presents a comprehensive line-up of the best in the industry to regional trade visitors, systems integrators, end-users and professionals."

Smart Home Pavilion

Intersec 2018 will be presenting the Smart Home Pavilion which will feature special design and focus on companies that provide Devices and Software Technology for the Smart Home industry. Smart Home is the only platform of its kind in the region that provides the most futuristic and advanced technologies and intelligent solutions. The aim of this section is to set an example of the future of Smart Home & Building Automation.

The show will offer a broad range of innovative solutions for your house, work place and more to bring a positive change in your mode of living. The main key segments of the Smart Home Market can be classified as:

Show Information:

- Show dates: January 21 – 23, 2018
- Show timings: 10:00 am – 7:00 pm (Daily)
- Venue: Halls 1 – 8, Trade Centre Arena and Sheikh Saeed Halls 1 – 3, Dubai International Convention and Exhibition Centre
- Attending Intersec is free of charge after registration

Home Automation

- **Security:** Camera, Access Control, Door Phone and Voice Recognition, Burglar Alarms, Gas Detection
- **Home Entertainment:** Music, Movies, LCD
- **Ambience/Living:** Curtains, Blinds, Parking Gate Controls
- **Energy Management:** Heating and Cooling

Safety Design in Buildings

Earlier this year, tough new fire safety regulations came into force across the United Arab Emirates (UAE) in response to a series of spectacular blazes in high-rise towers in the Emirates over the past few years. The new code targets the exterior cladding that has been blamed for the spread of many fires and aims to reduce its flammability.

With the aim of reducing the occurrence of these flames to zero buildings, even old buildings will have to meet the new code when it is time for their maintenance. The amended UAE Fire Safety and Life Protection Code specifies procedures for the installation of cladding and contains detailed guidelines and responsibilities for consultants, contractors and manufacturers.

The increasing numbers in high rises come with a number of safety related challenges and can cause severe problems and create complexity in a fire fighting operation. After a successful second edition of the Safety Design in Buildings Pavilion,



Intersec 2018 Floor Plan: Within two decades the show is expanding to cover 13 halls with a remarkable growth of 9% increase in space

Intersec announces once again the third edition of the Safety Design in Building Pavilion on the show.

The pavilion is dedicated to the Building Materials industry. These would include all passive fire protection solutions, including Life Safety Design, Building Construction, Fire Protection, Fire Rated Building Materials, Fire Alarm and Smoke Ventilation Systems.

Drone Pavilion & Drone Zone

A dedicated pavilion catering to the exciting Drones Industry and a live Drone Demonstration area to witness UAVs in action will be presented in 2018. It plans to bring manufacturers from all over the world under one roof.

Intersec expects players from the segment of Drone/UAV/UAS Manufacturers, Components & Sensors, Electric, Electronics & Systems, Communication Systems, GPS, Remote Sensing, Geospatial Analysis, Surveillance & Reconnaissance, Propellers, Propulsion & Transmissions, Software Developers, Mapping & Navigation Development, Anti-Drone Systems & Technologies, and Certification & Licensing companies to participate at the exhibition.

Several representatives from the government agencies, customs and port authorities, media and regulatory bodies would be present at the show to share and impart specific information about UAE Drones Market, import duties, compliances, regulations and certification procedures.

Wearable Security Pavilion

According to Technavio's market research analysts, the global wearable security devices market will witness impressive growth over the next few years and post CARG of almost 19% by 2021.

For the first time, Intersec will feature a special area to highlight these developments at the show.

Job Pavilion

Looking for a job within the security industry? Find it at Intersec. Visit the show to meet with recruitment specialists, headhunters and HR departments. The Job Section at Intersec will offer a complete range of employment solutions.



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The show organisers and GIT SECURITY present the new version of the app for Intersec 2018. Navigate to the exhibitor of your choice, use the app offline and still find your way through the exhibition, take Theme Tours and insert notes to every exhibitor you met. And don't forget to greet us with the selfie-tool. Again, the download is free of charge – just go the app store and search for 'intersec dubai' or follow this link: <http://bit.ly/2e4zAvv>. Wiley and GIT SECURITY say 'Thank you' for the very positive feedback on the official show app we produced for Intersec 2017.



EXHIBITION APP

Use Your Smartphone for Intersec Dubai

Official show app intersec Dubai by GIT SECURITY is back

GIT SECURITY and Messe Frankfurt Middle East, organizer of Intersec, present the official show app: intersec Dubai App by GIT SECURITY. With its new 2018 features, the app is the ideal companion for all. It is available now and will be updated constantly.

Keep an Overview

Let yourself be navigated directly to the exhibitors with the dynamic 2D/3D-floor plan. The app determines your location: so, it is easy to get to any exhibitor in no time. Also, with a few clicks you'll find important information about the exhibitors and the exhibition – on your smartphone or tablet of course. In case you want to add a comment or a picture of your conversation partner, you can fill up the app with your personal content.



Theme Tours, 3D Hall Plan, Contacts

With the "My Intersec"-section you may organize your very personal show visit. Theme Tours guide you and give you recommendations. At an exhibition with thousands of exhibitors and many hallways, orientation is a huge time saver. So the official app shows the visitors exactly where to go. It provides a modern and mobile overview on every smartphone. All that is a 'must see' at Intersec. With a 3D floor plan, highlights, theme tours, many contact options and more. Another exciting tool: the "selfie feature" – get surprised.

GIT SECURITY Recommends

Use the list of exhibitors to get information e.g. about access control. But also all other branches of safety and security will be presented. Get the



◀ Find exhibitors with our 3D floorplan and let yourself be navigated directly from your location



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app from Google Play or iTunes, just look for 'intersec Dubai' or follow this link: <http://bit.ly/2e4zAvv> – the app will be updated constantly.



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Mx6 will be presented as a part of an intelligent solution on a worldwide roadshow

INTERVIEW

Fit for the Future

Telling the Story and Opening up: Mobotix comes up with a Fresh Strategic Approach

Mobotix recently decided on a number of measures to restructure the company's operative units and its organization. On the occasion of the disclosure of inside information, Mobotix informed the financial community about its new "Fit for the future" program. GIT SECURITY spoke to CEO Thomas Lausten.

GIT SECURITY: Mr. Lausten, you've been the new Chief Executive Officer of Mobotix since June 15th, one of the most important players in the field of video surveillance and security. How do you feel about your first few months in Langmeil?

Thomas Lausten: It has been an extremely interesting time for me from the start. I not only met our employees in our Langmeil headquarters. As you know, we have about 400 colleagues and partners globally working for Mobotix – including the Americas, the Middle East and Australia. I have just completed a world tour visiting our partners. This experience gave me a deeper understanding of this company. Everyone I met provided me with a tremendous amount of input and knowledge – and what struck me most, is the passion of the people working for our Company and with our solutions. I find this very inspiring and encouraging.

You successfully worked for Milestone Systems before you joined Mobotix. What was it that made you become interested in your new position?

Thomas Lausten: Well, the many years I worked for Milestone had quite naturally brought me into contact with the video technology community. And I must say that Mobotix' approach has always stood out by doing things differently in this market, which has always fascinated me. So my decision was based on Mobotix' attraction rather than an urge to leave Milestone.

Could you expand a bit more on what made Mobotix so impressive for you? And what does this mean for you in your role as a CEO?

Thomas Lausten: Mobotix looks upon the video market in a different way. We don't see ourselves as a classic manufacturer of cameras. Cameras are rather seen in terms of the internet of things idea (IOT), that is, as a computer with a lens, working intelligently and with embedded storage capacities. As you know, we have been experiencing some difficulties recently – we just had to issue a profit alert. For me, this means that we have to tell our story better. The Company is, however, in a financially healthy situation, we have very good people and we have all the means necessary to overcome

this situation. We have just compiled a new strategic plan to make Mobotix fit for the future.

What does this strategy look like?

Thomas Lausten: Our strategy consists of a number of key elements: First of all, we don't see ourselves as a classic camera manufacturer. Instead we distinctly characterize Mobotix as a pioneering global Company that is developing solutions locally in a particular and generic German way. We want to focus on this more because the German way of engineering and approaching things is appreciated as being particularly innovative and of high quality. Mobotix and its employees have internalized this German way of doing things in an exemplary way and it opens up many opportunities in a changing market.

In what way?

Thomas Lausten: For instance, cyber security has become a concern changing the market's approach to video technology. But the market often doesn't see clearly enough that Mobotix is very



CEO Thomas Lausten

capable of providing solutions, one of the reasons being that we are too technically focused. To make our customers understand this better we will do more translation work and tell the story more clearly. And another important conclusion we draw from a changing market: We have decided to open up, as many in the market are less and less inclined to accept a strictly proprietary concept. Our strategy change from a closed Mobotix product universe to opening up our systems enables us to enter new markets. Our partners can react more flexibly to specific needs and cover a wider range of projects with our systems. They were only used in so-called 'green field' projects until now; new installations or for the renewal of video systems. It wasn't always possible to use our cameras within

video management system from other suppliers or some existing systems, for example. We now include the H.264/ONVIF industry standard in our products so they can fulfil customer requirements that far exceed our previous project specifications.

...which is a clear change in Mobotix' long standing strategy...?

Thomas Lausten: Yes, and we're approaching this industry standard from two sides: on the one side we have the cameras that as from now on can 'speak' H.264 which makes it really easy to include our cameras in third party video management systems. On the other side we have the MxManagementCenter, a license-free and free-

of-charge video management system that in the future will also be compatible with H.264 so that cameras from other manufacturers can be simply integrated in the MxManagementCenter. But we will definitely remain true to our own developments, such as the MxPEG Video Codec for example that was specially developed for security applications and has enormous advantages.

We want to increase the intelligence in the camera, meaning our decentralized concept, and to implement even more functionality directly into the camera. We now have a complete processor core available for this. Future software updates will enable it to perform totally new functions, such as recognizing license plates, faces or voices. There are many more ways in which we can use

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Mobotix' Mx6 camera line brings together the video codec MxPEG developed specially for security applications, as well as the H.264 industry standard

this resource. The additional processing power will mainly be used for the implementation of added value and additional services.

This is all part of our new strategy that we call "Fit for the future". We are in close contact with many technology partners and important players. We will now move forward by opening up for integration with key manufacturers, embraced by all our global partners. We will reevaluate a number of functions in our organization, and improve our customer orientation. Also we will focus our technical development more clearly on what we are good at. This will also mean that we will concentrate on certain vertical markets. One of the most important effects of this is that we will empower our people more. This means a certain change from a management point of view: The more we want to grow on a global scale, the more important it will be to listen to and trust our employees. Many very brainy people work for us – I don't know of a single IT-company relying on just a few clever people. One empowerment strategy we are following is to model our way of working on that of a start-up IT-company. We want to spread this spirit among our employees on a global scale.

On one occasion you characterized the market as being "aggressive". In what way? And what does that mean for your own Company?

Thomas Lausten: The video market has indeed some aggressive and disruptive tendencies. I believe we should concentrate on the positive and even fascinating aspects this has for us. Cyber security is one of the many new trends that open up new possibilities. Where are it's pictures going? Who has access to them? Mobotix cameras are very well prepared in this respect. We see many institutions replacing their products – and particularly trusting in products that are constructed under German laws. This makes us very confident, and it is a confirmation of our long term strategy.

What are the decision criteria for choosing a video system these days?

Thomas Lausten: The frame rate or definition of a camera are no longer vital decision criteria because today we have sufficient data available for standard image evaluation. An even higher frame rate often just drives the data rate up that has to be securely transmitted by the network or other infrastructure. So it becomes ever more important to pre-filter the data in the camera and let it be evaluated there. The software in the camera therefore has a much higher priority. At the same time, aspects such as data security and encryption methods become ever more important to encrypt the transmitted data as securely as possible. And this in turn demands more processor time in the camera. Cyber security is based on quality – and it is a key driver for customer's decisions worldwide. Therefore it will play an important role in telling the Mobotix story. This increasing importance of cyber security issues is a great chance – we will not only be impacted by this trend, we will actively put it on our agenda. We have to be aware that companies had to shut down their production lines because of cyber-attacks, which are an increasing threat.

But you don't believe that opening up jeopardizes the goal of ensuring cyber security?

Thomas Lausten: Our development concentrates on cyber security – using German standards. Products that follow this philosophy already have built-in cyber security, as it were. Cyber security is also a matter of choosing the right and reliable partners, in order to meet all the demands of the customer. And opening up our proprietary technology towards other companies' systems doesn't mean that there aren't any boundaries necessary. Our proprietary software and chips remain important – they are of fundamental importance for secure

and reliable systems. This is, after all, the great heritage of Ralf Hinkel and his ideas.

Konica Minolta is the majority shareholder of Mobotix while openness and standardization are a part of your strategic product development and at the same time an inherent part of the 'Workplace of the Future' of Konica Minolta. Exactly how is Mobotix integrated in this concept?

Thomas Lausten: The subject of 'Workplace of the Future' involves a lot more than just the integration of cameras. As well as video systems with cameras, the concept includes a door station with an Mx display and modules such as an Mx keypad. It's all about how our current products with their analytical capabilities, such as object or people counting for example, can be used to automate the processes in offices. For example, when a visitor arrives at the reception area, an employee can be informed to go and collect them. Konica Minolta owns 65% of Mobotix' shares and this gives us fantastic new opportunities. A long term perspective and further developments are enabled for us in this constellation. We are still working independently – and we have already started to realize many of our new ideas.

Thank you for your time and this insight into the Mobotix strategy.

CONTACT

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Perimeter Protection 2018 – the details

- Exhibitors: Suppliers of active and passive perimeter security solutions
- Visitors: Solution designers, specifiers and integrators, and end-users of perimeter security
- Open: 16-18 January 2018
- Location: Hall 12/NCC West, Messezentrum, Nuremberg (Nürnberg), Germany
- Website: www.perimeter-protection.de

EVENT

Perimeter Protection 2018

The Security Sector will meet in Nuremberg from 16–18 January 2018

The Nuremberg exhibition center will host Perimeter Protection, the international exhibition for perimeter protection, fencing and building security, in January for the fifth time. Trade visitors can inspect the latest mechanical and electronic systems for outdoor perimeter protection. Keeping pace with developments, there will also be a new area this year, dedicated to drone detection and defense. A Perimeter Protection congress – organized by the Association for Security Technology (VfS) – will run in parallel to the exhibition on the first two days.

According to Alexander Stein, project manager of Perimeter Protection, the preparations for the exhibition could not be going any better: “The exhibition team is currently working flat out and with much success. We have already allocated almost 4,700 square meters space to exhibitors. That is more space than the 2016 exhibition covered altogether. Visitors can look forward to a comprehensive range of active and passive security technology.” Providers of both these types will come together with purchasers from the industry, authorities and municipalities as well as from building services engineers and integrators of building security systems.

The broad spectrum of product technologies covered by this event shows just how clever security solutions need to be these days. Starting with fences, sliding doors and gates, visitors will find, amongst other solutions, sentry boxes, motion detectors, microwave surveillance, retracting bollards, locking systems and video surveillance, and even tough postboxes on display.

Drone Detection and Defense

Stein also believes that the special area dedicated to the subject of drone detection and defense will be a highlight: “Drone defense is now an important aspect in perimeter security. Appropriate measures are essential, especially for protecting critical infrastructure. We hope to pick up on this important subject with our special area which will be positioned at the heart of all exhibition activities.” Interested companies should get in touch with the Perimeter Protection team as soon as possible if they wish to secure themselves an attractive stand location.

Congress Program

Trade visitors to Perimeter Protection can look forward to the accompanying security congress on the first two days of the exhibition. The Association for Security Technology (VfS) has organized speakers from companies, consultancy firms and planning offices who will discuss the optimal exterior security of outdoor areas in concise presentations. Important subjects in 2018 will include, amongst others: Secure Access – a complex challenge between

access regulation, burglary protection, fire protection and escape route regulation; Drone Detection – from the test laboratory to actual use as well as Integrated Security – the coordinated interaction of man and technology for increased efficiency.

The Perimeter Protection Congress is aimed, on the one hand, at planners and manufacturers and, on the other hand, at authorities, users and system builders. Given that the congress rooms are close to the exhibition hall, participants can bring themselves up-to-date about the latest technology in the sector between presentations or on the third day of the exhibition.

Getting there should be no problem as the city of Nuremberg (“Nürnberg” is one and the same place) is very well connected by road, rail and air. National flights land at Nuremberg Airport from many major cities such as Hamburg, Berlin, Düsseldorf and Frankfurt, alongside international flights from Vienna, Zurich, Paris, Milan, Brussels, London and Amsterdam, amongst others. The event is open from 9am to 5pm on the 16th and 17th January and from 9am to 4pm on the 18th January. ■

NOVO



EVENT

UK Security to launch in March

How to tackle the growing threat facing nations and businesses



For many nations across the globe, the threat from international terrorism remains severe. Physical attacks, carried out by terror cells and radicalised individuals, in Barcelona, London, Manchester, Stockholm, Paris and Brussels have been coupled with an increasing number of cyberattacks. With the issue of national security and counter terrorism at the top of government agendas, Clarion Defence and Security has today announced the launch of UK Security Week that will start on 6 March 2018.

Designed to help international security professionals debate the ever evolving range of threats, define operational strategies and help shape future policy, UK Security Week will include Security & Counter Terror Expo (SCTX), World Counter Terror Congress (WCTC), Forensics Europe Expo (FEE), Ambition, and the new People Movement and Management Show (PMMS). The events have the ultimate objective of helping those tasked with preserving national security, protecting assets and individuals against terrorism.

Identifying New Solutions and Critical issues

The flagship event of UK Security Week is SCTX, which earlier this year attracted 9,851 security professionals from more than 114 countries. It will return to London Olympia from 6–7 March 2018, showcasing some of the most innovative security technologies, from biometrics to HGV mitigation solutions.

Over 350 exhibitors will be present at the 2018 show, including BAE Systems, Chemring, Aaronia, Surelock McGill and Meggitt Training to name a few – making it the largest showcase of national security solutions in the UK. SCTX will also feature

an expansive educational programme that will deliver unrivalled insight into current issues and how to combat new challenges. 10 free-to-attend conference streams, which will run on the exhibition floor, will cover border security, the cyberthreat, protecting national infrastructure, policing, major events security and security design.

One of the most important conferences will be Cyber Threat Intelligence, which is run in partnership with tech UK. Globally, there was a 36 percent increase in ransomware attacks worldwide, highlighting the ever-growing threat caused by cybercriminals. The conference stream will focus on the threat posed by cybercrime and provide a platform for discussion on how to advance best practice and stay ahead of those intent on inflicting harm via the screen.

Speaking about the 2017 Cyber Threat Intelligence conference, Sajid Younis, resilience adviser at DCLG Resilience and Emergencies Division, said: "The sessions have been extremely interesting. It's a huge tier 1 threat to our society right now and it's been great to hear from so many high-profile speakers in the field."

Brand new to the show this year, the Integrated Security Showcase will demonstrate a range of

technology, solutions and services vital for the protection of critical national infrastructure facilities and major assets. A plethora of carefully selected products will be displayed in a live environment, enabling security professionals to learn how the solutions can be implemented.

New Counter Terror Strategies

A key feature of UK Security Week will be the paid-for WCTC, which will run alongside SCTX from 6-7 March. Last year more than 1,000 senior security professionals, including diplomats and high-ranking police officers, were in attendance, keen to learn more about the latest strategies being used around the world to tackle radicalisation, prevent lone wolf attacks and counter international terrorism. With the likes of Europol's Rob Wainwright and Metropolitan Police deputy assistant commissioner Lucy D'Orsi due to speak in 2018, the programme is not-to-be-missed.

Speaking at last year's event, the head of security at The O2 Arena, London, said: "Security in crowded places is vital and the WCTC has been an ideal way to gain exclusive access to the latest measures other high profile attractions are taking. It's been great to network and learn about

so many new and innovative security solutions coming through the market.”

Emergency Preparedness, Resilience & Response Community Event

Supported and chaired by the Cabinet Office, the Ambition event will also run from 6-7 March at London Olympia. The exhibition and conference is aligned with the National Resilience Capabilities Programme and the National Respond and Rescue Strategy, and is supported by the Cabinet Office.

Ambition will provide professionals from government departments, the NHS, councils, local resilience forums, ambulance trusts, fire and police organisations and specialist agencies with the unique opportunity to meet, network and debate the latest challenges facing the EPRR community today. Visitors will hear from leading experts on topics such as the future of emergency services, pandemic diseases, response to terrorist attacks and resilience for businesses, as well as being about to investigate the latest equipment.

The Future of Forensic Science

Forensics professionals play a vital role in apprehending those responsible for crimes, as well as helping law enforcement officers prevent future offences. Running from 6-7 March at London Olympia, FEE is the only international exhibition and conference that showcases the latest equipment and services, and presents new trends and techniques. The event provides a definitive source of education, best practice, training and networking. More than 80 exhibitors will showcase 3,000-plus products during the exhibition, with around 50 free-to-attend seminars exploring all the latest tools in forensic science, from crime scene to courtroom.

Exploring People Analytics

PMMS is the key pan-European trade show for the people analytics industry. From 6-7 March at London Olympia, visitors will be able to discover a plethora of technological innovation in this field which will provide insights into the future of operations from mass transit, retail, passenger terminals and universities to sports stadium, shopping centres and ur-

ban events. The solutions on display will ultimately aid with the modelling and design of urban spaces from a people movement perspective.

The technologies on show will range from real time data acquisition to maximise space utilisation, to wayfinding, circulation efficiency, retail revenues, operational effectiveness, resilience and the securing of crowded places and ultimately visitor experience. Additionally, visitors will have the opportunity to hear and meet world-leading experts in

this field, in a range of high level presentations delivered across a varied two-day agenda.

Richard Walton, UK Security Week Special Advisor and former Head of Counter Terrorism Command (SO15) at New Scotland Yard, commented: “The threat we are facing today is inherently different from that of even a few years ago. Cyber-attacks are now a major concern for governments and businesses, while physical attacks being carried out by radicalised ‘lone wolves’ are in-

credibly hard to prevent. UK Security Week will deliver a series of invaluable opportunities to learn about new strategies that can help security professionals keep civilians, assets and infrastructure safe.”

CONTACT

Clarion Events

www.sctx.co.uk/registration
(Use guest code UKSW18)

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WILEY

Category A

Safe Automation

Keyence: SZ-V

Safety Laser Scanner

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

**1st
Place**



Schmersal Group: SLB

**2nd
Place**

Safety Light Barriers

The SLB 240/440 series safety light barriers are extremely small and have built-in analysis. They are simple and quick to install, even in confined spaces. SLB are ideal for safeguarding hazardous areas with small openings, e.g. loading machines for printed circuit boards. They have safe semiconductor outputs (2 x PNP) and can be included directly into the safety circuit, even without external safety evaluation. They can also be used for process protection. In high-

shelf warehouses, they allow object recognition and height recording, for example. In the autonomous transport of packaged products, they can detect deviations from pre-defined positions and prevent damage. All SLB versions have a visual set-up guide which makes commissioning significantly easier. The SLB models have 4-way coding which allows up to four sensor plates in one direction to be operated on one application without affecting one another. Configuration does not require tools such as PCs or commissioning systems, it simply uses a command device (button). Set-up, automatic and restart modes and a diagnostics mode are available.



Dold: UH 6900

Bidirectional Radio-Controlled Safety Module

The new radio-controlled safety module UH 6900 of the Safemaster W series for the safety-oriented, bidirectional transmission of e-stop and control functions offers more flexibility in safeguarding hazardous areas. By implementing the latest radio technologies a high degree of availability and safety is

**3rd
Place**



achieved. Two safety zones can be connected wirelessly to each other over a considerable distance. The TÜV-certified system for safety applications reaching up to PL e/Cat. 4 or SIL 3 is characterized by its large range of up to 800 m. Fields of applications for example are extensive facilities in the intralogistics sector and mobile applications, such as fully automatic internal transport vehicles and driverless transport systems.

FIRE AND EXPLOSION PROTECTION, INDUSTRIAL SAFETY

Category B

Fire and Explosion Protection,
Industrial Safety

1st
Place

Novar a Honeywell Company: Fire Detector

Integrated Fire Detector and Design Luminaire

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



Asecos: V-MOVE-90

Safety Storage Cabinet

The V-Move is the only safety storage cabinet for hazardous substances with innovative vertical drawer technology. The vertical drawer is easy to open and close at the push of a button. The double-sided access offers to overlook and reach stored containers conveniently at any time. Furthermore, the depth of 86 cm uses the previously unused space behind the only 60 cm deep conventional safety storage cabinets. The width of only 45 cm saves space for a maximum coherent



work surface. The V-Move, in accordance with DIN EN 14470-1, has a 90 minutes fire resistance, an anti-trap protection, an automatic closing system after 60 seconds and a battery puffer in the event of a power breakdown.

Prymos: Prymos Combined Fire Protection

Fire extinguishing spray and PM10 DIN EN 3 fire extinguisher

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



the new German Operational Safety Ordinance, which means that it complies with the essential standards and regulations in all its professionally designed variants.

VIDEO SECURITY

Category C

Video Security

1st
Place

Bosch: MIC IP fusion 9000i

Optical and Thermal Camera

MIC IP fusion 9000i moving cameras are designed to perform in practically any environment. These cameras have an optical and thermal imager in one rugged housing, combined with Intelligent Video Analytics. Their unique metadata fusion feature fuses metadata of the optical and thermal imager. If an alarm is detected, but not necessarily visible in the video stream being watched, an alarm is triggered anyway. The solid metal bodies of the MIC IP fusion 9000i can withstand severe weather conditions. That includes high winds, rain, fog, dust and 100% humidity (NEMA 6P and IP68), temperatures from -40 to +65, extreme vibrations (IEC60068) and high impacts (IK10). The superior metallurgy and finish of these MIC IP cameras provide unprecedented protection against corrosion (ISO 12944 C5M). Built-in starlight technology ensures highly detailed color images in extreme low-light situations. Additionally, MIC IP fusion 9000i cameras offer Intelligent Dynamic Noise Reduction and intelligent streaming, combined with H.265 video compression. This can reduce bitrate by up to 80%.



2nd
Place



Axis: P1368-E

4K Network Camera

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

Hikvision: iDS-2DF8225IH-A

Dual-Sensor Camera

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

3rd
Place



Category D

Access Control, Intruder Alarm, Perimeter Protection

1st
Place

Assa Abloy: Cliq Go

Mechatronic Access Control

Cliq Go extends the Cliq mechatronic locking and access control ecosystem to enable easy, secure cloud management from a smartphone. Managers can administer their

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



SimonsVoss: MobileKey

Keyless Access Control

With its recently developed product line MobileKey, SimonsVoss is offering the smart yet innovative access to the keyless world – on highest possible security level and at a reasonable price level with full transparency and cost control.

MobileKey's clearly defined product range is targeting SME as well as residential customers up to 20 locking devices and 100 users. How does it work? In fact it is only few steps to keyless with MobileKey: Easy installation of cylinder and wireless Pin Code keypad, self-explanatory handling, tracking and maintenance via a free of charge Web-Application. The online extension allows remote opening, Key4Friends, wireless Door Monitoring functionality and additional alarm features.



2nd
Place

Uhlmann & Zacher: CX6174

Electronic Door Fitting With Short Plate

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



3rd
Place

Category E

Safety And Security Management

1st
Place

Dom: Tapkey

Virtual Key Ring App

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



2nd
Place

Siemens Building Technologies: Siveillance Viewpoint

PSIM

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



Genetec: Mission Control

Decision Support System

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

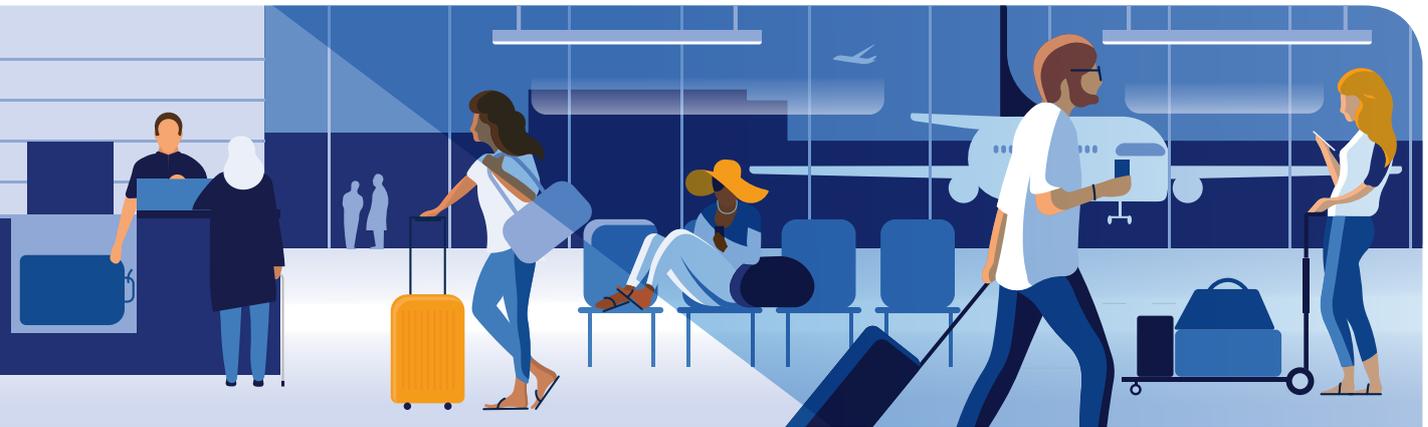
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VIDEO FIRE DETECTION

"Fire is Fire and Security is Security"

A Vision of Video Smoke Detection

Ian Moore was one of the true pioneers in the field of Video Smoke Detection. Now, he is the CEO of Fire Industry Association. Lisa Schneiderheinze, Editor of GIT SECURITY, had the opportunity to ask him about earliest and latest developments.

GIT SECURITY: Looking back when you brought Video Smoke Detection (VSD) to the market many years ago, what was the Fire Safety Situation back then? And what was the initial 'spark' to converge security equipment with fire safety products?

Ian Moore: It was in an era (mid-late 90's) of the explosion of digital signal processing, specifically towards image processing. There were numerous algorithms around to detect motion within the scene of view from a CCTV camera which rapidly became a de facto offering as an intrusion "bolt-on" through DVRs and/or smart cameras etc.; by today's standards crude, using a percentage contrast change pixel by pixel. There were even a few basic detection algorithms looking at the motion patterns of smoke but none that were much more than conceptual or laboratory run research projects. The only fire safety situation then that allowed new technology to be used was the acceptance of engineered solutions for areas that could not be suitably covered by prescriptive traditional means i.e. smoke detectors, beam detectors etc. However, designers would rarely "put their neck out" on new and uncertified products. In the world of integrated fire and security systems, this was the first product that sat firmly in the middle utilising the equipment of a CCTV security system for the purpose of fire detection.

What are the newest developments in Video Fire Detection?

Ian Moore: Technological advances in computer processing power and memory have given us more opportunities to increase the performance and usages of pretty much the same technology. Faster processing allows us to make many more calculations with the same data, higher frame rate analysis and higher resolution of camera images gives us more accurate data. IP networks and smart cameras (on-board processing) allowing decisions to be made at the camera (certainly different from the initial days of using video grabber boards in a PC using a DOS operating platform!) boosts system design options. There is often more

than smoke emitted from a fire (or potential fire). Systems that implement a range of detection such as smoke, flame, visible, heat (through infrared) audible, gases (through spectral analysis) etc. will give a wider range of detection and the potential to detect fires earlier and reduce false alarms. A self-learning algorithm could help build up a history of what to expect at certain times of day (lighting angles/intensity, how busy is the scene, processes etc.) however how this fits into standards right now is difficult to see. There are a number of quality companies around the World that work on this technology, some investing heavily for nearly 15 years. I hope that they continue to have the vision (excuse the pun) of what it can be in the future once the performance standards have been agreed and can then be an accepted main stream form of detection.

What are the main challenges when integrating video-based Fire Detection into a security, building management or alarm system?

Ian Moore: A lot of it is mind-set i.e. fire is fire and security is security. There are rightfully fears of corruption of signals, especially over IP networks and, although these can be secured, the reticence remains. Another big reason is product/system approvals which in many cases do not allow the usage in combined systems. Even though the technology has been around for over 20 years, it is still considered to be in its infancy.

What are the benefits of video-based Fire Detection in comparison to regular Fire Detectors?

Ian Moore: Without giving a sales pitch, there are plain facts to state:

- Faster detection as the camera is usually looking at the source of the fire therefore not waiting for emissions to reach a detector.
- You can use an existing CCTV system therefore costs can be reduced (plus limited or zero interruption to the site during installation).
- Visual verification of alarm. With an ever increasing requirement for the confirmation of

an alarm signal (be that fire or security), this is a key factor.

- Large area of coverage. It is not an exaggeration to state that one camera can cover the same area of coverage as dozens of point detectors leading to lower equipment costs and lower installation costs. This also works at all heights so stratification becomes less of an issue.
- Access. The cameras can be fixed in an accessible position (for installation and maintenance) and "look" into an inaccessible area. There are many examples of this.
- Complex areas where standard detection can detect as normal but will potentially false alarm due to unwanted smoke etc. Video fire detection can accept or ignore some areas that are problematic.

However for all the positives there are a number of negatives in using this technology. Here are a few facts on this particular point:

- Lighting. If your cameras are dependent on light, then it is important that the lights have back up power systems (e.g. batteries) to ensure the integrity of the system is maintained.
- Background. Should white smoke be in front of a white background (or of course black on black) then there is not much chance of the camera defining the smoke. This may (and we have had to do this previously) lead to painting the background to give strong contrast difference between the expected colour of the smoke and the background colour.
- Unsuitability for small areas (technically and commercially).
- Unproven technology for many. A designer can be questioned on the option of using video smoke detection should something go wrong.

Please read the full interview on www.GIT-SECURITY.com

CONTACT

Fire Industry Association (FIA)
Hampton, United Kingdom
www.fia.uk.com

Training Video Series

Flir Systems has announced a highly informative CBRNE (Chemical, Biological, Radiological, Nuclear, and Explosive materials) training video series - Flir Primed. Available in English, French, German and Italian, the videos are a free educational resource designed to provide first responders and security professionals with best practices for HAZMAT accidents and CBRNE attacks.



Throughout the video series, Grant Coffey, a retired fire and rescue Hazmat team coordinator and CBRNE expert of nearly 40 years, delivers best practices, industry insights and street truth. In addition, each video concludes with a field checklist that responders can use right now. The first 5 episodes are available now for viewing at the company's website (below). Episode 1 introduces the video series and the importance of CBRNE best practice using the Prepare, Recognize, Input, Monitor, Experience and Decision methodology. Episode 4 focuses on Explosives 101. Explosives are one of the weapons of choice for terrorists. They are easy to make and easy to trigger. This episode discusses the key actions and considerations at an explosive scene. Episode 5 discusses biological agents whose effects are usually delayed and can spread like wildfire. This episode covers appropriate personal protective equipment and what actions to take at a suspected biological threat scene. Every 2 months, 5 new videos will be available describing best practices, industry insights and real-life experiences. Each episode will be accompanied by a field checklist or downloadable guide.

www.flir.com

RFID-based Asset Management System

Morse Watchmans has expanded its portfolio of key and asset control products and technologies with the newly available RFID-based AssetWatcher System. Featured this week at ASIS 2017, AssetWatcher's RFID technology uses non-contact wireless radio links to recognize and track tagged assets placed in or removed from lockers. It is compatible with multiple types of RFID tags as well as different types of assets, and features an audible confirmation when a tag has been read. "AssetWatcher with RFID takes asset control to a new level and new direction previously unseen in the industry," said Fernando Pires, VP of Sales and Marketing, Morse Watchmans. "It's been uniquely designed to allow the user to store and track RFID tagged assets without the complications often seen in RFID tracking solutions." AssetWatcher can track multiple items within a locker and can track all types of tagged assets, including electronics and metal objects. Featuring the same reliable and easy-to-use interface as the company's popular KeyWatcher Touch, AssetWatcher includes a bright 7" touchscreen and incorporates the state-of-the-art optical fingerprint reader to ensure only authorized users have access to specific assets.



www.morsewatchmans.com



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VIDEO FIRE DETECTION

Light is faster than Smoke

New Standards for Video-based Fire Detection

The limitations of conventional smoke and flame detection technologies quickly become apparent in demanding and harsh environments. In such cases, video-based technologies can be used to guarantee safe and prompt detection with a minimal false alarm rate. Now, there is a new ISO specification on Video Fire Detectors.

As a general rule, smoke detection is regarded as a reliable option for prompt detection of fire, since smoke is usually generated before flames can be seen. However, conventional smoke detectors, such as point detectors and linear smoke detectors, but also other special detection technologies, are not designed to trigger an alarm until this smoke reaches them, which presents a challenge in large buildings with high ceilings, such as warehouses, terminals, hangars or generator halls. It can also be problematic to detect smoke in harsh environments with a number of disturbance variables, where it is often difficult to obtain the appropriate balance between sensitivity and immunity to false alarms.

Video-based fire detection detects smoke and flames without delay

Bosch's video-based Aviotec IP starlight 8000 technology now offers a solution for demanding and harsh environments of this nature, which avoids many of the problems associated with conventional fire detection systems and makes it possible to detect flames and smoke promptly, even in unfavourable conditions, while virtually excluding false alarms. Furthermore, video-based fire detection is frequently the best option available in environments for which there has not been any solution whatsoever available to date. In some circumstances, this technology can even offer the po-

tential to obtain insurance cover for environments that were previously uninsurable, such as sawmills.

The video-based flame and smoke detection system is based upon algorithms in an intelligent camera, which are able to use the physical characteristics of smoke and flames to identify a fire right at its source. This not only makes Aviotec prompt, it also means that it is virtually immune to false alarms. Intelligent video analysis within the sensor makes it possible to detect disturbance values such as movement, reflections or changes in lighting conditions, and to take steps to compensate for them.

Bosch's core competences include video surveillance technology and the development of intelligent algorithms for visual analysis, as well as for fire detection. This means that fire-specific characteristics can be precisely detected and clearly distinguished from possible sources of interference. This expertise has led to the development of specific algorithms, permitting reliable fire detection within a matter of seconds. Examples of proven flame indicators are the orange-yellow colour spectrum as well as its characteristic flickering, and for smoke its typical movement, shape and dispersion. Algorithms as a basis particularly offer the option for continuous improvement and constantly increasing precision. On the other hand, the limitations of comparable technologies, which are based upon feeding in images for visual assessment, soon become apparent.

The Benefits of Video Fire Detection

One of the major benefits of video-based fire detection is its speed. Since video-based fire detectors can detect a fire as soon as the smoke enters their field of vision, and thus do not require the smoke to migrate to the sensor, they can be significantly faster than point, linear or aspiration smoke detectors.

In order to detect smoke quickly and efficiently, Aviotec algorithms use a physical smoke model to recognize smoke rising directly from the source. This model is based upon the shape assumed by smoke as it rises and dilutes as well as its characteristic movement pattern, among other information. The algorithms are able to make a reliable distinction between smoke and moving objects. They detect smoke obscuration levels as low as 30 percent, whereas most video-based solutions require levels of 50-65 percent. Since Aviotec is dependent upon the movement of smoke, the incipient fire must be within the camera's field of vision. The solution is not designed to detect environmental smoke, since there are conventional technologies available to provide reliable and prompt detection in those cases.

As Reliable as Smoke Detection

Just as smoke detection is used in a physical smoke model, flame detection uses a physical flame model, based upon factors such as flame



Using video-based Aviotec IP starlight 8000 to detect flames and smoke is not just prompt and safe; it also enables a full visualisation of the scene in real time

colour, flicker and shape. The flame characteristics of various fires have been comprehensively analysed, which means that the flame detection provided by intelligent video analysis is just as reliable as the smoke detection.

Using video to detect flames and smoke is not just prompt and safe; it also enables a full visualisation of the scene in real time, providing the operator with valuable time to fight the fire.

Another of the major benefits of Aviotec is that the algorithms used to detect smoke and flames are fully integrated into the camera, eliminating the need for any further analysis equipment. Once it has been installed, Aviotec IP starlight 8000 can also be used for automated surveillance tasks. The solution identifies unusual movements as well as blocked passageways or emergency exits and thus improves a site's security, safety and cost-effectiveness. In warehouses, Aviotec can also help to prevent theft and arson; the latter being the second most common cause of fires in warehouses.

Aviotec can be scaled up from an individual detector to a networked system with a central management system. The solution can transmit alarms to a central fire detection panel or system, a monitoring centre or even to a mobile device by means of Ethernet. The ability to view video images in HD quality in real time on the way to a fire can help emergency services personnel to obtain a good understanding of the situation even before they reach the site.

At present, technical personnel must still verify alarms from Aviotec before an external alarm is transmitted to emergency services. This is standard practice for the industry, primarily to prevent false alarms in complex environments. The live camera

image provides a very straightforward method to carry out verification. Direct external alarms from video-based fire detection can only be realised on the basis of corresponding standards.

Video and Certification

The new ISO/TS 7240-29:2017 is the first international specification for video fire detection. According to ISO it includes specified requirements, test methods and performance criteria for video fire detectors that operate in the visible spectrum. ISO has published this technical specification, but it is not binding and many experts consider it to be incomplete. North America has progressed one stage further: there, video-based fire detection can be certified in accordance with FM3232 and UL268B. EN 54 still does not include any standards governing video-based fire detection, also because they usually follow ISO specifications. The VdS (German Insurance Association), the harmonized body for EN-54 certifications, has developed a demanding test procedure for Aviotec starlight 8000, incorporating the established VdS 2203 guidelines, "Requirements of fire protection software" and the "Specifications for the testing of flame detectors", and it has been certified under the reference G217090. This serves to underline the quality of the product, since it has complied with the VdS's stringent testing requirements for safe and speedy detection of test fires. Aviotec IP starlight 8000 is therefore the first system worldwide to hold a VdS certification as an "automatic video camera for visual monitoring of fires, which is used for the purpose of visually verifying fire events". The VdS quality mark is a significant investment criterion for most safety experts in Eu-

rope. This is because the VdS's comprehensive testing regime provides clear evidence of the reliability of fire protection systems designed to save lives in the worst-case scenario.

"As usual, our comprehensive tests not only cover the effectiveness and reliability of the Aviotec IP starlight 8000 product, but they also check long-term functional reliability, confirmed among other things by a function test following sulphur dioxide corrosion," explains Philipp Mondrik, laboratory engineer at VdS's fire detection system laboratories and project manager for the Aviotec tests. "In addition, functional reliability was tested under severe environmental conditions, such as increased heat, cold, moisture or the mechanical impacts typically occurring under operational conditions. Like our colleagues from intrusion, we have placed a particular emphasis upon avoiding false alarms."

"Generally, our tests have demonstrated, that video-based fire detection can even enable "earliest possible detection" under ideal conditions. According to Mondrik, "the Aviotec IP starlight 8000 detected genuine incipient fires long before conventional optical smoke detectors installed on the ceiling, since smoke does not have to reach the detectors first; instead, it is visually detected right at the source of the fire."

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FIRE PROTECTION

A Fine Brew

A Siemens fire protection system has been installed at Switzerland's Feldschlösschen Brewery

Brewing beer is an energy-intensive business – and the risk of fire is correspondingly high. To ensure the availability of its production facilities, the Feldschlösschen company of Switzerland selected a fire safety solution from Siemens Building Technologies. The Sinteso fire protection system ensures point-precise fire detection and real-time alarms with high immunity to deception.

With its 1,200 employees, Feldschlösschen is the leading brewery and the largest beverage wholesaler in Switzerland. Its headquarters, located in Rheinfelden in the Canton of Aargau, is one of the most beautiful breweries in the world. Founded in 1876, the neo-gothic castle-like complex comprises a dozen buildings that were built over time to accommodate increasing production. The Feldschlösschen brand of beer has a long tradition in Switzerland. The production environment in the historic brewery makes fire protection extremely complex. Heat, smoke and dust occur in the large halls with ceiling heights of 5 to 7 meters, requiring fire detection systems with special, application-specific detectors. "Of all the risks here in the brewery, fire is the greatest. Preventing fires is our top priority, not only to protect our employees and infrastructure, but also to avoid interruptions to operations," states brew master Bruno Born. And with a nod to tradition, he adds: "This place existed before we were born, so preserving it is our greatest obligation – for today, tomorrow and the next 140 years."

Detection techniques that deliver good results in standard environments such as offices and hotels would not be appropriate in the rough conditions at the Feldschlösschen brewery. The complexity involved in modernizing the fire protection system led the beverage manufacturer to Siemens again. First, the fire safety concept was revised to accommodate the new technology. All the stakeholders – the installer, the brewery's own fire de-

partment, a fire expert, the insurance company and Siemens – sat down together to analyze and plan.

Powerful Peripheral Network

Because of the heterogeneous production environment, Siemens proposed a network of Sinteso control panels. They offer comprehensive networking functionality and have a modular, flexible system architecture. The local units can be expanded endlessly, making future expansions to the Rheinfelden production facility easy to integrate. Today, not only is the brewery tied into the system architecture, but also an associated vintage car museum with valuable vehicles and a horse stable.

At the field level, the fire protection system uses powerful Sinteso detectors. But even the latest generation of fire detectors is only as efficient as the communication network that ties the periphery to the main control panel. Should dust accumulate during receiving, storage and grinding of the Feldschlösschen malt and – in spite of all the precautionary measures – an explosion erupt, the FD net peripheral network especially developed for the Sinteso fire detectors guarantees high transmission reliability and fast communication with the fire control panel.

It is simultaneously connected to the brewery's own fire department as well as the command and control center of the Rheinfelden fire department. Siemens automatic gas extinguishing systems protect operational assets. The Feldschlösschen fire detectors needed to be sufficiently sensitive to a broad

range of possible fires, a fact that was given due consideration in the selection process. Even powerful point detectors can detect a fire only if the particles to be analyzed reach the sensors in sufficient quantities. With above-average ceiling heights, this isn't necessarily a given. Furthermore, maintaining the detectors is more difficult in such an environment. Aspirating smoke detectors could have been the solution, but they were not the right visual fit for the historic Feldschlösschen building. For this reason, multiple linear smoke detectors were installed above the massive copper kettles in the brewing house, which dates back to 1909. Linear detectors work using the extinction principle. They send infrared light to a reflector, even over long distances. The reflector returns the light and a sensor monitors the beam of light for smoke particles.

Parameter-Based Detection

Smoke, dust, steam, heat, temperature fluctuations: fire detectors are confronted with many disturbances in an industrial production environment. A false alarm, however, has serious consequences: the fire department is alerted automatically, and everyone in the building must be evacuated. Fire control devices interrupt production, turn machines off and stop elevators at defined locations.

To reliably exclude deceptive phenomena, Siemens has developed special solutions for the specific behavior requirements of the detectors. Thousands of reproducible fire experiments and tests with disturbance variables are the basis for the



Linear smoke detectors were installed above the massive copper kettles in the brewing house

patented ASA technology (Advanced Signal Analysis). It enables reliable, deception-proof fire detection even under the most difficult conditions. With the help of algorithms, the Sinteso S-Line detectors break down the signals captured by the sensors into mathematical components and compare them with programmed specifications. The detectors then supply the corresponding danger signals.

Besides offering reliable detection of disturbances, ASA technology also features real-time situation assessment. The selected ASA parameter set is dynamically adapted so the detector responds more sensitively to fire, and in the case of deceptive phenomena, is more robust. The result is precise fire detection with high immunity to false alarms.

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The Wagner solutions make use of all available technologies, depending entirely on the individual requirements

FIRE DETECTION

Protect People, Safeguard Valuables

Wagner Complete Fire Detection and Extinguishing Solutions

Minimum cause – maximum effect: as lunchtime draws to an end, the employees of a production company leave the break room and return to their workstations. Meanwhile, in the kitchenette, a plastic chopping board on an accidentally left-on hob sets alight. Thanks to the fire detection system installed, the mishap is quickly resolved: the fire brigade arrives without delay and can quickly find and extinguish the fire.

If, however, there were no fire detection unit (FDU) in the scenario described, the fire would most probably only be detected once the flames had already started to rage uncontrollably. On arrival, the fire brigade's first task would be to find the fire source – taking up valuable time during which the fire would continue to spread, increasing the amount of damage. The Wagner Group has the expertise to directly control extinguishing systems with its fire detection units. It is also certified by VdS Schadenverhütung GmbH, a wholly-owned subsidiary of the German Insurance Association (GDV). The VdS seal of approval has an excellent reputation in expert circles and among decision-makers.

An FDU is a central part of system-based fire protection. It receives incidents from several fire detectors, evaluates them and then responds to them. Its duties include detecting incipient fires as early as possible, notifying the body that will

provide help (e.g. the fire brigade), warning people who are in the building, triggering fire protection devices as well as enabling the fire brigade to access the building and quickly locate the fire source. The decisive advantage of an FDU lies in the rapid automatic fire detection. Whereas fires in unoccupied, non-monitored buildings are often only discovered after several hours, the FDU detects fires at a very early stage. A comparison can be made with airbags, which have long been a standard feature in cars: they cannot prevent accidents, but they can effectively mitigate their consequences.

At the Heart

The fire panel (FDCP) forms the heart of the system. It evaluates the incoming detector signals and transmits the alarms and control commands in line with a predetermined program. In the event

of an alarm, the FDCP also alerts the fire brigade and unlocks the fire brigade key depot. It can also be used to manage alarm devices (such as sirens, signal lamps or emergency exit controls), fire doors and hatches, smoke and heat vents, air conditioning units and lifts as well as automatic extinguishing systems. The FDCP also has a redundant power supply design comprising not only the onsite energy grid, but also an emergency power supply. The size of this is selected in accordance with DIN VDE 0833-2.

FDUs are primarily installed in buildings subject to particularly high fire risks, such as airports, universities, company buildings, factories and hospitals. The obligation to install an FDU connected to the fire brigade is regulated under building law within the scope of special building regulations. When planning FDUs, the stipulations of DIN 14675 must always be observed. Systems required



© Wagner

Volker Flügel, Sales Engineer at the Stuttgart office, designs and develops fire detection systems for Wagner Group customers

for insurance reasons must meet the requirements established by VdS 2095.

"The Wagner Group has decades of experience as a certified FDU installer and is therefore able to offer its customers tailor-made solutions", says Markus Kock, Head of Systems Engineering Germany, Austria, Switzerland at Wagner. The systems that are used depend entirely on the individual requirements. Over the years, the company has al-

ready realized some extremely complex FDUs, for instance for hotels and airports.

The integration of air sampling smoke detectors enables sensitive, active fire detection with minimal risk of false alarms. "If desired, we will also integrate suitable systems for active fire prevention, fire extinguishing and risk management so as to provide all-round protection", says Kock. After all, the company offers fire protection solutions from a

single source – from air sampling smoke detectors to fire detector control panels and more.

Refitting for Future Requirements

As a company with a network of branch offices with their own sales, installation and service teams, the Wagner Group also regularly services and modernizes fire detection systems. Meeting both DIN 14675 and DIN VDE 08331, fire detection systems must be serviced by trained specialists on a quarterly basis. Checks are also made during these services as to whether the surrounding conditions have changed. When replacing an FDU, it is also advisable to choose a provider that is an international system manufacturer with its own R&D department – one that can offer everything from a single source, from design through project planning and setup to servicing, and that can modernize systems to make them suitable for the future. "The last point on that list is particularly important as the permanent effectiveness and operational reliability of fire detection systems is only ensured if systems are regularly inspected, maintained and serviced", explains Kock.

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Security Products

Compact Four-Channel NVR

Idis, the South Korean surveillance manufacturer, has launched its latest network video recorder, the DR-1204P, which packs an array of essential and easy-to-use features. It supports up to 5MP high definition (HD) recording and one month's footage retention and utilizes an intelligent codec delivering significant savings on bandwidth and storage, particularly when used with motion adaptive transmission (MAT) in areas where there is little or no motion and out of hours. In addition, the company's Direct IP solutions reduce the burden of implementation and training time, while ensuring lower maintenance and energy costs and an extended product lifecycle. The new 4-channel NVR also comes with totally cost-free video management software (VMS), IDIS Center and mobile apps, meaning absolutely zero licensing costs without any ongoing service or maintenance fees, ensuring the IDIS signature low total cost of ownership. The DR-1204P has a truly compact and sleek design and features super smooth and intuitive monitoring with a variety of indoor and outdoor cameras to cover a range of applications.



www.idisglobal.com

Cert Alarm Now Accepted in Austria

Cert Alarm, an organization offering a pan-European quality mark in the fire protection and security systems industry, is now recognized as an accepted partner according to the requirements set up by VSÖ, the Association of Austrian Security Enterprises. VSÖ approved products guarantee compliance with all applicable EN standards and national directives in Austria. General Secretary of VSÖ, Thomas Forstner, said, "Our partners are all renowned and accredited certification bodies and test laboratories. Furthermore, the Cert Alarm scheme is a type 5 scheme, which combines factory inspection, quality management review, product testing and ongoing surveillance. This more than fulfills our requirements and made it easy for us to add Cert Alarm to our list of trusted partners".

www.certalarm.org

New Recorder Series

Instead of 12 models, the new G-Scope+ recorder series consists now of 5 different recorder models in the latest Geutebrueck design. This slimming down of the recorder portfolio makes it easy for the user to select the perfect device for specific requirements. All five recorder models have the latest generation of motherboards and processors as well as the Windows 10 IoT Enterprise Embedded or Windows Server 2016 operating systems. With this development of the recorder portfolio a noticeable increase in the performance for processing video images has been achieved. GPU acceleration in 64-bit architecture and the fulfillment of the most stringent data privacy requirements (privacy masking, manipulation-proof database architecture, watermark etc.), are retained.

www.geutebrueck.com



COVER STORY

Campus Security

With high traffic and rapid resident turnover, SMARTair access control has the flexibility to secure student accommodation

Given the choice, would you rather run security at a bank vault or at student halls of residence? At least the bank job is straightforward: keep the money inside, and everyone else out. If only protecting hundreds of young people was so easy.

Student accommodation blocks are usually large, with high traffic moving from bedrooms to common areas, canteens and libraries. A single resident travelling between her room, a study area, the gym and a couple of trips offsite would use secure doors 15 times a day. In a residence housing just 200 students, that's 3,000 daily events for the access system to handle.

Rapid student turnover puts a further administration burden on facility managers. Imagine, among hundreds of students living at the halls, just a handful leave or arrive each semester. That's a couple of manual key handovers to schedule every week, and to chase up if a key-holder fails to appear. If keys are not handed in, is a room really secure for its next occupant? And how can you know if one has been copied? With physical keys and mechanical locks, security lacks flexibility and it's impossible to get a site overview without a time-wasting manual key audit.

Student Security Expectations

Mechanical security is not the answer, because mechanical locks don't offer the control or flexibility that managers need. There's no real-time monitoring,

and you can't generate detailed audit trails for locks or users, meaning there's no easy way to track unauthorised access – in cases of a theft, for example.

The current crop of students – so-called 'Generation Z' – were raised as digital natives. They expect convenience as a standard feature, not a mechanical solution first used in Ancient Egypt. In Europe's increasingly international, marketed higher education system, attracting these tech-savvy students and keeping them satisfied with the campus experience are critical.

The SMARTair wireless access system is built to meet the challenges of securing a student residence. The combination of wireless door devices, locker locks and wall readers put accommodation managers in total control. The product and software robustness handle many users, high traffic and fast resident turnover. A student's life is made easier with cards, rather than keys and the system secures more than just doors, and includes cabinet locks and devices to protect secure areas such as car parks. It is also easy to upgrade in the future, both by adding new doors and also by upgrading the functionality of the devices already installed. The system can handle additional student services, like the vending machines and canteen, on the same credential card as the room door lock.

A wireless access control system like this solves administration problems through a combination of control and cost-effectiveness. It is based on battery-powered locks and is easy to retrofit wirelessly to existing premises or incorporate in a new build. Installers simply swap the existing mechanical lock for a wireless device and link the door to the management software.

Any Door Will Do

Slim, robust SMARTair devices can secure almost any opening. Escutcheons (with an optional keypad for added security) are ideal for student bedrooms, and fit wood or glass, emergency exits and even fire doors. Available with or without PIN entry, the system’s wall readers can filter lift, main door or car park access. For storing belongings, cabinet and locker locks are configurable in the same system without the need for an extra module.

Students come and go using programmable smart cards, tags, or even the system’s secure mobile app – not a cumbersome, easy-to-lose key. The devices support all major RFID technologies so students only need carry one credential to open their door and access additional onsite services. A single card to unlock their room, secure their belongings inside a locker, enter the library, pay for photocopying and buy lunch makes sense for them. And because Smart Air devices run on standard batteries, the system is also cost-effective for accommodation providers.

Already Trusted

The system manufactured by Assa Abloy is already making life easier for student residence managers all over Europe, including at Mezzino’s Rialto Court in the UK. Rialto Court is a block of contemporary apartments for students at Durham University and Teesside University in Middlesbrough. When management company Mezzino took ownership of the property, apartments were secured using a mechanical master-key system. But the rapid turnover of tenants, together with a need for scheduled cleaning and summer shutdown periods, meant all those keys were becoming difficult to manage.

In an initial deployment, 74 apartments were fitted with battery-powered offline escutcheons. Credentials, including cards and fobs, can be easily added or removed from the system when required. An audit trail is available from any door or user card to make sure access to every room is easily trackable. “We are so pleased with the result. We are already looking to adopt the access control system for the other student accommodation properties we manage nationwide,” says James McGrath, Mezzino’s co-owner and director.

¡Access Olé!

At Funway Academic Resort in Madrid, student rooms are locked with SMARTair escutcheons. Energy-saving wall devices inside the rooms regulate electricity use, and students have an individual safe fitted with a system cabinet lock. From a range of available online and offline installations, Funway selected SMARTair Update on Card electronic access control system. During 2017, 166 escutcheons, six wall readers and 123 e-motion cabinet locks have been installed at the site. Students and staff open all their authorised doors with the same access card: the Funway gym, study rooms, games rooms, swimming pool and changing rooms, spa and staff areas are also locked with escutcheons.

“The system meets the expectations we had and offers very easy maintenance,” says Mario Arias, Facility Manager at Funway. The bundled intuitive SMARTair TS1000 software makes day-to-day admin easier for facilities staff. Adding or deleting a user’s access rights is straightforward so security is not compromised if a student loses their card, for example. Adding new student arrivals or deleting former students from the access system is very quick.

All photos © Assa Abloy/Getty Images

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The frequent changes necessary in a student environment are easily made with the SMARTair TS1000 management software



SMARTair protects students and puts Facility Managers in control



A single programmable SMARTair card opens bedrooms, common areas and student safes

ACCESS CONTROL

STid: The French Rising Star

Standing Up to the Market Giants
the Leader on the French Market
Shows Record Growth

Having reached €10 million in sales and a growth rate of 30%, STid can look back at a phenomenal year. The company employs 50 people now, has offices in the UK, Australia, Mexico and the United States and is establishing itself outside France with strategic partnerships and cutting-edge access control solutions that are eliciting unanimous praise.



Key Player

STid is making a name for itself on the international stage by racking up prestigious clients, including the Airbus Group, Thalès Alenia Space, LVMH, Caisse d'Épargne, Algiers Airport, the Ryadh Metro, Umm Lulu refinery, ADECO, and CDBC in Abu Dhabi. "In 2017, we experienced 30% growth on a market that grew by 4.2% according to the 17th edition of the Atlas En Toute Sécurité," says Vincent Dupart, Managing Director of STid. To support this growth, STid is expanding its teams, opening up new support and sales positions to ensure that quality and service levels remain on par with the aspirations of the Managing Director.

User-friendly Innovations

By placing innovation at the heart of its strategy, the French company has worked to respond quickly on its market and to offer the

most user-friendly solutions. The manufacturer is reaping the benefits of its decision to create a department dedicated to innovation a year ago. "Our quick reaction to changes in the sector and the user experience are what make us stand out on the market," explains Vincent Dupart. Organizations may see access control as a necessary evil, but STid wanted to make identification instinctive for users by creating STid Mobile ID. "By eliminating the constraints of traditional access control, our solutions help all employees get on board with the company's security policy. Imagine no longer needing to take your telephone out of your pocket or bag to identify yourself," says Vincent Dupart. This solution where your smartphone becomes your access key is the now the most secure and acclaimed solution out there, garnering 7 awards across the world.

Shifting Away From Proprietary Technologies

One of the challenges for Chief Security Officers is to maintain as much independence as possible in managing their company's security. 72% of the time they are dependent on a third party, which complicates the ability to manage information exchanges within an organization. "Since STid's creation in 1996, it has continued to offer open solutions that enable its clients to shift away from proprietary technologies that technologically and commercially block clients," concludes Vincent Dupart.

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Vincent Dupart, Managing
Director of STid

Two Questions for Vincent Dupart, Managing Director of STid

GIT SECURITY: How are your new strategic partnerships opening up the doors to the North American market...

Vincent Dupart: STid is in a great position to penetrate the North American market with strategic partners like Genetec. Clients are looking for secure, open, user-friendly solutions and exactly these three characteristics are the key success factors which make STid solutions stand-out. It is also important to remember that our development isn't limited to the North American market. We're also making a name for ourselves on the French, UK and Australian markets.

CCI France has chosen STid as its Security consultant. What was the reason for their commitment?

Vincent Dupart: With security becoming a major issue, CCI France, France's network of Chambers of Commerce and Industry, has decided to make industrial and business security one of its priorities for 2017 and 2018. Each user and each business has increasingly specific and changing needs. Our secure solutions, the use of open technologies and our user-friendly systems convinced the 126 chambers of commerce in France and 115 abroad to choose STid as their security consultant.

NVRs With Optional Support Services

Wavestore, the British developer of open platform Video Management Software (VMS), has unveiled its WR-Series Network Video Recorders (NVRs), with optional next business day or four-hour on-site response services provided by Dell. The NVRs enable users to take advantage of VMS for installations that require up to 254 IP cameras per server. Available in 1U and 2U rack mountable options, the series come pre-installed with Version 6 embedded directly onto their highly secure Linux operating system. The series caters for mid to enterprise level applications. WR14-Series NVRs can accommodate up to 4 x 3.5" hard drives in a 1U chassis to provide up to 32TB of storage where users can typically expect 31 days continuous real-time recording from 54 Full HD cameras. Capacities go up to 4 internal and 12 x 3.5" hot swappable hard drives in a 2U chassis to provide a capacity up to 128TB with RAID and dual redundant power-supply as standard for increased fault-tolerance.



www.wavestore.com

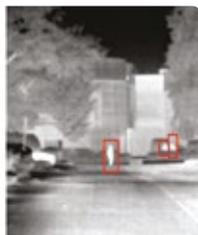
The 10 Musts of Access Control

CLIQ is a locking system for new or retro-fits that combines high-end mechanical and electronic protection. A range of key-operated cylinders maximize physical security and an extra layer of encrypted, user-friendly electronic security is added on top. Modern electronic wireless access control has the functionality and flexibility to achieve high security, if a simple checklist of 10 'musts' is covered. So is your system comprehensive, covering all doors and other openings, including basements, storage areas and the roof? Are locks certified for resistance to physical attack (e.g. anti-picking technology)? Can any compromised lock be re-keyed and/or replaced instantly? Is key tracking straightforward so you always know exactly who has keys or access permissions, and can amend those permissions quickly? Are full audit trails easy to generate, detailing who has gone where, and when? Have you minimized the number of keys in circulation, and only issue them based on need, not convenience or seniority? Can you offer fine-grained levels of access to different site users as required? Are your physical keys protected against unauthorized copying? Is remote unlocking or locking of the main door enabled if there's an emergency? Are locks and other devices discreet enough to maintain a property's appearance (castle, country house, historic theatre, church sacristy etc.)? Only genuine keys with a valid software authorization will open a CLIQ lock, eliminating any potential risks from stolen or copied keys, and administrators can immediately de-authorize a lost key or change a key's permissions, at any time and from anywhere.

www.assaabloy.com

Thermal Camera

The H4 Thermal camera line combines self-learning video analytics and thermal imaging for accurate detection in a wide range of environments. Operating beyond the visible spectrum, the camera line is designed to detect the movement of people and vehicles even in areas with poor visibility, challenging lighting conditions, absolute darkness and partly camouflaged objects. Through Avigilon self-learning video analytics, operators receive notification of detected activity that may require further investigation, helping them take decisive action when needed. The bullet-style, all-environment design is outdoor ready and well suited for a wide range of applications, including critical infrastructure, transportation and government.



www.avigilon.com

Built-in Camera Intelligence Enables Applications Beyond Security

With built-in video analytics as standard, the Autodome IP cameras from Bosch now add metadata to all captured video images. This can improve security by automatically alerting users once pre-defined alarm rules are met or for other uses beyond security. For example: enforcing traffic regulations, enforcing no-parking zones, detecting vehicles driving the wrong way and delivering garage occupancy data for more efficient parking. The cameras generate metadata to add sense and structure to the video footage, not only detecting objects but discerning size, speed, shape, direction and color. They automatically distinguish between object types such as a person, a car or a truck. The Autodome IP 5000i has a 30x optical zoom, 1080p resolution and 60 frames per second video, so fast-moving objects can be identified at up to 190 meters, even in challenging lighting conditions. Intelligent dynamic noise reduction and intelligent streaming combined with H.265 video compression reduce the data volume.

www.boschsecurity.com

Enhanced Functionality of Video Solutions

Johnson Controls' newest version of its Victor Unified Video Management Systems and Video Edge Network Video Recorders from American Dynamics provides a transformed, contemporary user interface with detection and analytics features. Version 5.0 includes number plate-recognition, perimeter detection, edge-based SD-card failover redundancy and other features. It simplifies day-to-day activities for security operators with both dark and light theme options well-suited for dimly-lit command center environments. Workflow has also been redesigned to be more intuitive and a new navigation bar and a variety of menu filters puts usability at the center. The Trickle Stor redundancy and seamless failover feature notifies if communications between the NVR and cameras are interrupted or stop. The camera automatically detects the anomaly and begins recording video to its SD card. Powerful License Plate Recognition (LPR) technology sends security operators real-time alarm notifications for arriving VIPs or when blacklisted vehicles are detected.



www.americandynamics.net

Limited Space Key Management

Traka UK has launched an intelligent key cabinet, designed to offer controlled access management for critical keys at locations where space is limited and only a few credentials need to be managed. The 'V Touch' is a secure unit with a seven-inch touch display, to accommodate up to five sets of keys. It presents full audit control capability so administrators know exactly what keys have been taken, and by whom, together with the ability to instantly access usage reports. The product is recommended as part of a networked solution using the manufacturer's own Traka Web software to enable central control of critical keys. With further features including a solid locking door, built-in power supply and full battery back-up in the event of a power failure, the unit is available with card reader or biometric access options according to customer preference and accommodation of individual site requirements.



www.traka.com

The Tapkey app can be used on Android as well as IOS devices



ACCESS CONTROL

Near To You

Partnership with Software Specialist Opens Doors and More

The German security and access solutions manufacturer DOM has established a partnership with Tapkey, the Austrian creator of smartphone-based digital access software. The combination of the hardware and the secure, cloud-based software transforms ordinary smartphones into smart digital keyrings. It brings new functionality and ease-of-use to the hardware and electronics, such as digital cylinders, padlocks and wall readers.

Joerg Braun, who manages DOM's smartphone-enabled products, explains why the company was impressed with the Tapkey platform: "It's sophisticated yet versatile. Their expertise in scalable cloud services, mobile apps and digital security made them the perfect partner for us." By integrating the technology into its products, DOM allows end-users to unlock locks by simply tapping them with practically any NFC- (near-field

communication) enabled smartphone which contains the matching Tapkey 'mobile key' app. Unlike some competing technologies, it is not 'slaved' to a particular phone number or wireless carrier and doesn't require a persistent Internet connection. Virtual 'keys' can be easily shared – or revoked – by sending a text message.

Access by Smartphone

The administration of access authorization is done via the registered app over the air. Even an available Google-ID can be used to register, with no separate registration necessary on Android devices. The Tapkey app can be used on Android as well as IOS devices. The communication between app and lock is highly secure thanks to end-to-end encryption, which becomes very important as the Smartphone and its app can be used for locks at home, at work, for mail boxes, for car sharing,

hotel rooms, garage spaces or, for example, to activate an alarm system.

Recognized

The complete solution has been recognized by the Plus X Awards that go to innovators in the fields of technology, sport and lifestyle, judged by an international jury from 25 different industries. The Dom Tapkey was considered 'best in class'; in particular for its high quality, its design, ease of use and functionality.

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Low-Mount Wireless External Detector

Pyronix has announced the first wireless low-mounted external volumetric detector to be added to its range. The XDL12TT-WE combines the company's Enforcer two-way wireless technology with its established external detection protocols, including Dual-Vision Pet Immune, Tri-Signal Detection Logic and Gaussian Frequency Modulation (GFM), to deliver a highly dependable wireless external detector. The device is IP55 weatherproof rated and consists of two independent passive infrared (PIR) sensors and one microwave (MW) sensor in one common housing. This triple technology identifies the presence of an intruder, whereby all three sensors must be activated sequentially in quick succession to create an alarm. This heightens the detector's immunity to false alarms and ensures optimum detection performance in external conditions. These external detection protocols then benefit from the advantages of Enforcer two-way wireless technology, with full supervision, anti-jamming and 128-bit wireless protocol encryption, to maximize reliability. www.pyronix.com



Airport Security Solutions

Security requirements at airports are extremely high and it is vital that every area is being monitored, including the airfield, hangars, car parks, terminal and access roads, runways, the apron and the perimeter. Therefore the Airport Operators Association (AOA) and ITN Productions have launched 'Airport Matters 2017', a news and current affairs-style program that explores the challenges, procedures and future of security matters in aviation and at airports. This program features special reports about airport security and explains why and how monitoring our airspace becomes more and more important in order to protect travelers, their belongings (e.g. parked cars and baggage) as well as the airport employees. Dallmeier offers a range of flexible solutions for multi-area surveillance and the Panomera multifocal sensor technology in operation at Bristol Airport is showcased in the program. This provides a comprehensive overview of all activity around the airport and airfield. In conjunction with intelligent video analysis and management systems, the monitoring of all landside and airside areas contributes significantly to the overall safety and security of visitors and passengers as well as maintaining smooth operations across the airport. Proactive video monitoring is enabled by the company's video information systems, instead of just passive surveillance. The program can be seen at: <https://youtu.be/qRHPlzGC788>

www.dallmeier.com



Optex: New version of outdoor intrusion detector VX Shield

Sensor manufacturer Optex Europe has launched an enhanced version of its best-selling sensor across Europe, the VX Shield (VXS), with a new housing design and features that make it even easier to install. The outdoor intrusion detector, which provides 12m x 90-degree detection coverage, now includes a rotation lock to make it easier to open/close the cover. Sensor adjustment Components are also identified in blue, to make it obvious which parts allow you to manipulate the sensor detection area, this makes the sensor easier to adjust. A spirit level has also been incorporated, and an automatic walk test mode starts upon closing the cover. The new VX Shield has four models: two PIRs (VXS_AM and VXS-RAM) and two dual-tech (VXS-DAM and VXS-DRAM), available as hardwired or wireless models. All are equipped with digitally-enhanced signal recognition logic, Super Multidimensional Analysis (SMDA). By analysing detection patterns and environmental information, SMDA improves immunity against changes in temperature or moving trees and vegetation, and can distinguish between the cause of nuisance false alarms and genuine intrusions. www.optex-europe.com



Improved Access Control, Subsystems, Audits and Encryption

Bosch has updated its Building Integration System (BIS) software to Version 4.5. The latest BIS features access control that is easier to use, more flexible and even more secure, the integration of new or updated Bosch video surveillance, fire alarm and public address systems and auditing of configuration changes. The system can communicate with and control more Bosch subsystems than before. New additions include alarm video plugins for the latest Bosch and Onvif cameras as well as Divar network and hybrid recorders, smoke and fire detection in Aviotec cameras as well as monitoring and management of calls on the company's Paviro Public Address System. BIS is well-equipped to monitor and manage, from a central control room, a building or a complex or a full network of stations across a public transport system. It also improves handling of changing and remote workforces and in generating an audit trail to comply with internal or external regulations. www.boschsecurity.com



Access Control Equipment Radio Compliant

Johnson Controls can confirm that their range of CEM Systems access control hardware is compliant with the European Union's new Radio Equipment Directive (RED) 2014/53/EU, which came into full effect on 13 June 2017. The company's intelligent card readers including the CEM S610 (iCLASS SE, DESFire and Prox) reader, CEM S700 reader, CEM emerald reader and their biometric equivalents are all RED compliant and continue to be available for distribution within the EU. In the age of the Internet of Things, more and more devices are transmitting and receiving data and, in effect, are behaving like radio equipment. It is important that radio products are "RED" compliant to ensure the visibility of devices entering the market and to ensure that they do not present an interference risk to other electrical devices or a health and safety risk. The Spass reader and CEM S3040 portable reader are also confirmed as being RED compliant. www.cemsys.com

Pelco's Advanced Video Technology at APS Show

At this year's APS Show, Pelco by Schneider Electric is demonstrating their approach to meaningful innovation, showcasing a wide range of video management systems and cameras. At the lead is the recent launch of VideoXpert Professional, the intuitive VMS, offering enterprise features at a mid-market price. Also being featured are the company's Optera Panoramic Multi-Sensor Cameras that are integrated with one of the industry's leading VMS providers to deliver panoramic HD imaging that surrounds you. Additionally, attendees can get a first-hand look at Spectra Enhanced PTZ Cameras, setting a benchmark in HD, Sarix Enhanced IP Cameras, the right choice when nothing but the best will do and Evolution Stainless Steel Cameras, which makes wide-area surveillance affordable. www.pelco.com

LED Upgrade for Projection Cubes

The lifetime of existing video wall systems can be extended by the simple and cost-efficient replacement of the projector by LED technology from eyevis. The universal design fits all cubes – from eyevis and other vendors – and reduces operational costs, power consumption, heat and noise. Geometry adjustment is achieved through the pixel-accurate native display or via the integrated image processing. The upgrade is applicable for all resolutions up to Full-HD and any screen ratio. www.eyevis.de



ACCESS CONTROL

Right on Target

Locking System Supports Event Logistics and Ensures Reliable Fall-back Option

Right from its opening Elbphilharmonie, the new Hamburg landmark, has exceeded all expectations on public perception, visitor frequency and room utilisation alike. For the operators of the Elbphilharmonie, it was therefore a great relief to see that the access control solution conceived on the drawing board turned out to work in actual practice right from the start. For this, the locking system experts from CES can claim the credit.

The figures speak for themselves: Every day, up to 16,000 people visit the observation deck of the Elbphilharmonie, the Plaza, which at a height of 37 m separates the distinctive brick base from the light glassy superstructure and allows a 360° view of the port and the city on the river Elbe. Also on a record-breaking scale are the more than 2,500 culture enthusiasts who fill the concert halls every evening. With its architecture, its fit-out, its acoustics and last but not least its location, the Elbphilharmonie is a Gesamtkunstwerk, a synthesis of the arts, that captivates everyone.

Yet, the constantly high volume of visitors and the tight event schedule also pose particular challenges for the logistics and the security management. 'The first months after the opening were a running-in period for our operations. Every event – be it the G20 concert, a pop concert or the award of the Echo Klassik for classical music – is also a first for us as regards the engineering and the logistics', explains Dennis Just, already since 2013 technical manager of the Elbphilharmonie and the Laeiszhalle concert hall. The trained technician lighting and stage manager is even more

delighted that the complex locking concept with a multitude of groups and overlaps has been realised virtually one to one.

Map the Reality with Pinpoint Accuracy

Dennis Just still remembers well the many locking plan meetings during which the demands on the locking hierarchy were defined – resulting in an extensive list of requirements that was simply too big for any software to manage. But not for the system analysts from CES, who translated the specifications into a detailed locking plan matrix for the overall building complex, which not only accommodates concert halls but also a multi-storey car park, an administration and building services wing, a plaza open to everyone and a hotel and catering section.

In view of this complexity, the challenge was to create meaningful functional units, for instance for the security, facility management and cleaning staff or the artists, each with their own access rights. The concert part alone comprises more than 500 rooms, plus goods lifts, inspection openings, security gates and passages to other building

wings. The required allocation of a huge number of keys and cylinders to the various functional units and areas of use was developed more or less on the drawing board but worked out just fine in actual practice. That was 'right on target', as Dennis Just is pleased to note, a view that is shared by Tino Konnertz, Managing Director of Konntec Sicherheitssysteme GmbH, Mönchengladbach, the trade contractor responsible for the implementation of the locking system on site. Konnertz adds: 'What is more, with the CES DU key section series, one of the highest quality key systems currently available in the marketplace was selected. Although the locking system is very complex, the master keys and group keys are extremely robust and hence perfectly suited for very frequent use.'

Permanently Open State possible with Mechanical Key

The CES locking system had also passed its field test in the interaction with the electronic access control and emergency exit control systems. Facility technicians can also use their respective area key to operate the key switches integrated in the



Dennis Just, technical manager of the Elbphilharmonie, and Sylvia Lambach, CES Corporate Communications Manager, inspecting the new CES locking system



The key switches integrated in the emergency exit control terminal permit switching the door to permanently open state

emergency exit terminals and thus control connecting doors and goods lifts as required. Normally, access is cleared via a transponder card – but with this, access is enabled only for a short time. Should the live doors remain open for a longer period, e.g. for the transport of a larger object, this will immediately trigger an alarm in the alarm management system of the control centre. But in the concert hall operation, complex transport operations are part of the daily routine.

Dennis Just: 'Most of the guest orchestras bring their own musical instruments, so every evening, hundreds of instruments must be moved to the concert hall and back. For that, speed and efficiency are a must'. To meet these requirements, the doors and lifts can be switched to permanently open state with a mechanical CES key and cylinder. This combination of electronic access control and mechanical key operation also offers added security and safety in the management of visitor flows through the escape stairways from the car park towards the concert hall and in the opposite direction. So if the electronics should fail, the seventeen facility technicians around Dennis Just always have a fall-back.

Fall-back for smooth concert operation

Imagine: The concert hall is full to the last seat, everybody is waiting in anticipation for the first cadences of the orchestra but the control room is not accessible because of an electronics failure. In order to ensure a reliable operation also in situations such as these, the safety and security regime provides for another basic fall-back, especially for the concert hall areas. All over the concert hall section, from the Kaispeicher with the "World of Instruments" in the basement up to the 20th floor, key safes are provided in a decentralised arrangement. The idea: With a lower-order key, a higher-order key can be removed in an electronically controlled way so that if need be, access to central building areas can be made possible. Dennis Just explains how it works: 'At the key safe, an electronic reader is installed. The user identifies her- or himself at the reader by means of a combination key. If authentication is successful, this will "enable" the area key deposited in the key safe which can then be removed using the mechanical key. The lower-order key remains in the safe as a kind of deposit or pledge'.

These key safes, which are unique in this form, as well as the software and a tailored toothed gear mechanism were especially developed and realised by the electronics experts of CES. Just like the emergency exit control units, the key safes are linked with the central alarm management system which is permanently manned and documents every removal and return of the area keys. In case of an attempted manipulation, the system promptly triggers an alarm and sends a sabotage message. For Dennis Just this is an 'all-round safe solution'. Thanks to this redundant access control approach, the technical manager can focus on his other tasks and ensure that the concertgoers fully get their money's worth.

All Photos © Claudia Höhne

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The locking system for the Elbphilharmonie

The mechanical locking system of the Elbphilharmonie comprises more than 2,500 door cylinders. These were designed and manufactured for the DU key section series which offers a high level of protection against unauthorised duplication thanks to a double undercut. This locking system protects the heart of the Elbphilharmonie, the concert area, but the CES locking cylinders are also fitted in the restaurant, the luxury hotel, the car park and on the publicly accessible plaza. Thanks to its extremely wide variety, the DU key section is especially suitable for a nearly one-to-one implementation of the requirements of a complex locking system such as this one. As a standard, the locking cylinders are made of brass. In order to obtain the specified stainless steel look, the metal was satin nickel plated and brushed.



The key safes, among other locations also installed in the lift lobbies (here in a surface-mounted version), allow an electronically secured removal of the key and provide a reliable fall-back

PERIMETER PROTECTION

Perimeter Protection Options

Guard your Perimeters Wisely

Perimeter protection has always been an important subject in military applications and later was further developed in the civilian sector to become an important part of security systems. The GIT SECURITY team explains different options on how safeguard perimeters and also informs about the latest solutions.



While military applications have limited the innovation for more affordable perimeter protection, growing threats to homeland security have launched a lot of innovative products to protect critical infrastructure and properties. The solutions include physical barriers, cameras, radar systems, microwave and radio wave fences and biometric scanning systems.

Radar Technology

When it comes to radar, **Axis** for example just added network radar technology to its product portfolio. The area detection technology ignores many common triggers that result in false alarms, and has been designed for easy installation and integration with existing systems. Their new Axis D2050-VE Network Radar Detector is used for accurate and reliable area detection of moving objects in a variety of light and weather conditions. It is a good complement to cameras with video motion detection and can be used to track moving objects with PTZ cameras. Radar also allows for a wide area to be covered whilst thermal cameras are more suitable for long perimeter protection.

Developed primarily for medium-sized industrial installations, the product is designed to integrate with Axis cameras and video management systems (VMS) – in addition to surveillance systems and VMS from other major vendors.

Magos' Scepter perimeter security radar, for example, brings advanced radar technology to the security market. The Scepter (SR-1000) is Magos' long range addition to their advanced and cost effective perimeter protection detection solutions for both rural and more saturated environments, without compromising detection performance. By utilizing state of the art Mimo & Digital beam forming technology it covers an area of more than 500,000m² (>120 acres) with a detection range of up to 1000m for walker/vehicle/boat and even drones at up to 250m, and yet consumes extremely low power (<5W). It boasts an ultra-high range accuracy giving it excellent performance in cluttered environments. Magos' radars detect at all weather and light conditions and their Mass control software automatically cues Onvif compliant PTZ cameras to the detections according to target profile. All events are logged in the VMS allowing

the user to utilize the VMS capabilities-Mobile device operation, video debriefing etc.

In case you want to integrate a security system into your radar system, **Flir** could be an option to consider. The Flir systems easily integrate with third party systems including drones and radar systems. The Cameleon Tactical advanced camera control system is designed to provide security and surveillance applications in a highly customizable and user-friendly environment. The strength of Cameleon Tactical lies in its ability to control virtually any number and combination of analog and IP devices from different manufacturers with point and click simplicity.

Sensor Technologies for Perimeter Selection

Each sensor technology has advantages and disadvantages depending on the environment and the situation at the location and a whole set of factors must be taken into account when designing a system. There needs to be a good balance between a system being sensitive enough to detect intrusion and to avoid nuisance alarms.

Video Motion Detection

Video Motion Detection enables you to use cameras or thermal cameras to provide both, intrusion detection capability and the option to observe intruders once they are detected. When linked to a recorder, the video system also provides documentation of an intrusion event and the intruder. Advanced perimeter protection solutions often are based on a combination of thermal cameras and optical cameras with built-in video analytics software. The advantage of thermal cameras is that they can detect intruders in complete darkness and provide automatic alerts when an object enters a pre-defined area. The advantage of video motion detection is that it can give alarm before an intrusion happens and leaves time for verification.

With very good thermal sensitivity technology, **IndigoVision's** BX Thermal Bullet Camera could be a solution for dark, long range monitoring applications. With a VOx uncooled thermal sensor and athermalized focus free lens, the BX Thermal Bullet Camera provides an all-in-one intelligence-driven solution for extreme outdoor and indoor thermal security. High thermal sensitivity (<40mK) captures more image details and accurate temperature measurements over long distances,

providing endless installation possibilities. Combined with powerful, built-in intelligent video and thermal analytics which can detect a maximum, minimum or temperature difference, alerting users when an abnormality is detected. Especially for perimeter detection and long range monitoring.

Infrared Detection Systems

Passive infrared sensors detect energy generated by external sources, particularly the thermal energy emitted by people in the far-infrared range. Active infrared sensors generate a beam of modulated infrared energy and react to a change in the modulation of the frequency, or an interruption in the received energy when an intruder passes through the area protected by the beam. Advanced systems combine digital bi-directional IR beams and microwave technology within one unit. These are well suited for high risk areas located in critical environments where conventional technologies fail to grant continuous proper operation.

Dahua has created a comprehensive solution to tackle the challenges of border surveillance. For example, take a 100km section of essentially unlit, wild border terrain. A thermal dome camera (TPC-SD8320) with 30x zoom can be installed every

1km. It can quickly detect objects using thermal imaging and then confirm threats using visible light images. In this way, night monitoring difficulties can be completely overcome with infrared light.

IR cameras are a key component of any video security system that has to provide around-the-clock monitoring capabilities, and the Dallmeier line of advanced IR cameras is ideally suited for that task. The latest addition to the company's IR product line, the DF5400HD-DN/IR, is an Ultra HD camera with integrated IR illumination. It is designed specifically for applications requiring images with high resolution in real-time during daytime and in IR mode at night. For example: Dimly lit areas on the apron or sections along the airport perimeter, which might only be lit when lighting systems are triggered by movement, are among the many possible applications.

Microwave Systems

Microwave perimeter intrusion detection systems work by analyzing changes in the received signal between a transmitter and a receiver. Early systems have suffered from an inability to discriminate between a human target and false alarm events caused by animals, weather and the movement of

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PERIMETER PROTECTION SYSTEMS

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trees and foliage, but modern systems have dramatically reduced false alarm rates.

Sensor manufacturer **Optex Europe** has an outdoor intrusion detector, which provides 12m x 90-degree detection coverage. It includes a rotation lock to make it easier to open/close the cover. Sensor adjustment Components are also identified in blue, to make it obvious which parts allow you to manipulate the sensor detection area, this makes the sensor easier to adjust. A spirit level has also been incorporated, and an automatic walk test mode starts upon closing the cover.

The VX Shield outdoor sensors feature active IR anti-masking which detects objects covering or blocking the lens when monitoring the detector status. The dual-technology VXS-DAM (wired model) and VXS-RDAM (battery operated model) have an integrated algorithm of both PIR and Microwave that provide Digital Triple layer detection, this means the upper and lower PIR detection areas and MW detection area must be simultaneously crossed to generate an alarm. The DAM and RDAM models provide particularly high false alarm immu-

nity in scenarios where strong sunlight or high ambient temperature can be a problem: they bring the ultimate stability in detection performance

Physical Barriers Plus Perimeter Intrusion Detection Systems

Comprehensive perimeter protection can only be created by a combination of mechanical and electronic components. Depending on the type of perimeter, this should include exterior protection with fences, crash bollards or other barriers, vehicle sluices with quick folding gates or a barrier/sliding gate combination if necessary, entrance and access control systems for pedestrians as well as additional video monitoring.

When it comes to barriers, GIT SECURITY wants to show you two companies which specialized in the field of fences and crash bollards:

The Expanded Metal Company for example offers the ExMesh range fencing systems and security products which are designed to protect people, property and infrastructure from a broad array of threats. The range, which provides ad-

ditional security for walls, ceilings and partitions, comprises ExMesh Securilath SR1, a lightweight option, ExMesh Securilath SR2, a heavyweight option, and ExMesh Securilath SR3, a double skinned option.

Perimeter Protection Group on the other hand offers different movable or fixed crash bollards for sites. Pedestrians may enter unhindered, but vehicle traffic is to be stopped. All bollards feature robust construction with heavy gauge material and high tensile steel. Due to their modern design the crash bollards can be used in inner city surroundings for city security as well as for securing the perimeter of large properties.

Sicurit is another well-known producer and distributor for perimeter protection solutions, especially in Italy. Perhaps the most familiar Sicurit product are the dual tech barriers that combine digital bi-directional IR beams and microwave technology within one unit. These are well suited for high risk areas located in critical environments where conventional technologies fail to grant continuous proper operation. ■

Security Products

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

Security VMS Central Management System

Dahua Technology has announced DSS Pro, its Windows-based video management system. Utilizing a modular design, the product is a powerful central management system with high flexibility, advanced scalability and high reliability. Using Client Server(C/S) architecture, it enables the flexible deployment of multiple modules. Users enjoy instant, around-the-clock access to video surveillance, and have the choice of a viewing interface that best suits their needs. GPU decoding and multi-screen support allows the simultaneous display of multiple types of content. DSS Web Client offers convenient access from any Internet-enabled PC browser. DSS Mobile enables users to view feeds from up to 4 cameras simultaneously. It also supports remote playback of recorded footage from selected cameras and control of PTZ cameras. Supporting standard ONVIF, the DSS SDK for 3rd party VSS integration supports Windows, IOS, and Android. www.dahuasecurity.com



Thermal Bullet Camera

Indigo Vision have announced their BX Thermal Bullet Camera, a solution for dark, long range monitoring applications. With a Vox uncooled thermal sensor and athermalized focus-free lens, the camera provides an all-in-one intelligence-driven solution for extreme outdoor and indoor thermal security. High thermal sensitivity (<40mK) captures more image details and accurate temperature measurements over long distances, from perimeter detection to process or machinery monitoring. The high thermal sensitivity of <40mK delivers accurate temperature measurements over long distances of between -40°C and +550°C/-40°F to 1022°F as well as hot tracing and fire warning. Analytics functions include motion, tripwire, intrusion and abandoned object detection. The camera is IP67 rated, vandal resistant and suitable for internal/external installations. www.indigovision.com

IP Access Control Reader

Kentix, a manufacturer of professional Smart Building security products, has launched an IP wall reader with integrated PoE splitter. This adds a tethered version to the radio-integrated elements of the Kentix Door Lock access control system. It integrates smoothly into the existing portfolio and therefore both types of access control solutions can now be easily combined. It comes with a 13.56MHz RFID multi-card-reader as well as an illuminated touch-pin-pad, enabling a two-factor-authentication if required. The IP Wall Reader is available as a Starter Set with a network relay module or as a single extension reader. The network relay module is only 45x45mm in size and forms the central unit with network connection. It is simply assembled in an outlet socket on the interior and is supplied with power via PoE. Administration takes place via the integrated web server; no additional external software is required. The relay module communicates with the IP wall reader via an encoded bus connection (up to 1000m in length). www.kentix.com

University Security

Replacing mechanical locks with Aperio battery-powered devices ensures all locks integrate seamlessly with the access control and security systems from over 100 different manufacturers. The electronic locks are wireless, easy to install and manage, and cost-effective to run. Crucially, they add all the functionality that university facilities managers need to stop unauthorized access, cost-efficiently and without an exponential increase in key management hassle. Wireless access control eliminates the security risk posed by a lost key. Rather than the expensive and laborious task of replacing a lock, administrators simply de-authorize a lost credential to reinstate the campus' secure status. It takes just a few seconds of system admin to issue or revoke any smart-card's access rights. www.assaabloy.co.uk



Allianz Arena

PERIMETER PROTECTION

Play On!

PPG Secures the Allianz Arena with Crash Bollards

The security requirements for public facilities are growing rapidly. This is especially true of prominent football stadiums, such as the Allianz Arena in Munich. High visitor numbers, worldwide media presence, but also stringent requirements for structural security require particularly effective, holistic perimeter protection concepts.

The Allianz Arena on the outskirts of Munich, Germany has a total of 75,000 seats at Bundesliga games. The outer protection of a stadium must be designed in such a way as to ensure preventive securing, regulating and controlling of huge passenger and vehicle flows in and around the stadium. Among others, this is to avoid panic, turmoil or overflowing of the stadium and to ensure quick and smooth evacuation, for example in case of fire. But threats are changing. The ever more aggressive terrorism attacks on people gathering for events with the violent use of vehicles forms an additional risk factor.

So in April this year, the Perimeter Protection Germany, the German subsidiary of the globally active Perimeter Protection Group (PPG) was com-

missioned by the Allianz Arena to implement the perimeter protection concept of the stadium. The aim was to effectively secure the north and south side of the property against terrorist attacks using vehicles such as trucks. The west and east sides are protected by a highway and buildings from such attacks. The whole project should be realized by the end of July 2017. PPG has earned a good reputation from former high-security projects, for example for the Jewish Community in the center of Munich.

Now you see it

Together with the engineering office BPR Dr. Ing. Schäpertöns Consult in Munich, PPG implemented the solution that consists of a mix of 70 fixed and movable M30 crash bollards, which the company manufactures in Germany. The bollard systems, certified to international standards PAS 68, ASTM and IWA 14-1, stop vehicles with different impact velocities, according to their classification. Perimeter Protection Group offers different

movable or fixed crash bollards, depending on the security requirements. They have fast operating times and shallow foundations so pedestrians may enter unhindered but vehicular traffic is stopped.

Ready-to-install bollard units with a separate control box allow quick and easy installation in all climate zones. When lowered, these can be easily driven over – in conformance with bridge class SLW 60 – without hindering the necessary operational vehicle traffic, for example for service work. Nevertheless, they effectively block areas with longer access routes, even against heavy vehicles such as trucks, by raising out of the ground in seconds in case of emergency.

Alfons Trapp, PPG Sales Bavaria, summarizes, "Thanks to the professional cooperation of all involved, the project was completed smoothly and on time. The implemented solution is not only secure, but also visually emphasizes the aesthetic character of this architectural masterpiece."



◀ PPG bollards reliably stop vehicles in their tracks

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ARTIFICIAL INTELLIGENCE

Intelligence on the Edge

Hikvision to make "AI Cloud" debut



Mr. Hu Yangzhong,
CEO of Hikvision

Hikvision's 'AI Cloud' establishes a distributed structure incorporating Cloud Computing and Edge Computing. It extends the Artificial Intelligence (AI) algorithm from the cloud to an edge network of on-premises video recorders and servers, and further to edge devices like the security cameras. The three-layer architecture all supports the goal to build a new class of AI-powered applications, being even smarter and faster.

Hikvision held an Artificial Intelligence forum in Shenzhen, China on 28 October, one day before the CPSE trade show kicked off. The forum had the theme of "AI, beyond innovation" in keeping with the company's continued commitment to technology advancement. Accordingly, Hikvision introduced AI Cloud, what they consider to be the next level of AI technology development, and its comprehensive implementation in a variety of vertical applications.

Cloud computing is an information technology (IT) paradigm. It allows users with various computing capabilities to store and process data either in a privately-owned cloud or on a third-party server located in a data center. However, with the computing business becoming more and more versatile and complicated, the demand for data processing performance is even higher. In the process of data transition to the cloud, cloud computing consumes tremendous network resources and time, which all result in network congestion and low reliability.

Coming Down from the Cloud

Mr. Hu Yangzhong, CEO of Hikvision, who addressed the forum, pointed out the irresistible trend of engineering AI algorithms into edge devices, and making the edge more intelligent. The

Hikvision 'AI Cloud' structure was then introduced, which enables the AI algorithm from edge to cloud, distributing the overall pressure that the large amount of data places on the center.

"Edge computing uses local computing to enable analytics at the source of the data. Powered by AI technology, it strengthens the sensing capability of front-end cameras and helps us to understand the captured scene more effectively and accurately. With AI algorithms woven into the edge devices, only selected information such as an individual or a vehicle in a video image will be extracted and sent, which significantly enhances the transition efficiency and reduces the network bandwidth, while still sustaining high quality and accuracy. Edge computing will also accelerate more efficient business responses, creating immediate action and event alerts", Hu commented. Hikvision AI Cloud was developed to solve real world challenges existing in different vertical markets, and to create continuous value to end users.

Learning By Doing

Artificial Intelligence is the most trending technology in the security industry and the company has gained over a decade of experience in this field. It has invested in video intelligence technology since

2006, when its first algorithm team was established. In 2013, the company started to implement Deep Learning technology, and in 2016 its full range of Deep Learning products were introduced to the security industry.

Hikvision has taken this technology and innovated a family of products to maximize its use. The Deep-in-View IP camera range and the Deep-in-Mind NVR range work together to provide all the power and benefits of Deep Learning. While the cameras provide the smart 'eyes' of the system, the NVR represents the analytic and storage capabilities of the brain. The products help to tackle security on two fronts – recognition, monitoring and counting of people and recognition and detection of vehicles. They use Deep Learning technology at its most effective, for its ability to classify and recognize thousands of 'features'.

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Camera Stitching into a Single Overview

BVMS 8.0 from Bosch offers stitching, GPU decoding and 64-bit functionality, which allow surveillance operators to respond faster to incidents by monitoring a greater number of video cameras concurrently. The release offers additional cost-efficiency and supports the latest 'fusion' dual-sensor technology. Stitching is one view compiled from many; the Video Stitcher seamlessly stitches multiple high-resolution cameras into a single panoramic view, allowing operators to monitor, for example, the stand in a stadium or apron at an airport, as a single camera. The user can still zoom in and out as needed, but does not need to switch back and forth from one camera to another. Additionally he or she does not need to know which camera is tracking or where a camera is located and how it is linked to the surveillance network. The user can configure the stitched view with up to 16 cameras. Improved client performance is now possible by using the decoding capacities of the GPU. In this way, multiple ultra-high resolution (UHD) videos can be displayed in parallel without consuming CPU (Central Processing Unit) power.

www.boschsecurity.com

Hand and Body Protection

Ansell introduced six new gloves offering hand protection at A+A in Düsseldorf from 17–20 October 2017. The safety solutions provide resistance and durability, while guaranteeing tactility and a high level of protection, and can be used across a broad range of industries such as automotive, chemical, life sciences and manufacturing. The Hyflex 11 series includes four gloves that are intended to reduce the risk of cuts yet still provide a balance of safety, comfort and dexterity. The disposable Microflex series provides a three-layer barrier against chemicals – acids, bases, organic solvents – and includes versions meeting EN 374 certification in Europe and Kosha in Korea. The nitrile and neoprene composite material is comfortable to wear and allows a positive grip.



ansell.prezly.com

Control Room Video Walls

In general, large-screen systems are used to collect, visualize and distribute all sorts of information to make it visible and accessible to operators in a control room and to guarantee a comprehensive overview of the situation. Large-screen systems used at a management level can also help to provide loads of information at a glance, which helps in making quick and efficient decisions. Eyevis has a range of display technologies available to best meet the specific requirements of any particular control room environment. Slim rear projection cubes, LCD or LED displays as well as omnishape projection units can all be used to build a display wall that has the right size, contrast and appealing design for the job. The company's own control units and management software look after the distribution of incoming signals and the screen layout. Designed for 24/7 operation, the display solutions are field-proven for reliability and legibility.

www.eyevis.de

Fire Panel Range on Show

Life Safety System Specialists Kentec Electronics will be highlighting their extensive Analog and Extinguishant ranges of fire control panel solutions at Intersec in Dubai. The comprehensive range of UL-listed, FM approved, Elite RS analogue addressable fire control panels, Sigma A-XT releasing panel and status units and UL-listed Sigma A-CP conventional panels find use in a demanding range of applications.

www.kentec.co.uk

The Expanded Metal Company Relaunches Robust Metal Range

Expanded metal mesh specialist The Expanded Metal Company has relaunched its ExMesh Securilath range of physical security products, in line with their Loss Prevention Certification Board certification. The ExMesh Securilath range is now available in SR1, SR2, SR3 versions, which match their accreditations under LPCB LPS 1175: Issue 7. Forming part of the Hartlepool-based company's ExMesh range of security solutions, ExMesh Securilath is designed for installation between walls, ceilings and roofs and has been developed as a discreet method to target harden the most critical of areas. The range, which provides additional security for walls, ceilings and partitions, now comprises ExMesh Securilath SR1, a lightweight option; ExMesh Securilath SR2, a heavyweight option; and ExMesh Securilath SR3, a double skinned option. At its highest certification level (SR3), ExMesh Securilath can protect against forced entry using tools such as axes, crowbars, hacksaws and cordless drills.



www.expandedmetalcompany.co.uk

Video Management Solutions First Hand

At next year's Intersec trade fair in Dubai, Seetec will be presenting video management applications for a wide range of areas and industries. The focus will be on solutions, with the Cayuga R11 product version presented to customers and partners in themed areas covering various real-life inspired user scenarios. The focus of the presentation on booth SA-A41 will be five hands-on stations that will not only showcase the video management functionalities but also demonstrate how the software becomes an essential part of security and business ecosystems. "The new trend of adding "intelligence" to the video feeds recorded and managed through our software will be visible in a dedicated area for Video Analytics as well as our Business Video Intelligence (BVI) range of products. Here, we will show how we can help our customers to link video data to business processes, for example in logistics, transportation or banking, to safeguard their processes and to make better decisions for the future.", said Andreas Conrad, Marketing Director at Seetec.

www.seetec.de

Bezel-Less LCD Video Wall

Barco has launched the Uni See. Thanks to their patented No Gap technology, the visual impact of the inter-tile gap is significantly reduced. An innovative mounting structure uses the power of gravity to perfectly and automatically align panels, and keep them in place over time. An automatic, continuous and real-time color and brightness calibration system ensures that the complete wall produces a perfectly balanced image at all times. Barco has also re-engineered the design of the panels to counter all possible variations in brightness from the center to the edges. The redesign ensures faster installation, easier servicing and higher reliability. These make it suitable for a multitude of applications, such as corporate reception areas, control rooms, experience centers, high-end meeting rooms and brand showrooms.



www.barco.com

大华发展的不竭动力

The Persistent Force
Behind Dahua's Development



Fu Liqun,
Chairman of
Dahua Technology

VIDEO SURVEILLANCE

Intelligence and the Future

Cloud, Deep Learning and Artificial Intelligence

The whole market is buzzing: Delivering smarter, artificially more intelligent solutions which are able to learn even deeper. Dahua is right on track with its motto 'Cloud Ecosystem, Smart Future' at the China Public Security Expo (CPSE 2017). Ready to meet industry demands and clients.



Dahua improves their
risk detection capability
and fire management
effectiveness

With twelve topics and the new theme 'Cloud Ecosystem, Smart Future' which represents the fusion of cloud computing, big data, artificial intelligence, deep learning and IOT, Dahua looks into the future of security. The 16th China Public Security Expo (CPSE 2017) officially opened on October 29th, 2017 in China Shenzhen Convention and Exhibition Center.

Dahua's Chairman, Fu Liqun, was happy to thank customers and partners for their support. He prompted to strengthen the partnership focusing on Artificial Intelligence and building an Industrial Ecosystem to capitalize on the emerging trend together.

The twelve theme booths were showcasing video cloud, artificial intelligence, smart city, smart transportation, multi-dimension sensing, and other topics. Dahua also brought its concept of 'smart future' to the table. They accomplished rapid solution development and technology upgrade in 2017.



Another eyecatcher at the stand was the OLED screen



Cloud and Deep Learning

Dahua video cloud and the application of AI have caught many people’s attention. Cloud technologies and services like intelligent cloud storage, multi-dimensional big data, cloud magic cube platform, traffic management cloud and cloud operation & maintenance center, continue on to shape the layout and the momentum of Dahua video ‘cloud ecosystem’. The combination of cloud computing and edge computing re-define the meaning of ‘end-to-end computing’ in the era of intelligence.

In the field of Artificial Intelligence, the new ‘Deep Sense’ series structures data servers greatly enhance the efficiency and application value of security video big data. ‘Deep Sense’ series intelligent transportation cameras also use deep learning algorithms to enhance the intelligence of data mining operations. Therefore, Face Recognition technology can be rapidly adopted in verticals such as law enforcement, transportation, and fi-

nance, which fits tightly with Dahua’s ‘Smart Future’ development strategy.

Intelligent Video Cloud Storage

Convergence is the key word when it comes to new product releases. HDCVI-IoT, based upon HDCVI 4.0 technology, integrates temperature, humidity sensors and traditional wireless alarm signal with video. Dahua Smart Thermal series products integrate the intelligent perception, intelligent identification, intelligent analysis, intelligent tracking, intelligent linkage and other intelligent functions, to create new data value. Intelligent Cloud storage is the next step, since it creates new experiences of intelligent integration in video surveillance industry, to promote the development of video Internet of things.

AI-powered Products

At the same time, newly released solutions are directed at creating video network applications for

law enforcement authorities through providing more complete and optimized solutions and services for transportation, smart city, and smart fire prevention projects. ‘Xueliang’ Safe City solutions for example achieve sharing of video sources from public safety, commercial and consumer front end video cameras, resulting in unified cloud resource management and deployment.

The Dahua Intelligent Fire Solution is based upon a networking technology and achieves fire equipment networking, real-time monitoring and unified management, to improve risk detection and fire management.

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VIDEO SURVEILLANCE

Trusted Technology

Kocaeli Metropolitan Municipality Has Chosen Hanwha Techwin Cameras

Over 1,800 video surveillance cameras supplied by Hanwha Techwin have been installed to help protect local authority and government buildings located throughout the Kocaeli Metropolitan Municipality in Turkey.

With a history that can be traced back to 1320, Kocaeli's fast expanding economy has seen it grow to become one of the ten largest municipalities in Turkey, with a population of 1.8 million people. Hanwha Techwin has worked closely over the last twelve months with 10 separate system integrators who were awarded the installation contracts for various phases of a project that has seen a large number of different models from the Hanwha Techwin range of Wisenet cameras specified. Each of the 1,800 cameras was carefully selected to ensure it was able to operate effectively and capture high quality images in its respective location, regardless of the environmental or lighting conditions.

Camera Solutions

Among the cameras that have been installed are some 300 Wisenet Lite SNO-L6083R 2 megapixel weatherproof network IR bullet cameras. As is the case with the SND dome versions, which have also been installed, these are equipped with motion detection, privacy masking zones, audio support, PoE and an SD/SDHC memory slot. They also feature LDC (Lens Distortion Correction), which compensates for the image distortion that can occur with wide angle lenses.

A Hallway View function, for the monitoring of narrow vertical areas such as corridors, is likely to be of considerable benefit within local authority and government buildings. It enables the camera to capture images with a 9:16 x 3:4 aspect ratio that works effectively in tall and narrow spaces, with the added bonus of minimizing bandwidth and video storage requirements.

H.265 Cameras

140 of the installed cameras have been selected from the company's Q series. These feature H.265



The Kocaeli Municipality has grown to 1.8 million people, with a corresponding need for effective video security measures

compression and Wise Stream, a complementary compression technology that dynamically controls encoding, balancing quality and compression according to movement in the image. When Wise Stream is combined with H.265 compression, bandwidth efficiency can be improved by up to 75% compared to current H.264 technology.

Depending on the number of cameras installed at each building. The company has also supplied either 4, 8 or 16 channel recording solutions. A total of 74 NVRs have been deployed to ensure evidence of any suspicious activity is either re-

corded for instant playback or stored for evidence purposes.

Matter of Trust

"We are proud to have been entrusted to fulfil the requirements of this prestigious video surveillance project," said Yasin Altas, Country Manager for Hanwha Techwin Europe. "We were able to demonstrate to the client that our 'We move with trust' philosophy is shared by every member of the Turkish team and this would ensure that we would always strive to offer unbeatable pre and post-sales support. The positive and generous feedback we have had from the client confirms we have kept our promises and, as a result, we are looking forward to the opportunity of being invited to supply our cameras and NVR solutions for future projects."



Among others, a mixture of L6083R 2 megapixel weatherproof dome and bullet cameras keep watch outdoors

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Compact Box Camera Series

Arecont Vision already offers the 'Made in USA' Mega Dome 4K ultra-high-definition dome camera series. The new Mega Video 4K is an extremely compact and versatile box camera series. This camera format allows several lens choices, increasing the camera's usefulness. All three lens choices are remote focus/zoom enabled, saving installation time. Protective enclosures are available with environmental protection for outdoor use that have a single pass-through IP connector. The Arecont Vision Snap stream technology that is already in over 140 other AV camera models is included with this series too. It reduces the bandwidth requirements and storage necessary, even for the demands of 4K ultra-high definition video. www.arecontvision.com



Master and Slave Tracking System for Perimeter Protection

Hikvision has launched a Master and Slave Tracking System for perimeter protection that is a combination of a fixed thermal bullet camera and a Dark Fighter speed dome in one single product. The DS-2TXx636-xx(A/P) brings the best of both worlds: the thermal camera can pick up a person, for example, in very low visibility conditions like fog, and then the speed dome can track them; without the thermal camera, a perpetrator may not be identified in low visibility, but without the speed dome element, that person could not be tracked. The thermal camera continues to monitor the entire detection area while the speed dome is tracking. In this way, further incidents can also be detected. This solution is a great benefit to perimeter security in various scenarios, including critical infrastructure, industrial settings and airports. www.hikvision.com



Strengthened Fault Tolerance

IDIS has debuted a powerful suite of features to bring critical failover capabilities and peace-of-mind to users of the company's technology. Bringing together existing, improved and new failover features, the company addresses multiple threats to crucial video surveillance operations with Critical Failover, a collection of five capabilities that strengthen the fault tolerance of CCTV infrastructure. It consists of five parts: Temporary Smart Failover, Smart Failover, Storage Redundancy, NVR Failover and Dual Power Supply. Full redundancy of every component is prohibitively expensive while manual recognition and resolution costs precious time and risks gaps in footage. The solution reduces both issues, through a multi-layered collection of capabilities spread across the devices in the infrastructure. www.idisglobal.com

On TV Too

Eyevis presented a wide selection from its range of display technologies for application in TV studios at IBC 2017, the media, entertainment and technology show, held in the Amsterdam RAI from 15-19 September. The company demonstrated different video wall technologies for studio backdrops. Direct-LED modules with narrow pixel pitches of only 1.2mm and 2.6mm from the ePANEL and eSLIM series were presented in different configurations, showing the creative possibilities of the technology and their simple maintenance concept. In combination with an eyevis Touch-LCD, a video wall featured real-time tracking solutions for live Virtual Broadcast Graphics from technology partners Glare Production and Trackmen. www.eyevis.de



PORTABLE PROTECTION

Garrett's multi-zone PD-6500i metal detector, equipped with optional caster set and 10-hour battery module, enables full mobility and rapid deployment.

Its versatile programs allow it to be used in any security environment: mass transit, sports arenas, campus security, loss prevention, courts, prisons, and more.



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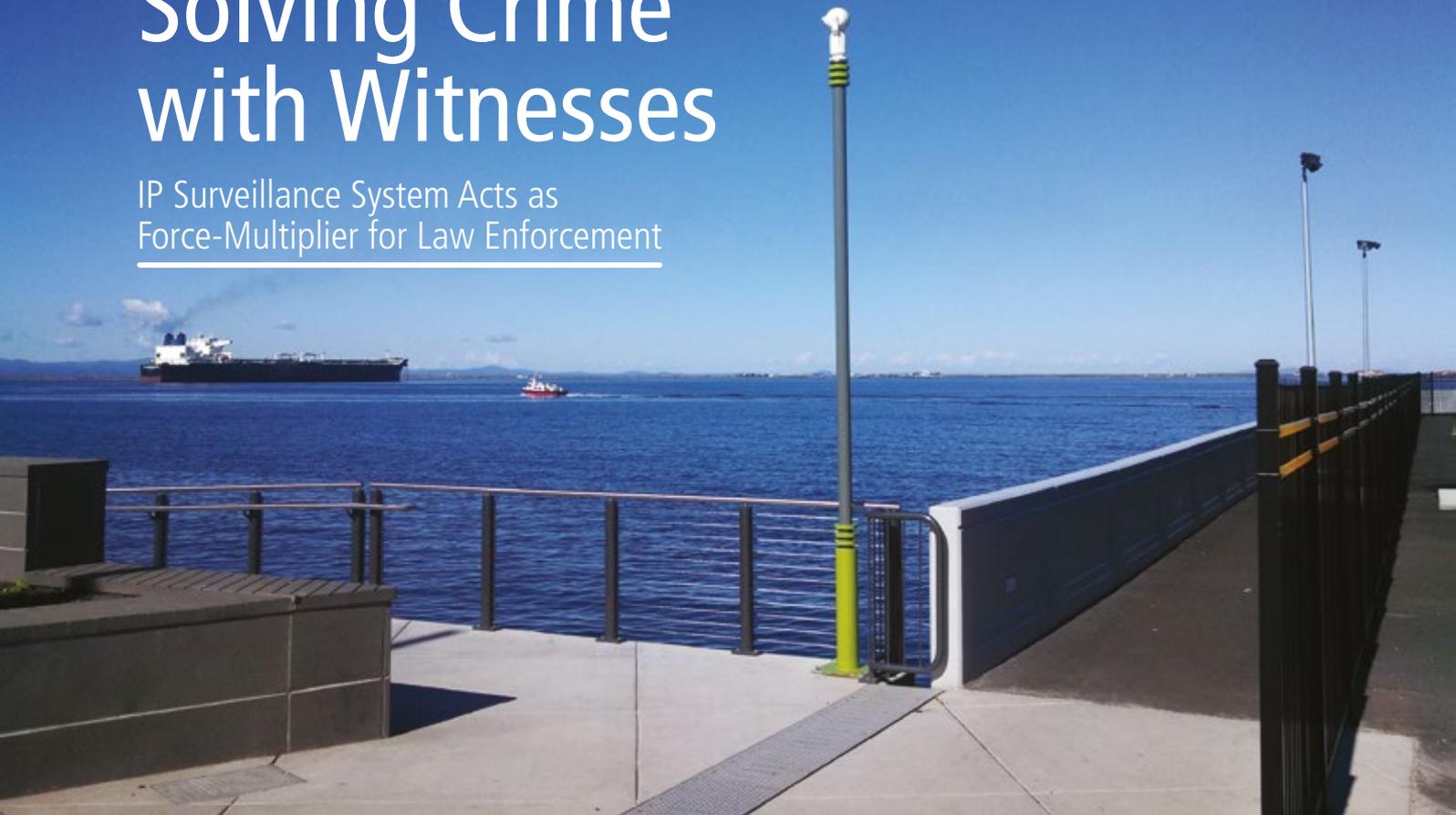


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VIDEO SURVEILLANCE

Solving Crime with Witnesses

IP Surveillance System Acts as Force-Multiplier for Law Enforcement



Crime prevention and public safety are top priorities for municipalities. However, limited staff and resources inhibit law enforcement from quickly and effectively responding to all incidents. By deploying Flir's advanced, enterprise-grade video solutions, police fleets dramatically increase their ability to monitor all city entry points and view live surveillance video from problematic locations.

Port Angeles, located on the U.S.-Canada border, is host to a thriving maritime port and a significant customs entry point into the United States. This picturesque city is located on the Olympic Peninsula in Washington, opposite Canada's stunning Vancouver Island and Victoria, British Columbia. Port Angeles is the gateway to beautiful Olympic National Park, attracting approximately three million visitors during the spring, summer and autumn months. Ferryboats travel the 90-minute route between Port Angeles and Victoria several times a day for most of the year, making the small town a popular tourist destination. The city's harbor is deep enough to provide anchorage for large vessels, such as tankers and cruise ships, making the port a busy location itself.

Security Upgrade

Video surveillance is a powerful tool to enhance border security and public safety. However, outdated video equipment can create critical security vulnerabilities. To ensure the security of the city of

Port Angeles, officials wanted to upgrade its aging analog video surveillance system to a solution that provided higher resolution images and remote video access, while remaining easily scalable over time. As the city's analog system reached end-of-life, officials also desired to improve surveillance in high-traffic areas within the city and along the coastline.

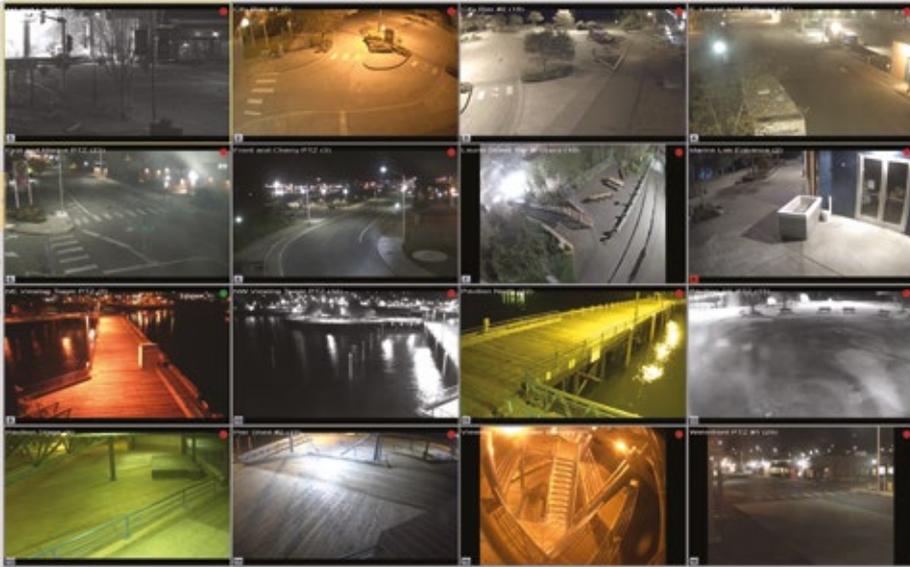
"The analog system was obviously obsolete the day they put it online," said Brian S. Smith, Deputy Chief of Police, Port Angeles. "We could only view video from one spot – in our control room."

Another goal of the upgrade was to allow police officers to stream video from any of the city's cameras to their patrol cars. This would enable faster, more effective incident response and serve as a force-multiplier and situational awareness improvement for the small department. "We needed a new approach to leverage our existing law enforcement resources to address current and emerging challenges," Smith said. "We knew that advanced video surveillance technologies could provide a quick return on investment."

Partner in Time/Partners with Experience

City officials dedicated a significant amount of time, money and manpower to acquire the technology to meet the city's new security plan. After a three-year process, Port Angeles secured a \$400,000 Homeland Security grant. Officials then asked for a security system recommendation from Last Mile who had previously designed and installed a successful security solution for the city of Seattle. Based in Longview, Washington, Last Mile manufactures Cyclone wireless network gear, resells high quality wireless network and security equipment, and provides microwave wireless and CCTV system consulting, design, and integration services. The company has been servicing cities, public entities and private industries for over 17 years.

Last Mile later met with Port Angeles staff to learn their security system specifications. Officials sought a scalable, open platform solution that uses IP for monitoring and control, and supports surveillance products from many manufacturers.



◀ **Flir Latitude Network Video Management System (NVMS) improves security system management, evidence capture and real-time response for Port Angeles police**

They also wanted to integrate a wireless mesh network, optimized for video applications in outdoor municipal and public safety deployments, to stream live video to police vehicles.

Scalable IP Video Surveillance System

Soon after, Last Mile designed, configured and programmed a comprehensive IP video surveillance solution consisting of the Flir Latitude Network Video Management System (NVMS) integrated with Bosch and Axis cameras, and a private citywide HPE/Aruba Networks wireless mesh network for public safety personnel.

Installation occurred over three months, and now the video solution has empowered police to better protect both the port and city more effectively. According to Smith, the surveillance is primarily used for forensic investigations following suspicious activities or emergencies, as well as for real-time containment of suspects and monitoring of certain areas.

“In terms of versatility and access, it’s a great tool that we didn’t have before,” Smith said. “Now, we have a system we can add to. It meets our needs and allows us to have more information for patrol, response and investigation. When you’re installing a system like this, you have to be able to show that you’re not adding to the financial burden – that you’re increasing your efficiency without creating a cost that’s beyond what you can sustain. We think this system meets that.”

Video data is recorded at seven fps and stored at the command center for 30 days for investigative purposes and to meet Washington public record laws. To simplify cabling requirements, reduce installation cost, and increase reliability, video is transmitted to a central command center via a robust fiber backbone ring network and utilizes the wireless mesh network to reach edge locations, which would otherwise be cost prohibitive to employ. The camera feeds are then captured and managed by Flir Latitude NVMS, which tracks incoming activity, provides a streamlined video interface and alerts officers to key events.

Streaming Live Video

Port Angeles officials were particularly impressed by the Flir VMS innovative mobile video push app, TruWitness, which extends video surveillance beyond the point of fixed cameras and allows real time mobile device video to be viewed and recorded as additional cameras in the Latitude NVMS system. In fact, TruWitness was a key reason why they selected Flir for the project.

“At the time, not a single company in the VMS sector was doing that,” said Keith Young, senior sales engineer at Last Mile. “The TruWitness app is what pushed Port Angeles over the top where they said, ‘we to have to have that.’”

Flir’s mobile client software additionally enables police officers to stream live video to their squad cars. Police patrols are able to use their smart devices to stream, record, analyze, review and export live video from any location, enhancing rapid response and mission critical decision-making.

“We are now able to better monitor and track suspicious vehicles and passengers unloading from the ferries,” Smith said. We are also monitoring the coastline, and can dispatch police officers to send live video from any remote location.”

Using Private Wi-Fi

The video streaming is done through either the cellular network or private wireless mesh network, and the system allows officers to move seamlessly between the two.

“We have a very unique system here that uses In-Motion router boxes, which are in our patrol cars,” Smith said. “It decides what is the best signal – Wi-Fi, 3G or 4G – and toggles back and forth [as police move throughout the city]. Most of the time, we’re streaming the mobile application through Wi-Fi.”

One of the advantages of using the private Wi-Fi is that it ensures reliable and efficient communication between law enforcement at all times. In the real world when natural disasters, riots, sport games or other large events take place, the pub-

lic are on their phones, streaming video, updating social media, making emergency phone calls, overloading the cellular networks. In those instances, police officers’ cell phones become useless and they have to rely solely on limited two-way radios. Private Wi-Fi networks eliminate this issue.

“If you have your own private wireless, you can still utilize team coordination and case management apps, photo sharing, Wi-Fi calling, and the TruWitness capability,” Young said. “When everything else goes down, law enforcement and first responders are still able to communicate at the same level.”

Additionally, the data plans required to run cameras over cell phone carrier connections can be extremely expensive. The private Wi-Fi network presents a significant cost-savings for the city.

Looking Forward

Video surveillance initiatives are a top priority for Port Angeles. The current system has proven useful on several occasions to help police solve crimes and gain insight into the city’s security posture. Additional grants will fund projects to enhance security at local parks, transportation networks and correctional facilities. The city plans to increase the number of cameras across key locales throughout the region and add video analytics to further bolster the system’s capabilities.

“We knew the success of the first phase would lead to the deployment of more cameras, so we chose a solution that could be easily and economically expanded over time,” Smith said. “Flir delivers the technology that meets our current and future needs, while providing a streamlined user experience and maximum flexibility.”

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VIDEO SURVEILLANCE

True Grit

Abus Video Surveillance Secures Production Processes in the Ellerdonk Gravel Plant



Gravel and sand play a role in many parts of everyday life: They are used in construction, in the manufacturing of glass and porcelain, and even as an additive in toothpaste, cleaning materials and cosmetics. But where does this valuable raw material come from? Processing facilities like the Ellerdonk gravel plant in Rees source and unearth stones from up to 30 metres below the surface and process them into industrially usable gravel. The Ellerdonk gravel plant relies on intelligently positioned Abus IP cameras which quickly detect disturbances and ensure consistently high product quality.

In the first step of gravel production, biological refuse like branches and mussels are removed from the stone. This is essential for the quality of the finished product. But despite being cleaned in special sieving and jiggling machines, there is always a possibility that foreign matter is between the stones. While moving the stones, the conveyor belts are monitored very closely because high product quality cannot be guaranteed if contamination is not detected promptly.

This is where the Abus video surveillance solution takes effect: "Our machines stop automatically as soon as they encounter coarse contaminants" explains Udo Wehning, manager of the Ellerdonk gravel plant. "However, it is considerably faster to detect refuse using the camera image. Visual contact is the most important measuring device" he adds. A smooth production flow is ensured by a total of 13 Abus IP tube outdoor cameras at critical production points, both indoors and outdoors. The cameras, including those hanging in underpasses and dark places in the machine halls, are

able to produce sharp images in full HD quality despite the difficult lighting conditions thanks to the night vision function.

Video Surveillance Prevents Breakdowns

In addition to quality monitoring, the cameras also quickly detect disturbances because spills can occur all too quickly in places where multiple conveyor belts merge. "Action must be taken immediately and production is stopped when spilled gravel clogs machine inputs or even works its way into the gears," says Wehning. Live transmission to an Abus 32-channel video recorder and two monitors in both the manager's office and on the loading dock allows incidents to be detected in real-time. The surveillance monitor simultaneously displays 16 image sections, all of which portray the faithfully rendered detail and colour of all relevant locations.

In addition to the production machines, the gravel plant also includes storage silos and a shipping harbour on the Rhine river. The site stretches



▲ Rubber conveyor belts are monitored to spot blockages or even fire



▲ Two Abus dome cameras mounted high up provide an overview of operations

◀ The gravel plant Ellerdonk includes production machines, storage silos and a shipping harbour

across a large area which makes it difficult to maintain an overview. However, two Abus PTZ outdoor camera domes, mounted at the highest points of the gravel plant, allow the surveillance of all relevant locations. Also, they enable the warning of employees over the loudspeaker system in case of danger. The camera domes' panning and zoom functions allow operations to be monitored in real-time. Additionally, the night vision function and tremendously robust housing enable video surveillance in challenging light and weather conditions.

Early Fire Detection

An overview of the entire gravel plant is also beneficial for early fire detection. Gravel plants are generally at a higher risk for fire as the majority of the conveyor belts and machine parts are made out of rubber, a highly combustible material. The machines also receive regular maintenance where welding machines are used. Just a few sparks are enough to set a plant on fire. This danger can be

countered with the help of video surveillance. Wehning stated: "We can best respond to fires when they are detected early. The Abus cameras help us to do this."

The video surveillance solution by Abus was installed over four weeks. Wehning turned to Peter Ising from the Phonepoint company for help with this, Wehning turned to Peter Ising from the company Phonepoint, a service provider of security systems and telecommunications in the region. The positioning of the tube cameras was determined by the plant manager himself as he knows his plant and the locations that should be under surveillance very well. He was extremely satisfied with the quick and professional installation: "The installation was hassle-free," says Wehning. "As plant manager, I hardly noticed it. That speaks volumes for the logistics of the installation."

Vibrations create challenges

The biggest challenge during the installation of the system was the powerful vibrations caused

by the heavy machinery in the gravel plant. Such vibrations usually make maintaining a constant camera image difficult. By relocating several video cameras and individually enhancing the camera mounts with additional rubber parts and steel joints, a good image result was achieved after some initial adjustments.

The best gravel quality and highest level of safety at work is now guaranteed by stable video images in real time and full HD. Udo Wehning had this to say: "After the challenges at the beginning, which are normal for a plant of this size, we have seen results and have ended up with footage that we are extremely pleased with."

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VIDEO SURVEILLANCE

Highest Image Quality and Leading Low Light Performance

Sony Offers Light-Sensitive Cameras up to 4K Resolution

In the September issue of GIT SECURITY we spoke with Michael Hirsch, Vice President for Sony Video Security at Bosch, about the partnership of Bosch and Sony to develop innovative video surveillance products and solutions for security applications. Now it is time to take a closer look at the Sony product portfolio.

Full-HD at its Best

During 2017, Sony enhanced its video security line-up with eight new Full HD sixth generation (G6-R) video security cameras. These camera models deliver on the ever increasing demand for greater image clarity within the video security market, providing cutting-edge image capture technology with minimum illumination of 0.006 lux.

The upgraded G6 cameras include high performance image sensors, lenses and image processors. Using advanced imaging technology, Sony's cameras offer security professionals clear detail and higher visibility through excellent low-light sensitivity, ideal for a wide range of demanding applications, including city, transport and commercial surveillance. They can capture images beyond the reach of conventional security cameras, help-

ing to provide security professionals with better visibility and in turn greater accuracy.

4K IP Video Solutions

Sony's latest image capture technology, including state-of-the-art 4K technology, delivers the maximum return on investment in video security and surveillance – in cities, public spaces, airports, roads and railways. The two 4K cameras SNC-VB770 and SNC-VM772R come with a full-frame 35 mm 12MP Exmor CMOS sensor that features top levels of minimum illumination of less than 0.004 lx to capture exceptionally detailed 4K/30 fps color video, even at night and in similar extreme lighting environments. The cameras are equipped with high performance lenses including premium lenses from Zeiss and Sony for the most demanding applications.

With four times the resolution of Full HD, 4K offers users accurate and detailed images for facial recognition and license plate reading, as well as low-light technology for increased situation awareness providing improved efficiency, safety and security. Sony 4K provides clear images in any environment, with increased efficiency and lower operational costs compared with conventional video security solutions.

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SECURITY FOR TRANSPORTATION

Inter Airport Europe 2017 Review

Airport Exhibition Closes With a Record Visitor Number

The 21st edition of inter airport Europe, the International Exhibition for Airport Equipment, Technology, Design & Services, ended with a record visitor number.

During the four exhibition days, a total of 13,854 trade visitors from 110 countries came to the Munich Trade Fair Centre in Germany to discover the latest trends in the airport industry and source innovative equipment and systems. This represents a 9% increase in visitor numbers compared to the previous show in 2015.

With a total of 654 exhibitors from 43 countries and a net exhibition space of 31,800m², inter airport Europe 2017 could also increase its floor space by 7% compared with the previous event and was therefore bigger than ever.

"This very successful event once more reflects the current dynamic development of the airport industry. The airport of the future provides enormous potential for suppliers of equipment, technology, services and solutions; and the digitalisation and automation offers new opportunities for airport operators. At inter airport Europe 2017, visitors were able to see for themselves that the networked airport will soon be a reality. Driverless vehicles, automated baggage handling, highly developed systems and air traffic control – all these latest developments were presented by the exhibitors at this year's show. We would like to thank all exhibitors and visitors for his highly successful edition of inter airport Europe", says Nicola Hamann, Managing Director of the organisers of inter airport Europe, Mack Brooks Exhibitions.

What was on?

A first analysis of the exhibitor feedback shows that participating companies were highly satisfied with the outcome of inter airport Europe 2017. A vast majority of exhibitors were able to reach their

target groups and they praised the high quality of trade visitors. Exhibitors also reported a large number of new business contacts and positive sales figures. Many exhibitors had presented themselves this year with even more impressive stands. They showcased an enormous variety of new products and innovative solutions, and many of these were demonstrated live at the exhibition stands. The new outdoor demonstration area was also very popular with visitors and very well received.

Exhibitors at inter airport Europe presented a comprehensive range of airport equipment, technology, design and services for the networked airport: intelligent passenger and baggage handling systems, baggage tracking and tracing, personnel planning software, tooling management, improved security systems, driverless vehicles and much more.

Exhibiting Countries

Inter airport Europe 2017 was once again a highly international event. Around 70% of the exhibitors were from outside Germany. In addition, more than 70% of visitors travelled to Munich from abroad to visit the world's leading airport exhibition. The most important exhibitor countries after Germany were France, the USA, Great Britain, the Netherlands, Italy, Denmark, China, Spain and Sweden. The most important visitor countries, besides Germany, were Italy, France, Great Britain, Russia, Austria, the USA, Sweden, the Netherlands and Turkey.

Awards and Highlights

During the opening ceremony on the first show day, five exhibiting companies received the inter airport Europe Innovation Award in the four exhi-

bition categories InterRamp, InterTerminal, InterDesign and InterData. A fifth prize was awarded in the category InterConnected, covering the recent trend in the airport industry, the interconnected airport. Award winner 2017 for the InterTerminal category is Vanderlande from the Netherlands. The award in the InterData category went to topsystem Systemhaus from Germany. Award winner 2017 for the InterRamp category is PaxLift from Italy. Zodiac Aerospace from France received the award in the category InterDesign. The fifth award in the new category InterConnected went to Dedinne Aerospace from France.

For the global active airport community, Mack Brooks Exhibitions offers a series of further inter airport events in growth regions: next year, inter airport China will take place from 5-7 September 2018 at the China International Exhibition Centre in Beijing. The next inter airport South East Asia will take place from 27 February-1 March 2019 at Singapore Expo in Singapore.

The next inter airport Europe, the 22nd International Exhibition for Airport Equipment, Technology, Design & Services, will take place from 8-11 October 2019 at the Munich Trade Fair Centre in Germany.

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SECURITY FOR RETAIL

Transparent Shopper

The Latest Developments in Retail

With the development of intelligent video analytics on cameras and NVRs, retailers can make use of data which is provided by the system. In recent years, security systems were a cost driver, but now they add value to the buying potential. The systems become a business enabler.

Retailers know that long checkout lines turn away customers, but an intelligent video system that analyzes checkout lines can help to plan staffing levels and customer service provision as well as provide a long-queue alert in real time so the store manager can redeploy staff to the registers. Both capabilities reduce the chance of customers being lost because of queues.

While in recent years the installation of security cameras was a cost factor that lowered the margins in the retail business, modern and intelligent video systems now play a significant role in business process optimization and enable new chances for retail business operators when they fight online shopping. The market is craving for new solutions. Retailers who don't utilize the possibilities of intelligent systems fall short. Some security brands are forearmed to offer solutions for the retail business. **Vanderbilt Industries** for example: Their integrated access control and video management solution ACT365 is a good example. Clients can download an app on their smartphone. In case of an early-morning delivery, the store manager can identify the courier through a live video feed and then remotely open the doors of the loading bay to allow the delivery to be made. The manager can monitor all of this remotely and once the delivery is finished, they can close the loading bay door and it will automatically rearm.

Dealing With a Lot of Data

More data leads to more material and hence more potential. Unused it is a waste of time and money. With the rapid software development, retailers have to overcome these challenges. Traditional retailers are put on the spot to give answers so they can compete in the industry. According to Nvidia,

more than half of Amazon's sales are achieved by their recommendations pages. The direct utilization of customer behavior drives more business.

Hence, getting to know the customers becomes inevitable. The best way to start here is people counting in retail stores and creating heatmaps that show the traffic in a shop during opening hours. There are a lot of video-based solutions on the market that differ in their accuracy. **Vivotek** for example offers a 3D people counting solution that is a good tool for business optimization through precise counting analytics. With accurate real-time data, users can estimate in-store traffic, enhance staff management, evaluate the effectiveness of promotions and marketing events, and more.

Hanwha Techwin approaches the retail market via their management software Smart Security Manager Enterprise and places the system at the heart of retail solutions. The software combines data from EPOS with heat mapping and people counting analytics captured with on-board Wisenet Open Platform cameras, to indicate the reasons why a store is performing better or worse than others in a chain. As well as comparing the conversion ratio of customer visits to sales, the data captured by the people counting application can assist marketing personnel evaluate the success of in-store promotions and identify busy areas of a store, by hour or day of the week.

Panasonic takes on this challenge, too. Its business analytics identifies customers on the premises and drawing from that visual information, retailers can assess their gender, their age, their approved access level or even their likelihood to buy products or services. Furthermore, they deepen their level of detail by matching gathered information with heat mapping, which monitors the

movement of individuals, groups or large crowds of people throughout the premises, looking at where customers went, how long they stayed in certain areas and where the greatest density of visitors was at any given time of day, month or year.

Their latest development is a digital signage solution. It integrates LinkRay technology, which uses LED light to transmit content to mobile devices, and turns digital signage displays, signboards and light sources into 1-2-1 marketing tools for smartphones. The signage also uses age and gender recognition to deliver targeted advertising specific to the viewer.

Talking about specific to the viewer: As an example of custom-built constructions that **Eyevis** often develops to comply with individual requirements, a so-called Mirror Display connects the characteristics of a mirror with a digital display in a unique way, and can find attention-grabbing application in retail or hotel environments. The mirror goes beyond reflecting the image of the user, it adds information into the real world which makes it an augmented reality display application.

Real-time Data

Deep learning has already begun to be beneficial in different areas. In the field of natural language processing, the Amazon tool 'Alexa' is on the market. According to Nvidia, we will soon be able to ask a robot in the shop to answer questions. Autonomous Robotics is another field of deep learning. Distribution centers will profit immensely from speeding up re-distribution to stores etc.

With the accelerated analytics, real-time data streaming uncovers patterns to predict prices and simulate forecasts based on competitive public market data. ■

SECURITY MANAGEMENT

Security Management



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Name: Ian Moore
 Position, Company: CEO of the Fire industry Association (FIA)
 Date of Birth: 2nd July 1960
 Hometown: Portsmouth, England
 Favourite homemade dish: Roast beef

1. **The natural talent I would like to be gifted with is** endless patience.
2. **Guaranteed to make me laugh is** someone slipping on ice!
3. **Three characters I would like to have dinner with (dead, alive or fictional) are:**
 - a. Dead – Leonardo da Vinci (most visionary person ever born)
 - b. Alive – Stephen Fry (most intelligent and interesting person I know)
 - c. Fictional – Sherlock Holmes (most intriguing character ever devised)
4. **I have the completely useless talent of** remembering jokes on any subject.
5. **Three things that I am most grateful for in life are** my family, my health, my good looks and my ability to count!
6. **The best decision in my career so far is** to have joined the Royal Navy at a young age.
7. **If my life was a movie, I would be portrayed by** Stan Laurel.
8. **The biggest challenge for me/my industry at the moment is** to define the level of required competency of people operating at every level in fire safety.
9. **From the first money I earned I** bought a Zenith E SLR camera.
10. **My first car was** a mini. I had to change the spark plugs every 2 weeks, top up the radiator every week, the door fell off outside a shop and bonnet blew off and hit the car behind me! Still what do you expect for £50!
11. **I had the opportunity to shake hands with** Margaret Thatcher, the Queen, Prince Charles, Prince Andrew, Lee Teng-hui (President of Taiwan at the time) plus numerous sports stars.



Off the Record

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1 Bluetooth Reader



E1196

2 Wireless Exit Device



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