

Volume 9  
January 2013

**GIT**  
EMEA Edition

# SECURITY

MAGAZINE FOR SAFETY AND SECURITY

1

16 channels FREE



Perimeter Protection

Security for Transportation

Fire Safety

GIT SECURITY AWARD

Intersec 2013

Access Control

**COVER: Siemens  
Perimeter Security Solutions for Airports**

**GIT VERLAG**



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IP Reader & Controller



Remote Applications



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**CEM SYSTEMS**

*From Tyco Security Products*

# Multi-layer Approach



Dear Reader,

We hope you had a good start in the new year. Our team wishes you the very best for 2013.

"Security is the be-all and end-all in our division", states the Managing Director responsible for one of Europe's greatest logistic hubs in Europe in the interview we did with him on page 26. Even in an industry that is very much focused on cost-effectiveness and return-on-invest like the transportation industry, it is crucial that all measures are taken to guarantee secure operations. In the interview we show how the interaction of well-trained security teams and modern technology can overcome even the toughest challenges.

The concept and security philosophy behind successful security projects is very often the multi-layer approach. Security starts with an effective perimeter protection, it needs a concept for graded access-control elements and you need security people who are well prepared to cope with complicated security scenarios. Security concepts can't rely only on technology, but without modern technology and clever management concepts it is difficult to cope with the increasing and constantly changing security demands of our modern world.

If you are coming to Intersec in Dubai you are more than welcome to visit our team there at GIT's stand. This year we will be in the Homeland Security & Policing show section at stand S2-134P.

Enjoy reading this issue!

Heiko Baumgartner  
For GIT's Safety and Security team

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20

**COVER STORY**

**The First Line of Defense in Airport Security**

Perimeter Security Solutions from Siemens



22

**SECURITY MANAGEMENT**

**900 Branches – One Holistic View of Security Situations**



26

**CORPORATION AND LOGISTICS SECURITY**

**Security at the Largest European Airfreight Hub**

Interview with the MD and Head of Security Philippe Bauer DHL Hub Leipzig at Leipzig-Halle Airport



34

**HEALTHY WORKPLACES**

**Healthy Workplaces**  
Best Work-Related Documentary Film of the Year Awarded

**EDITOR'S NOTE**

**Multi-layer Approach**

Heiko Baumgartner

**MANAGEMENT**

**GIT SECURITY AWARD 2013**

**Surprises and Serial Winners**

3

**COVER STORY**

**The First Line of Defense in Airport Security**

Perimeter Security Solutions from Siemens **20**

**SECURITY MANAGEMENT**

**900 Branches – One Holistic View of Security Situations**

13

Efficient Security Management Enables Millennium

Bank to React to Security Events Effectively **22**

**CORPORATION AND LOGISTICS SECURITY**

**Security at the Largest European Airfreight Hub**

18

Interview with the MD and Head of Security

Philippe Bauer DHL Hub Leipzig at

Leipzig-Halle Airport **26**

**Megapixel Imaging for Transportation and Perimeter Security**

Applications around the World Illustrate Performance Advantages of Higher Resolution Video **36**

**Magic in Motion**

Easy and Reliable Motion Detection

**38**

**SECURITY FOR TRANSPORTATION**

**Tunnel Security**

Addressing Lighting Challenges for Optimum Surveillance

**40**

**COMPANIES**

**Two Heads Are Better Than One**

Marco Abrahms joins the Management of deister electronic

**42**

**ACCESS CONTROL**

**A Gem from CEM**

Multi-functional Access Terminal Launched **45**

**CCTV**

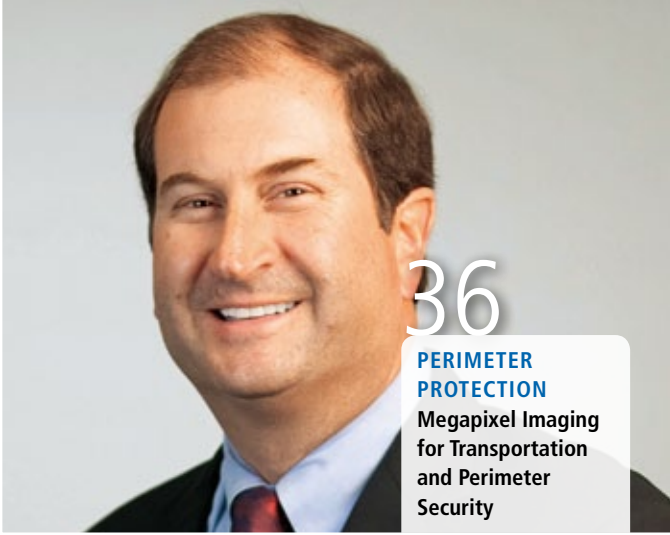
**Pew with a View**

Andria Cathedral Video Surveillance Protects Relics

**46**



# HIGH-TECH AT YOUR FINGERTIPS.



36

**PERIMETER PROTECTION**

Megapixel Imaging for Transportation and Perimeter Security



42

**COMPANIES**

Two Heads Are Better Than One  
Marco Abrahms joins the Management of deister electronic



48

**KEY MANAGEMENT**

Key Control Management in Three Easy Steps

**KEY MANAGEMENT**

Key Control Management in Three Easy Steps

**VIDEO SURVEILLANCE**

For the Record  
Grundig Extends Its NVR Range

**SECURITY ESSEN SUMMARY**

Every two years...

**FIRE PROTECTION**

**48 FIRE DETECTION**

Wireless Landmark  
Keeping London's Iconic Buildings Safe

30

**49 FIRE PROTECTION**

Move in the Right Direction  
Integration of Fire Detection and Emergency Lighting in One Solution

32

50

**SAFETY**

**HEALTHY WORKPLACES**

Healthy Workplaces  
Best Work-Related Documentary Film of the Year Awarded

34

**SECTIONS**

News..... 6

Security Products ..... 12

Fire Protection Products..... 31

BusinessPartner ..... 55

Company Index / Imprint .. Inside Back Cover



The digital SmartHandle 3062 makes doors intelligent in just a flick of the wrist. The high-tech fittings ensure that only authorised persons are allowed access, and that within exactly defined time windows.



Freely programmable, direct and virtually connectable. Thanks to the simple SnapIn installation method, the SmartHandle can be installed without any cables in just a few minutes. Extremely long-life button cells ensure up to 130,000 open and closing procedures with no worries. The fittings were even awarded the red dot design award: intelligence can so be nice to look at too!



**Kentec and Apollo Protect Semi-Submersible**



Hallin Marine's Compact Semi-Submersible (CSS) vessel Derwent, recently floated for final fit out, is being fitted with a fire safety system that uses a Kentec Syncro ASM network with Apollo Discovery Marine Detectors, designed and engineered by Singapore-based fire specialist company EPAS Fire Protection. With accommodation for up to 152 personnel, Derwent is a multi-service vessel built for complex subsea operations and work scopes that cross a wide spectrum of duties, including construction support, IRM, and light/medium well intervention. To meet the subsea Industry's stringent standards and classifications for specialized vessels, innovative fire protection

systems solutions are needed. The Derwent's fire alarm system is centered on three Kentec Syncro ASM analogue addressable panels in a network integrated to 300 Apollo Discovery Marine addressable smoke and heat detectors, supported by 80 addressable manual call points. The system is also designed to generate alarms via 60 alarm bells and 20 sounder/beacons and includes EPAS PLC based gas detection/alarm and Co<sub>2</sub> fire extinguishing systems designed, engineered, integrated, approved to ABS MODU rules and supplied by EPAS Fire Protection, who are also responsible for its testing and commissioning to ABS rules and owner's compliance.

[www.kentec.co.uk](http://www.kentec.co.uk)

**FFT Integrates with Moxa IP Cameras**



Future Fibre Technologies announced the latest camera integration to their fiber optic perimeter intrusion detection systems. This enhanced integration between FFT Cams and Moxa's IP cameras – including the latest Moxa Vport range of video surveillance products – delivers a seamless solution for controlling cameras when a perimeter intrusion alarm is received in mission-critical applications and in harsh or hostile environments. Key features of this integration include: Sending cameras to pre-

sets when an intruder is detected; Showing the live video stream; Driving the PTZ function; Powerful interfacing to a broad range of security management systems through the FFT Cam's graphical user interface including intuitive multilingual screens with true client/server configuration, GPS integration and GIS mapping; Peace of mind with FFT's global 24 month warranty, backed up by their global network of offices providing after sales support in more than 50 countries. [www.fftsecurity.com](http://www.fftsecurity.com)

**Pureactiv Integrated with Genetec Software**

Puretech's video analytics solution Pureactiv has been integrated with Genetec's video management software (VMS), Security Center. The integration allows Puretech's customers to utilize advanced features, such as real object size, real target size and real location (3D-latitude, longitude and elevation) in their detection efforts, all real-time within Security Center, a unified security platform that blends IP video surveillance, access control, and automatic number plate recognition systems. The integration means the full suite of Puretech Systems' intelligent video analytic algorithms will be actionable from

within Security Center's video surveillance system. In addition to the geospatial analytics: real object size, real cross track speed, real forward track speed and real position, the integration provides a host of zone based (wrong direction, entering zone, leaving zone, etc.) and behavioral analytics (crowding, dropped object, loitering, etc.). The integration also includes Pureactiv's learning background algorithm which reduces nuisance alarms and allows for high accuracy detection even with substantial background movement.

[www.genetec.com](http://www.genetec.com)  
[www.puretechsystems.com](http://www.puretechsystems.com)

**Indigovision Solution gets Top Grade at Farnborough College**

One of the UK's leading technology colleges, Farnborough College of Technology, has chosen Indigovision to safeguard students and premises by replacing its existing and non-integrated surveillance systems. The manufacturer was selected by the College to provide a reliable and integrated platform that would make use of existing cameras, cover multiple sites, improve performance and allow new IP cameras to be added when required. The College's existing security systems were non-compatible, and there were problems in getting support and repairs undertaken. They were also hard to navigate, setup was cumbersome and recording facilities were poor. This combination of factors undermined system effectiveness and site security across the two large campuses, which are 6 miles apart and include old and new buildings, numerous entrances and large car



parks. Panoptech, local Indigovision partner, installed the Security Management System, SMS4, which enables the integration of separate components of the security system. This allows the full solution to be managed in one place, removing the compatibility issues of the old system. Three workstations were set up using Control Center, the user interface to the system – one in the security office, one in the IT office and one in the main control room. [www.indigovision.com](http://www.indigovision.com)

**Acic Video Analytics becomes Seetec Solution Partner**

With Acic Video Analytics a new member joins the Seetec solution partner network. As strategic partners both software manufacturers have mutually embedded components into their products to complement their solution range. Acic's video analytics enables an automatic monitoring of events and generates statistical analyses by processing the image material. The open platform can smoothly be adapted to

customer's wishes and project-based requirements. The Company specializing in video analytics acts in the field of intrusion detection, perimeter protection, people counting as well as crowd and traffic management. "We are convinced that our common solution is a great enrichment for the market as well as for both of us," claims Daniel Bechler, Solution Partner Manager at Seetec. [info@seetec.eu](mailto:info@seetec.eu)



Advantage Line

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**intersec**

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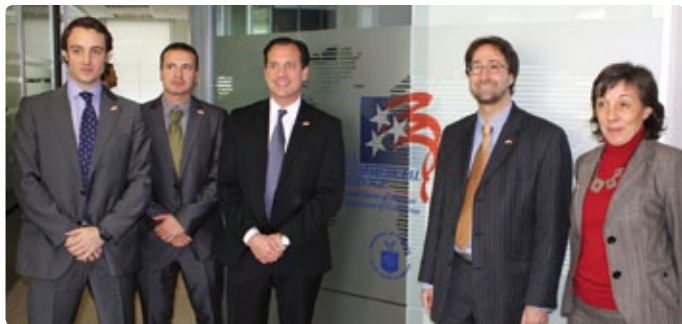
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**Alava Ingenieros Group Joins BRS Labs' Value Added Reseller Program**



Lorenzo Fernandez, Director of Business Development, Alava; Luis Coello, Director EMEA, BRS Labs; John Frazzini, President, BRS Labs; Keith Silver, Commercial Services, BRS Labs; Isabel Tarodo, General Manager, Alava (left to right)

Behavioral Recognition Systems, creator of AISight, the first artificial intelligence system for enhanced video surveillance that delivers real-time alerts for suspicious activity, announced an alliance with Alava Ingenieros Group. Alava will market AISight real-time threat recognition and response systems within Spain, Portugal, Gibraltar and Andorra. The formal signing ceremony for the agreement took place at the United States embassy in Madrid on November 13. BRS Labs is the innovator and leader in

behavioral recognition technology that teaches itself to recognize suspicious activity in real-time without human intervention or complex programming. Alava is one of Europe's leading prime contractors for safety and security solutions for government and financial services organizations. Customers include the Bank of Spain, the Madrid and Barcelona airports, the Madrid Exhibition Center, multiple transportation agencies, every police station in Catalonia and the Spanish prison system.

**Gunnebo Wins Order with Chennai Metro**

Through its Indian subsidiary Gunnebo Security Group has signed an order with Chennai Metro Corporation to supply entrance control solutions for one of its new lines. The initial order amounts to over 200,000 Euro and consists of flap-gate units to metro gates to be supplied over the coming months. The order will be produced and supplied from the Company's Chinese factory in Kunshan. "This order is of great strategic importance for Gunnebo since it establishes us as a provider of entrance control solutions to the Indian metro sec-

tor," comments President and CEO, Per Borgvall. "Over the coming two to three years we expect many important infrastructure projects to be carried out in India, including several large metro projects." The solution ordered by Chennai Metro Corporation was initially designed for the KCRC metro system in Hong Kong. Since then it has been installed in multiple high-volume, mass-transit networks in China as well as in several other countries including Singapore, Sweden, Spain and Colombia.

[www.gunnebo.com/entrancecontrol](http://www.gunnebo.com/entrancecontrol)

**Website Redesigned**

Morse Watchmans has completed a redesign of its website. The site's new design and fresh look offer expanded features and information for visitors and a streamlined experience for technology partners. It is centered on helping all customers understand the Company's range of solutions across a variety of mar-

kets including education, hospital-ity, corrections and gaming. New and richer online content including expanded product overviews, design specifications and marketing materials offers a detailed picture of the Company's portfolio.

[www.morsewatchmans.com](http://www.morsewatchmans.com)

**BSIA: Section Re-brand**

The Cash and Property Marking section of the British Security Industry Association (BSIA) has updated its identity and revitalized its strategic objectives in recognition of the growing marketplace for forensic marking products. Now known as the Asset and Property Marking Section, the group offers a forum for security firms whose products deter theft and other crimes by rendering stolen goods unmarketable through either covert or overt security marking. Security marking also enables police to catch and convict criminals,

thus creating a powerful deterrent. Forensic property marking is used to prove the origin of stolen goods by painting or labeling them with a coded solution, modeled on the principles of human DNA. The virtually indelible mixture is visible only under ultraviolet light, but when analyzed, it shows a unique profile, proving beyond doubt who owns the property. Once applied, it is not only invisible to the naked eye, but virtually impossible to remove, with even the tiniest trace sufficient for identification purposes. [info@bsia.co.uk](mailto:info@bsia.co.uk)

**Successful Transport Security Expo 2012**

Transport Security Expo has ended successfully. The two-day conference, exhibition and workshop gathering, witnessed a significant increase in delegate and visitor numbers. Well over six hundred delegates attended the Expo's three focused conferences in the maritime, aviation and public transport arenas. Conference was supported by an extensive exhibition featuring in excess of a hundred key vendors from across the globe. Delegates, exhibitors and visitors gathered additional insight from a range of knowledge centric workshops held during the two-day event. With major regulatory change planned in the aviation sector, senior figures from the Department for Transport (DfT), UK Border Agency and Center for the Protection of National Infrastructure (CPNI), debated with

industry representatives from ACI Europe, Airport Operators Association (AOA) and thinkers from across the airport and airline communities, as to how change might be implemented and the benefit it could possibility bring. Significant challenges remain across the open systems that form the public network travellers use on a daily basis. Nevertheless, delegates heard from the Department for Transport (DfT), Center for the Protection of National Infrastructure (CPNI), Transport for London (TfL), British Transport Police (BTP) and others that change is happening in this arena too, which will enhance security over coming years. Transport Security Expo hosted international delegations from Dubai, Saudi Arabia, Oman, Libya, Brazil and Morocco.

[www.transec.com](http://www.transec.com)

**IMS Research on Chinese Video Surveillance Market**

In its fifth edition report on the Chinese video surveillance market, IMS Research estimated that the market was worth 2.6 billion US-\$ in 2011, an increase of more than 30 percent over 2010. A key driver of this growth was the network security camera market. City surveillance and transportation are the largest end-user industries in China. However, as economic growth slowed in 2011, investment in city surveillance also declined. In the second half of 2011, a number of high-speed railway construction projects were stopped or delayed due to financing difficulties caused by the global financial crisis. As a

result, growth in the analog video surveillance equipment market started to slacken. Cheryl Li, report author and research analyst, comments: "Due to the increasing demand for high resolution images, network security products, especially network cameras, gained market share in 2011. In fact, network camera revenue increased 130 percent in 2011. In addition, the growth also benefited from the increasing number of participants in the market. It should be noted that competition also reduced pricing, which is an important element in the market."

[niall.jenkins@ihs.com](mailto:niall.jenkins@ihs.com)





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### Hochiki Europe: Operation in India

Hochiki Europe has announced the establishment of a new operation in India, which aims to encourage greater use of its fire detection and addressable emergency lighting systems across this country. As Europe's country manager for Indian subcontinent countries and Hong Kong, Rohit Harjani has been appointed to head up this exciting new initiative. He commented, 'Although Hochiki's products have been installed throughout India since 1978, this is the first time that we have had a dedicated office with employees directly promoting our products and systems.' As one of the world's most rapidly developing nations India continues to experience a tremendous amount of investment and almost all blue-chip multinational companies now have a presence there. This has led to a booming construction sector and



the subsequent recognition of the need to keep those that live and work in new and existing buildings safe from the dangers of fire. After applying to the Reserve Bank of India to set up a liaison office – or representative office as it is also known – permission was granted and Harjani began the process of setting up the new operation in early 2012. The office is based in the country's capital city, New Delhi. [www.hochikieurope.com](http://www.hochikieurope.com)

### International Partner Event



**BUSINESSPARTNER** At its second Primion International Partner Event, Primion welcomed 17 participants from eleven countries. One of the main topics at the three-day meeting on the Balearic island of Mallorca was a new Partner Programme. It bundles the Company's international sales activities more creatively and enables the partners to market its software and hardware more effectively in their markets, through a package of targeted, strategic measures. The partners welcomed the concept and particular recognition was given to the open and transparent communication ap-

proach that they experienced throughout the event. The programme included updates about terminals, readers and controllers as well as the pkt mechatronic solution. The psm 2200 Security Command Centre software was also featured, with a live demonstration of some of the features the solution has to offer. CEO Horst Eckenberger gave a keynote address to the partners about the strategic alignment of the company and the significance that international business will play in the future development of the company.

[info@primion.de](mailto:info@primion.de)

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### Corporate Succession Arrangement for Eyevis

Eyevis announced the signing of an ownership change agreement. The new majority shareholder will be the Frankfurt-based private equity fund Brockhaus Private Equity. The change in the ownership structure is supposed to provide the Company with a secure succession arrangement as well as first-rate prospects for further international growth. Financing for this transaction is being provided by 'Brockhaus Private Equity II', a fund specially focused on medium-sized growth companies. All current shareholders will remain closely associated with the company. In particular, Heiko Schaich, one of the two incumbent managing directors and the company's 'technological mastermind', will continue in his dual role as a shareholder and a managing director committed to securing the company's technological edge. The changes are aimed at providing the Company with an ideal succession arrangement and, in doing



Michael W. Nagel (l.) and Heiko Schaich (r.)

so, enabling the company to continue its successful growth strategy with a view to further business development and expansion. "The Eyevis succession arrangement is an outstanding achievement that gives us a perfect framework for the continuation of our long-term growth strategy. Brockhaus Private Equity is an ideal partner for us, because this fund is familiar with the culture of medium-sized firms and has already assisted numerous medium-sized technology companies in their successful bid for global expansion," says Michael Schuster, founder and outgoing CEO of Eyevis. [info@eyevis.de](mailto:info@eyevis.de)

**Online Technical Training**

Arecont Vision announced that "Arecont Vision University" now provides an online portal for reseller partner education. Responding to the demand for the Channel Partner Certification Programs (CPCP), the Company has developed an online learning center to make educational courses available on demand. The program, CPCP TEC, consists of online product training and tips to help systems integrators more easily install the manufacturer's multi-megapixel cameras. It is one component of the company's Channel

Partner Certification Program, including General certification and Advanced certification courses held regionally as one-day training sessions. Jason Schimpf, Director of Partner Relations: "Through a series of short video clips technicians can view lessons on the proper installation, configuration and servicing of our megapixel cameras. Since the courses are delivered via the web, we will continue to add new content to enable our certified partners to meet their ongoing education needs." [www.arecontvision.com](http://www.arecontvision.com)

**Hikvision Partners with Cameramanager.com**

Hikvision recently partnered with Cameramanager.com, a provider in online security surveillance. A great amount of Hikvision products including the new Alarm Pro Cube cameras and the plug & play cameras (such as the DS-2CD81XX series, DS-2CD82XX series and DS-2CD71XX series) can be directly connected into this Cameramanager.com cloud system. As such, this system benefits users and allows access to recorded video anytime – via PC, smartphone, and tablet. In this fashion, their stores, offices, or houses will always be under surveillance 24/7. Besides the fact that Cameramanager.com has expanded its services, this collaboration also

benefits Hikvision's European business expansion. "With Cameramanager.com, we found the right partner for cloud surveillance. Their strong European presence and global roll-out plan facilitates Hikvision with a plug & play cloud surveillance solution. This offers our customers the flexibility to monitor their business from anywhere and anytime," says Jiangfeng Zhi, General Manager of the Company's European offices. The partnership also allows both parties to focus on solutions for specific target groups – such as transportation, financial institution, residential, and healthcare, etc.

[www.hikvision.com](http://www.hikvision.com)

**TDSi: Mid-year Financial Results**

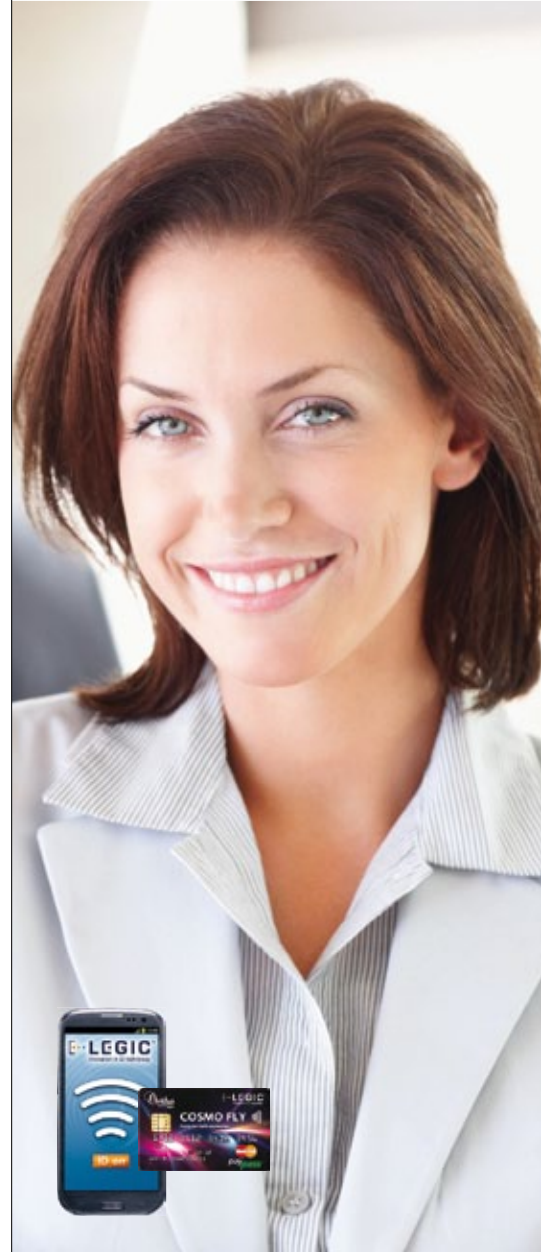
TDSi has published its results for the first half of the financial year 2012/2013, Managing Director John Davies: "We've reached the half year at 9.7% above target. This performance was delivered in the face of some unexpected challenges such as Norbain's pre-pack." The Company's aim is to build upon the positive figures to deliver a great financial year end, as John Davies concluded: "We are determined to continue in the same vein for the second half of the year. We are continuing to see increased volume from our access control portfolio both at home in the UK and overseas. Our Vugarde 2 VMS platform is beginning to attract firm orders and many projects will be invoiced in our third and fourth quarters. We're winning business and market



share and we're committed to continuing with our channel and marketing strategies, which are instrumental to the success we're generating."

[www.tdsi.co.uk](http://www.tdsi.co.uk)

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Contactless smart card technology: [www.legic.com](http://www.legic.com)



**GIT SECURITY at Intersec Dubai:**  
**Show Section**  
**Homeland Security & Policing**  
**S2 – 134P**



### 2MP HD IP Low Profile Camera

Lilin's IPD-2220ES is a 2MP/1080P HD IP internal low profile camera that compliments the Company's iMegapro II range. Equipped with a 4.3mm lens, it is capable of streaming HD video at up to 30 FPS. Measuring just 105mm in diameter, it provides a small and discreet HD IP solution. Connecting the IPD-2220ES to an IP system is simple: Connected to the NVR-116 and the installation wizard, WS Discovery, will automatically detect it. WS Discovery works to locate all IP cameras on the network and generates a snapshot image of each camera channel, helping with identification and speeding up commissioning. Every camera is shipped with free CMX central management software that offers an exceptional range of functions including EPOS connectivity and database search-



ing. CMX uses an IP scan utility that discovers all active cameras on the network. Users can then continue to view, record and manage the video recordings free. The camera incorporates Sense Up+ technology: It utilizes intelligent image signal processing, AGC control and 3D noise reduction without relying on frame integration. This combination delivers very low light image without motion blur. [www.lilin.co.uk](http://www.lilin.co.uk)

### Integrated Security Platform

Honeywell released an application-programming interface (API) for its Win-Pak integrated security platform that allows users to better integrate their access control security system with other building management and administrative systems. The Win-Pal PE API works as interface between the manufacturer's Win-Pak PE 3.0 and SE 3.0 solutions and the client's third party system making it the ideal solution for customers who require a single point of entry for their employee's data and access security levels, and who are looking for one host platform to integrate security, human resources and building automation technologies. For integrators, PE API provides an easy path to combine access control solutions into their client's existing and new building management and administrative systems. In addition, the broader Win-Pak software range has the capabilities to meet the demands of their customers regardless of the size of their business. The platform also enables support for other technology systems for the first time. Among these are biometric systems, where the API interface



enables connection between and sharing of biometric templates databases with WIN-PAK cardholder's records. Users will save time and effort by controlling and monitoring access control functions from one host platform rather than multiple individuals systems, and operators will respond faster to security events without switching between different applications. "Access control has traditionally been a brand specific business where software relates only to the hardware of the same vendor," said René von Franquemont, product manager EMEA at Honeywell Security Group. "Integrating the Win-Pak access control solution with other third party platforms allows Win-Pak to be open in this multi-brand era."

[www.honeywell.com/security/uk](http://www.honeywell.com/security/uk)

### PTZ Speed Dome

Riva's PTZ Speed Dome RC4100-2212-36 is a high-performance IP camera with H.264 compression and offers 25/30 fps@D1 resolution with 2 channel audio support. The dome is equipped with intelligent video analytics including Auto PTZ Object Tracking feature (VCAfollowIP) as a standard. Additional VCA filters – powered by VCA Technology – for individual requirements are also available. The PTZ Dome with 36x optical and 12x digital zoom controls pan/tilt speed while zooming. It contains a mechanical IR cut filter that makes it ideal for Day and Night usage. Furthermore, the PTZ dome guarantees high system accuracy and includes features as 165 pre-set positions, eight programmable



patterns and eight privacy zones. Thanks to the Stealth Spin technology, the camera is particularly silent. In combination with an outdoor housing with fan and heater inside, it is suitable for outdoor applications at operating temperatures between -40°C and +50°C. [info@rivatech.de](mailto:info@rivatech.de)

### Flat Screen Product of the Year

At this year's AV Awards, Eyvis's "Omnishapes" were selected best "Flat Screen Product of the Year". The winners in 21 categories were selected by a jury of experts. Especially in Great Britain, the AV Awards are the most prestigious award of the audio-video industry. The AV Awards ceremony took

place on 12 October at the Hilton Park Lane Hotel in London. More than 700 representatives of the AV industry visited the event. Peter Mytton-Bayley from the Company's UK office received the award.

[info@eyvis.de](mailto:info@eyvis.de)

Intersec Dubai · Hall 3 · Stand 3-727-C

### Plug-and-Play NVR



Vicon's HD Express is a fully functional Full HD network video recorder (NVR) featuring an easy 'plug-and-play' installation concept that requires no in-depth IP networking expertise. The recorder is available as a 4, 8 and 16 channel model variant and provides as a standalone system an ideal solution for smaller and medium-sized applications as often found in the retail industry or office buildings. This H.264 network recorder includes PoE ports for each camera allowing the system to provide power directly to a maximum of

16 cameras. The recorder is optimized to work seamlessly with the manufacturer's V960 and V992 High Definition 1080P cameras. The software automatically detects and configures connected network cameras eliminating the need for any time-consuming camera setup. All of the features of the camera can be configured directly through the local user interface including zoom and focus of the lens. The HDMI 1080P60 output provides high quality multi-camera display.

[birgit.hahle@vicon-security.de](mailto:birgit.hahle@vicon-security.de)

GIT SECURITY AWARD 2013

# Surprises and Serial Winners

**GIT**  
**SECURITY**  
**AWARD**  
**2013**  
**WINNER**

GIT VERLAG

Again it was a neck-and-neck race for the GIT SECURITY AWARD 2013. Only 5 x 3 products could win: Those ones the most readers were voting for - via fax, letter or online voting on [www.PRO-4-PRO.com](http://www.PRO-4-PRO.com).

Before that we introduced 50 products in last year's issues to a wide audience: to the readerships of GIT SECURITY and GIT SICHERHEIT as well as to the users of our online platforms [PRO-4-PRO.com](http://PRO-4-PRO.com), [GIT-SECURITY.com](http://GIT-SECURITY.com) and [GIT-SICHERHEIT.de](http://GIT-SICHERHEIT.de). Now many of our readers took the opportunity to vote for their favourite products in the five categories. Thanks to all participants - and congratulation to Mr Jochen Pohl from Knorr Alarm in Berlin, winner of the reader price, a brandnew Pentax camera.





## Category A

Safe Automation

WINNER



Keyence: GL-R Light Curtain

### Guarded Safety Light Curtain

The GL-R safety light curtains are rugged: The design – a 3 mm thick extruded aluminum body with a narrow, 9 mm wide recessed lens surface – completely guards the light curtain from impact. In addition new wiring systems save time and trouble by simplifying installation. So the one-line wiring system allows the transmitter to be connected in series directly to the receiver for power and synchronization purposes. This simplifies wiring to a single cable, greatly reducing installation time and the potential for mis-wiring. The GL-R Series also includes new smart features, like edge to-edge detection, series connection, built-in muting and blanking, highly visible indicators, quick disconnect cable options, and monitoring software.

## Category B

Fire and Explosion Protection, Industrial Safety

WINNER

Hekatron: IACmobile



### Fire Alarm Control Panel for Your Pocket

With IACmobile Hekatron allows the display and operation of Integral IP fire alarm systems via mobile devices. For example, all messages of the fire alarm control panel can be received. In addition, the commissioning is supported and the operator receives more information about the current state of his fire alarm control panel BMA – mobile, anytime and from anywhere in the world. Even the in-house fire safety responsible may e.g. carry out simple exploration tours much faster and more user-friendly – all with such one operating philosophy. Safe access is guaranteed to fire alarm systems via the Hekatron Security-Cloud.

## Category C

CCTV

Mobotix : S14 Flex Mount

### Flexible Double Hemispheric Camera

The camera, which is available in both mono (S14M) and dual (S14D) versions, features miniature lens units and offers a wide range of application opportunities. For instance, the S14D can be equipped with two hemispheric lens units with integrated microphone that are connected to the main housing via cables. This makes it possible to fully secure two rooms located next to or on top of one another with just one single S14. The slim design of the module units, which are available in white and black, permit an extremely discreet installation. Both module units and the separate housing with the latest dual camera board are weatherproof in accordance with IP65 and operate in a temperature range of -30 °C to +60 °C (-22 °F to +140 °F).

WINNER



2<sup>nd</sup> PLACE

## ABB Stotz-Kontakt: Eden AS-i

### A Non-contact Safety Sensor

The non-contact safety sensor Eden AS-i is now adapted for direct attachment to the AS-i bus. It is suitable for use on interlocked doors, hatches etc. and consists of two complementary parts called: Adam and Eva. The sensor is only activated, if the door or hatch is closed and Adam and Eva are within the sensing distance. A failure will directly lead to a stop signal. Each Eden sensor is individually coded which makes it secure against manipulation.

## Esser: Compact

### Compact Fire Alarm Control Centre

A new European product standard combines control of SHEV actuators such as smoke and heat vents and fire control with the fire alarm control centre in a single product. The addressable ring bus control centre is tailored to the needs of small to medium sized premises with increased requirements with regard to fail-safe capability. Automatic commissioning is performed without additional software tools. The system provides individual addressing, 72 hour battery capacity, integrated fire service interfaces and a large display. Bus communication of alarms is provided by multi-function sensors and alarm sensors.

2<sup>nd</sup> PLACE3<sup>rd</sup> PLACE2<sup>nd</sup> PLACE

## Vivotek: Panoramic PTZ

### Panoramic PTZ combination

Panoramic PTZ is an innovative technique developed by Vivotek R&D team. This technique incorporates a 3.1M fisheye camera FE8171V and a full HD speed dome camera SD8362E with 20x optical zoom, which allows users to simultaneously monitor an overview from a fisheye camera and a detailed regional view from a full HD speed dome camera. The FE8171V provides 180° panoramic view or 360° surround view without blind spots. With sophisticated mechanism, the SD8362E provides fast, precise pan/tilt/zoom movement and captures details at top-notch quality.

3<sup>rd</sup> PLACE

## Axis Communications:

### Axis P364-LVE

### Light Sensitive Vandal-Resistant Dome Camera

The light-sensitive, outdoor-ready Axis P364-LVE fixed dome camera offers exceptional image quality in H.264 and Motion JPEG. It delivers 30 fps in all resolutions up to HDTV 720p/1280x960. The camera offers exceptional light sensitivity with Axis' Lightfinder technology and uses P-Iris control for optimal sharpness. As IR illumination camera it works with long-life LED technology that is highly power-efficient. Video intelligence includes video motion detection, audio detection and active tampering alarm. It is perfectly suited for airports, city surveillance, banking, school and university campuses.



## Category D

Access Control, Intruder Alarm, Perimeter Protection

### Tyco Security Products: Intevo

#### Integrated Access Control

Intevo is an easy to deploy integrated security system. It can support web- and mobile clients, provide control for access readers and manage a camera network of up to 32 IP cameras. The interface to an intruder system is preconfigured. Intevo is preloaded with Kantech's EntraPass Corporate Edition security management software and American Dynamics' IP video recorder, giving users plug-and-play capability. With its embedded Windows 7 OS, latest generation Intel processor and solid state drive for applications, Intevo offers high performance computing technology. Intevo connectors include dual Ethernet ports, 6 USB 2.0 ports; dual display outputs for VGA, HDMI and DVI.

WINNER



## Category E

Safety and Security Management

WINNER



### Genetec: Security Center 5.1

#### Unification of Multiple Security Systems

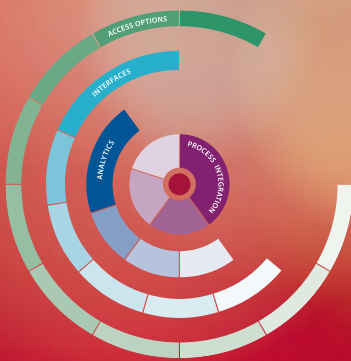
Genetec's Security Center 5.1 is a platform that includes real-time monitoring, alarm management, and event reporting in a simple and unified interface. Bringing together common functionalities of license plate recognition (LPR), video surveillance and access control, the Security Center offers a unified approach to security by merging this all into one easy-to-use platform. The platform is founded on an open and distributed architecture to make it possible for organizations to select their own hardware and optimize the use of their existing infrastructures. It equally provides the flexibility to scale from one camera/door to hundreds or thousands as their needs require.

2<sup>nd</sup> PLACE

## Gantner Electronic: WiNET

### A Network System – Wireless

WiNET, the online wireless system, consists of battery-operated cylinders and armatures as well as radio nodes and controllers. The radio nodes are connected to the RS-485 interface and establish the connection to the cylinders and armatures over a distance of up to 40 m. The administration of the credentials is performed on the PC. There is no need for writing stations or handhelds or walking to the doors. The radio network is used for the transmission of access credentials, door opening commands, and system information return messages.

2<sup>nd</sup> PLACE

## SeeTec: Multi Solution Platform

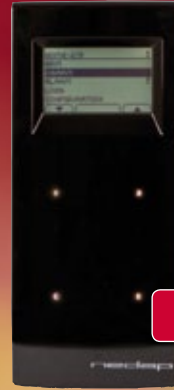
### Detailed Illustration of the Customer's Needs on a Video Management System

The Multi Solution Platform basic concept is a detailed illustration of the customer's needs on a video management system. The common technical base enables a continuously and unlimited extension of the video solution without installing some new software or change the product. The crucial difference of the Multi Solution Platform in comparison to other video solutions lies in the figure of the individual customer needs – far beyond the security world. Different modules for branches like logistics, finance or retail support the business processes by cooperating with the business own software applications.

## Nedap: AEOS Intrusion Detection

### "Always Armed. Even When You Disarm It"

The innovative Nedap AEOS intrusion detection is certified according EN5013-1, grade 3, Class II. The intrusion detection system is based on a system- and database-independent web application with an intuitive user interface. User rights, PIN-codes and biometrics can be managed centrally. Thanks to the unique, open and scalable AEOS structure functionality can be extended, even when the system is in use. AEOS combines and integrates processes like intrusion detection, access control and video control, all these processes can be implemented on one Nedap Security Controller.

3<sup>rd</sup> PLACE3<sup>rd</sup> PLACE

## TKH Security Solutions: Fore!

### Smart Security Solution

Fore! is a professional and innovative Smart Security solution. The system offers practical Security Management as well as extensive Access Control, Video Surveillance, Intrusion Detection and Intercom functions. Since Fore! ensures a centralized and integrated approach to Security Management, it promises a powerful Security Management Solution for small and mid-sized enterprises.



## EVENT

# Intersec 2013 Set to Cross 1000-exhibitor Mark

Dubai Police, Dubai Police Academy and UAE Civil Defence Confirm Support

Organisers of Intersec 2013 have their sights set on reaching the 1,000 exhibitor milestone. The 2013 edition of Intersec will take place from 15 – 17 January at the Dubai International Convention and Exhibition Centre. The region's largest and most representative trade platform for safety, security and policing is expected to be 10% larger than the previous edition. Intersec 2012 featured 19,591 trade visitors and showcased the latest technologies and apparatus in Commercial Security & Information Security, Aviation, Homeland Security & Policing, Fire & Rescue and Safety & Health.

The continuing growth of the trade exhibition can be put down to the burgeoning safety and security industry worldwide and the ongoing support of local authorities such as Dubai Police, Dubai Police Academy and UAE Civil Defence. These factors have made Intersec the region's leading trade exhibition in the security, safety and protection industries. Intersec is divided into four vertical sections, namely Fire & Rescue, Safety & Health, Homeland Security & Policing and Commercial & Information Security.

## Fire & Rescue

The Fire & Rescue section covers products and services within fire prevention & protection, fire-fighting equipment, emergency alarm & warning systems and rescue equipment. Also running alongside Intersec is a growing number of fringe events and features. The 2013 edition will feature the 4th edition of the UAE Firefighters Challenge (formerly UAE FireFit Championships) which will see countries from the GCC and Europe compete in a range of tasks simulating real to life fire rescue experiences.

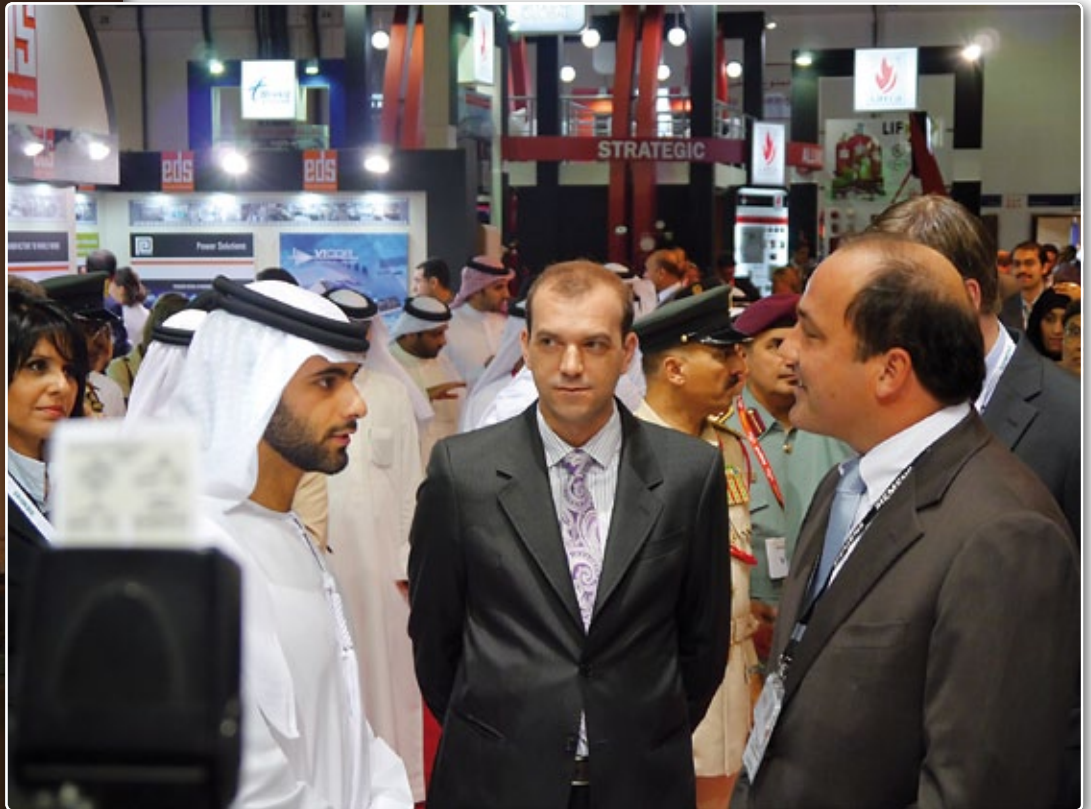
The 2013 conference series will feature a Fire Safety Forum, the 2nd Global Network Conference on Emergency Medicine (supported by the European Society for Emergency Medicine

(EuSEM)) specifically targeted towards emergency physicians, nurses and technicians and a forum for Fire Safety in the Petrochemical sector.

Many major companies in this sector have confirmed their participation: Tyco Fire, SFFECO, Naffco, Bristol Fire, Apollo, Underwriter Laboratories, Siemens and Honeywell Fire, to name a few. Bosch Fire system will be presenting the Fire Panel 1200 Series panel along with its Repeater panel highlighting the new color display. The loop connected to the panel will have the 420 series improved detectors, manual call point and uninterruptible sounders. The Detectors that are going to be in the loop are dual optical thermal chemical detector, invisible detector white and transparent models. Bosch Fire systems will also be presenting the FPA-1000-UL Analog Addressable Fire panel along with its repeater panel and the loop connected to the will be highlighting the new 440 series detectors.

## Commercial Security and Information Security

The Commercial Security and Information Security section covers control & surveillance equipment, access control, monitoring & recording systems, and information security. Within this section video surveillance systems will be



a major focus this year reflecting the fact that the UAE digital systems market is expected to grow at 16% over the next four years. Demand for the latest in video monitoring technology is felt across the Middle East region, which is expected to be one of the key growth areas for the industry. With governments, public sector organisations, corporate companies and SMEs all realising the need to protect their interests from the diverse and growing threats that exist today, investment in video surveillance systems is on the increase. According to a study by IMS Research, the global market for video surveillance systems is expected to grow at an average of 12% in 2012, with key drivers being the BRICs countries and the Middle East. The UAE is one of the most significant markets in the region for digital video surveillance systems, expected to grow at an impressive 16% annually over the next four years, making it second only to Saudi Arabia in the region.

The IMS research also indicates that the video surveillance market in the region is rapidly switching over to IP-based network surveillance systems from the CCTV analogue systems being used earlier. Sales of network video surveillance systems in the Middle East have outpaced those of analogue systems which was estimated to be 53% of the total in 2011. This is expected to surge to as much as 79% of total sales of digital and analogue systems in the region by 2016.

Specialising in standalone and integrated security solutions, Honeywell Security will also be present at Intersec 2013. Christopher Graham, Strategic Marketing Specialist, Honeywell Secu-

urity, MENA, said: "We expect considerable new demand for our range of products at Intersec, which is why we are bringing our latest offerings made especially with this region in mind." Other exhibitors specialising in video surveillance systems that have already signed up for Intersec 2013 include: Avigilon, Bosch, Flir, Hikvision, Infinova, Mobotix, Panasonic, Samsung, Schneider Electric, Sony and Tyco Security.

Bosch will present its Advantage Line portfolio including analog video security as well as the IP range of true HD and 5 megapixel cameras. "Our Advantage Line is designed to match the growing demands of installers and customers for price-competitive security and safety products for smaller installations", said Hakan Ozyigit Regional Director Security Systems, Robert Bosch Middle East FZE. For video surveillance systems, Bosch's focus will be on the Dynamic Transcoding Technology through iPad: Instant access to high quality HD security video via low or limited bandwidth internet connections.

Tyco Security Products will return to Intersec to present the newest additions to its video and access control technology portfolios. Shown on Hall 4-205C, the introductions from Tyco Security Products include a host of new product innovations important to the rapidly expanding Middle East market. "Our objective is to provide robust platforms that unify IP and analog video, intrusion, real-time location tracking, access control, and other applications to allow our customers to simplify and streamline their security operations," said Paul J. Piccolomini, VP, product management, Tyco Security Products. "The

Middle East's growing demand for powerful and intuitive IP video and access control technology fits perfectly with our latest technology innovations in this space."

### Safety & Health

The Safety & Health section covers Personal Protection Equipment (PPE), environmental protection at work, safety at work equipment and health at work. Confirmed exhibitors within this section include: Allsafe, Ansell, Draeger Safety, Honeywell Life Safety, MSA and Scott to name a few.

### Homeland Security & Policing

Finally, within the Homeland Security & Policing section, which more than doubled for the 2012 edition Dubai Police and Dubai Police Academy have already confirmed their participation. The sector focuses on electronics, laboratory equipment and forensic science, logistics support equipment, mine clearance/bomb disposal, optics, physical security & detection.

The Homeland Security section has been further enhanced to include perimeter security and surveillance products as well as an increased focus on aviation security. Avon, Eastimage, Kaba, Streit Armored Cars, Proytecsa, Mezcal Security, Ulgen, Elektral, Turnstar, Prometal and Proximex, are amongst some of the exhibitors already confirmed for Intersec 2013 within the Homeland Security section.

[www.intersecexpo.com](http://www.intersecexpo.com)



## COVER STORY

# The First Line of Defense in Airport Security

## Perimeter Security Solutions from Siemens

Due to the large and complex nature of today's airports the implementation of comprehensive security measures involves a layered strategy. This typically comprises intrusion detection, wide-area video surveillance, access control and centralized management through an integrated command and control platform. Increasing security concerns have brought about a rapid pace of change at airports, with public attention focusing on the airport terminal area. However, perimeter security solutions – while perhaps less visible to the average passenger – form a fundamental aspect of any airport security concept.



Increasing numbers of passenger and cargo traffic mean that a comprehensive strategy is more vital than ever to ensure that perimeter security and integrity is maintained under all circumstances. There have been several highly publicized incidents in recent months where perimeter security has been breached, either inadvertently or with intent, and intruders were able to gain access to restricted airside areas with damaging and costly consequences to airport operations as well as the reputation of the airport and operator.

### Customized perimeter security

Every airport with its ground layout, terminal buildings, operational modus and surroundings is unique, so a universal perimeter security approach is virtually inconceivable. Every solution needs to be tailored and customized to suit each specific site. By accurately pinpointing possible security threats at as early a stage as possible incidents outside of the normal course of events can be dealt with before they have the chance

to escalate into a threat to the continuity of airport operations or pose a danger to the safety of passengers, operatives and airport assets alike. It is important to understand that even incidents that take place on the outer reaches of an airport can have far-reaching consequences and can create long-lasting damage to an airport's reputation and, ultimately, its bottom line. All incidents including malicious vandalism or attempted security breaches, through to operational risks posed by wildlife and extreme weather can have a cumulative and hugely damaging effect on an airport's standing in today's highly sensitive and competitive market.

Airport perimeters can easily extend to over 50 km in length and require the correct balance of technologies best suited to each specific environment. Traditional methods of security include a combination of both physical fences or walls and electronic detection technologies to sense any violation of the perimeter. These systems will, however, generate an alarm only whilst the security breach is either in progress

or access has already been gained. At this point damage to site assets has already occurred, but more critically, the most sensitive part of the airport has now been violated with potentially dramatic consequences. Not only has this technology been prone to unwanted false alarms but it also fails to provide any situational awareness capability. It is usually impossible to accurately pinpoint the exact security breach, thus complicating the procedure to resolve the incident.

To overcome the shortcomings of more traditional perimeter security measures, the latest principles include a combination of physical measures together with intelligent external detection solutions, such as long-range thermal imaging surveillance cameras, the latest presence or movement detection sensors and ground radar tracking. They can all be deployed and managed through sophisticated perimeter detection and management platforms to identify unauthorized access well before it poses a threat to operations. The net result is that potential intruders can be monitored whilst still beyond the perimeter boundary and can be contained before they enter any critical areas.

Other breakthrough innovations that apply to airport perimeter security include live detection and tracking of objects, both vehicular and pedestrian, throughout the airside arena. Any activity is automatically mapped against planned and authorized routes and schedules via integration with other airport databases, allowing operators to immediately recognize and react to unscheduled incidents. Detection of all activity in airside areas – both planned and unauthorized – continues to be a focus at airports around the world. With increased ground movements and many airports running at or above maximum capacity, this will become an ever more critical part of airport security operations.

With these latest technologies and solutions, security measures implemented in today's airports now go well beyond traditional passive video surveillance, and offer airport security personnel the ability to work more proactively, productively and efficiently with the solutions available to them. Through the use of automated video solutions, operators are able to scan the entire airport with video surveillance camera feeds and display them on a single screen. Using intelligent policy zones and virtual barriers, se-



curity teams are alerted to live incidents as they happen throughout the entire site. Best-of-breed surveillance video platforms are typically based on open architectures and protocols allowing them to accommodate legacy installations and to be adapted to ever-changing market, customer and regulatory demands.

### Reduced operational risk

Recent technological advances include video analytics that continuously supervise video surveillance images. This makes it possible to create dynamic and sophisticated detection zones in which all activity can be automatically assessed and predefined escalation can be promptly instigated as required. They give rise to fewer false alarms, identifying only highly specific pre-qualified "real" incidents and making all events easier to validate and qualify. This accurate filtering of all alarms dramatically assists the operating staff and with the assistance of predefined alarm response actions ensures compliant and validated decision-making. As a result, solutions employing quality and correctly implemented intelligent video analytics ensure less operational downtime, as well as improved operator efficiency and site security.

Perimeter security breaches in today's airport climate can result in catastrophic damage to property or even loss of life, with potentially consequential legislative implications. By adopt-



ing the latest perimeter detection solutions, airport operators can successfully and effectively prevent damaging security incidents and demonstrate to passengers as well as relevant authorities that they are implementing the highest levels of protection and the best technological security solutions currently available.



**Steve Batt**  
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www.siemens.com/airportsecurity





Millennium Security Room monitors security events from all branches and buildings

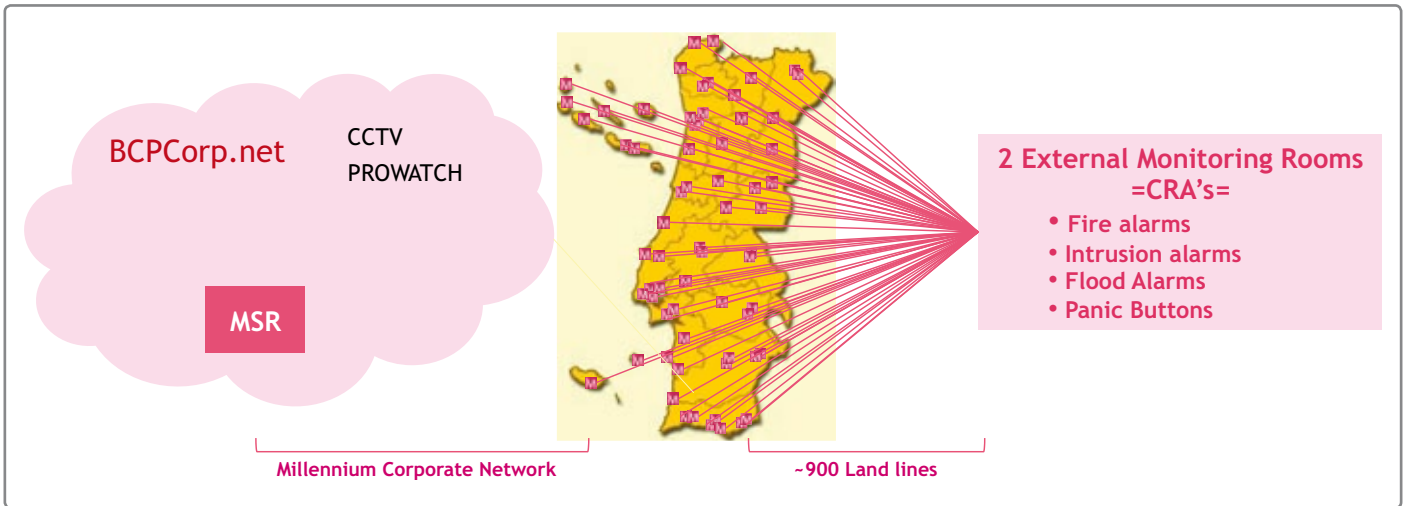
## SECURITY MANAGEMENT

# 900 Branches – One Holistic View of Security Situations

Efficient Security Management Enables Millennium bcp to React to Security Events Effectively

Millennium bcp is Portugal's biggest private-owned bank, with a prominent position in the financial market in Portugal. It is the second Bank in terms of market share and has the country's largest banking distribution network. While its mission statement is to create value for customers through high quality banking and financial products and services, complying with rigorous and high standards of conduct and corporate responsibility, it was a challenge for the bank to apply the highest standards also for their security management.

With a total of 872 branches and also banking operations in Poland, Greece, Mozambique, Angola, Romania and Switzerland, the task of consolidating the security operations to generate a holistic view of security situations was not an easy one. The project to establish a Millennium security room (MSR) as the center of all security operations appeared in 2007 in the context of the implementation of the European physical access control system and was a logical next step to integrate Millennium's CCTV system on their corporate network.



The system integrates a wide array of bank sensors and security systems from 900 branches

### The MSR Project

The main objective was to establish a security management platform that integrates and adopts existing access control, fire safety, alarm and CCTV elements into one centralized system that fulfills the following needs:

- Reduce the number of false alarms for greater efficiency and effectiveness.
- Increase the efficiency and the effectiveness of the monitoring processes and physical security events response.
- Reduce operational costs.
- Promote the policy alignment, rules and procedures for physical security at group level.

Millennium Security Room was created in order to monitor security events from all branches and buildings in Portugal and to monitor the defined processes connected with alarms. From the start Millennium bcp envisioned a model with a set of security rooms that could operate in redundancy

mode and would be able to manage physical security events for several of the group's financial operations. This vision took into consideration each bank's critical mass and included the assumption that major operations could monitor smaller ones.

After a thorough analysis of the existing systems and the market offering, a pilot phase, test runs and negotiations with vendors, Millennium decided to contract Nice Systems to install the Nice Situator open situation management solution as the core of their security management and response system. Nice system's partner Diebold Portugal was chosen as the system integrator for the project.

### The Roll-out

From day one the project was a perfect example for how the convergence of IT systems and physical security forces projects to be handled by interdisciplinary teams. It was a critical suc-

cess factor to ensure that all relevant parties were properly engaged on project's objectives and tasks. Cooperation and collaboration of the physical security division with the IT division and all other external teams – more than 10 companies were involved – was key to the design and implementation of the MSR. Another key factor was the strong working relationship with Nice systems for the duration of this project. The flexibility of the Nice Situator product combined with high level assistance in order to adapt the product to the specifics of the banking environment and the ability to deliver adjustments and upgrades on time, were crucial to the MSR project's success.

Vitor Monteiro, head of Physical Security at Millennium bcp explained, "Deployment of the Nice Situator solution allows us to fully integrate and centralize our various physical security systems. Our new control room operation was built through the integration of Nice Situator in our IT

## VISUAL DISPLAY SOLUTIONS FOR COMMAND & CONTROL – MADE IN GERMANY

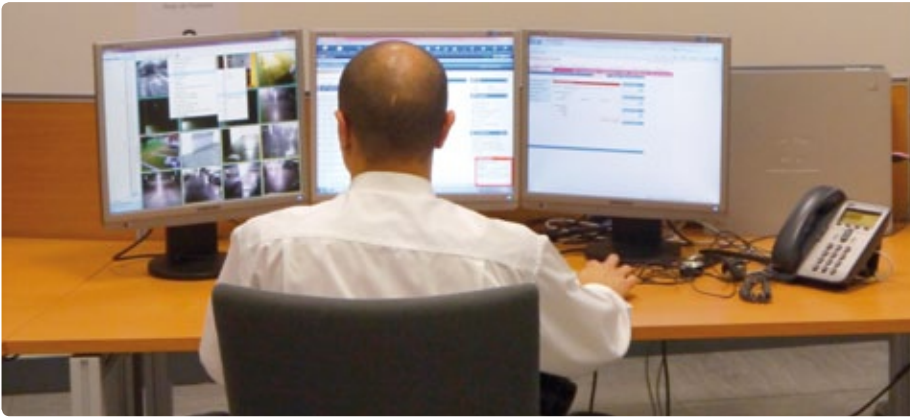
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PERFECT VISUAL SOLUTIONS





Three screens per operator show what is happening, how to respond and where it is happening

systems architecture and implementing smarter situation management solutions.”

### The Solution

For Millennium bcp, Nice Situator was deployed on the bank's corporate network to monitor approximately 900 branches and other buildings throughout Portugal. The solution is integrated with a wide array of bank sensors and security systems, including analog and IP CCTV cameras, access control, intrusion and fire alarm panels, fire detection systems, as well as VoIP, text messaging and email gateways. To achieve this several integration steps were necessary. First of all the bank standardized its alarm panels, then hundreds of floor plans were collected, alarm procedures were defined and designed and all workflows were implemented in the Nice Situator.

With Nice Situator, Millennium bcp addresses situations by receiving automatic alarms with information on what has occurred. The Nice solution does this by leveraging the existing Alarm Panels infrastructure and extracting additional intelligence from already available data. The solution also automatically connects a call between

control room personnel and the appropriate individual at the relevant branch. It also automatically places calls to external agencies if needed, such as local city police. Furthermore, it presents step-by-step instructions to the bank's security personnel on how to handle the situation.

The system now merges data from about 50,000 sensors (including 3,000 video cameras) into a common operating picture, analyzing and correlating this information, then applying standard operating procedures and automated response plans. The sensor data, including audio, video, radio, geo-location and web, is providing a framework for fusing data silos into a single, holistic operational view. The Millennium Security Room acts as the security center and central monitoring point of the whole group where operators are monitoring more than 800 branches and 8 major buildings (5 in Lisbon and 3 in Porto), plus 11 buildings of the Tagus industrial park surrounding the bank's headquarter. Operators from an external security company work 24/7 in the MSR in three teams of three people assigned to MSR's monitoring tasks. An alternate system and an alternate room is in place in Porto for DRP purposes. Each Workstation at the MSR is

equipped with three flat screens where operators can see what is happening on the first screen, how to respond on the second and a detailed plan where it is happening on a third screen.

### The Benefits

The Millennium Security Room capitalizes the use of the existing infrastructure, thus reducing operational costs and increasing efficiency of monitoring resources by the dramatic improvement in alarm information and by connecting alarms with video confirmation on the corporate network. Millennium bank is now able to evaluate all alarms: Hardware faults, communications failures, maintenance tasks and report them by region or city or branch. There are other facts that document the success of the project:

Deviations from the initial business case are less than 5% from the estimates.

- There is a strong potential to gaining efficiency in physical security hardware maintenance, since it can now be done remotely.
- The operation and administration of all systems involved are done by existing teams with no additional costs, since new system components are based on infrastructure components of the corporate Network
- Overall monitoring and response costs were reduced by 30% per year.
- The bank has established a faster and more efficient response
- Procedures forces interventions to always follow our rules, regardless who is operating the security system
- Due to its open architecture, the system enables the integration of most technologies in the present or future, thus leveraging existing investments or enabling the improvement of operations

Vitor Monteiro comments: "There are many benefits. This integration provides us with important operational cost savings. At the same time, the solution's advanced workflows and rules enables us to reduce the number of false alarms, for greater efficiency and effectiveness. Just to give you one example: With the old system we had almost 800,000 false positive alarms and almost 1,600 patrols per year were sent out because of false alarms. Now we have reduced the number of patrols sent out because of false alarms by 75%. Thanks to Nice Situator we are able to track and enforce compliance with the bank's policies and regulations, provide reports to the management and support constant improvement. We have been consistently impressed with the excellent support we receive from the Nice Systems team, and how easy it makes implementing the bank's procedures."



From left to right: Joao Amorim, IT Project Manager at Millennium bcp, Yaron Tchwellla, Nice System's President Security and EVP Business Operation and Vitor Monteiro, Head of Physical Security at Millennium bcp

### ▶ CONTACT

Nice Systems, Hampshire, United Kingdom  
Tel.: +44 1489 771 200 · Fax: +44 1489 771 665  
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## Superior performance. Exceptional simplicity.

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## CORPORATION AND LOGISTICS SECURITY

# Security at the Largest European Airfreight Hub

Interview with the MD and Head of Security

Philippe Bauer DHL Hub Leipzig GmbH at Leipzig-Halle Airport



Security employee DHL Air Hub Leipzig Photo: Deutsche Post

The DHL Air Hub Leipzig has been in operation at Leipzig/Halle airport for almost five years. Along with Hong Kong and Cincinnati (USA), this is the central European hub of the worldwide airfreight division of the Deutsche Post. Just the building complex alone covers 23,000m<sup>2</sup> of hangar area and 48,000m<sup>2</sup> of warehouse space. A further 200 hectares is taken up by the apron and numerous properties. The enormous logistics center is the destination for more than 50 DHL freight aircraft every day and each night over 1,500 tonnes of freight are handled. Comprehensive and very special security solutions are necessary here. Our Scientific Editor, Heiner Jerofsky, spoke with the Head of Security of the DHL Hub Leipzig GmbH, Philippe Bauer, about logistics security and about the special challenges of efficient personnel and technology management at the largest European airfreight hub.

**GIT SECURITY:** The entire DHL Air Hub Leipzig system has been in operation now for five years. What experience have you had with the original security architecture? Where did something have to be improved or modified?

**Philippe Bauer:** Right from the beginning, the specialty of our airfreight hub here in Leipzig/Halle has been that we have direct access to the air-side area. Our airline EAT (European Air Transport) operates a so-called discretionary area here according to §9 of the Air Transport Law. This demands an appropriate security plan that has been approved by the LBA (Federal Civil Aviation Office) and is regularly checked. The security technology chosen at the project stage has provided reliable service. Only a few components such as video servers have been exchanged. The independent security network has proven itself and here too a few additions have

been made. Only a new ID management system has been introduced so far and we are currently looking at a possible comprehensive security management system. The right choice of security technology service provider and maintaining a strict maintenance agreement contribute greatly to the reliability of the systems.

**The shifting and storage of large amounts of freight also attracts the attention of criminals. And such an air transport hub must be**

**protected against terrorist attacks. What precautions are in place in your security planning?**

**Philippe Bauer:** The parcels that arrive at our hub are not stored at all but forwarded the same night. Up to 250,000 parcels are redirected every night in our warehouse. All our employees are checked with the police before starting and receive their contract only after confirmation of the so-called ZÜP (reliability check). Every new

employee goes through a training program on the subject of security even before he receives official access to the security area. In addition, we carry out checks when employees and visitors leave our air-side area. As from 2013, DHL will also be rolling out the 'Certified International Specialist Program' with an 8-hour security training session for all employees worldwide. With regard to theft, we definitely employ preventative measures. After the events in Yemen, the DHL directors decided to check all incoming parcels as they enter the airfreight network. This decision was accompanied by a large investment plan to increase detection capabilities at the various locations. We are very proud to have integrated an automatic X-ray machine here in Leipzig that allows us to check significant volumes of freight in a very short time. The system helps us to efficiently implement the current requirements of EU law as well as those of other air security authorities. Again, the focus here is on prevention by detection, deterrence and delay. We work closely together with the security authorities in this area and practice for emergency situations. Last year we were able to increase the number of authorized personal goods screening staff with an additional 'Freight' training by 80%. As well as this training effort, we also have X-ray machines with so-called 'dual-view technology' and numerous explosives detections machines.

**Do you use your own security personnel and, in the light of experience, which jobs have you assigned to external resources?**

**Philippe Bauer:** Security is the be-all and end-all in our division. For this reason DHL Hub Leipzig GmbH employs almost 200 of its own people to cover all the security tasks, including safety at work and our company fire brigade. If we occasionally have staff shortages we will use qualified personnel from temporary employment agencies.

**How and at what central location do you coordinate all the operational messages such as burglary and equipment failure reports, video analyses or access control and do you have response teams on site?**

**Philippe Bauer:** We have an internal security center and over 600 surveillance cameras installed around the site. Predominantly the borders of the secure area are watched and all the aircraft and freight on the apron are also protected. The security center also acts as the emergency control room where all failure reports and emergency calls are received and the responses coordinated. All responses are carried out by our own response teams and supported if necessary by the authorities and the airport fire brigade.

◀ **Philippe Bauer, Head of Security at the DHL Air Hub Leipzig GmbH, Photo Deutsche Post**







Automated X-ray system DHL Air Hub Leipzig

Photo: Deutsche Post

As well as the security center, there is also an ID point that carries out access checks 24/7 and is responsible for issuing the ID badges.

**Over 600 cameras are used to monitor the area, the buildings and the freight. Have dome and fixed cameras proved their worth with regard to image quality, speed, sensitivity and reliability and can intelligent systems be recommended in a logistics environment?**

**Philippe Bauer:** We are very happy with our choice of various types of camera. In some exceptional cases we have considered replacing dome cameras by fixed ones. This has usually been due to building alterations. If we install new cameras they will definitely be HD-capable devices. We have observed a continuous development in the market of intelligent systems. However, any upgrading will happen piecemeal simply because of the above-average dimensions of our sorting system.

**Perimeter protection is essential for such a large and important compound. How should our readers imagine the compound security along its very long edges?**

**Philippe Bauer:** We have a security fence built according to ICAO standards that is protected by regular personnel rounds as well as by a combination of video and alarm reporting technology.

**An ID card system with reliable identification and access control is an important element of the whole security concept. How do you prevent unauthorized people entering the area with a stolen or forged ID card?**

**Philippe Bauer:** Every employee ID card is uniquely associated with a corresponding picture. If one is lost it can be remotely barred so that access to the site without being noticed is no longer possible. Visitors have to register with us by showing a valid form of identification. Access to the secure area is also only possible with this ID card in combination with a biometric comparison. This is done with a vein scan of the person assigned the ID card. This very efficiently prevents any misuse of ID cards.

**The entire security hardware is dependent upon the emergency power supply. How do you ensure the necessary failure protection and at what expense?**

**Philippe Bauer:** Like many other companies of our size, we also have emergency power generators that maintain the power in our house for a while. In addition, the critical elements of the security infrastructure are equipped with their own uninterruptable power supplies. The effort is very comprehensive and costly, but unavoidable however in order to ensure complete security of the location.

**To what extent are you responsible for Aviation Security and how are you able to ensure the security of the aircraft that are parked in the area, the staff and equipment?**

**Philippe Bauer:** We have a team of employees that carry out checks on the aircraft with every loading or unloading procedure. In addition, the aircraft stands are secured by light sensors and will raise the alarm if crossed without authorization.

**Shifting enormous amounts of freight from aircraft to trucks and following the load requires a very high level of logistics effort. How and with what personnel and technical resources do you manage to keep the logistics chain intact?**

**Philippe Bauer:** On six nights every week up to 60 aircraft land here and 80 trucks arrive to transport more than 200,000 parcels to and from our hub. The loading and unloading of aircraft and trucks together with sorting and the customs formalities requires close cooperation between all sections. Around 500 employees work on the apron who, together with more than 1,000 employees in the warehouse per shift, ensure the smooth flow and timely forwarding of all the freight. The processes are supported by various EDP systems that are being constantly developed further to meet the operational requirements.

**The security team ensures as trouble-free and interruption-free operation of the DHL Air Hub Leipzig as possible. How do you estimate the current security situation to be and how well are you prepared for unusual interruptions and crises?**

**Philippe Bauer:** We evaluate the current security situation on the basis of all the information that is available to us. We receive this not only from official sources but also from the airline industry. In addition, our colleagues from the worldwide security network are able to supply us with topical information. An employee in our quality and control department is responsible for emergency and crisis management, right through to 'business continuity management'. Exercises are regularly carried out across various departments and different scenarios are tested. These can be, for example, a breach of the security fence, a bomb threat or incidents involving aircraft. Of course, there are plans in place for this critical location to minimize the effects of such an event.

**Many thanks for the open discussion and the interesting insight into your difficult daily job. We wish you continued good luck and the necessary intuition for these important tasks.**



Scientific Editor  
Heiner Jerofsky



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## FIRE DETECTION

# Wireless Landmark

## Keeping London's Iconic Buildings Safe

The Oxo Tower on the banks of the Thames has been a riverside landmark since the 1930s but entered a new lease of life in the 1990s when Coin Street Community Builders (CSCB) refurbished it into the mixed-used development it is today. Members of the Apollo Partner Plus initiative, Drax Services has recently been working with the CSCB to develop a design proposed by Environmental Design Associates and install a system for the Oxo Tower Wharf. Apollo fire detectors are now playing an integral part in keeping this iconic building on London's South Bank safe.

Originally owned by the Liebig Extract Of Meat Company, the company that made the famous OXO beef cube, its architect, Albert Moore, incorporated the famous OXO moniker as windows on the tower to get around the ban on skyline advertising. The iconic building, reopened in 1996, is now home to a unique community of design boutiques and studios. In addition to co-operative housing, the building is home to exhibition spaces such as the gallery@oxo and Bargehouse as well as cafés and bars, including the famous OXO Tower Restaurant, Bar and Brasserie.

Commercial Director, Alex Cother of Drax explains „The Wharf is one of a kind in London and was expecting an increasing number of visitors during a busy summer for the city as a whole. At any one time there can be up to 500 people in the building and with its concentration of over 20 retail studios as well as specialist shops, we needed a reliable solution that could be installed with minimum disruption.

### Minimum Disruption

„The Oxo Tower is open all week so the aging system it had in place was kept running as we installed the new system. The selection of products, including Apollo's open protocol devices and several Morley-IAS by Honeywell Zx control panels, has allowed us to meet the client's specification. A Connect graphical user interface not only announces alarms and produces history reports but will also improve the administration of the maintenance.”

Project Manager, Michael Kalispera adds, „As installers, we want to ensure our clients can continue to operate as easily as possible whilst we are carrying out our work. Our main concern on this project was minimizing disruption. Installation of hard wired equipment, by its very nature, can be a messy, noisy business and with shop units occupied by high end galleries, hairdressers, designers and applied artists we wanted to work quickly, quietly and cleanly so



customers could shop in peace and businesses could continue to run smoothly.

### Wireless Fits the Bill

„The obvious solution for us was Apollo’s wireless XPander Range. Although XPander equipment is more expensive than its traditional wired counterparts, this was offset by reduced installation costs. As we didn’t require cables in certain areas we could cut our time on site and, as a result, there were fewer interruptions to staff and customers as well as less mess and noise.

„We received valuable support from Apollo during the installation and the technical team visited us at the Tower on a number of occasions. They were able to understand the needs of the project first hand and advise us on the type and quantity of equipment required, carry out signal strength testing of the radio equipment and assess its suitability to the fire alarm infrastructure. „In this unique environment we would have struggled to find a solution without Apollo’s XPander range – the help and support the team provided us with throughout the project was critical to its success.“

### ▶ CONTACT


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 info@apollo-fire.co.uk · www.apollo-fire.co.uk

### Functional Safety Approval

Fifteen Apollo products have been independently evaluated to IEC61508 resulting in Safety Integrity Level (SIL) 2. This evaluation establishes the functional safety of the products by illustrating how reliably and correctly they respond to inputs. Paul Pope, Business Innovation Manager, explains the significance of this certification: “Whilst on site testing and maintenance is a vital component of ensuring the on-going functionality of any fire detection system, it doesn’t provide evidence that in a ‘live’ situation, equipment will function as planned. A SIL rating gives confidence that it will. Through a series of extensive evaluations this certifying process demonstrates a product’s integrity to perform its primary function in a real life situation. Evidence of this kind is particularly important in high risk environments such as the marine and offshore industry, as well as other sectors including education and healthcare that demand a high level of functional safety.”

[www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

### Fire Protection

 Wagner exhibited its fire protection solutions at the Expoprotection in Paris. The Company is expanding into France as well as worldwide. At the exhibition it showcased systems and products in the specialized Fire Prevention and Very Early Fire Detection fields. The Oxyreduct Fire Prevention System prevents the outbreak of fire by facilitating a controlled reduction of oxygen levels in enclosed areas without restricting access to the protected area. In France the system is implemented at the very large high bay cold storage warehouse at the Klooseterbor storage facility where McCain’s french fries are stored. The Titanus Air Sampling Smoke Detection System was also presented in Paris. This system is capable of detecting a fire in its very earliest stage, initiating timely action. A further step within the strategic market entry into France is the opening of a liaison office at Centre d’affaires de Montparnasse in Paris in December.

[info@wagner.de](mailto:info@wagner.de)

### Audio Signal Generator

C-Tec has launched an Audio Signal Generator for testing induction loop amplifiers. It is specifically designed to simplify the testing of induction loop systems to current British standards. Factory calibrated to provide a fixed audio signal, the generator includes all of the test tones required to test audio frequency induction loop amplifiers to BS 7594 (1kHz sine wave, frequency response and metal compensation), plus speech and music tracks to assist with subjective testing. Marketing Manager Andy Green: “The new generator is a welcome and very cost-effective addition to our induction loop testing equipment range and, used in conjunction with our existing Fosmeter Pro Magnetic Field Strength Meter, will produce good consistent results every time.”



[www.c-tec.co.uk](http://www.c-tec.co.uk)



## FIRE PROTECTION

# Move in the **Right Direction**

## Integration of Fire Detection and Emergency Lighting in One Solution

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### FIREscape+®



In the event of a fire, a traditional emergency lighting system does not facilitate signs to be 'shut off', allowing people to walk directly into the path of danger. By responding to information sent from the fire detectors FIREscape+ puts an illuminated red 'X' on appropriate emergency signs, advising people not to exit via that particular route and ensures a safer exit path.

Hochiki Europe presented its new life safety solution at this year's Security Essen. The unique system integrates addressable fire detection and emergency lighting technology to provide an intelligent way-finding solution that represents a step-change in how people safely evacuate buildings. Evacuation is usually hindered by a lack of detailed knowledge of the internal connectivity of the building space, along with confusing and poorly thought out instructions. Studies have also shown that in these situations occupants usually make use of familiar routes – typically using the exit through which they entered the building. Even more worryingly, research from the University of Greenwich, which is currently undertaking a study called the Human Behaviour in Fire Network (HUBFIN), found that only 38 per cent of people see passive signage in an emergency.

#### Avoid the Path of Danger

Even if the signage is recognised, a traditional emergency lighting system does not allow signs to be 'shut off', which can direct people into the path of danger. FIREscape+ addresses all these issues and more by integrating the fire detection system with the emergency lighting, and

by identifying where in the building the fire is taking place, the correct route can be configured and communicated. By responding to information sent from the fire detectors FIREscape+ is able to put an illuminated red 'X' on specific emergency exit signs, which signals to people not to exit via that particular route.

Manufactured in the UK, FIREscape+ is EN50172 compliant. It comprises an addressable emergency lighting control panel with battery back up, and addressable, self-contained light emitting diode (LED) luminaires and signage that is connected via low voltage (40V) cabling. Uniquely, this is all powered and configured on the same loop via a single panel giving high levels of control via an automatic system.

#### Additional Cost Savings

Not only does integration of fire detection make good sense from a safety point of view, it has a number of cost saving and environmental benefits. Hochiki has managed to reduce the wiring content by 75 per cent. This is achieved by a combination of eliminating the mains wiring to each luminaire and integrating the fire detectors and the luminaires onto the same addressable loop.

Also, whilst a FIREscape+ luminaire consumes less than 0.5W, a similar 8W fluorescent light exit luminaire will consume approximately 12W. When compared to 230V LED lights, FIREscape+ products save more than 50 per cent of energy. The lower energy consumption directly correlates with lower CO<sub>2</sub> emissions and, for example, replacing 100 x 230V fluorescent exit luminaires with FIREscape+ LED based exit lights, CO<sub>2</sub> emissions can be reduced by 2,100 kg annually.

"In the event of a fire people often become disorientated and this can inadvertently increase the risk of danger if they take the wrong route out of a building," commented Stuart Davies, marketing manager at Hochiki Europe. "We are delighted to be able launch this innovative new system and by fully integrating fire detection and emergency lighting, FIREscape+'s intelligent signage will help to make safe evacuation far more likely."

#### ▶ CONTACT

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## HEALTHY WORKPLACES

# Healthy Workplaces

Best Work-Related Documentary Film of the Year Awarded

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Chico Pereira receiving the Healthy Workplaces Film Award from Birgit Müller, EU-OSHA Communications Officer

The European Agency for Safety and Health at Work (EU-OSHA) contributes to making Europe a safer, healthier and more productive place to work. The Agency researches, develops, and distributes reliable, balanced, and impartial safety and health information and organizes pan-European awareness raising campaigns. Set up by the European Union in 1996 and based in Bilbao, Spain, the Agency brings together representatives from the European Commission, Member State governments, employers' and workers' organizations, as well as leading experts in each of the EU-27 Member States and beyond. The EU-OSHA presented its fourth film prize during the 55th International Leipzig Festival for Documentary and Animated Film (DOK Leipzig). Winner of the 2012 Healthy Workplaces Film Award is Pablo's Winter by Chico Pereira of Spain.

The film award promotes the importance of workplace health and safety across Europe by challenging and encouraging filmmakers to create and showcase documentaries on workplace safety and health topics. Chosen from ten nominated films, Pablo's Winter tells the story of a retired miner, one of the last generation of miners in a now-closed 2,000 year old mercury mine in Spain.

Peter Rimmer, EU-OSHA representative of the jury said that Pablo's Winter is a worthy winner of the award. Presenting the award in Leipzig, he said "This sincere film, beautifully shot in black and white, tells the story of the terminal decline of a small town and one of its inhabitants. Cleverly using fiction techniques, the film reveals the serious damaging effects of bad working conditions and poor lifestyle choices."

The film also evokes the need of strengthening the workability and the employability of all workers to avoid early retirement or the redundancy of older people, issues that will be explored in a major new project on the occupational safety and health of older workers that EU-OSHA has been requested by the European Commission to carry out.

### Years of Hard Work

In addition to the €8,000 prize fund, 1,000 copies of the winning film will be produced in a selection of eight EU languages and distributed across Europe by EU-OSHA. In 2011 the award

was presented to German director Carmen Losmann for her film 'Work Hard Play Hard', an exploration of modern theories of work organization and management. The 2010 prize winner was Czech director Tomas Kudrna for his film 'All that Glitters' about working conditions in a goldmine in Kyrgyzstan. The first edition in 2009 was presented to Dutch director Ton Van Zantvoort for 'A Blooming Business' which shows the painful working conditions in a globalized flower industry.

Ten thought-provoking films from international filmmakers were nominated for 2012, documenting the everyday routines of people at all stages of their working lives. The films reflected a variety of working environments and focus on the experiences of workers involved in both large scale production and small enterprises. The nominations were selected from more than 2,850 documentaries submitted to DOK Leipzig this year, with the winner decided by an international jury which included film and occupational safety and health experts.

### ▶ CONTACT

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# Ansell





## PERIMETER PROTECTION

# Megapixel Imaging for Transportation and Perimeter Security

Applications around the World Illustrate Performance Advantages of Higher Resolution Video

Video is a proven and widely used tool for transportation security and perimeter protection, and the higher resolution IP megapixel cameras deliver makes video systems even more effective in these applications. License plate recognition (LPR) is a good example of how the high resolution and detail provided by megapixel cameras enables advanced features that increase overall system performance. In addition to the higher performance and functionality that megapixel cameras provide, they also deliver significant economical advantages when compared to conventional analog and VGA cameras.

The ability of a single megapixel camera to do the work of several conventional cameras can dramatically increase return on investment (ROI) and lower total cost of ownership (TCO). The economy of scale is realized with the installation of just one megapixel camera, and grows in scale as more units are added to a system. Let's look at a few examples of how megapixel cameras are being used today to improve security in transportation and perimeter security applications.

### On the Road in Malaysia

Reading license plate numbers is an important function for transportation systems, and megapixel cameras provide greater resolution to make license numbers clearly legible to human operators and/or to systems with software driven analytics. Megapixel cameras were first used in Malaysia on the Ampang-Kuala Lumpur Elevated Highway (AKLEH) project. The users were so pleased with the performance and the video output quality, they also specified that megapixel cameras be installed on the newer Lebuhraya Kemuning to Shah Alam (LKSA) toll expressway.

The new four-lane, 14.7-kilometer (9-mile) expressway includes a toll collection system with "Touch 'n' Go" lanes where drivers pay using pre-paid smart cards, and SmartTAG lanes where infrared transceivers mounted on the ceiling of the toll plaza enable collection of tolls as vehicles pass through. Arecont Vision 3-megapixel color cameras are mounted in each toll lane and are used in conjunction with a vehicle monitoring system to clearly view each license plate. The cameras capture video and snapshots of vehicles passing through the Vehicle Monitoring and Capturing System (VMCS) that also incorporates network video recorders (NVRs) integrated with the toll collection system. Each toll plaza is monitored locally in a plaza control center and centrally by an administration office.

As vehicles drive through the new expressway's toll plaza, the image clarity of megapixel cameras provides a useable image dependably. Each clearly legible image translates into more recovered toll revenue and contributes to system ROI.

### Parking Management in France

A parking facility of the French-based Sogaris Group, operator of multi-modal traffic hubs in

strategic transport corridors, illustrates another application for megapixel camera technology. Opened in 1967, the Rungis logistic center is the oldest and largest facility managed by Sogaris, located next to the Novatrans combined transport site and the Rungis International Market, five minutes from Paris Orly airport. Roadway access to the Rungis center is via two entry lanes and two exit lanes. The slightest access problem can cause long lines and spill over onto the nearby motorway.

To resolve congestion issues, Sogaris needed to separate access for authorized and non-authorized vehicles and make it faster, more convenient and secure for both types of users to enter and exit the facility. Two entry and exit lanes were added for the ticket-based parking facility, and the two existing entry and exit lanes were designated for exclusive use for the ticket-free private parking. Both parking management systems use a custom-developed automatic license plate reading (ALPR) system designed around Arecont Vision's 1.3-megapixel cameras. The camera provides clear and detailed images, even in low light or extreme backlight conditions.

For the private parking area, Arecont Vision megapixel cameras are installed in terminals positioned a few meters in front of and behind the entry/exit barrier. As the trucks pull into or out of the terminal, the system reads and registers the trucks' front plates. Rear plates are also read to avoid vehicles entering in a process or piggy-backing on the front vehicle. The front terminal is equipped with two cameras for double reading. On exiting, a data consistency check is performed. If a truck that entered without a trailer attempts to leave with a trailer attached, and without validation, its exit is blocked and an operator is called.



The camera set-up is the same for the public parking system and provides an additional level of security for visitors to the Rungis center, as well as helping to eliminate the problem of unauthorized overnight parking.

### Surveillance and Perimeter Protection

Megapixel cameras are also used in surveillance applications at large transportation facilities, such as the Valletta Cruise Ship Terminal in Malta's Grand Harbour. The superior resolution of megapixel cameras can cover very large areas and enable surveillance operators to zoom in – live or even on archived video – and see the details of various areas in an image while still preserving the full image.

Surveillance at the Valletta Cruise Ship Terminal was recently upgraded with the installa-

tion of 50 multi-megapixel cameras from Arecont Vision, the first and largest installation of 5-megapixel cameras in the Maltese Islands.

For perimeter security, multi-megapixel cameras provide detailed images that enable fewer cameras to cover larger areas. For example, global healthcare giant Merck uses 5-megapixel day/night cameras to protect the perimeter zone of its corporate laboratories just northwest of Mexico City. The cameras provide better overall coverage with higher resolution for superior picture quality and better results.

The cameras used by Merck, which operate in both daytime and evening lighting environments, can zoom in on specific areas of live or archived video to enable operators to see important details such as license plate numbers or a person's face. A total of five Arecont Vision

5 megapixel cameras are used with 10mm – 40mm zoom lenses inside 12-inch housings along the perimeter zone.

These applications in transportation and perimeter security are just a few examples of how users around the world are benefiting from the unparalleled image quality and resolution of megapixel cameras. As more advancements are made in analytics, we can expect the range of applications to grow and megapixel cameras continue to be applied for mainstream applications.

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## PERIMETER PROTECTION

# Magic in Motion

Easy and Reliable Motion Detection

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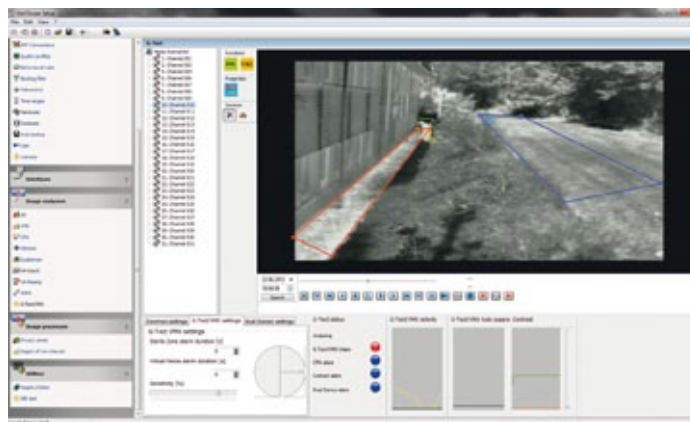


Geutebruck's G-Tect/VMX is a new video analytics solution for professional use which is both extremely quick to set up and exceptionally reliable. It not only detects movement but differentiates between potentially relevant moving objects and background changes.

The system continuously analyses and evaluates all picture contents, and regularly adjusts its 'understanding' of the background. Thanks to the latest smart algorithms which continually adapt to the current image contents, the system offers great accuracy at suppressing unwanted alarms caused by systematically occurring environmental effects such as moving foliage, rain, snow or headlights. It recognizes these image changes resulting from weather as systematically occurring background changes and therefore tolerates them.

### Cloning Cameras

Setting up a sterile zone where any intruder triggers an alarm is a simple mouse-clicking opera-



Setting up a sterile zone is a simple mouse-clicking operation.

tion. Configuring direction-dependent detection for a zone is quick and easy too. The settings can then be copied across to other alarm zones and cameras with similar site conditions, for example to set up a series of cameras to monitor a fence. Finally there is a single intuitive global sensitivity control to optimize all the settings. This minimalist design approach to system settings reduces the time required for system installation and makes it predictable.

G-Tect/VMX is designed for seamless integration in the Geutebruck system world and comes with licence-free activation of the company's classic VMD detector, to enable dual sensor operation and optimum protection of critical areas.

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### Viewing Client and Storage Software

Bosch's Video Client 1.4 (BVC) offers a number of enhancements – including improved search and support for advanced features of the Company's IP cameras – to give customers more control over their video systems. The new version also adds support for ONVIF conformant cameras and an expanded range of storage solutions. With version 1.4, customers can conduct forensic and event contextual searching for the manufacturer's Intelligent Video Analysis (IVA) and benefit from the new automated tracking feature for Autodome 700 and 800 Series Cameras. Intelligent Tracking uses Autodome's built-in IVA to constantly monitor scenes for motion and automatically track objects



moving within the camera range. Customers can stipulate conditions that will instantly activate tracking or click on a moving target within live video to trigger tracking. The software also adds support for the regions of interest feature for live and recorded video. This allows the user to zoom in to a specific area of an image and transmit it in a separate stream, so both the overview and detail can be seen at the same time. [www.boschsecurity.de](http://www.boschsecurity.de)

### 3MP WDR Camera Series

Hikvision has released a series of 3MP WDR network cameras – the X54FWD series following the previous introduction of the Company's 1.3MP WDR cameras series in the second quarter of this same year. The WDR network cameras are designed on the manufacturer's enhanced DSP (Digital Signal Processing) and ISP (Image Signal Processing) algorithm to improve image processing. This WDR performance of the cameras represents an up-to 120dB improvement in wide dynamic range; further maximizing the amount of detail in the field-of-view's brighter and darker areas. Images are further enhanced with a 3D DNR (3D Digital Noise Reduction) function that works to reduce noise and motion

blur, as well as 3MP and full HD resolution to ensure exquisite and crystal-clear video viewing and playback. As for X54FWD dome camera and bullet camera, IR LEDs can be further incorporated to enable the products to deliver optimum quality images in dark conditions, which makes it an ideal solution for day and night surveillance. Other key features include motorized vari-focal lens (only for dome camera and bullet camera), which allows the user to adjust the camera through Hikvision's remote zoom and Focus feature. The cameras also benefit from vandal-proof housing and IP66 rating, ensuring maximum protection for outdoor applications.

[www.hikvision.com](http://www.hikvision.com)

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## SECURITY FOR TRANSPORTATION

# Tunnel Security

## Addressing Lighting Challenges for Optimum Surveillance

The article will look at the harsh environment of tunnels and how best to utilise IP surveillance cameras that encompass Lightfinder technology. Providing a clear, colour image to aid in recognition and identification of objects, even in low-light, has seen analogue cameras lose their last advantage over IP cameras. The article will look into the following factors to obtaining high image quality; reliable installation, seeing in the dark and providing good images where there is a contrast between light and dark.

### Easy and Reliable Installation Is Key for Good Image Quality

Tunnels are bottlenecks in the traffic system: often humid, dirty and with typically very cramped environments. Installation of cameras needs to be very quick to minimize the disruption of traffic and the time installers spend in potentially dangerous environments. On the other hand, a camera needs to be carefully mounted and configured to deliver to its full image quality potential. It is vital to work with technology that can be installed in a matter of minutes. In an ideal scenario a camera's technology will allow a lot of the configuration to be done outside the tunnel or even from the comfort of a control center: this includes remote zoom to select the right field of view, remote focus to set sharpness and pixel counter to ensure optimum resolution.

### Many Ways to See in the Dark

Naturally, tunnels can be very dark environments. It is often not economical, or even possible, to have bright lights in tunnels, which is what many cameras need to deliver good image quality. Surveillance cameras traditionally switch to black and white when light drops below a certain level. Axis' Lightfinder technology however delivers good quality color images, even in very low light



For surveillance in highly variable lighting conditions, where light comes through an opening creating both dark and bright zones there are extra demands on cameras to provide superb images. Image 1 is taken from an AXIS Q1604 Network Camera, which with its wide dynamic range capability is designed to provide detailed images from both the dark and light areas, which are missing from the images that are underexposed (Image2) versus overexposed (Image3)."

### Blinded by Bright Lights

Sometimes, it is not the darkness that is the problem, but the contrast between dark and light areas. Many cameras struggle to deliver good images in situations with strong backlight or a lot of reflections. This is a common problem in tunnels, where tunnel openings are very bright while the tunnel walls are dark. A similar situation appears for example when a train approaches with strong headlights inside a tunnel. Most cameras can-

not handle these great differences in light levels and as they try to compensate for the strong light in one part of the scene, other parts will become dark, blocking out any image details. Axis offers cameras with wide dynamic range (WDR) that are designed to handle a high range of light levels in one single image, ensuring that details are visible both in dark and light areas of the monitored situation.

The use of the latest sensor technology and continual develop-

ment of smarter software, will continue to improve product development on the low-light application market.

### ▶ CONTACT

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www.axis.com



situations. This is ideal for security installations that require color for recognition and identification. The noise reduction of the Lightfinder technology is vastly improved compared to the analogue cameras on the market, which in combination with the light sensitivity of the sensor gives a superior image quality with smooth, clear video of moving objects, surpassing any advantage analogue cameras had.

In other instances it is more useful to complement the cameras with infrared (IR) lights. IR lights require no light at all in the tunnel to work, and even though a camera with IR lights only delivers black-and-white pictures, the pictures can offer great contrast and very low noise. If the camera needs to see over long distances in darkness, a thermal network camera could be a better choice; it typically delivers less detail than a traditional camera, but can detect people and other objects from great distances of several kilometres away.

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## COMPANIES

# Two Heads Are Better than One

Marco Abrahms Joins the Management of deister electronic

It's the first time in the 35-year history of deister electronic: founder and owner Anatoli Stobbe appointed his Commercial Director Marco Abrahms to the Executive Board on the 1st July this year and effectively formed a diarchy. "A man of my hearts desire", said Anatoli Stobbe. GIT SECURITY spoke with Marco Abrahms about the new constellation and about current technical developments in the company.



The Directors of deister electronic GmbH and del-pro, left to right: Marco Abrahms and Anatoli Stobbe.

**GIT SECURITY:** Mr Abrahms, you have been a member of Senior Management at deister electronic since 1st July 2012. It is the first time, there has been a second man at the helm beside the founder and owner, Anatoli Stobbe. What is the reason for this new structure?

**Marco Abrahms:** I wouldn't talk of a new structure but rather of an addition to the competencies within the Management. It is the first step in making deister electronic organizationally fit for the future. We will be celebrating our 35 year company anniversary next year. Anatoli Stobbe himself has significantly driven the company forward using his innovative ambition and ideas and built it up to a competent and leading RFID solutions provider worldwide.

**Could you give us a brief summary of your security portfolio?**

**Marco Abrahms:** The Security & Safety division at deister encompasses modern solutions for people and vehicle access control, guard tour services and electronic Management for keys and valuables. Some typical customers amongst others are, security companies, the police, border protection agencies, prisons, the postal and parcel services, state organizations, industrial

and trading companies, airports and airlines, financial institutes as well as hospitals and surgeries. In its Ident & Automation division deister offers electronic read and write units that are especially suitable for data collection in an industrial environment and for optimizing the flow of goods.

**So who are your most important customers in this respect?**

**Marco Abrahms:** Typical areas of application for these products are production automation, transport and logistics, goods flow control, securing vehicles as well as new markets that can benefit from the special advantages of UHF technology. Typical customer groups are logistic companies, industries, parcel services, retail companies, waste management service providers and the textile and laundry industries.

**Let's come back to the new management – how are the responsibilities divided in this new topography?**

**Marco Abrahms:** In general, the two CEOs reciprocally support each other. The responsibilities in the Management Board are restructured. Mr Stobbe will continue in his function as Senior Product Manager, looking after R&D as well as

the Sales Departments. All other responsibilities of the company are assigned to myself. These include Accounting, IT, Purchasing, Order Processing as well as Sales Support. The latter plays an important coordinating role between our in-house and field sales staff. In addition, I am also responsible for Marketing, which is currently being expanded.

**Could you give us an insight into your strategic aims to develop the company in the coming years?**

**Marco Abrahms:** First of all I would like to establish a solid foundation for further company growth. As a first step I want to optimize the procedural structures. Regardless of the different industry, the processes in all companies are very much the same. At the moment, all our processes are being looked at and redesigned. If necessary they mesh together without any gaps. Mistakes that can be avoided should be eliminated by defined processes. It is very important to me that every employee feels responsible for his particular job and reacts accordingly. We will happily give them the space so that they can act on their own authority. This is a most important task for me if we want to improve our goal oriented teamwork. I expect that we will have completed optimizing the operational processes



The TSU 200 is a compact UHF reader for the identification of vehicles and objects at medium to long range. UHF transponders are reliably captured by the integrated antenna.

by the beginning of next year. In parallel we are working towards matching our versatile product solutions even more consistently to the needs of our customers. We appointed a Head of Marketing in August who will bundle existing activities and develop them further.

**Mr Abrahms, you have recently taken over the Syntron company, a specialist for IT-based security systems. What made you take this step and does this decision fall into the corresponding growth strategy of deister?**

**Marco Abrahms:** We have had the amanTag product range in our portfolio for over 15 years, which primarily concentrates on Asset Protection applications. We have, for example, installations in the Louvre in Paris, in English prisons, in casinos, to give just a few applications. The Syntron company has mainly been active in healthcare and has an excellent reputation, particularly in the areas of baby protection, roaming patient protection and employee emergency call and location. For this reason the takeover of the capital and current assets from the insolvency have made a very interesting addition to our existing portfolio.

**How is this company being integrated and what is the progress so far?**

**Marco Abrahms:** We took over Syntron mainly to carry on the RFAPP division. RFAPP stands for Radio Frequency Asset & People Protection and was introduced to the market by Syntron with growing success. We were able to secure the services of the former Head of Sales, Uwe Bartels, and two Service Engineers from Syntron to continue this division for us. With them we already have good access to the market and we are currently cementing the existing customer relationships. The current RFAPP products are being technically revamped. It is to be expected that a new product generation will be brought to market in the new year.

**If you look at the Security & Safety and Ident & Automation segments, where do you see the most important areas of development in these two markets for deister electronic?**

**Marco Abrahms:** A paradigm change is currently in progress in the automotive industry. LF and HF to UHF technologies will be replaced by UHF technology. This is a very interesting direction as one of deister's main expertise is based on UHF technology. Just as interesting are the textile industry and leasing markets in that matter. By implementing our UHF technology to textiles such as clothing or rental laundry items we are going down a trend-setting path. We are now creat-

ing cross-system solutions in the security and safety divisions. The management of keys and/or valuables also complete some of the tasks usually performed by security services. A key, for example, that you have just issued with the key management system is not allowed to leave the prison either during or after its use. This is where the RFAPP or amanTag system comes into play. Or a security vehicle is captured by a tranSpeed long range reader as it approaches. It is very beneficial for the users of all these combined systems as only one database must be maintained with just one GUI. There are also no compatibility discussions if existing systems are extended because all interfaces and data protocols are perfectly in tune with one another.

**With proxEntry, proxSafe, dataLog and tranSpeed, you have a comprehensive portfolio of security products on the market. What are the newest additions here or the announcements coming soon?**

**Marco Abrahms:** proxEntry, our access control components such as contactless readers and the corresponding transponders that we have very successfully brought into the OEM market over many years, are currently getting a security boost. After Mifare Classic and Legic Prime were hacked, almost all operators of access





◀ The CRM 5 doorLoxx readers with or without keypad are specially designed for very energy-efficient battery operation. Various reader technologies are available.

control systems rely on AES-encoded readers and card technologies such as Mifare Desfire EV1 or Legic Advant. deister has developed the new ‚Secureprox’ highly-secure readers and card family. Nowadays almost all smartphones incorporate an NFC module that allows a payment function, with which access rights can also be downloaded. Newer models of the proxEntry reader family on the PRM and CRM platforms support the NFC functions. To date however, it has not been definitively defined exactly where the ‚secure element’ in smartphones actually sits or in which part the security key is stored. Just recently the ‚Google Wallet’ application was hacked, as the security key was simply deposited in the memory.

#### A trend are definitely UHF long-range readers?

**Marco Abrahms:** UHF long-range readers are not only used for ‚hands-free’ access control but also to track employees or visitors in a building. In addition to the TSU 100 and TSU 25 readers, deister electronic has also developed a very special dual-technology transponder in the size of a conventional credit card that contains not only a highly secure HF component with Mifare Desfire EV1 or Legic advant but is also paired with a UHF transponder that permits a read range of many meters. The highlight of the card is the specially developed combi-antenna. It has been laid out so when it is being carried on the body, for example as a visible visitor ID, the signal is

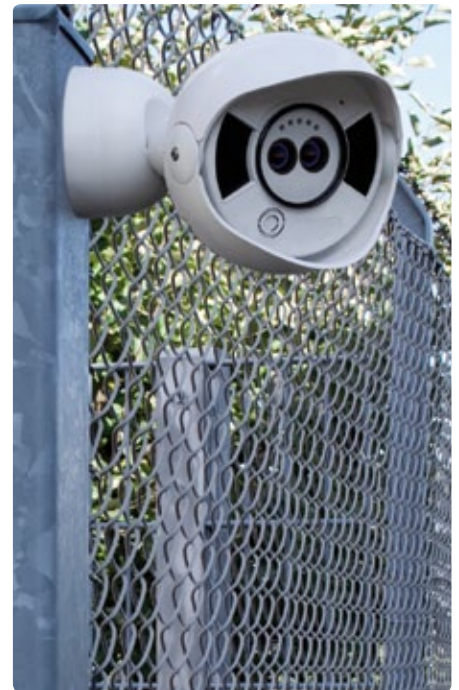
hardly suppressed by the body at all and the visitor can therefore be discreetly identified during his movement through the building by each reader installed in the roof space.

#### Has something been happening with proxSafe?

**Marco Abrahms:** The proxSafe division is offering a completely revised proxSafe flexx family. The customer can choose between five different housings of the flexx products and fit further key panels themselves at any time. This means that an economic starter system can grow over time with demand. The already very comprehensive product portfolio has been extended with a new C6 terminal that is operated via a graphic screen and a touch panel. Target markets that use Cyrillic, Japanese, Arabic or even Chinese characters can thereby be perfectly addressed.

#### ... and with guard tour control?

**Marco Abrahms:** The oldest division of our company is receiving a brand new-developed data collector. The guardiX that has been used to great success to date has been upgraded with two new features. The housing is now water protected to IP67. In addition, there are models that correspond to the ATEX regulations and can be used in petrochemical installations. Devices that fall under the ATEX regulations must be conceived and constructed from the beginning so that the ignition of an explosive atmosphere is prevented



▲ The eyeTWO network camera is equipped with two high-definition 5 Megapixel sensors for internal and external use. They have adjustable eyelids that provide protection from sunlight and other weather conditions.

or the effects of this are suppressed to a satisfactory degree. As both the guardiX and the guardiX II can optionally be fitted with a Bluetooth module, online communication via a mobile phone or a smartphone. To support online applications where guard tour must be supervised in real time to optimally protect people and valuables, deister has set up its own Cloud Service that can be used free of charge to transport data-telegrams from each mobile device to the control center.

#### Let’s move to the tranSpeed division ...

**Marco Abrahms:** The tranSpeed division that forms the basis of all long range readers, presents a new midrange reader, the TSU 200, that permits reading ranges – in parking lots – of up to seven meters. To identify vehicles it is important not just to get the maximum read range, as many players in the market seem to have as their priority. It is rather important to be able to identify standard vehicles as well as high-end vehicles with heat and UV-suppressing windshields at the same reliable read range. Therefore two UHF transponders are specially developed as windshield transponders for standard and high end vehicles with a maximum read range of ten meters. They can be adapted according to the necessary distance of up to five or six meters. So every division has a number of very exciting technical highlights and innovations to offer. We are continuing to ensure that all these divisions can be perfectly combined through interfaces and data protocols.

## ACCESS CONTROL

## A Gem from CEM

## Multi-functional Access Terminal Launched

What other products and developments are currently in the foreground for you?

**Marco Abrahms:** Firstly, the eyewatch camera project that is now coming to market after its first presentation at Security 2010. The eyeTWO all-in-one IP camera has been conceived for external use. It is an intelligent camera; that means that it can be used as an autonomous video sensor. Software that runs in the camera itself – e.g. movement analysis software – can then activate an alarm, sends an SMS or load the images onto the internet. The numerous other features would take up too much space here. We presented the eyewatch camera at the Security show in Essen on a separate booth in the Video Hall. A further focus is the doorLoxx brand. This system provides mechatronic products such as electronic lock cylinders, strikers or modular locks. It was also shown for the first time at Security 2010. We had already received a large order even before the show was over. This kept us busy with doorLoxx for almost a whole year. After successfully completing the project, we converted the already implemented items into series products. Naturally there was plenty of new equipment for the mechatronic expert to look at, at this year's Security event.

What were the main intentions of your presentation at Security in Essen this year?

**Marco Abrahms:** We concentrated this year on the presentation of the new products and solutions that I mentioned before and on the further development of our valued quality. Especially the eyeTWO camera or the doorLoxx mechatronic division lie close to our heart. We believe that both, video technology and also mechatronics have a future in the security market. As with any new product, a lot has been invested, a number of patents have been applied for and thereby good ideas incorporated into innovative products.

Thank you for the interview Mr Abrahms.

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While its parent company offers access control, video, location-based tracking and intrusion solutions to the security industry, CEM itself provides a range of intelligent security management solutions for integrated access control, ID badging, alarm monitoring as well as a range of card readers. Andrew Fulton, the company's Senior Director of Global Sales said, „emerald was designed with high security and flexibility in mind and provides users with a whole new access control experience. Users can now expect a range of new and innovative features such as a scramble keypad for PIN security, an integrated Voice over IP (VoIP) intercom and remote server-based applications that provide users with security intelligence at the door“.

As part of its sleek, modern design, emerald features a bright 4.3" graphical LCD screen with hardened glass and anti-glare coating. This touch screen utilizes capacitive technology and displays a range of predefined messages and icons to cardholders, depending on their privileges and access levels, such as Wrong Door, Lost/Stolen Card, Expiring Card and Access Granted. With a built-in mini PIR sensor, emerald provides energy-saving motion detection and features a unique scramble keypad option for Personal Identification Number (PIN) verification.

Utilizing a built-in microphone and speaker, emerald also provides fully integrated audio intercom functionality at the door. This enables two-way communication between users and security personnel when assistance is required. Security staff can assist cardholders by executing a „Oneshot“ command to remotely open a secure door.

Traditional access control terminals may soon be looking even less intelligent after a recent product introduction by CEM Systems. Part of Tyco Security Products, they have just launched ‚emerald‘ onto the market, an IP reader, intelligent controller and Voice over IP (VoIP) intercom, all rolled into one integrated device.

## Remote Apps

emerald features the ability to run key applications at the door that are remotely hosted on the CEM AC2000 database server. These remote applications act as a security intelligence point and are available to users with specific card holder status. They display real-time security information and statistics such as card status, scheduled visitors, top system alarms and the most recent alarms on the terminal.

Additional applications include ‚First and Last swipes‘ that can be used for time and attendance purposes, ‚Card Details‘ for individuals to determine access levels & card expiry date and ‚Change PIN‘ that allows users to proactively change their own PIN without contacting the system operator. A range of maintenance applications such as ‚Devices with most Alarms‘ and ‚Device Settings‘ are also available that allow engineers to locally diagnose devices and change network information remotely.

emerald supports Mifare (CSN) and DESFire (CSN) smart card technologies and has off-line reader capabilities for up to 250,000 cardholder records. This ensures zero system downtime and provides the highest level of security measures. emerald also has on-board power over Ethernet (PoE) technology which allows the device to be powered using an Ethernet cable.

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## CCTV

## Pew with a View

### Andria Cathedral Video Surveillance Protects Relics

Milestone Systems' open platform IP video management software (VMS) is being used with Sony network cameras by the Andria Cathedral in Italy for security surveillance and to display religious services to congregations sitting in the chapel and side naves to the central church.

The Cathedral of Andria rests in the Puglia Region of Southern Italy, an artistic and historic treasure for which a video surveillance system was requested. Dating from the 12th century, the cathedral contains a famed precious relic of The Holy Thorn, believed to be from the Crown of Thorns forced on the head of Christ before his crucifixion. It also holds the tombs of two wives of Emperor Frederick II of Swabia, Yolanda of Brienne and Elizabeth of England, as well as a 13th century icon of the Madonna and a 15th century bust of Francesco II del Balzo, Duke of Andria, attributed to the sculptor Francesco Laurana.

Given the importance of the building and its historical treasures, church authorities commissioned a special technologically advanced surveillance system for the main goal of monitoring the premises during night conditions. Side benefits were quickly found for faithful visitors of the services.

#### Dual Purpose

The Andria Cathedral was equipped with 32 Sony video cameras, fixed and pan-tilt-zoom (PTZ) models from the SCN-DH, SCN-CH and SCN-EP

ranges. These are both high definition (HD) and Full HD. Thanks to special infra-red LEDs, the cameras achieve night vision even in pitch darkness. The video from all the cameras is archived in Milestone XProtect VMS and viewed live through a XProtect Smart Client interface. In addition to serving as daytime and night-time security video, the system allows church-goers in the lateral naves to see the religious functions held in the presbytery and side chapel, displaying the high quality live images of the services to the adjacent areas.

The images are relayed to six 40" screens attached to the central columns of the cathedral, which can also be video-projected in a large adjoining chapel. The system can furthermore be used to show DVDs, audio/video guides, cultural and tourist presentations - a benefit that is much appreciated by visitors.

#### Wholly Reliable

„Operating in sites of major historic and cultural significance is especially satisfying, all the more so in cases like this where the religious dimension is deeply important,“ explains Alfredo



Donadei, Senior Channel Account Manager, Video Security at Sony Europe. „The solution was installed in the cathedral by Tecnoimpianti Pizzolorusso, with whom we have a long-standing collaboration. The system stores all the video surveillance data in a special server, managed by Milestone XProtect Professional software. For even greater security and data management, the server has been equipped with 4 hard discs of various capacities, configured in RAID modality.”

„The church authorities are extremely satisfied, not only with the security performance of the system, but also with the extraordinarily good quality of the images transmitted,” say both Gianluca and Francesco Pizzolorusso, owners of Tecnoimpianti Pizzolorusso. „We chose the Sony cameras for their outstanding image quality, unobtrusive equipment and unbeatable price-quality ratio.” The system was engineered and supervised by Ing. Pasquale Losito.

#### ► CONTACT

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#### License Free Network Video Surveillance Software

Samsung has introduced Samsung Security Manager, a license-free video surveillance management software platform designed to enable its customers to gain maximum benefit from their investment in the company's network cameras, encoders, DVRs and NVRs. The platform's client-server architecture allows for up to 1,152 cameras installed across any number of buildings or sites to be centrally managed, whilst live or recorded images captured by any of the cameras can be monitored by authorized users from anywhere on a network. One of the keys features is an intuitive graphical user interface which allows an operator to choose a display configuration which best matches the number of cameras they need to monitor at any one time. Each configuration, which can include various split screen options in 4:3 or 16:9 display format, can be named and saved for future use. Building or site maps can be im-



ported which can be overlaid with icons representing the locations of installed cameras. The icons can be set up to pop-up if there is a related alarm event, allowing an operator to quickly select and monitor live images from the camera which is nearest to the incident, whilst at the same time having the option to retrieve recorded video of what may have occurred before the alarm was triggered. A real-time event viewer provides an event log which can include a single channel preview as well as comments entered by an operator.

STSecurity@samsung.com

#### Wall Mount Receiver

Nitek's Etherstretch ER8400C Ethernet over Coax multi-port network extender-Gigabit PoE Switch is a Wall Mount Receiver unit that operates with from 1 to 8 ET1500C Transmitter units (sold separately). It allows for the utilization of existing coaxial infrastructure to both transmit IP cameras and other network devices and to power them over the coax as well. The ER8400C Receiver and ET1500C units comprise a system which can

transmit IP cameras over coax and can quickly turn any ordinary RG59U coaxial cable into a high speed network communication & PoE path. When operating over RG59U coaxial cable, the coax network extender system can operate for distances of up to 500 meters. The coax ethernet extender receiver along with the ET1500C transmitters require very little installation time and absolutely no set up or configuration.

www.nitek.net

#### Monitoring Electromagnetic Fields

Introducing the Broadband Radiation Meter NBM-580, Narda Safety Test Solutions offers a new way of installing an electromagnetic field monitoring and alarm system. The device collects the measurement results from up to eight distributed measuring stations and records them continuously, triggering alarms if limit values are exceeded. An economical way to monitor limit values e.g. on transmitting

equipment or in an industrial environment is to use Nardalert S3 Monitors as measuring stations. Running from a DC supply and connected to the NBM-580 by fiber optic cables, these monitors provide continuous measurement values referred to settable threshold values. This means that any limit violations can be immediately detected, reported, and recorded.

www.narda-sts.de





## KEY MANAGEMENT

# Key Control Management in Three Easy Steps

Liability exposure for premises, operations and management is a critical concern of public and/or private businesses. Maximized insurance coverage helps to alleviate much of the risk but there are several additional security practices that business owners can follow to provide peace of mind.



Fernando Pires

An automated key control system is a reliable and cost effective method to improve building security by ensuring that facility keys are properly managed including access, storage and tracking. The automated key cabinets release assigned keys only to users with pre-authorization (finger identification, access card or numerical code), and cannot be manipulated or tampered with. A friendly interface with large buttons and/or touchscreen displays that offer step-by-step instructions for accessing or returning keys to the illuminated key slots make the procedure easy. The unique combination of these key control features along with network capability enables management to better maintain the integrity of the overall building security and thereby reduce liability exposure.

Implementing a key control and management system is a straightforward process that involves three basic steps; take inventory of the facility to identify all access points and installed locks; ascertain the operational needs of employees as well as others who may need access to the facility (i.e. service repair, cleaning crew, etc.); and establish a policy with easy to follow procedures for effective key control and management.

## Step One

The first step is to catalog every access point and every piece of door hardware. This process is followed by management assessing which individuals have keys, which keys they have and which doors they access. Without this preliminary audit, it's almost impossible to know what size and type of key cabinets will best fit your needs and where the key control systems should be located.

System growth should also be factored in at this stage of planning. What may seem adequate today may become insufficient in a year or two. Having the ability to add-on the exact components you need or change modules where and when you need, helps protect your investment. This way you will avoid having to rip and replace an entire key control and asset management system because the current system cannot accommodate lockers for securing cell phones or other valuable items, or does not integrate with a new access control system that's just been installed.

## Step Two

Next, review operational needs to understand how the facility works on a day-to-day basis so that use of a key control and management system is efficiently optimized and daily operations are disrupted as little as possible. Whether intended for a hospital, dormitory, hotel or an office building, having a comprehensive grasp of daily activity will help to implement the use of a key control system and will also help in minimizing the trade-off between security and convenience.

If a networked key control system is planned, a review of the network topology will reveal any configuration and performance alterations that may need to be applied. Compatibility with other security systems should also be reviewed to maximize interoperability for more comprehensive integrated operations.

## Step Three

Finally, a simple but strong set of guidelines for administration and use of the key control system will help to define areas of responsibility and enable better control of the keys. Software-

driven key control systems that allow management of all programming, remote functions and reports help to ensure adherence to the established policies and procedures.

Similar in concept to popular access control systems, the PC-based package of key management software and server helps make day-to-day operations and activities easier and more fluid. Users can be added from a global list and all specific settings (added or modified) will be automatically synchronized across the system. Profiles can be assigned for improved user control and administrative access levels are designed to be tailored to specific needs. Reports can trace key movements by time, date and user code as well as audit reports that track keys in use, overdue keys and inconsistent key usage.

Built-in schedulers can be programmed to automatically download all data to a secure PC as required by the user. With this capability, management can better sort and analyze information to maintain maximum control of access and security issues. Advanced communication capabilities also enable key control systems to be monitored and administered remotely from PDAs or smartphones as well as from the desktop.

Intersec Dubai · Hall 4 · Stand 6265

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## VIDEO SURVEILLANCE

# For the Record

## Grundig Extends Its NVR Range

Grundig has launched a new 4, 8 and 16 channel standalone network video recorder range, further expanding its IP product portfolio. The NVRs have an embedded Linux operating system and provide recording and display speeds of up to 400FPS at Full HD resolution (1920 x 1080 pixels). The Linux operating system has been specially adapted by the manufacturer to provide a secure, stable and reliable platform for security system applications.

The NVRs detect and auto-configure Grundig IP cameras, including automatic IP addressing and video stream configuration. Manual record configuration is enabled using the NVR's graphic user interface (GUI). The NVRs come with a built-in PoE switch that provides peer-to-peer, direct, IP camera connection with simple installation. Combined with preconfigured, preset recording modes for each camera, a complete Grundig CCTV system can be set up and commissioned in minutes.

The GUI supports further system configuration and includes user access management for up to 8 user clients as well as flexible event ac-



tivation by motion, alarm, video-loss and system alerts. Standard functionality includes PTZ control, 'Smart Timeline', 3 click export for backup to USB or FTP, event and thumbnail search, automatic archiving of critical data and remote access.

Connections include up to 16 Ethernet video inputs, HDMI video output, up to 16 IP audio input channels with one RCA output. The 4 and 8 channel NVRs are designed for desk mounting, while the 16 channel NVR can be either desk or 19" rack mounted.

### ▶ CONTACT

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SECURITY SUMMARY

# Every two years ...

... the security community comes from all corners of the world to Essen – and GIT SECURITY was slap in the middle with a newly-designed stand. Security 2012 translates to four days of being astounded by innovation, holding technical discussions, learning from it all – and of course sipping cocktails together with our partners, friends and visitors on the GIT SECURITY stand. Let's take a brief look at it all.



The security industry is doing well – this is confirmed by the mood of many conversations with our editors and by the numbers: the worldwide turnover is estimated to be 100 billion Euro, according to the organizers of Security Essen. Their questionnaires also support the assumption that we'll be seeing this boom for while yet: according to these, 26% of the visitors have stated that their company will spend over 250,000 Euro for security in the next year; 13% want to invest over 1 million Euro. And the decision-makers came to Security Essen to prepare themselves: 82% of trade visitors are involved in purchasing within their organization, according to the Messe Essen. A quarter of trade visitors have placed orders directly at the show. The exhibi-

tors are correspondingly "very satisfied" with the course of the show: over 95% of them are counting on achieving good business after the event.

Not only in Germany is the Security Essen the meeting point for civil security solutions; the show is very international: the 39,000 trade visitors arrived from around 115 countries; the 1,086 exhibitors came from 40 different nations.

### From NFC to Fire Protection

When asked what their most important subjects are, the visitors stated above all securing public places, transport security, perimeter protection as well as security for buildings and systems. New Near Field Communication (NFC) and smart phone-capable security developments were very dominant. These allow cameras and alarm systems to be remotely controlled or doors to be opened by mobile phone without any contact.

The subject of IT security that is ever growing in importance had its own theme park. There and in open sessions the visitors were informed by experts about hacking attacks, cyber crime and protective measures. Exhibitors from the fire protection industry were housed in two halls for the first time. Over 140 companies – a rise of

over 30 per cent – showed their products and services covering technical systems, operational and constructional fire protection as well as fire and smoke alarms and gas warning equipment in two exhibition halls.

Comprehensive reports about the Security event can be found in this and the next issue of GIT SECURITY as well as in our German edition GIT SICHERHEIT – they are also available online at [www.GIT-SECURITY.com](http://www.GIT-SECURITY.com) and [www.GIT-SICHERHEIT.de](http://www.GIT-SICHERHEIT.de), the portals for Safety and Security.



Everfocus: Detlef Schreiber, Corinna Ortman and Dirk Reinders



Acrobats on the Siemens stand

## Cocktails



The bartender on the GIT stand mixed fruity and creative cocktails



Alexandra Paatsch of Atral with the Daitem-Team



Sabina Eibel of Axis





Even more Pictures:  
[facebook.com/GITSICHERHEIT](https://facebook.com/GITSICHERHEIT)



Erik Kahlert: Siemens provides everything – from smoke detector to control center



# SUPER GIT Gewinnspiel



Erika Görgé of Bosch



eyeviz: Eric Henrique and Andreas Beicher



Dominic Jones of Samsung



Wagner stand in Essen



Simone Herold of Mobotix explains the DoorMaster



Rene Rohner, Geutebruck



Amos Brennecke of Videor



Evening stand party: Nicole Huffer of SimonsVoss in the middle of her 'Tegernseer Trachtenbaum'





TAS: Stefan Holzem



The GIT SECURITY team fell into the large plush sofa after the show



Even more Pictures:  
[facebook.com/GITSICHERHEIT](https://facebook.com/GITSICHERHEIT)



Funkwerk: Norbert Meissner and Christian Kaup



Thomas Lang of Geze



Ludwig Bergschneider of Grundig



Martin Wullinger of Genetec



Thomas Bieschke and Claudia Reitz of Gunnebo visiting Kati-na Leonardis on the GIT stand



Hekatron: Stephan Weiss and Andreas Seltmann



Interflex: Ursula Kruse and Andreas Anton Bloom



Christian Leu of Minimax



Tisoware: Sabine Dörr and Rainer Füess



Nienke Bomers of Nedap



Andreas Schneckener demonstrates Heaktron remote access on Integral IP



Waldemar Gollan, Peter McKee and Evan Boyd of Arecont







Pentax: Natacha Brouart and Thomas Feichtner



Sick – Winner of the GIT SECURITY AWARD



Siemens: Matthias Ness, Vera Klopffrogge, Miguel Angel Coll and Christian Schreibweis



Sony: Arndt Badstieber, Chris Vandebrouck and Klaus Middelanis



Sony press conference: Bruno Winnen shows the new Ipela video cameras



Tyco Products: Linda Mansillo Kear and Paul Mildon



EU-SP: Stefan Teuber, Minho Chae (LG), David Hammond



Detlef Witte, MD of Schneider Intercom, Ludwig Bergschneider, MD of Aasset Security and Arne Dehn, Member of the Executive Board, TKH Group, Holland



Carsten Gronwald of Kötter



Tamron: Thomas Osburg, Christian van der Heide, Makoto Ayabe and Hiroaki Arai



Xtralis - Heitel: Daniel Krönke and Rainer Gräfenndorf



SeeTec: Elisa von Auenmüller and Anna Wiegel



Winkhaus: Tobias Bartels



Tyco: Jens von Ebbe, Roland Billeter and Werner Kuehn



Heiko Baumgartner on the Vivotek stand





The GIT publishing team enthusiastically helps with setting up



- Obst- und Gemüse Universität, Deutschland
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- Ruhr Universität Bochum, Deutschland
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Girls in traditional costumes on the SimonsVoss stand

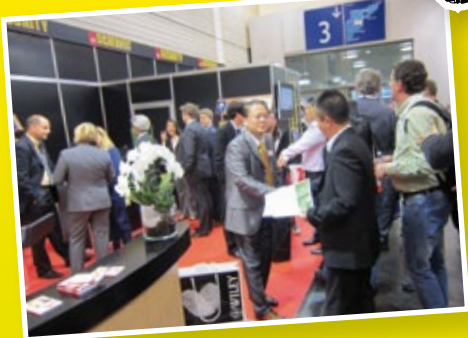


Middle: Nina Kürten of Fujifilm

Björn Westphal from Monaco



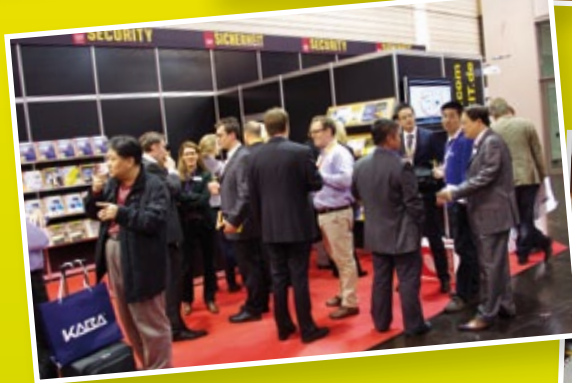
# SUPER GIT



In the middle of action: Ben Chen, our man in Taiwan



The GIT Ladies



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## Events

### Intersec Dubai 2013

Date: January 15–17, 2013

Place: Dubai

Website: [www.interseexpo.com](http://www.interseexpo.com)

### Secutech Taiwan 2013

Date: April 24–26, 2013

Place: Nangang Exhibition Center, Taipei, Taiwan

Website: [www.secutech.com](http://www.secutech.com)

► Secutech is Asia's leading security exhibition

### IFSEC 2013

Date: May 13–16, 2013

Place: NEC, Birmingham, UK

Website: [www.ifsec.co.uk](http://www.ifsec.co.uk)

### Fireprotec

Date: February 27.- 28.

Location: Frankfurt/Germany

Website: [www.mesago.de](http://www.mesago.de)

### Saudi Safety and Security 2013

Date: March 03-06, 2013

Place: Dharhan International Exhibition Center,  
Dammam, Saudi Arabia

Website: [www.sss-arabia.com](http://www.sss-arabia.com)

► The 3<sup>rd</sup> Annual Saudi Safety and Security event is the Kingdom of Saudi Arabia's foremost fire, safety, and security sector exhibition supported by the Department for Civil Defence.

### Security Forum

Date: April 17–18

Location: CCIB Expo, Barcelona

Website: [www.securityforum.es](http://www.securityforum.es)

Ansell	35	IndigoVision	6
Apollo	6, 30, 31, 33	Legic	11
Arecont	11, 29, 36	Merit Li-Lin	12
ASP(Grundig)	25, 49	Messe Essen	50
Axis	40	Milestone	46
AxxonSoft	Title Corner	Mintron	10
Bosch	7, 39	Morse Watchmans	8, 9, 48
BRS	8	Myutron	37
BSIA	8	Narda Safety	47
C-Tec	31	Nice System	22
CEM Systems	45, Inside Back Cover	Nitek	47
Deister electronic	3, 42	OSHA	34
TDSi	11	Primion Technology	10
Epoc	18	Samsung	47, Outside Back Cover
Eyevis	10, 12, 23	SeeTec	6, 41
FFT	6	Sicurit	39
Genetec	6	Siemens	20, Front Cover
Geutebruck	38	SimonsVoss	5
Gunnebo	8	Transec	8
Hikvision	11, 39	Vicon	12
Hochiki	10, 32	ViDiCore	12
Honeywell Security	12	Wagner	31
IMS Research	8	Wavesight	49

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