

MAGAZINE FOR SAFETY AND SECURITY

**GIT**

**SECURITY**

**EMEA**



**Security for Public Transportation**

**Video Management**

**Fire Protection**

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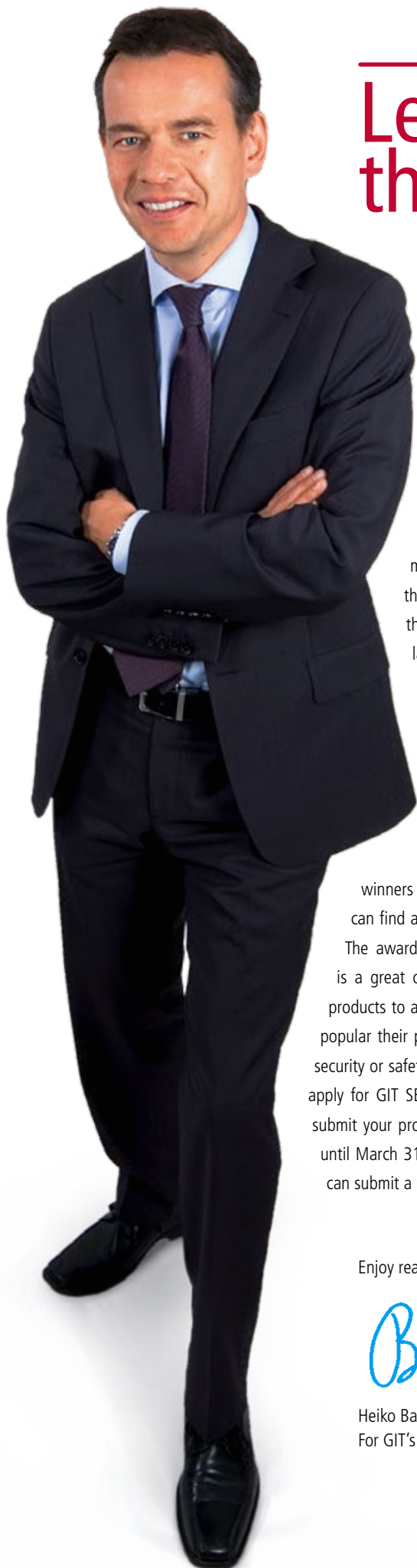


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# Leading the Way



What a start into the new year.

Intersec in Dubai was an amazing show and as you can see in this issue, our team collected a lot of news, product information and opinions at the show for you. At the same time we were very happy with the successful launch of the official Intersec App 2016. Thank you all for the very positive feedback, many visitors and exhibitors were fond of the easy App handling. Big halls with over a thousand exhibitors, visitors, isles like a big labyrinth – on a big fair like the Intersec in Dubai, orientation is key. The Intersec app showed visitors exactly where to go and it provided a modern and mobile overview on the smartphone.

Leading the way to product innovation is the goal of GIT SECURITY AWARD.

Just recently we have announced the winners of GIT SECURITY AWARD 2016 and you can find a presentation of the winners on page 58. The award is going into the next round now and is a great opportunity for the industry to introduce products to an international audience and to test how popular their products are. If you work for a vendor of security or safety products we would like to invite you to apply for GIT SECURITY AWARD 2017 already now and submit your product entry. The registration page is open until March 31 and on page 62 we show you how you can submit a product.

Enjoy reading this issue!

Heiko Baumgartner  
For GIT's Safety and Security team

THANKS FOR YOUR VOTE!



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

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## Automatic Systems is N. American Speed Gate Market Leader

Automatic Systems, a supplier of secure entrance control, is North American speed gate market leader according to the most recent 2015 IHS technology report. In the American market, the company increased its market share by over 4%, taking the top spot with 22.5%, and making it the leading supplier of speed gates for intrabuilding applications there. The IHS technology report entitled "The Market for Pedestrian Entrance Control Equipment – 2015" studies various product types within the pedestrian market, including speed gates, which are defined as equipment enabling authorized personnel to enter restricted areas. The two most popular types are retractable, occupying 38% and swing gates occupying 50% of the North American market. Within this category, Automatic Systems offers both the Smartlane retractable security turnstile and the Slimlane swing door speed gate.

[www.automatic-systems.com](http://www.automatic-systems.com)

## Xtralis Vesda-E Selected by Telstra For Switching and Data Centers

Telstra, a major telecommunications provider in Australia, has upgraded its fire prevention with the Vesda-E, the latest generation of smoke detection from Xtralis. Telstra provides 16.7 million mobile and over 9 million fixed voice and data services, so safeguarding the communication infrastructure is critical. They have been using Xenon and Laser-based smoke detection and fire protection since the late 1990s. Vesda-E is the latest generation of aspirating smoke detectors, with increased sensitivity, less power consumption per unit area, improved expandability and programming, analytics to provide unique particle type characterization capabilities, extensive connectivity and backward compatibility.

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

## Assa Abloy Acquires Cedes

Assa Abloy has signed an agreement to acquire the Swiss company Cedes, a manufacturer of sensor technology to the door and elevator industry. Johan Molin, President and CEO of Assa Abloy, said, "Cedes represents an important step in the strategy of adding more intelligence within our entrance automation business, that has grown from SEK 3 billion in 2008 to more than SEK 18 billion proforma in 2015." The addition to the company's current product portfolio will lead to innovative and integrated solutions combining different technologies that will create new customer benefits. Cedes, headquartered in Landquart, Switzerland, was established in 1986 and has some 340 employees. The acquisition will be accretive to EPS from start. The transaction is expected to close during Q1 2016.

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

## Bosch Sets Up New Company for the Smart Home

The first Bosch smart-home devices, allowing things such as heating and lighting to be controlled using just one app, were presented at CES 2016 in Las Vegas. Future Managing Director of the new Stuttgart-based company Dr. Peter Schnäbele said, "Our solutions relieve users of tiresome routine tasks while offering them more convenience and safety." The new subsidiary will bring together Bosch smart-home activities and offer innovative home management and security solutions aimed at a giant market. According to market experts, by 2020 alone some 230 million homes worldwide will feature smart-home technologies. Bosch believes open standards and open platforms will make the technology as user-friendly as possible, so the smart-home system is modular and expandable.

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

## Safe Smart City white Paper from Euralarm

In its White Paper entitled 'Making Europe's Smart Cities Safe, Secure and Resilient', Euralarm proposes several ways to increase the EU-wide level of security and safety for urban spaces. Euralarm represents over 5,000 companies and national associations in the fire and security industries with an estimated cumulated revenue of 18bn Euro. It urges the European Commission, member states, national and local authorities as well as the EU private sector to join forces in expanding the 'European Innovation Partnership on Smart Cities and Communities' (EIP), and to create a holistic forum for dialog between them. It also calls for recognition of safety, security and resilience as fundamental pillars of Smart Cities, to be reflected in future EU policies, research and funding for urban spaces. The White Paper can be downloaded from the website.

[www.euralarm.org](http://www.euralarm.org)

## Idis Awarded for DirectIP

The DirectIP surveillance platform from Idis was recently awarded highest honors at the first Korea High-Tech Safety Industry Product and Technology Awards, in recognition of the product's contributions to solving the difficult problems, compatibility challenges and connectivity issues facing the network surveillance market. The awards, administered by the Korea High-Tech Safety Industry Association, formally acknowledge accomplishments in technology innovation. Professor Yoon-Sik Choi of Yonsei University, Chairman of the screening committee, recognized the innovation of the DirectIP solution. Using a proprietary IP-based protocol, DirectIP moves beyond auto-discovery to full auto-configuration and true plug-and-play capability.



**Albert Ryu, President and COO of IDIS**

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

## Assa Abloy Acquires Papaiz and Udinese in Brazil

Assa Abloy has signed agreements to acquire Papaiz, a lock company and Udinese, a manufacturer of hardware for sliding doors and windows in Brazil. The acquisitions will significantly increase the Group's product range and footprint in Brazil. "This constitutes an important next step in our strategy to grow in emerging markets", says Johan Molin, President and CEO of Assa Abloy. Papaiz, established in 1952, is located in Salvador, in northeastern Brazil. Udinese, established in 1966, is located in Diadema, near Sao Paulo. Together they add approximately 1,300 employees. Combined sales are expected to reach BRL 200M (approx SEK 450M) in 2016. The acquisitions will be accretive to EPS from start and the transactions are expected to close during Q4 2015.

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

## Analytics Technology Strengthens Axis' Transportation Solutions

Axis Communications has announced the acquisition of Citilog, a provider of intelligent real-time video monitoring for traffic and transportation security and safety, to expand its opportunities in the fast-growing traffic analytics market. Ray Mauritsson, CEO at Axis said, "We are excited to be able to offer our channel partners and end users state-of-the-art analytics tools that work with their existing Axis network video solutions." Citilog is a privately held company with 30 employees, headquartered in Paris, France and offers a suite of video analytics tools and sensors for transportation monitoring, such as automatic incident detection, traffic data collection and intersection control.

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

### OnSSI's Ocularis 5 Fully Integrates with Vicon IQ eye Cameras

OnSSI has announced that its Ocularis 5 Video Management Software now fully integrates with the latest IQ eye megapixel cameras from Vicon Industries, equipped with recently updated drivers. Ocularis 5 is based on a new recorder that accommodates a significantly higher density of cameras per recorder while maximizing HDD storage without the need for user configuration. It features automatic load balancing for managing recordings across system servers and significantly improves network security. "The combination of Vicon's leading IQ eye cameras and Ocularis 5 provides users with comprehensive surveillance intelligence and an improved user experience," said Ken LaMarca, VP of Sales and Marketing, OnSSI.

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

### Flir to Acquire Security and Surveillance Solutions Provider Dvtel

Flir Systems has announced that it has agreed to acquire Dvtel, a developer of software and hardware technologies for advanced video surveillance and a supplier of enterprise-class security and surveillance solutions. The company develops and distributes integrated video management system (VMS) software, advanced video analytics software, visible and thermal security cameras and related servers and encoders. The combination enables Flir to be a full-spectrum end-to-end security system provider, serving the consumer, small and medium business, enterprise and infrastructure-level markets.

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

### Morpho Acquires Mobile Payment Specialist Air Tag

Morpho (Safran) has finalized its acquisition of Air Tag, a French startup specialized in innovative mobile payment solutions. Air Tag develops secure mobile transaction solutions for banks, payment networks and retailers. The company developed Air Pass, a 'virtual bank card' solution using Host Card Emulation technology (to facilitate the use of contactless mobile payment systems) and based on a proprietary tokenization platform involving a single-use payment token, now being deployed by major players in the e-payment sector. By combining their areas of expertise, the two companies will be able to manage the multiple security aspects involved in mobile payments.

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

### Vanderbilt Adds Industry Veteran as Director of Product Lines

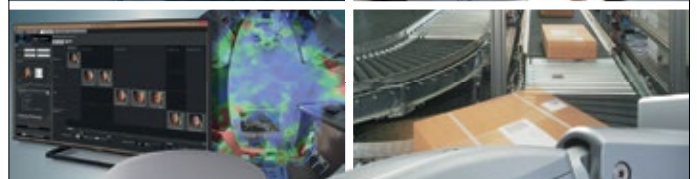
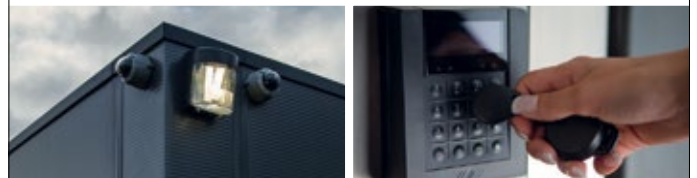
Vanderbilt has announced the addition of Glen Greer as Director of Product Lines. Greer comes with a deep understanding of business and product strategy, and will work closely with the engineering team to improve product development. He is a 25-year veteran of the security industry, serving as President of Radionics (acquired by Bosch), President of Casi-Rusco (acquired by GE) and Vice President of Shared Technologies, Assa Abloy. Greer will be based in Dublin, Ireland, and will work closely with Vanderbilt's Intrusion, Access Control and Video Surveillance solutions groups to identify future product enhancements and opportunities for innovation.



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

# Panasonic BUSINESS

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Visit: [business.panasonic.co.uk/security-solutions](http://business.panasonic.co.uk/security-solutions)

## Nedap trials BIM in the United Kingdom

Nedap started a trial on Building Information Modeling (BIM) with a key group of UK consultants. BIM is a way of working to increase productivity in the building industry, changing the way buildings, infrastructure and utilities are planned, designed, built and managed. Ross Bale, Security Specialist at Nedap, says, "To reduce the risk of errors, it's crucial for architects, planners, consultants, integrators and contractors to work together more effectively. BIM increases effectiveness, by allowing them to visualize the building in a digital prototype and analyze risks before the building is even started. Nedap contributes to this by trialling a level 2 BIM compliant library for access control. We will actively work with the consultant's feedback to improve our BIM library. When it works correctly, we will launch it in the rest of Europe in 2016, to support building partners in working together more effectively."



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

## Xtralis Vesda Aspirating Smoke Detectors at Abu Dhabi Airport Terminal

Xtralis will provide fire prevention at the new Abu Dhabi International Airport Midfield Terminal Building (MTB), scheduled to open in 2017, using their Vesda VLS aspirating smoke detectors. These already protect many United Arab Emirates super structures. The Midfield Terminal Complex will have 700,000m<sup>2</sup> of internal space for the MTB, a cargo facility and restaurant and retail space. The central space could hold three full-sized soccer pitches, has a ceiling 52m tall at its highest point and will include 28,000m<sup>2</sup> of retail outlets and restaurants. Chief among the challenges with protecting the MTB is the massive open space where smoke will be diluted, compounded by air-conditioning systems, as well as a very wide operating temperature range.

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

## Indigo Vision Announce Sales Directors

Indigo Vision announced the appointments of Dean Brazenall as Regional Sales Director N. EMEA, reporting to Marcus Kneen CEO, and Brian John Paoli as Area Sales Director East USA, reporting to Lopez Martin, Senior VP Americas. With over 20 years experience in security technology and solution sales, Dean brings proven skills in building sales teams, market demand and sales revenues. Prior to joining Indigo Vision, he spent 4 years with Avigilon. Brian John Paoli brings over 30 years experience in security technology and solution sales. Brian previously spent 7 years with Avigilon and was most recently with DVTel.

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

## Milestone Appoints Hikvision as Elite Partner

Milestone Systems, the open platform company in networked video management software (VMS), has elevated Hikvision to the status of Elite Partner in the Milestone Camera Partner Program (CaPP). The ongoing relationship between the two companies has been evolving over the past several years, and this announcement demonstrates the solidity of an already close partnership. "To achieve Milestone Elite level status a camera partner must demonstrate commitment in achieving maximum return on investment for our joint customers through superior product knowledge and a focus on long-term customer satisfaction," said Henrik Sydbo Hansen, Head of the Camera Partner Program at Milestone.

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

## Flir and DJI Collaborate on Drones with Thermal Imaging Capability

Flir Systems has announced a new technology collaboration with drone industry player DJI Innovations. The companies also announced plans to develop their first joint product: the DJI Zenmuse XT stabilized camera featuring Flir's Tau 2 thermal imaging camera core for DJI's Inspire 1 and Matrice aerial platforms. This will expand the possibilities for commercial drone operators and infrastructure inspectors and bring new capabilities to dozens of commercial applications, including search and rescue, firefighting, agriculture, wildlife protection and the inspection of energy infrastructure, bridges and buildings. It can see in complete darkness, measure temperature remotely and see through obscurants like smoke, dust and light fog.

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

## Revised IHS Forecasts for EMEA Access Control Show New Opportunities

In the most recent IHS country-level analysis for Europe, Middle East and Africa (EMEA), countries where the market for access control equipment is mature (i.e. France, the UK and Germany) experienced only minor volatility in 2015. The relatively untapped French market will continue to be a target market for international suppliers through 2019, especially for electronic locks. Largely due to the recent terrorist attacks in France, securing access to public places and accenting citizen safety in that country has become a priority. Development of governmental systems for access control is likely to receive backing from both the public and the parliament; however, short-term growth is not expected for government applications. The Russian market contracted by 5.3% in 2015 and will shrink by another 1.9% in 2016.

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

## Vicon Opens New Office in Dubai

Vicon Industries, designer and producer of video security systems and high-performance IP cameras, continues to expand its global presence with the opening of a new United Arab Emirates (UAE) office located in the city of Dubai. The office, which officially opened on Sunday, January 10, is home to sales professionals and emphasizes the company's commitment to developing strong partnerships and providing local sales support in the important Middle East market. "We are very excited about expanding our presence in the Middle East," said Mark Provinsal, MD of Vicon EMEA. The office will be managed by Jalil Neghza, the International Sales Director for Vicon Middle East, and he oversees experienced staff with in-depth knowledge of IP products.

[www.vicon-security.com](http://www.vicon-security.com)

## New BSIA Study Confirms UK's Security Sector Performance

A study from June 2015 on the development of statistical data on the European security technological and industrial base has shown that the UK's security sector is in a promising era of growth. The study, commissioned by the European Commission DG Migration and Home Affairs, aimed at obtaining a clearer picture of the technological and industrial base of the European security industry. From these results, the outlook for the UK's security industry looks very positive. UK turnover has grown more than any other Member State, with 35% of UK respondents citing that turnover has increased by more than 25% over the past 5 years. The UK's security industry can expect growth of 16% over the next 5 years, well above the average growth rate of 10%.

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





## Networked Security: Congress with Experts from Fraunhofer

Strong interest in the fair for civil security and fire prevention technology is already emerging with over 1,000 exhibitors expected at Security Essen 2016 to present their products and services. Registration is well up, also in the area concerned with digital security. Over two thirds of exhibitors will show solutions relating to digital security technology, and cyber security will play a decisive role in this respect. This year, there will be a separate congress on networked security for the first time. Experts from the Fraunhofer Institute for Applied and Integrated Security and from the Berlin Institute of Computer Science will draw up scenarios for possible digital attacks.

[www.messe-essen.de](http://www.messe-essen.de)

## New Director of Strategic Alliances at SeeTec

Since January 1<sup>st</sup> Albert Unterberger (53) is responsible for the initiation and management of strategic partnerships in European project business as well as for the development of new vertical markets in his new position as Director of Strategic Alliances at SeeTec. Unterberger reports directly to the SeeTec management board and joins as a designated specialist looking back on nearly 30 years of experience in the video management and analytics industry. Before joining SeeTec, he was in a leadership position at IPS, a manufacturer of video management and analytics solutions based in Munich and a business unit of Securiton. Andreas Beerbaum, Managing Director of SeeTec and responsible for sales and product management, is happy about the new team member: "With Albert Unterberger we succeeded in winning an experienced specialist with the required background and with a wide professional network throughout the industry."



[www.seetec-video.com](http://www.seetec-video.com)

## Zambia Police Service Installs Automated Fingerprint Identification System

Morpho (Safran) announces that it has signed a contract with Zambia Police Service for the supply and deployment of its latest AFIS (Automated Fingerprint Identification System) platform, MorphoBIS. Morpho will also provide live capture enrolment stations and mobile fingerprinting devices at provincial headquarters across Zambia. In order to enable the solution to be operational in the shortest possible timeframe, the Zambian Police Service and Morpho will scan the existing paper fingerprint forms, and their associated demographic information, into electronic format as part of the project. Additionally, Morpho will provide comprehensive training, warranty and maintenance services for 5 years after the system is deployed. [www.morpho.com](http://www.morpho.com)



## Security Institute Recruits 2000th Member

Garry Evanson CSyP, Chairman of the Security Institute smiled broadly as he announced that the organisation had now crossed the 2000 member threshold. "In the past 18 months we have been recruiting at record levels and this reflects our strategic shift towards representing members of the profession at all stages of their career, not simply when they have reached the higher branches of the tree" he explained. "In the past I believe some people may have been deterred from seeking to join us because of the perception that we were in some way elitist and that one had to wait to be invited in order to become a member; that's simply not the case, as this landmark achievement shows"

[www.security-institute.org](http://www.security-institute.org)

## New Version of Software Offers Seamless Integration

Bosch Security Systems has just released Bosch Video Management System (Bosch VMS) 6.0, a new, more open version of its digital video-management software. Bosch VMS was originally designed as the optimal software for managing the full range of Bosch video hardware features. Version 6.0 now also offers seamless, end-to-end integration with selected third-party cameras and video-data storage systems, as well as other hardware and software solutions, for example, third-party video walls and third-party video analytics. Bosch VMS 6.0 scans for third-party cameras, automatically configuring motion and other key events; it also enables installers to configure the most important settings for third-party cameras from a single user interface, without the hassle of having to access the websites of other camera manufacturers.



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

## Biometric Tablet for Egyptian Parliamentary Elections

Safran (Morpho) contributed to the organization of the Egyptian parliamentary elections, whose results were officially announced on December 4th, 2015. For the third time in two years, the government has deployed biometric MorphoTablets to secure the voting process. The MorphoTablets were used to organize different stages of the process, including registration of voters and verification of their ID cards, in order to determine the eligibility to vote. In total, 2000 MorphoTablets were deployed, together with Morpho front and back-office applications, including all training, logistics for operating the MorphoTablet inside the voting stations. MorphoTablet is a mobile biometric solution which can be deployed for large-scale enrolment or registration purposes. It is a versatile and user-friendly touchscreen device, which captures biometric data (fingerprints and face) to verify the identities of users. Easily deployed in the field, MorphoTablet reads contact and contactless smart cards and communicates through Bluetooth, Wi-Fi and cellular networks. [www.morpho.com](http://www.morpho.com)

## Milestone: X-Protect 2016 Launch at Intersec

Milestone Systems has released a new version of the XProtect VMS product suite for partners and customers. The announcement for the EMEA market was held at Intersec in Dubai on January 17th. XProtect 2016 empowers control room operators in high security installations to proactively respond to incidents. This advanced video wall is a collaborative canvas, enabling them to collectively assess a situation. They can share alarms, images, maps and bookmarks, in addition to live video using XProtect Smart Wall 2016. Organizations are also in greater control of their surveillance investment, as XProtect 2016 boasts a number of features designed to reduce the overall cost of ownership. [www.milestonesys.dk](http://www.milestonesys.dk)



## Vivotek: Middle East Branch Office in Dubai

Vivotek announces the establishment of its Branch office in Dubai, United Arab Emirates. Aware of the strong business growth in Middle East markets, Vivotek started preparing for the establishment of a branch office in this region in 2014. Dubai, with its friendly investment environment and location adjacent to several Middle East countries, was chosen as the base for supporting Vivotek's expansion in Middle East.

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

## Vehicle Identification Solution at Intersec 2016

Nedap Identification Systems and Axis Communications developed an integrated solution based on Axis' physical access control products. This solution combines long-range identification with physical security devices and will officially be introduced to the market during Intersec Dubai, 17-19 January. Nedap's Transit Ultimate is a robust long-range identification reader, based on semi-active RFID technology, enabling automatic vehicle and driver identification at distances of up to 10 m (33 ft.). This high-end reader is available as a standalone solution, taking advantage of the open architecture of the Axis A1001 IP-based network door controller that features embedded access management software. Nedap's uPASS readers offer long-range vehicle identification using the latest UHF technology.



[www.axis.com](http://www.axis.com) · [www.nedap.com](http://www.nedap.com)

## Siemens Inventors of the Year Award 2015

No heat build-up in data centers: Dr. Pornsak Songkakul's software unites building automation and IT management, pushing down the cost of cooling server rooms. Dr. Songkakul, who at Building Technologies in the United States, has just been honored as a "Siemens Inventor of the Year" for his creative achievements. Siemens has been presenting the Inventors of the Year Awards annually since 1995 to honor the organization's outstanding researchers and developers whose inventions make major contributions to the company's success.



**Inventor of the Year 2015,  
Dr. Pornsak Songkakul**

The greater the volume of data a server processes, the more heat it generates. That is why data centers consume a lot of energy to keep their operating rooms cool. Now, an invention by Dr. Pornsak Songkakul (57) can determine at precisely which server racks the ambient temperature is already elevated. Then the server management system is advised to automatically transfer new computing loads to servers located in the area where the ambient temperature is deemed most suitable to handle new heating load. This smart building automation technology can reduce the enormous amount of energy consumed by data centers. Sensors measure the temperature at multiple locations in the server rooms, even directly at the racks. His patents are among the first to address interfaces between the building automation system and the server management system. The patented techniques will be offered to data center customers in the very near future and he reckons they will increase reliability of server operation while at the same time reduce energy costs. The amount of the energy reduction will depend heavily on the size and the age of the data centers.

[www.siemens.com/buildingtechnologies](http://www.siemens.com/buildingtechnologies)

## Increased Security Measures at French Rail Facilities

The installation of security screening equipment on the Thalys high-speed service between Paris and Lille in northern France was in the wake of the recent violence in the region, including the attacks on satirical magazine Charlie Hebdo. The Thalys train from Oignies to Pas-de-Calais France was also equipped subsequent to the most recent attacks at the Bataclan and other locations in Paris. The decision to install passenger screening equipment at these rail facilities by December 20, 2015 was implemented on schedule and could have a ripple effect throughout the region, as the Schengen agreement comes into question, resulting in more demand for explosives, weapons and contraband detection equipment (EWC). Despite the current threats to passenger rail systems in Europe there have been no widespread installations of passenger screening equipment within the Schengen Zone countries to date. Currently the only rail service requiring passengers and their baggage to be screened is the United Kingdom's Eurostar system, which lies outside the Schengen Zone, but provides regular service to member countries. This does not appear to be the beginning of "airport-style" security at rail stations, and Europe's rail stations will not adopt this style of screening, for the following reasons: More than three billion passengers travelled by rail in Germany, France, and Belgium in 2014, compared to more than 1.7 billion traveling by aircraft throughout Europe. The sheer number of rail passengers makes it difficult to impose airport-style security in the rail industry. The number of rail stations far exceeds the number of airports in Europe. In Germany for exam-

ple, there are only 33 large airports, but there are 122 main rail stations. The cost to install, maintain, and monitor checkpoint screening equipment at the major German airports is immense and the cost to provide the same level of security at German rail stations would be higher still. There are 5,417 railway stations in Germany, ranging from large international hubs to small, rural platforms. The prospect of installing security screening equipment at only category-one rail stations, which are central hubs or intersections of important railway lines, is a daunting prospect. Based on the average selling price of baggage and parcels x-ray equipment (\$99,775.00) and walk through metal detectors (\$2,164.00), if the 21 largest stations in Germany each had five security checkpoints with one baggage and parcels x-ray machine and one walk-through metal detector, the total cost for equipment alone would be \$10.7 million. Although the recent installation of screening equipment in France addresses the threat of possible attacks against the Eurostar and other high-speed trains, the majority of rail passengers travel via commuter trains, with thousands of unoccupied platforms. Furthermore, the current deployment format of screening equipment at rail stations only addresses the threat of an attack on the train itself and not the railway station. There are few secure areas at rail stations, and creating such areas would require significant reconstruction of most main stations, which makes the large-scale adoption of security checkpoint equipment at European rail stations an unlikely prospect.

[www.technology.ihc.com](http://www.technology.ihc.com)



## Cool Solution for Lynas Foodservice

At the Firex International 2015 exhibition, Patol announced its appointment as the distributor in the UK and Ireland for the Securiton aspirating smoke detection (ASD) system range. Now FSP Security Systems, a Northern Ireland based specialist in commercial fire and security systems, has deployed one of the systems in a project for Lynas Foodservice. FSP Security Systems was employed to deliver a fire detection solution for the new outlet, including the particular challenges presented by the low temperatures of the chiller and freezer. FSP representatives visited the Patol stand and were impressed by the capabilities of the Securiton 535-1 technology, coupled with the extensive experience that Patol has in providing fire detection solutions for a wide range of industrial and commercial applications. [www.patol.co.uk](http://www.patol.co.uk)

## Victoria Police with New Criminal Identification System

Morpho (Safran) were selected for the provision of additional biometric capability to Victoria Police, Australia, allowing front line police to collect and check identity information quickly and accurately. Morpho will refresh the current fleet and increase the number of fingerprint and face capturing stations (LiveScans) up to 92 at Victoria's police stations across metropolitan and remote locations. This one stop Kiosk will integrate Fingerprint, Palmprint and facial capture in one solution providing significant efficiency gains. Victoria Police's facial recognition capability will almost quadruple in capacity. Under this contract, Victoria Police is increasing its fleet of fingerprinting capture equipment by an additional 20 stations for greater coverage across the state. This will raise the percentage of electronically captured prints in Victoria well above 90% providing real time identification. [www.morpho.com](http://www.morpho.com)



Genetec has signed a distribution agreement with EET Europarts for the Nordic countries. As part of the agreement, EET Europarts will distribute the entire Genetec portfolio of IP-based VMS, Access Control, ALPR (Automated License Plate Recognition), and cloud-based security solutions in Sweden, Denmark, Norway, Finland and Iceland through its extensive network of certified integrators and resellers. [www.genetec.com](http://www.genetec.com)

## Genetec: Distribution Agreement

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## INTERVIEW

# Safe in Buildings

Siemens Building Technologies Strengthens Security Solutions Business

By June 2015 the Siemens Building Technologies Division had concluded the sale of its Security Products business to the renowned U.S. security company Vanderbilt. In the September issue of GIT SICHERHEIT we introduced Vanderbilt Industries, which took over the former product business of Siemens. Siemens Building Technologies is now focusing more than ever on developing comprehensive, integrated security solutions for its customers. At division headquarters in Zug, Heiko Baumgartner took the opportunity to talk with **René Jungbluth, head of the worldwide Solutions and Service portfolio** as well as strategy, about the reorientation.

**GIT SECURITY:** Mr. Jungbluth, can you tell our readers what motivated Siemens to sell the Security Products business, which supplied hardware for intrusion detection, access control and video surveillance?

**René Jungbluth:** Some time ago we reached the conclusion that our former Security Products business was no longer strategically essential to Siemens and that it would be better for us to focus on comprehensive, integrated security solutions for our customers. We then began to look for a buyer for the business and found Vanderbilt at the beginning of the year. However, this strategic move in no way means that Siemens is looking to exit the security business. On the contrary, security solutions are a fundamental pillar of our offering. Now our focus clearly lies in the development of security solutions for companies and their buildings and infrastructures, starting with office buildings for multinational firms all the way to critical infrastructures such as airports and energy suppliers.

**But solutions still need advanced security products. Where do you purchase them once you have designed a solution?**

**René Jungbluth:** We are continuing to augment our traditional strengths in the solutions business in building technology, and naturally we need products for that. But we have shifted our focus to software-based products. We are still offering our own security products, for example from our broad Surveillance portfolio and our Desigo CC building management platform. As far as hardware is concerned, such as intrusion detectors and video cameras, we procure the best and most cost-effective products on the market for our solutions. Our former products business, now owned by Vanderbilt, will remain a key supplier to Building Technologies for the long term. In the past, we found it extremely difficult to stay ahead of the technology curve in all areas of the widely diversified security products market, adapt the technology for the various regions and maintain the right distribution and sales

channels in all countries. That's why we gave up manufacturing and developing security hardware. On the other hand, the market for fire safety tends to be homogeneous, even though the requirements differ based on country-specific regulations. So we will continue to sell our own products in fire safety as well as in building automation. In contrast, the market for security products is too fragmented.

**Are there other reasons for concentrating on solutions and, on the product front, on software, fire safety and building automation?**

**René Jungbluth:** The line that used to clearly separate fire safety, security and building automation systems is rapidly disappearing. Convergence was and still is an important topic for us. Physical security practices in buildings are increasingly IT-heavy, and it's the IT- and IP-based solutions that are driving convergence. Particularly in medium and large installations, existing IT infrastructures need

to be integrated and utilized to a greater degree so business and security systems can be run in parallel. By concentrating on integrated software solutions, we are accommodating this trend. In hardware products, we had to carefully weigh where we could expect future business to be good, and those who offer mass-produced products for a wide public have a definite advantage. But that was not the core of our production, and we didn't see our strengths and future in that direction. Our solutions are better established in the high-end market and call for customized, state-of-the-art and intelligent products in all areas.

#### What does the future product range look like?

**René Jungbluth:** Our customers demand integrated, end-to-end emergency and building automation solutions as well as services that generate security and added value. Our Total Building Solutions include such integrated solutions, which cover numerous disciplines: electrical installations, heating, ventilation and air conditioning, lighting, access control, video surveillance, alarm systems, fire safety and evacuation. Our job is to find complex solutions for the customer that at some point also include products. We have recognized that the added value we can offer our customers lies not primarily in individual products, but in our solutions and integration expertise.

#### How do you approach a project?

**René Jungbluth:** Simply put, we start by studying the building and analyzing the situation of the operator. What does the shell of the building look like, what function does the building serve, how is it subdivided and what is the situation on each floor? Often a manufacturing or high-security area like a data center or a sensitive production facility needs to be taken into consideration. Of course there are differences to consider. Is it a single office building or a campus infrastructure? Are there corporate security requirements? Are we dealing with a critical infrastructure, including perimeter protection? What all projects do share is that everything is combined into one system. In more simple buildings or a campus structure, our Desigo system can be used; for corporate security across locations, Siport is a better choice; and for critical infrastructures like power plants, ports and airports, we can use our Siveillance portfolio. Scaling customer solutions to actual needs and the ability to supply everything from a single source are concepts that Siemens Building Technologies applies throughout its business, not just in security. Once the analysis is finished and we know which system is most suitable, we turn to selecting the components for the video technology, access control, intrusion detection and fire detection technology. We look for products that are best suited to the

task – be they our own or from third parties – and leverage our consulting expertise in the selection, integration and installation of the software.

#### What advantages does working with Siemens Building Technologies offer?

**René Jungbluth:** The fact that we are a global organization is a major advantage for most customers. That's particularly important for corporate security across multiple locations that need to work with one system and a consistent concept. As a global company we offer truly global solutions. Furthermore, our background allows us to talk with customers about both physical security and IT security. Only a broad-based supplier like us, one that has moved away from the product paradigm and gathered the relevant experience inside our own firm, can do that. At Siemens we face the same challenges, with our various and far-flung divisions, different R&D departments, production sites and security challenges, and we solved them. What also sets us apart from other suppliers is the fact that we are an integrator that offers platforms ourselves and we are deeply involved in consulting. We help choose the ideal system, integrate the systems, and network everything to ensure optimal operation of all systems.

#### Siemens Building Technologies has over 400 branches throughout the world. Still, isn't it difficult to appear equally competent in all areas of security in every country and for every customer? How do you deal with that organizationally?

**René Jungbluth:** Of course it is a difficult task. Organizationally we set up centers of competence in a number of regions – Germany, Europe, America, the Middle East and Asia – that specialize in the various aspects of the Siemens Building Technologies business. Our strategy is universally transparent and the centers are tightly networked. The centers of competence work together with the local subsidiaries on specific customer requests in order to develop customized solutions that incorporate local know-how and expertise in specialized fields.

#### The more you focus on solutions, the more you need to rely on partners. What is your philosophy in that respect?

**René Jungbluth:** You're right; we can't do it alone. We depend on those partnerships. For video management, for example, we work closely with the VMS partners and have already developed special solutions.

#### Siemens is known on the market for its strength in working with large, international

#### firms. How are you pursuing this latest approach based on attracting small and medium-sized companies using new solutions?

**René Jungbluth:** We are certainly better known for our Siveillance solutions, which are usually deployed in Fortune 500 companies. Over the last few years, however, we have succeeded in positioning Desigo in the medium-range market segment. The Desigo CC building management system can unite very different systems and manage the essential disciplines in a building centrally, such as SiPass for access control, a video management system like Desigo Video and a fire detection system. This type of system can completely cover the requirements of many customers, and it continues to be at the core of our business. A Desigo system is also easy to integrate into a more comprehensive Siveillance system at a later time once security requirements grow or become more global in nature. With Desigo CC, we cover end-to-end building management for an office or even a campus and network many individual locations – even globally, if the customer so desires, with our Siveillance portfolio. That is how we support a globally standardized and cost-efficient security culture within a company.

#### What other trends do you see besides growing integration and convergence on the part of the customer?

**René Jungbluth:** Many companies are increasingly asking about the benefits of systems beyond security. They need help in securing their complex business processes and want more than just a security system. They want to know how to build security into their processes. We also see that more and more managers are taking their weighty security responsibilities to heart. They are well aware what it means if production failures loom, IT systems collapse or accidents occur, and in the worst case, they are personally called to account. Risk awareness at the CxO level is growing. Subjects like evacuation, voice alarming and emergency plans are more important than ever, and people have come to appreciate the peace of mind that comes from moving in a secure environment, having done everything necessary to minimize the risks. Comfort and security for employees and business continuity under all circumstances pay off every day.

## CONTACT

Siemens, Building Technologies Division

Zug, Switzerland

Tel.: +41 41 724 24 24

[www.siemens.com/buildingtechnologies](http://www.siemens.com/buildingtechnologies)

## INTERVIEW

# Authentication with Mobile Phones

Interview with Kai-Dietrich Wolf, Head of the Institute of Security Systems (ISS) at the Bergische Universität Wuppertal

The Institute of Security Systems (ISS) at the Bergische Universität Wuppertal focuses on fundamental technical and social questions surrounding the protection of people and infrastructures. Professor Wolf is head of the ISS. He studied mechanical engineering and mechanics at the Technical University in Darmstadt and the UC Berkeley in California. Since 2009, he has been a university professor at the Bergische Universität Wuppertal, where he lectures in the field of mechatronics and security technologies, as well as design for reliability. Professor Wolf is chairman of the Innosecure congress committee ([www.innosecure.de](http://www.innosecure.de)). Our scientific editor Heiner Jerofsky asked Prof. Dr. Wolf about his work at the ISS, mechatronics, NFC applications and their importance for security technology.

**GIT SECURITY:** Mr. Wolf, your institute is located in Velbert/Heiligenhaus, which is situated in one of Germany's key regions, where well-known companies in the lock industry have been established for many decades. Do you work with these companies and what are the advantages of this sort of partnership?

**Kai-Dietrich Wolf:** We work with some companies from the region and sometimes also on publicly funded projects. In all cases, we always benefit from sharing ideas and information with companies. Many of our colleagues know a great deal about security, which amounts to real expertise. We want to anchor our research on security tech-

nologies in the scientific landscape. For this reason, we need this know-how to develop methods, which are used to assess technologies and answer the question: "How secure is it?" Ultimately, this enables us to improve products as well as security.

**Which strategic research fields provide a focus for you and your work at the institute?**

**Kai-Dietrich Wolf:** We distinguish between fundamental and applied research. The fundamental questions are concerned with assessing security: We develop quantitative methods for assessing the security of infrastructures or buildings. We assess technological protection measures, so that

you can objectively compare, as an end result, whether a combination of doors, lock systems, gates, fences, surveillance and alarm equipment, etc. would be better than a different combination. We therefore show security in terms of figures, which helps to minimise risks in a cost-effective way. These approaches can help to protect critical infrastructures, such as the electricity, water, gas supply or telecommunication networks, as well as companies or public institutions, more effectively in the future. As part of our applied research, we examine new power solutions, such as shape memory alloys or highly energy-efficient and, if required, battery-free systems. Shape memory materials have great potential for providing power, for

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Kai-Dietrich Wolf,  
Head of the Institute  
of Security Systems (ISS)  
at the Bergische  
Universität Wuppertal

example, for locking mechanisms. This can result in new products, if you are open to the use of new technologies. It goes without saying that these developments are also publicly funded. Authentication with mobile phones, NFC or Bluetooth is a very exciting field, in which we are amassing knowledge. We have been observing developments for a long time and see major opportunities for some companies in the sector to secure their futures by means of new products and services. At the moment, we are working to secure public funding for innovations as part of a larger consortium.

**One of the characteristics of technological changes in the lock industry is that conventional mechanical components are increasingly being combined with electronic components in mechatronic systems. For example, these systems use biometric methods or transponders for access authorisation. How secure are these systems and in which areas are there still concerns regarding their use?**

**Kai-Dietrich Wolf:** Of course, the new technologies also have their weak points. But I would not say that any overriding concerns exists. First of all, the new systems are more user-friendly. If you do everything right with the cryptography and storage of biometric data, the systems can be used without hesitation. However, if you invest in these components in order to extend your product range, you need to understand how these systems work. Wireless authentication should be encrypted, for which tried and tested standards exist. The entire company really needs to address this issue, in order to correctly assess risks. At the moment, we have not yet reached a point, at which we "understand" things fully, and this leads to uncertainty.

**Access to buildings and vehicles without keys has been becoming increasingly widespread everywhere for a long time. Which transmission**

systems are used for this purpose and what are their advantages and disadvantages?

**Kai-Dietrich Wolf:** For non-mobile technology, RFID systems are generally used for wireless authentication. It works with passive transponders, such as chipcards, over short distances. Battery-powered active transponders also make it possible to bridge longer distances, which you will have experienced, for example, when you use your car key, which is actually a transponder. Proprietary standards apply in this field. The following applies: If you use the technology correctly, there are really only advantages. In fact, proprietary standards developed in-house for cryptography are always worse than standard processes, such as AES. But tried and tested standards can be certainly be made proprietary by means of add-ons. In some cases, this is even recommended. The challenge is often to conduct secure authentication with as little electronic equipment and energy consumption as possible. In this field, "embedded security" experts are greatly in demand.

**NFC technology is currently preferred by some lock manufacturers. What must the user remember when he opts for this type of contactless data communication with short distances between the lock and authorised person? At what distance does the NFC technology work? How viable and secure are local and Cloud solutions?**

**Kai-Dietrich Wolf:** When we talk about NFC technology, we are actually referring to the NFC interface, which is now used in most smartphones. NFC is therefore not new, but is used, for example, to make contactless payments with credit cards. The smartphone can almost be used as a chipcard, as well as a reader for passive NFC tags. At the same time, the smartphone makes it possible to share data over the mobile phone network, so that locking authorisations can be changed or data can from the lock system or car can be read and made available to the customer. At the same time, the NFC interface only works across distances of a few centimetres. This is a advantage in terms of security, but a disadvantage for some possible applications. For example, Bluetooth or the Bluetooth Low Energy (BLE) variant can be used with a longer range. I think NFC is intuitive for the user, as the communication partners are clearly defined when the reader device or tag is touched. In terms of data traffic and administration of locking authorisations, different schools of thought exist. I prefer "secure end-to-end" solutions. This ensures that user data can only be processed by the service provider, such as a lock system manufacturer, on behalf of the user, who will generally also be a user. Data transmission is then a service, for which the customer also has to pay.

**Do valid standards exist for NFC applications?**

**Kai-Dietrich Wolf:** NFC is an RFID standard, which also works with passive components. As often happens, there are more standards than you could ever wish for. Perhaps it would be useful to quote an example: An NFC-capable smartphone makes it possible to read and write on a Mifare Classic card. This also enables you to create additional passive media with the smartphone, if required.

**For which applications will NFC have completely replaced "conventional" keys in the future?**

**Kai-Dietrich Wolf:** It is a matter of convenience. Chipcards or transponders are already widely used in companies and public buildings or leisure facilities and, in my opinion, they will not be replaced so quickly and completely by mobile phones. Nor will we soon be waving goodbye to car keys for our own privately owned cars. NFC with mobile phones results in greater convenience when several users quickly require authorisations, which, for example, might only be valid for a limited period. In the hotel and infrastructure maintenance sector, however, conventional keys are being replaced. In the private sphere, the benefits become clear when new service models, such as delivery, cleaning or care services, require access to people's homes, including for variations of "Assisted Living". Mobility resources are also increasingly shared by several users. In this case, it makes sense to use mobile phones as keys, for example, if residents of an urban district share vehicles. We then speak about "sharing economy" in the wider sense. Using mobile phones can be very useful for accessing resources in this context. At the same time, interesting new business models are beginning to appear for companies in the sector.

**How do you see the development of smart home technology and networking of home automation/household devices with security technology? How can evidence of transactions and access be obtained?**

**Kai-Dietrich Wolf:** Let's start with your second question: Comprehensive documentation is used, which you can request from your service provider. Of course, you do not want information about how you use your household appliances, which is used to sharpen your advertising target group profile, to end up with out-and-out data leeches, so I would not want this. For this reason, I prefer secure end-to-end solutions and am happy to pay for secure data transport and a secure (trusted) service. When I think about the networking of my household appliances, I therefore look forward to greater convenience and sovereignty of my personal data.

**Do mechatronics and IT communication also create new and dangerous opportunities for attackers?**

**Kai-Dietrich Wolf:** Yes, this is the case. But, as already mentioned, I would say that we should not have any overriding concerns. IT security is a very well researched subject, but we also have to apply the secure solutions. This calls for knowledge, which is currently not universally available. It becomes dangerous if you fall behind the current technological standards. It is therefore a race between defenders and attackers. This was no different in the mechanical era, but perhaps we are now experiencing a period of more rapid development in this field.

**How does the online management of NFC-controlled locks work?**

**Kai-Dietrich Wolf:** This must be the most important question. Many experts have thought about it and written down precisely how the different stakeholders have to interact, so that the administration of authorisations functions securely. We are talking here about a TSM ecosystem. TSM stands for trusted service management. The TSM platform plays a central role in the networking of stakeholders, so that every service provider does not have to enter into contracts with each mobile phone operator or smartphone manufacturer. The distribution of roles and processes in a TSM ecosystem are defined on the global platform and include many other services, such as payment or ticket services for local public transport, football stadiums or concerts ([www.globalplatform.org](http://www.globalplatform.org)). It is important that sensitive data, such as access authorisations, is stored in a secure location or secure element, which is a kind of electronic safe. The correct administration of authorisations for access to a secure element on the smartphone also makes it possible to create a secure end-to-end solution. Software solutions also exist, which provide a certain level of protection. The TSM ecosystem therefore becomes a basis for many new business models, once roll-out of the TSM platform is complete. This technology is driven by payment applications for smartphones. At the same time, we are certainly not at the forefront of developments here in Germany. I have the positive impression that we are hopefully taking the time to make wise decisions concerning security and data sovereignty issues.

**Many thanks for your informative answers and clear explanation of these new innovative technologies.**

The interviewer was  
**Dipl.-Verw. Heiner Jerofsky**  
**Senior Police Officer (retd.)**





## Aeris and G&D Cooperate on Secure Connectivity

Aeris, a pioneer in the Internet of Things (IoT) market and Machine-to-Machine (M2M) communications, and global technology provider Giesecke & Devrient (G&D) have entered into an agreement enabling Aeris to remotely manage its deployed IoT devices. G&D will supply Aeris with special plug-in and embedded SIMs and the corresponding Over-the-Air (OTA) management of the data contained within those SIMs to effectively support the Aeris cellular network designed and built exclusively for the IoT. The ability to remotely manage its devices optimizes Aeris' IoT and M2M solutions across a wide range of international industries.

[www.gi-de.com](http://www.gi-de.com)

## Open Standard for Offline Access Control

The Open Security Standards Association (OSS), a forum working towards open standards in electronic access control, has announced its new offline access control system standard. This interoperability standard for 'Data on card' will be known as the OSS Standard Offline and is designed to give confidence to customers faced with a rapidly developing and diverse market for electronic access control products. Offline locks are not connected by a cable to an access control system, but access rights are read from a compatible smart card written by the system. Each offline access control manufacturer has its own approach to writing and reading smart cards, but now customers installing components that meet the OSS Standard Offline are guaranteed interoperability, also with Assa Abloy's battery-powered Aperio Offline cylinders and escutcheons. They will read the same access rights from a card and interpret them in the same way, giving customers freedom of choice in OSS-compliant offline locks. "We were formerly using the SOAA standard, but decided together with Nedap, primion, dorma+Kaba Group, Deister, ACS and others to found the OSS Association and to drive open standards" says Matthias Weiß, Aperio Product Manager.

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

## Admin Tool Upgrade

With PService3 Dallmeier presents a new version of its configuration and administration tool for the company's Video IP systems, which is now even more powerful, structured and flexible. It scans the video network for Dallmeier devices, automatically detects them and displays them in an overview. If desired, it provides a list of camera previews, filtered according to various criteria. Recording systems and cameras can all be conveniently administered. The user interface has been revised extensively and is characterized by a completely modernized and clearly structured design which provides more clarity.



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

## Strategic Partnership for High-quality Indoor LED Walls

eyevis, the German manufacturer of visualization systems for professional applications, and Unilumin, the Chinese manufacturer of LED displays, have announced their cooperation, fittingly in the run up to ISE. The strategic partnership will manifest itself in a new product line, eyevis Epanels 'powered by Unilumin'. The premium product, consisting of modules with a pixel pitch of just 0.9 mm, will celebrate its world premiere at ISE and will be presented in a 3.7m by 2.1m LED wall with 4K resolution. All Epanels are designed to be used indoors where high resolution video walls with small pixel pitch are in high demand.

[www.eyevis.de](http://www.eyevis.de)

## 7K HD Pro Camera

Avigilon's new 7K (30 MP) HD Pro camera provides situational awareness along with the clarity to see every detail. The camera provides the coverage area of over 99 traditional VGA resolution cameras and delivers



detailed images even in extreme lighting conditions. It keeps storage and bandwidth requirements low through seamless integration using patented High Definition Stream Management (HDSM) 2.0 technology while providing an image resolution of 7360 X 4128 pixels. This camera will cover wide areas for situational awareness and zoom in for evidential details.

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

## Access Control and Security Technology for Retail Stores

The Norwegian Telenor Group, a mobile operator with 179 million mobile subscriptions, a global workforce of 33,000 employees and representation in 27 countries, is among primion Technology's most important customers. Over the last ten years, all Telenor locations in India, Serbia and Montenegro have been equipped with primion solutions for access control and centralized alarm management with integrated third party security solutions (IP CCTV, IAS and a handset anti-theft solution). These control and visualize access, monitor the mobile phones and other electronic equipment on display and, through central administration in the psm2200 Control Center, provide a security and operational overview. Telenor has now awarded the contract to extend the system to Bulgaria.

[www.primion.eu](http://www.primion.eu)

## Megapixel Cameras to Address Community Vandalism

Sherwood Lake Club is a 330 member private residential community located in Southwest Topeka, Kansas. Neighborhood Watch is active in the community, and some residents have also installed video surveillance systems on their property. Tom Thomas' original four-camera system was gradually upgraded to high-definition analog cameras but poor image quality affecting facial recognition and night time image issues remained. Recordings were of insufficient quality for prosecution purposes. New infrastructure he installed presented the option of adding IP Arecont Vision AV-3226PMIR Megaview 3-megapixel cameras, which provided the solution to the image quality issues. They now provide 360-degree, high resolution coverage of Mr. Thomas' one-acre lot.



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

## Compatible Panoramic Cameras and PTZ Domes

Pelco by Schneider Electric announced that its Optera range of panoramic cameras as well as Spectra Enhanced high-speed PTZ domes are now compatible with version 5.3 (SR3) of the Genetec Security Center. Jonathan Lewit, Director of Business Application at Pelco by Schneider Electric said, "These integrations provide security professionals with better situational awareness by leveraging the panomersive experience and the full analytics capabilities in both Optera and Spectra Enhanced cameras." Improved motion detection responses, with motion indicator bars now visible in the Security Desk time line, simplified tools for security investigations, the ability to display multiple cameras simultaneously and sharing of select Automatic License Plate Recognition (ALPR) data feature.

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



## COVERSTORY

# Lock in the Change

MobileKey from SimonsVoss: Access Control for Small Offices

While there is something quaint about having a massive brass key in your hand that will open a tall, creaking church door, the everyday keys that we all use for house doors, garages and sheds have no such appeal. Locking and unlocking cars with electronic remote control keys, however, has long been standard practice, so it is perhaps surprising that the convenience of these fobs has not generally been extended to normal doors until now. SimonsVoss has introduced the MobileKey system that redresses the situation.

◀ Any Internet-enabled device  
can be used for administration



▲ The stylish cylinder fits well in both  
contemporary or classic surroundings

The German electronic lock manufacturer SimonsVoss, a brand of Allegion, recently advanced into the largely neglected small office/home office (SOHO) market with its secure digital access solution: the MobileKey access system. This not only provides smaller systems for the many office spaces in private homes, but is also of the right dimensions for installation in doctors' and lawyers' practices, architects' studios, consultancies, advertising agencies and other commercial enterprises.

The product line is suitable for systems of up to 20 doors and 100 users. The web-based system makes it simple for users to benefit from the advantages of intelligent, electronic locking in a small system with few doors and offices because of its easy-to-operate features.

### Secure, Digital

Like large systems, the elegantly designed 3060 locking system consists of digital cylinders in doors opened and closed by transponders, using either

a PIN code keypad or a smartphone. Authorization allocation, time schedules, logging or remote opening can be managed using the web application on any terminal device. The simple app also allows the end user to create accounts and generate locking plans, transmitting data to the SimonsVoss server, where the information is added. The locking plan is then sent back to the app and uploaded onto a compact programming device. This takes the familiar form of a USB flash drive, with which users program their cylinders and transponders.

SimonsVoss operates its own web service to calculate data, hosted by an audited Munich-based data center. This ensures that processes are far more secure than mere local storage on a personal computer, thanks to end-to-end encryption.

### Quick Installation

The system is designed for easy installation, allowing MobileKey to be put into operation in just a few steps. This even applies to replacing existing mechanical door cylinders with electronic ones,

since no cabling or special tools are required, thanks to radio technology. There's no need even for a drill. The electronic cylinders are equipped with several intelligent functions and are virtually maintenance-free due to their extremely low energy consumption. Integrated sensors in the cylinder monitor the status of a door and record every change. Open, locked, dead bolt drawn in or extended, locked once or twice, open too long – all essential information is reported in real time.

Creating a custom-configured locking plan is as easy as setting up an email account. The user simply registers at [my-mobilekey.com](http://my-mobilekey.com) on any web-enabled terminal device and activates their account. The locking plan is now created using the set-up agent. The individual doors, garage doors, barriers and other access points are given appropriate identifiers. Access authorizations and restriction can be allocated to individual persons using time zones. Users are then able to control who has access to different rooms and for how long, and event logging lets you see who accessed which rooms and when.

The whole locking system is ready for use as soon as the system has been custom-configured with the free app. Instead of mechanical keys, users can choose between a digital transponder, a PIN code keypad or opening and closing their doors using their smartphone. There are also digital SmartRelays that can be used to operate devices such as lights, heating and other electrical appliances as well as electrically operated doors, gates and barriers.

The SOHO user can make changes as they wish, adding or removing keys and locks at any time. If a transponder is lost, it can be instantly disabled at the click of a mouse. A replacement is configured just as quickly and is then instantly ready for use.

### Startups

Apart from different types of digital cylinders, SimonsVoss also provides two starter sets: Mobile Starter Set 1 contains three transponders and the USB programming device, while Mobile Starter Set 2 also includes a PIN code keypad.

An online addition to the MobileKey system will also be available in October 2016. This online version will connect networked locking components directly with the server via a SmartBridge, with system equipment and authorization changes implemented practically in real time. This version will additionally enable doors to be opened remotely, allowing users to open the door for colleagues, delivery staff or other valid persons from a distance.

### CONTACT

**SimonsVoss Technologies**

Unterfoehring, Germany

Tel.: +49 89 99 228 0

[marketing@simonsvoss.com](mailto:marketing@simonsvoss.com)

[www.simons-voss.com](http://www.simons-voss.com) · [www.my-mobilekey.com](http://www.my-mobilekey.com)

## PRODUCT DESIGN

# When Form Meets Function



Modern security systems not only have to perform well, they have to look good too. Andrew Morgan, Marketing Director at Vanderbilt, explains how security and access control products have evolved from utilitarian commodities to integral parts of a building's décor.

**Vanderbilt SPCK520 Compact Keypad is slim, stylish and feature packed and with touch key technology ▼**



In a highly competitive security market manufacturers need to do everything they possibly can to get the consumer's attention. This doesn't just mean creating products that feature robust and reliable technology to prevent issues such as unwanted alarms – they must also make sure that their creations are aesthetically pleasing and complement modern buildings.

## A Design for Life

We all appreciate good design and our lives are constantly influenced by it. With its revolutionary impact on the intersection of design and technology, security system manufacturers have had to take notice of Apple. Due to the success of the company's products – specifically the iPhone and iPad – it has completely and irreversibly redefined our expectations of how technology should be designed. Apple is an exemplar of the notion that good design does not need to be overstated and, on the contrary, should often go unnoticed and blend seamlessly in the environment to become a natural part of life.

Interior designers all over the world invest a significant amount of time and energy creating environments that perfectly match their clients' needs. Whether it's a sleek and stylish minimalist space or a grand function room, details are obsessed over. Designers instinctively understand that the finished article is the result of hundreds of small, carefully made decisions and therefore anything that impinges negatively on their vision will not get their attention.

The modern workplace is no different and a great deal of attention is given to ensuring that employees have an environment that is comfortable, functional and allows them to be as productive as possible. Employee wellness is a growing issue and companies are seeing the benefits of investing in spaces that allow employees to be fit and healthy – both in body and mind.

Workplaces also have to accommodate the requirements of an increasingly diverse workforce and according to a UK report called *The Future of Work*, published by the UK Commission for Em-

ployment and Skills (UKCES), by 2030 4G workplaces – in which there are at least four generations of workers – will become commonplace as people delay retiring and continue to work even until their 80s.

## Point of Principle

This all means that the products used in buildings need to fulfil certain operational and aesthetic requirements. In the early 1980s world-renowned German industrial designer, Dieter Rams, felt that the world of design was starting to falter and since he was well respected in his sector, decided to do something about it. He set about expressing the most important principles for what he considered good design.

Rams claimed that good design is innovative and makes a product beneficial by satisfying certain criteria, not only functional but also psychological and aesthetic, and disregarding anything that could possibly detract from it. He also claimed that good design is unobtrusive, as

products that fulfil a purpose are like tools – they are neither decorative objects nor works of art and their design should therefore be both neutral and restrained, to leave room for the user's self-expression.

As well setting new standards in detection sensitivity, Vanderbilt's Magic Mirror detector is configured with these elements in mind and suits the requirements of architects who do not want obtrusive products to have a negative impact on their designs. It has an optional chrome back box which allows more complex decorative finishes to be reflected resulting in a less obtrusive presence from the detector itself.

Continuing this theme, the technical design within MAGIC results in a completely flat front ensuring that if required the unit can be recessed into a wall reducing the impact on a flat surface to a minimum. One aesthetic consideration has resulted in a benefit that aids intruder deterrence. By ensuring that every detector in the range has the same or similar look it is impossible to tell the detection technique in operation.

This has proven to be an effective deterrent and thanks to their inconspicuous design, the detectors are suitable even in formal spaces. Magic Mirror's innovative and attractive design was recognised with a Red Dot Design Award – the international product design and communication prize awarded by the Design Zentrum Nordrhein Westfalen in Essen, Germany, to honour innovation, concepts and visions.

### Looking Good

Rams also claimed that the aesthetic quality of a product is integral to its usefulness because products are used every day and have an effect on people and their wellbeing. At first glance his idea that good design uses as little design as pos-



**Magic Mirror detector: Architects not want obtrusive products to have a negative impact on their designs**

sible appears contradictory. However, anyone with an Apple device will appreciate his view that less is better because it concentrates on the essential aspects, and products are not burdened with non-essentials. Likewise, having a product that is easy to understand makes the most of the user's intuition and allows the device to clearly express its function.

The Vanderbilt SPCK520 Compact Keypad is a good example of this approach, so much so that it was recently given a prestigious iF Design Award. Slim, stylish and feature packed and with touch key technology, it has just four soft keys that allow easy operation with a minimum number of steps. Status information and 'next step' prompts

are clearly displayed on the large LCD, which only lights up when touched. Various mounting options and accessories provide a complete keypad interface, which offers complete ease of use.

In the not too distant past, manufacturers believed that making products as complex as possible somehow added value. Fortunately, things have moved on and Rams' opinion that products should be honest by not attempting to manipulate the consumer with promises that cannot be kept has come to the fore.

Although products should always incorporate state-of-the-art technology, he held the view that innovative design always develops in tandem with innovative technology, and can never be an end in itself. This thinking is exemplified in Vanderbilt's AR41S-MF MiFare smart card reader, which is designed for use in today's, bright clean interiors has a high quality backlight keypad with tactile operation, as well as a graphical LED display to maximise user interaction.

### Point of Differentiation

Particularly in new build projects, architects hold a great deal of influence and security and access control products have to complement a wide range of design styles. Gone are the days when technology alone would be the main purchasing criterion, products must now be aesthetically pleasing and designed to suit the needs of a diverse array of users.

### CONTACT

#### Vanderbilt

United Kingdom

Tel.: +44 203 630 0670

info.uk@vanderbiltindustries.com

http://uk.spiap.com



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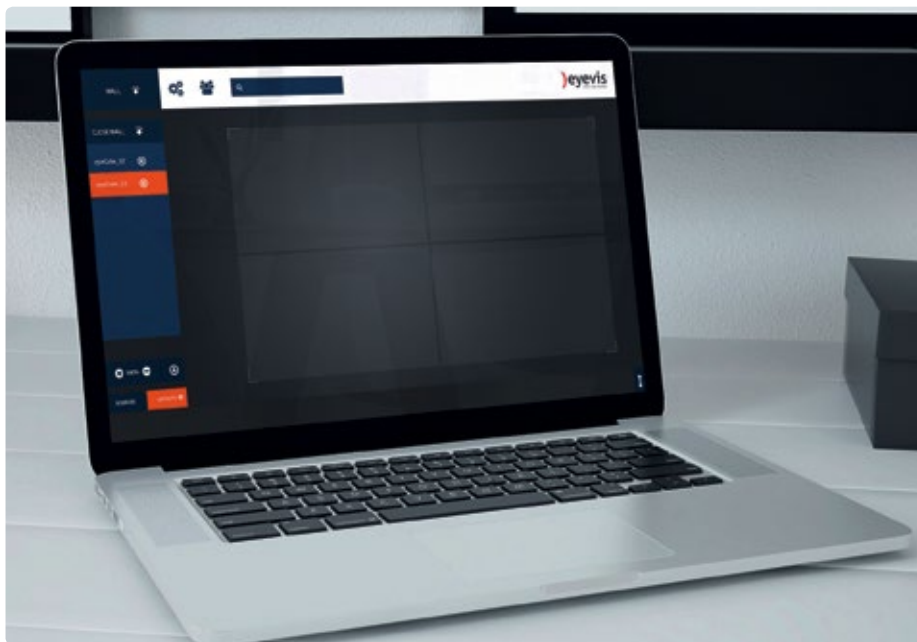
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## CONTROL ROOMS

# A Wall for All

## Eyevis Introduces Open-source Video Wall Management



The multi-platform app requires just a HTML5-capable browser and a Java application server

As an open-source project, it is available free-of-charge to all users and can be adapted to specialist wishes and needs by Eyevis, the client or third parties. The new software covers all standard functions of modern control room software. Due to its open-source concept, however, it remains open for individualization and the integration of future developments.

### Cross-platform and Modular

The modern and lean architecture of the solution comprises four software modules, which can be combined with one another depending on the form of application. The central unit `unify.core` runs on a Java application server on Linux, Windows or MacOS. An interface with any browser is provided through `unify.ctrl`, which makes it the web front-end of the wall management software. This enables literally any device in the network with an HTML5-capable browser to access EyeUnify. Its operation is fully independent of the chosen platform. Thanks to its responsive, touch-optimized surface, even tablets or smartphones can be used for the wall management of an entire control room without any additional apps.

Together with an SSL encryption, the software is run via a secure connection, which enables operation via the Internet. The number of clients in the network is freely scalable thanks to this operation in a browser.

Third-party devices such as media controllers can remotely control the entire wall management via `unify.link`. Lastly, the `unify.exec` module calculates the image content to be displayed – either centralized on a netPIX graphics controller or decentralized on every single display with an OPS-standard Eyevis processing unit (EPU). All modules communicate with each other on the web via so-called SOAP interfaces.

### Open Source for Maximum Benefit

EyeUnify is placed under GNU General Public License as free software. "Open source is becoming more and more important in the development of professional solutions due to its multiple advantages for the user," Kai Schönberg, Director of IT Development at Eyevis, justifies the step towards an OS platform. "Users with high security standards appreciate the additional transparency, provided by disclosing the source code." Further advantages are the low entry costs and the flexible adaptability: apart from Eyevis, system integrators, retailers and even tech-savvy clients can develop software add-ons, interfaces or features themselves. The product can evolve continuously, and will do so in the same direction as the changing market requirements. In consequence of its open source philosophy, all EyeUnify users will benefit from all further developments. Furthermore, the company runs a community platform in the web where users can swap ideas, inform themselves and find handy tips.

Eyevis has launched its new professional wall management software, called eyeUNIFY. The modular, web-based concept of the software works across platforms, different operating systems and a freely scalable number of clients.

### Tailor-made Service and Support

Naturally Eyevis offers graded support contracts and development services, supporting the client to the desired extent. "Whoever requires optimum adaptation of his or her system to their current individual needs can benefit from our know-how by calling on our development services or service and support," Kai Schönberg adds. "Thanks to this strategy, this is a wall management tool that will remain future-proof and adaptable."

EyeUnify was programed to be resource-efficient. Due to its push notifications concept, the monitor wall responds to changes with a nominal latency of just a few milliseconds. At the same time, it only produces network traffic when changes are actually implemented. Kai Schönberg comments: "We have supplemented our product range with a lean and flexible solution that is suitable for many new installations and has benefited from our longstanding expertise in professional visualization solutions. Our comprehensive wall management software, EyeCon, a universal high end solution with extensive functionality for the operation of large-screen systems, continues to be available of course."

### CONTACT

Eyevis

Reutlingen, Germany

Tel.: +49 7121 433 030

[www.eyevis.de](http://www.eyevis.de)



New Cameras and more Features are challenging video management software

VIDEO-MANAGEMENT-SOFTWARE

# Smart Drivers

## Integration of New Camera Models in a VMS – with Manufacturer-specific Generic Drivers

The transition from analog to IP has also significantly changed the world of video cameras. The range of different definitions and additional functionality available, such as video analysis, has expanded enormously. But how do you integrate new camera models efficiently into video management software? Andreas Conrad, Head of Product Management and Marketing at Seetec talks about 'Smart Drivers'.

The transition from analog to IP in the video security market has led to a noticeable increase in the variety of products. In the hardware alone, instead of just a few analog camera models there are now whole series of devices offering differing levels of definition and additional functions.

And numerous new hardware brands have now established themselves, alongside the already well-known manufacturers, that offer special products for specific market segments or applications. Further diversification can be expected because of the constant development of technology. A topical example of this is the wave of powerful cameras with 4k resolution.

### Integration of the variety

While this variety of products provides the customers with a wealth of new opportunities, it results in a challenge for the providers of video management software to be able to integrate an ever increasing range of products, from ever more hardware manufacturers, in an ever shorter time.

Although generic standards such as OnVIF provide a certain amount of relief, they are mostly a sort of 'lowest common denominator' that can enable the basic connection of cameras and en-

coders to display and recording equipment, but often only partially support special functions such as camera-based video analysis, for example, and sometimes even not at all. It is exactly this additional functionality, however, that provides the camera manufacturer with his competitive advantage and frequently also the purchase decision criteria for the potential customer.

### Generic Approach

Many VMS manufacturers have in the meantime shifted to providing driver releases for new cameras between their major software releases in order to keep pace with market developments. This approach allows customers to benefit earlier from the latest hardware developments. A condition for this is the individual integration of each device by the VMS provider.

As one of very few providers, SeeTec goes a step further and offers so-called 'Smart Drivers' that use a generic approach. These drivers are not linked to specific camera models but instead support all cameras of a firmware or a model generation of a particular manufacturer by interrogating the camera for its specific list of available functions. If further camera models within a series are

launched after a general video management software release, they can as a rule be recognized and operated by the existing driver.

### VMS Manufacturers, Customers and Installers Benefit

The advantages are obvious: for the VMS manufacturer the pressure of integration is reduced and he can apply available technical resources to the implementation of new, innovative functionality. The customer benefits from the early availability of the functionality of new products.

The process is simplified in many cases also for the installer: instead of having to choose the specific camera model, just the manufacturer or model generation is sufficient. And, as the functions that are available are read out directly from the camera, the chance of incorrect configuration is also reduced.

### CONTACT

SeeTec

Bruchsal, Germany

Tel.: +49 7251 9290 0

info@seetec.de · www.seetec.de



**Thomas Lausten,**  
Vice President  
EMEA, and **Kenneth  
H. Petersen,** Chief  
Sales and Market-  
ing Officer at  
Milestone Systems

## VIDEO MANAGEMENT

# In Control

## Launch of the New Milestone XProtect Platform Is the Start Into a New Area

2015 was an exceptional year for Milestone, the first year after the acquisition through Canon and a very successful year with outstanding growth rates especially in the EMEA region and the US. The new year has now started with the biggest launch ever of the new XProtect VMS platform. At Intersec in Dubai, Lisa Schneiderheinze and Heiko Baumgartner had the opportunity to talk to Kenneth H. Petersen, Chief Sales and Marketing Officer at Milestone Systems, and Thomas Lausten, Vice President EMEA, about the product launch and Milestone's marketing and product strategy.

**GIT SECURITY:** Thomas, at the press conference you mentioned how great the last year was for Milestone. In which areas did you see the most interest?

**Thomas Lausten:** We have seen great interest in all markets with the greatest growth in the Middle East where we could enhance our local footprint especially in Saudi Arabia, Dubai and South Africa. Three new Milestone offices have been opened in Beirut, Jeddah and Johannesburg. The success for Milestone MEA has risen by more than 30 percent, as the area embraces our partner-driven business model, which ensures customers a local presence with a global connection. Our success is the result of an investment in the best talents and the expansion of our partner network. We have acquired about 70 new persons in the EMEA region last year and have now established a great network

of local sales and service teams in all regions. This gives us also a closer contact to the end-users and we do get a better feedback from them. To get instant feedback from our partners, we have also created new beta-lab testing for Milestone Solution Partners (MSPs). This gives developers a first look at new integration options, new features in the VMS product suite and the possibility to engage directly with the Milestone development teams. The feedback helps us to further enhance the VMS and MSP integrations.

**What are the results of the partner and customer feedback?**

**Kenneth H. Petersen:** We have realized that we need to be even faster than we have been before. We need a rapid development cycle for our video management software that will enable nimble re-

sponse to changing market needs. New features support fast system deployment and enhanced daily operations. Like in other IT companies, a networked and mobile mindset is crucial. The fast-paced changes in our world make short product development cycles a necessity. In response to feedback from our partner community and the end-users, we have made extensive enhancements to XProtect software that allow us frequent product releases.

**How do you change your release policy in the future?**

**Kenneth H. Petersen:** We will have three core VMS product releases every year in addition to the bi-monthly device pack releases for supporting third-party cameras. The multiple yearly release schedule will ensure that we can rapidly respond



to market demands, with a more frequent time-table enabling implementation of new features and enhancements to existing product capabilities within a very short lead time. The XProtect 2016 release is the largest-ever development effort for Milestone.

**Before we talk about the 2016 release, what else has changed in Milestone's strategy after you took over the position as Chief Sales and Marketing Officer last year?**

**Kenneth H. Petersen:** We have seen in the past, that we need to be clearer in messaging the market. All XProtect products are compatible with more IP cameras, encoders and digital video recorders than any other VMS manufacturer's products, giving our customers the freedom to mix and match hardware to fit their needs and budget. Freedom of choice can mean a tough decision is needed. It is important for us to help customers to choose the right product. Customers that have complex high-end surveillance projects distributed across multiple sites need a system that is adaptable and offers supreme situational awareness and ultimate system reliability. Other customers also need a flexible and reliable solution, but for them, ease of installation and ease of use as well as a cost-effective solution are the key features they are looking for. We will address the different target groups with more targeted messages, specific support and a precisely fitting product offering.

**You have described the 2016 release of the new XProtect VMS platform as the biggest launch ever. What can your customers expect?**

**Thomas Lausten:** The goal was to maximize the business value of our VMS for partners and customers, to enable them to be "In control like never before". Our users benefit from an improved system performance, optimized incident handling

and video enablement. Improved system performance is secured through the hardware decoding that enables the use of the latest 4K/UHD camera technology and improves video rendering performance dramatically. An extended system monitor gives real-time overview of system status to enable proactive service. The rich smart wall content from alarms, images, bookmarks, maps and more improves incident response time and operational focus. XProtect 2016 is introducing push notifications that notify a remote user of an alarm and in the other direction, video content can also be pushed from the mobile device's own camera to XProtect, to share and document incidents wherever they are.

**What has changed on the analytics side and how far are you with the access control integration?**

**Thomas Lausten:** We have worked hard on the business extensions of XProtect. Milestone XProtect LPR and XProtect Access, formerly called XProtect Access Control Module, have been further improved. XProtect Transact 2016 for retail solutions has been further integrated with the XProtect Smart Client to make investigation of incidents more efficient. Video-enabling an access control system has never been easier with XProtect Access 2016. As a fully-integrated part of the XProtect Smart Client, operators can now make more informed decisions and conduct more efficient investigations by combining access information with video – all in one interface.

**The administration and installation of software tools can be quite a challenge. How do you help you partners here?**

**Thomas Lausten:** Improved system deployment and customer operations were another focus of the 2016 release. Our license handling has been

simplified to facilitate faster installation and easier updates. Off-line systems now have far more elasticity in licensing without needing to be online. Smart Connect makes it easy to set up mobile users. The Customer Dashboard online remote system monitoring enables proactive service by Milestone partners to ensure optimum operations, and this has been extended in XProtect 2016 with the ability to document maintenance history and system performance. The numerous enhancements let users harvest all the benefits of an easy-to-use, efficient video system that is able to upgrade for any future needs.

**You have presented the new ONVIF bridge. Is this tool aimed to improve the integration of your VMS into bigger security management or PSIM systems?**

**Kenneth H. Petersen:** I think first of all, it is a proof for true openness. As one of the first VMS vendors, we are introducing an open ONVIF interface to access cameras and recordings in XProtect VMS and Milestone Husky systems. ONVIF Bridge makes an XProtect system look like a collection of ONVIF cameras to other VMS and security management systems. This gives seamless private-to-public video integration, simplifying large-scale, multi-vendor security deployments. The ONVIF Bridge gives a standardized interface for alarm centers and monitoring stations for a unified operator experience across systems. This is another confirmation of the power of true open platform technology.

## CONTACT

### Milestone Systems

Broendby Copenhagen, Denmark

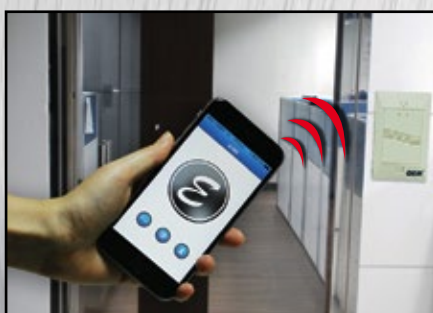
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## GEM E-Access

### Bluetooth Access Control Reader



Proximity Reader

**Your Phone  
is Your Key!**

EVENTS

# The Right Guide

Official Intersec App – by GIT SECURITY:  
Clever Companion for All Intersec Participants

Together with the show organisers of Intersec in Dubai the GIT SECURITY team successfully launched the official Intersec App for Dubai. Many visitors and exhibitors were fond of its easy handling.



From 17 to 19 January 2016 Intersec presented the latest products and trends of 1,200 exhibitors from about 50 countries. Over 27,000 visitors attended the largest event for Safety & Security in 2016.

And the Official Intersec App developed by GIT SECURITY, official partner of Messe Frankfurt Middle East, was a great success. With a few clicks visitors found all necessary information about exhibitors and the trade fair itself – digital and

mobile. Fast access was granted with the overall search function. The “My Intersec” area on the app was highly appreciated by the users to plan their personal visit, as well as the theme tours and the news feed. Many thousands of uses and more downloads prove the app to be a useful navigation tool for MENA region’s leading trade fair for Security, Safety and Fire Protection.

Big halls with many thousands of exhibitors, visitors, isles like a big labyrinth – on a big fair like

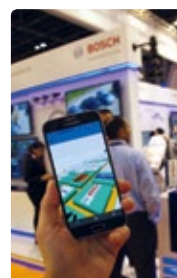
the Intersec in Dubai, orientation is key. The Official Intersec App showed, and will also do at the next Intersec 2017, the visitors exactly where to go – and it provides a modern and mobile overview on the smartphone about what’s hot. All what was and is a “must see” at Intersec. With a 3D floor plan, highlights, theme tours, many note and contact options and more. Clearly structured according to main topics the exhibition app was and is a useful navigation tool for MENA region’s leading trade fair for Security, Safety and Fire Protection.



Presentation of the App around the exhibition



Friendly helps assisted visitors with downloading the app



In 2017 the Intersec trade show will take place from 22 to 24 January. Be there – and use the Official Intersec 2017 App then.

Short review and download the Intersec App 2016 click here:  
[www.git-security.com/news/new-git-app-official-intersec-dubai-app-ready-download](http://www.git-security.com/news/new-git-app-official-intersec-dubai-app-ready-download)



If you want to have more direct information, please reach out to: Heiko.Baumgartner@Wiley.com or Steffen.Ebert@Wiley.com.

## EVENT

# Security & Counter Terror 2016

Expo Helps with a Programme to Keep Nations, Assets and Businesses Safe

Over recent years there have been significant developments in international terrorism with attacks being carried out globally. The threat is constantly evolving and is currently at a significantly high level worldwide. Following recent events in Europe, the issue of national security and counter terrorism is at the top of government agendas. Security & Counter Terror Expo will reflect these developments, with the most comprehensive showcase of cutting-edge technology and exploration of the latest strategies. The event has an increased focus on uniting domestic and international professionals, and will include a host of features that will benefit those working in both the public and private sectors.



Returning to Olympia, London from 19 – 20 April 2016, it is the premier event for all professionals looking to preserve national security, protect assets and individuals against terrorism, and deliver effective security strategies. The two-day event, aligned with the Home Office's seven security capabilities, will showcase the latest innovations in technology, equipment and services designed to assist border control, critical national infrastructure protection, cyber security, major events, offender management, policing and counter terrorism, and the emergency services.

David Thompson, Event Manager, said: "The recent events across Europe remind us that the issue of security has never been more paramount. Targets are becoming more diverse, as are the methods employed by those that seek to do us harm. Terrorists will continue to adopt tactics that help them avoid detection, so the security sector as a whole must stay one step ahead by investing in new technologies and intelligence solutions that protect against current and future threats."

## Source Innovative Solutions

Security & Counter Terror Expo serves a vital role in delivering a unique environment in which global security professionals can source the most innovative solutions to tackle terrorism. Geoquip, NEC, Aselsan and Jackson's Fencing are among the major multinational companies to already confirm

their presence at 2016 show and will join a raft of new exhibitors.

Alongside the exhibition, cyber security will take centre stage at the 2016 show with the leading figures discussing the latest advances at The Cyber Threat Intelligence conference. Presented by techUK, the representative body for the UK's technology industry, it will bring together all those who work to prevent cyber terrorism and crime. Among the topics to be discussed will be an overview of global cyber security threats and how to mitigate against them.

Talal Rajab, Programme Manager for techUK's Cyber, National Security and Criminal Justice programmes, added: "What was once considered a niche area in the wider national security debate has emerged front and centre in many government's priorities. Security & Counter Terror Expo offers the ideal platform for the industry to learn from some of the most prominent figures, while networking with key decision makers."

## Critical Infrastructure

Critical national infrastructure will always be a prime target for terrorists and protecting it is an immense and often challenging task. The Critical National Infrastructure conference will address the issues faced, while showcasing how to guarantee the safety and resilience of critical assets and networks. Features at the 2016 exhibition include the Policing and Special Ops Zone that will showcase the latest

products, strategies and thinking for global Law Enforcement and Special Operations teams.

The highly popular Hosted Buyer Programme also returns, affording senior officials seeking the next generation of equipment or technology the opportunity to pre-arrange meetings with relevant vendors.

Running alongside the exhibition, the World Counter Terror Congress programme is designed to deliver insight, analysis and perspective to current threats. It consists of an extensive and highly specialised programme of workshops, lively debates and plenary sessions developed to offer an in-depth examination of specific issues and provide a focused forum for debate. The centre piece of the programme is the paid-for World Counter Terror Congress, which will feature some of the security industry's most prominent figures. Mark Rowley, Assistant Commissioner, Specialist Operations at the Metropolitan Police; Dr Jamie Shea, Deputy ASG, Emerging Security Challenges at NATO; and Sir Malcolm Rifkind QC, former Chair of the UK's Intelligence and Security Committee, are just a few of the names confirmed to speak.

In addition, there will be a series of specialist free-to-attend conferences focussing on Transport Security and Advanced Technologies. Security & Counter Terror Expo 2016 is co-located with Ambition – the EPRR Expo – and Forensics Europe Expo.

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

## FIRE DETECTION

# Strategic Formula

Fire Detection Solutions from Detectomat



Mike Bohl, Director Sales, Job Detectomat

“Simply.More.Safety.” with this claim Job Detectomat brings its vision on the point. GIT SECURITY asked Sales Director Mike Bohl about the company’s fire detection plans for 2016, the latest product developments from Detectomat and the tendencies in the fire protection market.

**GIT SECURITY: Mr. Bohl, we are already far in 2016 - what do you have on your agenda?**

**Mike Bohl:** We are focussed in our goal to establish our brand Detectomat under the Top5 in the German market. For this we are developing continuously our fire detection business. Also we would continue to grow in the international markets. Here we are doing steps in markets like UK and Eastern European countries like Poland and Russia.

**Which challenges do you have in fire detection systems?**

**Mike Bohl:** The full integration inside the building became more the focus. So the fire detection system has to be compatible to building management systems via a modern interface to combine systems like access control, intruder, CCTV and many others. The target is a maximum of usability for the operator and end user. The security requirements are also increasing, alarm scenarios are becoming more complex and has to work on the ‘two senses’ principle, optical and acoustic. So this means voice alarms are gaining in importance. We meet these challenges with our company philosophy “Simply.More.Safety.”

**Could you explain some detail into that, based on one of your products?**

**Mike Bohl:** Let’s take our dc3500 fire alarm panel: it is adaptable, flexible adaptable for various solutions. The heart of the system is a Linux-based PC which was conceived especially to meet the demands of fire alarm technology. The system is using complex scenarios and algorithm for fast and reliable fire detection. So real fires can be rec-

ognized in a short time and false alarms eliminated. Another example is the SRC 4000, a fire alarm system but completely without wires. This enables complex buildings to be retro-fitted without affecting the substance of the building itself. So the panel is freely configurable to adapt to any building.

**You portfolio of fire detectors is also very extensive ...**

**Mike Bohl:** Our fire detectors – from the optical and thermal versions through to the multi-sensor detectors – are scalable almost without limit. The broad spectrum of detectors allows us to provide rapid fire detection with the highest user convenience. In short: there is a reliable solution for every challenge. In general, our customers will find their individual fire detection solutions in our product range. The systems can be put to use in the most varied applications and meet the demands of users and operators with regard to total cost of ownership, for example as a system configured according to EN 54- 25 or BS5839 guidelines (e.g. as a radio-connected system for use in kindergarten and schools). We focus on what makes technological sense and brings significant added value for our customers.



**What other future trends do you consider to be important?**

**Mike Bohl:** The trend is moving ever more toward remote access, that is, the possibility to control systems from elsewhere, for example for maintenance purposes. A VdS guideline is already in preparation for this. Apps to operate and maintain systems will also play a larger role in future. Along with that comes more effective documentation, which in turn means an improvement for both the installer and the user. We are prepared technologi-

cally for both scenarios. New maintenance modes will be introduced and we are working on a new series of detectors that has improved features for maintenance and service. The exchange of detectors described in DIN 14675 will become easier and also more effective, which in turn benefits the total cost of ownership.

**The subject of Smart Home Security is gaining speed – also with regard to fire detection. How does Detectomat view this?**

**Mike Bohl:** This market provides us with additional opportunities to position reliable detection with open interfaces. It continues to offer the chance to position new technology for detection and fire protection linked with applications and convenience functions that build on the basis. We will present ideas on this subject, amongst other places, at Security 2016.

**CONTACT**

**Detectomat**

Ahrensburg, Germany  
Tel.: +49 4102 21140  
info@job-gruppe.de  
www.job-gruppe.de

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FIRE DETECTION / VOICE ALARM

# Touchdown for More Safety

Bosch Secures Domestic and International Terminals at Antalya Airport

In the event of a fire, the protection of life and the efforts to immediately evacuate all people from the danger zone are always top priority. In order to enable the fastest and most efficient evacuation possible, fire alarm systems and voice evacuation technologies are increasingly being planned jointly and closely interfaced. In addition to the protection of human life, minimization of property damage is a further objective of modern fire alarm and evacuation systems.

Bosch Security Systems was chosen as the supplier of an interfaced fire detection and voice evacuation system for both the domestic and the international terminals at Antalya Airport in Southern Turkey. Served by 108 airlines, Antalya offers its passengers more than 600 different connections, some of them only seasonal. The airport counts more than 25 million passengers each year, positioning it close to the top 50 in the world.

## Fire Detection and Public Address Interface

Across the terminals, Bosch's local partner Ateksis installed 3,500 automatic fire detectors 420 series which are connected to six networked Modular

Fire Panels 5000 Series. These can be configured and operated via two remote keypads. A modular architecture for the fire alarm system enables planners and installers to not only achieve customer-specific configuration of the system, but also ensures that it can grow according to requirements, without losing already made investments in safety equipment. The fire detection system is interfaced with the fully digital Praesideo Public Address and Emergency Sound System.

With more than 1,800 horns and ceiling loudspeakers as well as 300 sound projectors, this system covers multiple independent zones within the terminal buildings to allow for precise and targeted evacuation instructions in case of emergen-

cy. The Praesideo system comprises two network controllers, 48 distributed power amplifiers and 25 call stations. It also has an automatic volume control that automatically increases the sound level when the building is getting crowded.

## Modular Fire Alarm System

The particular advantage of a modular fire alarm system is the opportunity to network single, separate units in the various parts of the building. This enables individual adaptation to the building structure. The interfaced voice alarm additionally permits a targeted decision to evacuate – either the entire building or only individual parts of it. It may, for example, make sense to evacuate large



▲ Modular Fire Panels 5000 Series

**Fully digital Praesideo Public Address and Emergency Sound System ▶**



buildings such as airports in several phases in order to ensure orderly evacuation of the building and to prevent panic or delays. In these situations, targeted acoustic and visual signals are initially only used to request the persons located in high risk areas to leave the building. Subsequent evacuation then takes place according to the prevailing situation.

At Antalya Airport the Bosch fire detection and voice evacuation systems are integrated via the Bosch Building Integration System (BIS), allowing for central control and operations. Due to its open and modular architecture, the solution can be expanded seamlessly as Antalya Airport continues to grow. For the same reason, third party solutions such as video surveillance, access control and even

the flight information system could easily be integrated with Praesideo.

The combination of fire protection and voice evacuation via an IP connection grants the advantage of reduced installation costs and time, flexibility and speed as well as the possibility to tailor the voice evacuation to specific needs. In addition, the system can route pre-recorded messages and signals and can provide background music, flight

info and commercial announcements during everyday operation. For airport safety and operation this embodies an ideal synergy.

**CONTACT**

**Bosch Security Systems**  
 Grasbrunn, Germany  
 Tel.: +49 89 6290 0  
[www.boschsecurity.com](http://www.boschsecurity.com)

more info at [www.PRO-4-PRO.com/security](http://www.PRO-4-PRO.com/security)

Security Products

**New Fire Detection System Range**

Apollo Fire Detectors announces that products in its innovative new fire detection system range, Soteria, are now available to order. Comprehensively tested to exceed EN54 standards, the Soteria collection offers the next generation in fire detection expertise. Currently covering heat and optical detection areas – either individually or in innovative combinations – the exclusive technology incorporated into the Soteria range offers an unrivalled host of features, including PureLight Sensing Technology, loop integrity and enhanced protection against disturbance phenomena. Benefits to Soteria customers include the collection's compatibility with XP95 & Discovery protocols, a reduction in false alarms and the enhanced reliability of smoke detection. Installation is simpler due to a new easy-fit base and an isolator located in the head, and ongoing maintenance is easier thanks to the design's increased dust resistance and better insect protection.

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



**Wireless Portable Gas Monitor**

Honeywell introduced MultiRAE Benzene, the wireless portable six-gas monitor with a benzene-specific, snapshot measurement designed to protect worker safety in hazardous environments. The MultiRAE Benzene includes a six-tube cartridge – called RAE Sep-Tube Cartridge – that operates in conjunction with the unit's photoionization (PID) sensor. The MultiRAE Benzene measures benzene in the 0.1 to 200 ppm range while the RAE SepTube Cartridge filters out other volatile organic compounds (VOCs) and gases, eliminating cross-interference, a long-time problem in benzene-specific detection. Other MultiRAE features of note include: wireless connectivity as a standalone or networkable solution; intelligent, field-replaceable sensors including oxygen, LEL combustibles, hydrogen sulfide, sulfur dioxide and others; up to six months' datalogging; automatic bump test and calibration (with AutoRAE2) and stainless-steel housing with IP-65 water/dust ingress protection. MultiRAE Benzene has been certified for intrinsic safety ATEX / IECEx Ex ia IIC T4 Ga as well as CSA for Class I, Division 1, Groups A, B, C, and D, T4 hazardous atmospheres.

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





## PUBLIC TRANSPORTATION

# Two Terminals, One Solution

## Upgraded Surveillance at Izmir International Airport in Turkey

As part of the construction of a new domestic terminal at Izmir Adnan Menderes Airport, the airport operator TAV EGE and systems integrator Sensormatic Guvenlik Hizmetleri created an integrated surveillance system that enables security personnel to monitor both the old and new terminals using one platform.

Part of Turkey's tourist region, Izmir is also a major import-export center, ranking just behind Bursa and Istanbul. Because of burgeoning tourism and business needs, the area has seen a steady increase in air traffic and Izmir Adnan Menderes Airport currently ranks fourth among the country's airports for passenger traffic. The introduction and growth of low-cost air carriers also prompted the need to create a new 200,000m<sup>2</sup> domestic terminal with eight passenger gates and a multi-level parking garage with more than 2,500 spaces. TAV Airport Holdings is Turkey's leading airport operations company, operating airports in Turkey, Georgia, Tunisia, Macedonia, Saudi Arabia and Croatia. TAV and its contracting arm, TAV-Ege, hold the operating rights for the domestic and international terminals at Izmir airport until 2032.

The existing terminal was operating on a video surveillance and access control system originally in-

stalled in 2001. With the construction of the new domestic terminal, a platform needed to be put in place that would accommodate the use of existing technology at the old terminal, such as analog cameras, with a new, IP-based infrastructure and all the modern, attendant products in the new building.

### Old Beside New

For its integrated solution, TAV, together with the systems integrator Sensormatic Guvenlik Hizmetleri, chose Tyco Security Products' victor unified security solution. The supplier provides access control, video, location-based tracking and intrusion solutions in over 177 countries around the world, in multiple languages and employs over 2,800 employees globally. Now, using a single interface, security personnel at the airport gained the ability to manage live and recorded video via multiple VideoEdge NVRs, also from Tyco Security Products. These allow

the nearly 700 analog cameras located in the old terminal to migrate to the IP-based system, along with 600 new IP cameras that were installed in the new terminal. VideoEdge allows multiple video streams for live or recorded viewing, including alarm-based incidents. The recorders also provide embedded video analytics to help security officers recognize and investigate suspicious activities in real time, such as loitering or objects left behind.

The airport's new system also includes the Software House C-Cure 9000 access control platform for security and event management for monitoring activities, managing personnel and creating reports. The access control platform also serves as a redundant system to the victor security management system. The use of the C-Cure 9000 access control system also helped TAV personnel to have control over access to restricted areas such as customs, the apron and parts of the terminal. The



integration between the CCTV and access control systems also alerts operators if an alarm occurs at an access control reader by automatically triggering the view of the related camera. The system is integrated with the airport's fire systems to assist staff with proper procedures during an emergency, and is also enabled for integration with the airport's perimeter security system.

**Growth Potential**

In migrating to IP-based technology, the airport was able to replace about 120 older monitors and 30 DVRs. New display monitors from AG Neovo were added along with a Bosch public address and intercom system. The security platform serves as the backbone for the integrated PA and intercom. Although no firm plans are in place to add cameras, the scalability of the overall system based on victor, VideoEdge and C-Cure makes it easy for the airport to expand its video and recording capabilities in future. The integrator Sensormatic, part of the Securitas group of companies, together with airport officials ensured that an additional 25 percent of capacity was built into the system for future installations and upgrades.

Sensormatic, also took the lead on technical and operator training, conducting a one-week seminar and locating a dedicated technician at the airport to assist operators and security personnel as necessary. "The migration to an IP-



**Airport security staff can view the airport's CCTV, access control, fire safety systems and also intrusion systems from the central control room.**

based platform was our main goal," said Adil Akkaya, Systems Coordinator at TAV Construction and Operation, "and we easily achieved that by continuing our relationship with Sensormatic and selecting Tyco on which to build our surveillance and access system."

**CONTACT**

**Tyco Security Products**  
Heathrow, United Kingdom  
[www.tycosecurityproducts.com](http://www.tycosecurityproducts.com)

# See it before it spreads



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## DATA SECURITY

# Managing Data in a Hyper-connected World

## How to Secure Data and Systems against Cyber Threats

The amount of security cameras deployed in various situations all over the world is constantly growing. Applications range from securing critical infrastructure to home security. Convergence of physical security and IT security as a trend in the industry force us to have a closer look on data security. We begin to realize that connectivity benefits without precautions leaves us vulnerable to cybercrime. At Intersec in Dubai, GIT SECURITY had the opportunity to discuss these aspects with Markus Wierny, Head of Product Management Firmware, Software and Storage at Bosch Security Systems.

### **GIT SECURITY: Are we becoming more vulnerable to cybercrime in this hyper-connected world and is there an effect on video surveillance?**

**Markus Wierny:** Things have definitively changed with the move from classic analogue closed circuit CCTV systems to integrated IP video surveillance systems. Everything is connected, integrated and part of an overall IT system and yes, this has effects on video surveillance. If you look at the dark side, we need to recognize that even a single weak link in the surveillance set-up can jeopardize the entire system of a company or organization. Video surveillance systems are not in the center of hacking attacks yet, but the threat of malware infiltration, privilege misuse, intrusion of privacy and side channel attacks is undeniable. The industry already had serious security concerns to video surveillance systems with the Linux worm Darloz, the Heartbleed bug in OpenSSL, the Shellshock or bash bug or the Linux Ghost bug.

### **How do you cope with these security threats?**

**Markus Wierny:** Starting with the point of data capture, it is crucial for us to secure data as good as possible. A systematic approach is needed to ensure data is securely transmitted, stored and only accessible by authorized people. We see our role here as part of a global IT security infrastructure and this is why we use proven standard IT security measurements and technology like TLS/SSL encryption. Several steps are necessary to be on the secure side. The first thing we suggest is a password assignment on every setup and not to allow default passwords. Then we need to make sure that the data is transmitted encrypted. We can handle this task with standard encryption methods like the Advanced Encryption Standard AES-256 for video and control panels. This enables a secure connection to our own systems but also to third party systems. Another step is to create trust when you connect devices or log on to systems. We are assigning each component with an authentication key so that data exchange is possible only between trusted partners. Data is encrypted by using cryptographic keys. These keys are only known by sender and receiver. Therefore data is protected even in case of a breach, because the (private) key is needed to decrypt the data. Another measure is that our cameras can only be



updated with firmware that is can be identified as a Bosch authentic (signed by Bosch) firmware file. The cryptographic keys are stored in the Trusted Platform Modules (TPM) of our systems and inside the Bosch IP cameras.

**What are the next steps after ensuring a safe connection and encryption of data?**

**Markus Wierny:** To secure data, it is crucial to administrate the user access rights properly, so that only authorized individuals get access to the data. To ensure easy management of user access rights we use IT industry standards and support 3rd party solutions for Public Key Infrastructure (PKI) and the management of user access rights. To protect core devices like servers, clients and storage devices we use onboard Trusted Platform Modules that store authentication rights and support the Microsoft Active Directory. All devices get regular updates via security patches and we have successfully passed NIST and penetration tests regularly. Since years already we equip our edge devices, cameras and encoders, with a Trusted Platform Module to make the systems even more secure.

**How does this protection of edge devices work?**

**Markus Wierny:** Even our entry-level models have an onboard TPM. The TPM is a chip like being used on SecureCards that is embedded in our camera hardware which acts like a safe that stores and

issues keys. The TPM automatically creates self-signed unique certificates and signage requests once required. Also clients and servers use certificates for authentication, and the system supports certificates with encrypted private keys and Public Key Infrastructure can be loaded. A PKI is a set of hardware, software, people, policies, and procedures needed to create, manage, distribute, use, store and revoke digital certificates and manage public-key encryption. We use state-of-the-art X.509 certificates with up to 2048 bit keys to ensure maximum compatibility and security.

**Do the protection measurements you recommend for a better security affect the integration of third party devices and software?**

**Markus Wierny:** If you want a very secure system you need to make sure all components are reliable when it comes to security. Like I mentioned before, even a single weak link in the system can put the entire system at risk. This is why we disable "unsecure" ports and protocols and the execution of 3rd party software by default and force all communication to be encrypted. Higher demands for data security will affect the choice of devices that you may want to integrate for a project. There are, for example, open camera platforms on the market that allow running third party software on cameras and devices, but this opens a gate for hackers and we think the risk is higher than a possible benefit.

**Where do you see the biggest need for enhanced data security measurements in the security industry?**

**Markus Wierny:** We have seen a strong demand in all verticals for about 18 months. Of course, clients in the governmental sector and in banking are extremely sensitive about this topic but we have also talked to retailers who have had security breaches and fear data leakage. Critical infrastructure projects are most at risk, but even in home security applications, you would not want to see videos taken from your living room, distributed on the internet. We at Bosch do a lot to educate the various channels like consultants and end customers on that topic. We are also very active in ONVIF to include appropriate security measurements in the upcoming ONVIF specification and new ONVIF profiles. Another action we took is to talk to our partners to help them develop more secure systems. When it comes to data storage for example, the secure chain often stops and non-encrypted data is stored. Of course data centers and data storage are often physically secured but you cannot exclude the possibility of video data theft. This is why we develop own solutions and systems together with partners like Genetec that store encrypted data to minimize this risk.

**CONTACT**

**Bosch Security Systems**

Grasbrunn, Germany

Tel.: +49 89 6290 0 · [www.boschsecurity.com](http://www.boschsecurity.com)

more info at [www.PRO-4-PRO.com/security](http://www.PRO-4-PRO.com/security)

**Security Products**

**CS-mount Vari-focal Lenses with 5MP Resolution and NIR**

Tamron has announced the M118V, a 1/1.8" 4-13mm F/1.5 CS-mount vari-focal lens supporting 5-mega-pixel resolution and NIR (Near-IR) bandwidth with three iris options: manual, auto or P. Demand for outdoor surveillance is increasing, notably at city streets and public facilities. In addition to a significant increase in the pixel count, an enhancement of the lens sensitivity is required for imaging detectors, which are shifting to a larger device size. Lenses that meet the requirement are in strong demand in the security market. This lens is intended for large-size imaging detectors, and is compatible with an NIR bandwidth imaging feature.

[www.tamron.eu](http://www.tamron.eu)

**Ultra Compact Camera Module with Optical Vibration Compensation**

Tamron has announced an ultra-compact camera module with an optical vibration compensation feature, which assures high-quality image stabilization when images are captured in a vibrating environment. The physical size and weight of the compact module are not only optimum for security and surveillance applications but also advantageous for an extensive range of customization, including such applications as drones. The module only measures a total length of 58.4mm and weighs approx. 77g, which enables re-use of existing housings or effective saving of installation space. The video output is compatible with the industry standard 1920 x 1080 Full HD.

[www.tamron.eu](http://www.tamron.eu)

**Further VMS Integration**

Exacq Technologies, part of the Security Products business unit of Tyco, introduces a native integration with the DSC Powerseries Neo intrusion system. exacqvision version 7.4 video management system (VMS) software also includes new health setup indicators, filtering, Camera Links in Exacq mobile and enhanced server management in Enterprise System Manager (ESM). In V7.4, setup indicators guide installers through common configuration options and users receive real-time notification in the client when camera or video recorder health such as storage, video throttling, system voltage, system temperature, lost IP camera connection or video loss needs to be addressed.

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



**Upgraded VMS**

Wavestore has introduced an updated version of its Video Management Software (VMS), that includes a long list of new features such as Active Directory support, as well as improvements to existing functionality to ensure that the company's customers worldwide can maximize their return on investment in new or existing security systems. Version 5.52 is intended to make it even easier for users to unlock the full potential of a video surveillance system and includes a wide range of features to ensure that the VMS is even more user-friendly with various improved metadata search options and the ability to simultaneously search multiple channels. There is also improved audio and joystick support, as well as added server group functionality.

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



## SECURITY MANAGEMENT

# Added Value for Reality

## Innovations in Alarm Technology and Video Surveillance

Electronic security is the core business of Abus Security Center that came into the Abus Group in 1999 – with two main product divisions: alarm technology and video surveillance. Mechatronic components drive the innovations forward – as the company recently demonstrated with its new Secvest radio alarm system: it combines mechanical resistance with an early alarm. Matthias Erler of GIT SECURITY spoke with **CEO Benjamin Pflaum** about the latest industry trends and their relevance for Abus Security Center.

**GIT SECURITY: Mr Pflaum, the combination of video surveillance and alarm technology forms the dual identity with which Abus Security Center has been present in the security market since 1999. Just how important is this combination?**

**Benjamin Pflaum:** First of all that has to do with the fact that we consider ourselves to be a solutions supplier and, as such, we see significant advantages for the user exactly in the connection of mechatronic

ic burglary protection and video technology. Building on the basic mechanical protection stipulated by the police, we have developed the only mechatronic radio alarm system in the world, Secvest, i.e. the optimum combination of mechanical protection, electronic alarm and video verification. This combination is the best method, in our opinion, to prevent break-in attempts. With product developments such as Secvest we work together with other companies within the Abus Group in a network. This use of synergies already begins in the concept phase and

is extremely inspiring. We work together at a very early stage in competence teams spread across different company locations to establish what is relevant for our customers. We don't have to particularly promote this holistic approach individually – customers expect it nowadays anyway.

**At least one part, namely the video technology, has been subject to big changes within the last decade – and the competition in this sector is positively vast. What position is**

**Abus Security Center taking here – how do you distinguish yourselves from the others?**

**Benjamin Pflaum:** Image usability is the most important aspect for us. That means we concentrate particularly on the actual applicability of the technology. We find that the user-friendliness of systems must meet totally new standards – this flows, for example, in our methodology during the development of our products not only to think of the needs of the installers. It's also about the reality of the user.

**Could you explain that in more detail?**

**Benjamin Pflaum:** If you visit a security exhibition, you will be presented with many trends and new developments. However, they cannot be universally applied because in reality, for example, there is backlight or 'bad' light. But security solutions cannot have a blind spot. So we can't win with selective innovations. Instead we need to think about a whole lot at the same time: resolution, light sensitivity, backlight, low light etc. And then there are the details like color constancy: it doesn't help if a pullover is shown in 8K resolution but is displayed in red instead of orange. Apart from that, the data must be able to be transmitted in order to be evaluable.

**In other words, good resolution is not the whole story?**

**Benjamin Pflaum:** Correct. Another example: just having high resolution doesn't help if there is image distortion in the last third of the image. If a suspect is captured in this part of the picture, he might well be so unrealistically shown that he can't be identified. In other words, we are concerned with the real usability of the technology – this is what we call 'Focus on details'. This thought process pervades right through to questions of design – we have already received many awards for the design of our cameras. But I'd like to give you another technical example: In a poorly thought-out camera, it can happen that up to 30 percent of the image is suddenly distorted if you adjust the lens. Our attitude is that the camera must not just work when it's first hung on the wall but also

later when the user makes some adjustments.

**The range of video technology on offer is enormous. If we restrict ourselves for a moment to the upper third on the quality scale – how do you distinguish yourselves from other quality suppliers?**

**Benjamin Pflaum:** It's certainly features such as the user-friendliness and connectivity that are associated with our products compared to those of our competitors

in this segment. It is our orientation to reality that I just mentioned that makes the positive difference. Functions must be accessible and easy to use. That is why we develop our software exclusively here in Germany, in our software foundry in Kiel. That gives us the ability to react very quickly any information coming from users and to implement new developments. This speed of action is one of most important factors in our positioning – it is only possible through consistent focus on the user. The dialog with them is crucial. Working with our

German customers so closely naturally increases the demands on our developers, influences the products and at the same time makes these easier to export. We consider this a significant difference to many of our competitors.

**Let's stay with video technology a moment longer: IP, networking, data clouds are all relevant buzz words. How do you consider the importance, the chances and perhaps also the risks of these trends specifically in the area of security?**

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**Benjamin Pflaum:** All these topics describe trends that penetrate into many industries. They also expand the opportunities for us and open up the way to many complex application scenarios. However, one should not forget that, at the end of the day, we are dealing with security here. There is definitely the danger of stopping the intruder in front of the door but in the process offering another criminal a way in that previously wasn't even thought of. Competence and well-considered actions are required here.

#### How do you address this issue at Abus Security Center?

**Benjamin Pflaum:** We get all our network-capable products checked by an independent external inspection agency. In this way we ensure that attacks from outside are almost impossible. This approach is absolutely essential in the security industry, in contrast to other industries. Security is not only a technical collection of functions but also a requirement. The private sphere is very important, especially in the German market. In concrete terms this means that my data must not be uncontrollable by me, I must have primary control over my product and my data. That also means, however, that we learn a difficult lesson and develop correspondingly secure solutions.

#### Resolution continues to improve – the buzzwords are 4K or even 8K in the consumer sector. How do you consider that in conjunction with video security?

**Benjamin Pflaum:** This trend to ever higher resolution cannot be stopped. To establish oneself effectively in conjunction with security applications you first need to answer some initial questions with regard to the processing of massive amounts of data. This data must arrive somewhere and be stored. And the networks must also, for example, handle multiple such cameras simultaneously. The total infrastructure costs for widespread use of 4K or 8K would currently be disproportionately high. Even with lower resolutions, we already hit limits for the same reason. But there will nevertheless still be niche solutions that however cannot be broadly used.

#### Mr Pflaum, let's take a look at alarm technology now. Here we have a rather more conservative segment compared to the world of video technology: you won't find crowds of technology nerds working late into the night on an alarm system, sustained by coffee and pizza. Or is it like that in the Abus Security Center?

**Benjamin Pflaum:** We consider alarm technology to be at the core of electronic security technology. It must be the networking hub for the electronic

control of the security technology. And as such it requires absolute reliability and a certain care in development. But alarm technology as a platform is definitely in our focus. We also have some interesting things in the area of detection and are shortly before taking a new innovative step.

#### Does mechatronics play an important role here?

**Benjamin Pflaum:** The extension of alarm technology with mechatronics means that it doesn't just protect against intrusion but also raises the alarm. On top of that there are many important developments in the detail. Our developers are certainly working as hard as in other more prominent, more innovative fields – including nerds, coffee, pizza ... sometimes it takes a bit longer if it has to be secure.

#### Mechatronics in alarm technology is a comparatively new area.

**Benjamin Pflaum:** Yes, and we will extend our range in the near future with products for general use. We are orienting ourselves on the products of our parent company. New developments have been made, for example, in locks integrated into the window handle with detection of attempts to break in and optional break-glass detectors. But we are also working on our broad spectrum of detectors. We are generally improving the interaction of mechanics with alarms: first of all it is important that an intruder is mechanically prevented from gaining access – the user should then already be informed of the attempt, even while the intruder is still outside. It is not sufficient for us to sound the alarm only once the window has been opened. The mechatronics begins therefore right at the window with any attempt to lever the window open or to break the glass. Mechatronic components are also found in the window handle in the form of a button cylinder. This prevents another sort of break-in where a small hole is made in the window to be able to reach in and turn the handle on the inside. We cater for various scenarios and use every opportunity that the mechanics and the electronics can offer.

#### Where electronics and mechanics meet, the path is laid for networking with other systems – perhaps with access control. Video verification, mobile control via browser and app are further topics. What is your approach here?

**Benjamin Pflaum:** You have actually named the most important things. We are working in each of these fields with the guideline of offering integrated solutions without compromises. Well thought-through integration means for us that each element is of the same good quality as a

comparable stand-alone device and is competitive with it without anything else. We strive to attain the best-of-breed standard with each individual component. And then again we bring everything together into user-friendly concepts. Real integration means therefore that the user gets an equally uncomplicated yet powerful system. This is where it becomes evident that we develop everything ourselves and can use the synergies of the Abus Group.

#### One networking subject is building control. For many manufacturers, the forward march of networked (security) systems in private homes is a topical subject – the buzzwords are Smart Home and Smart Home Security. Abus also has a corresponding concept. What role does this market play for you?

**Benjamin Pflaum:** Networked building technology and electronic security technology naturally belong together. The increasing interest in Smart Home Security has brought a welcome disturbance and readiness for change into the market. We view this as an opportunity to include additional functions and facilities such as lighting scenarios into our systems, whereby we will always maintain our concentration on security. At the Security 2016 event we will show our interpretation of a Smart Home, driven by the need for security. It is important for us here not to forget the user and to offer him more than just a few mediocre Apps that won't make him happy. Convenience and accessibility also distinguish a professionally thought through system. Superficially usable systems for very simple applications have their limits when it comes to security for life and limb.

#### That was a very small peek into Security 2016 – what else will be on show?

**Benjamin Pflaum:** The Security event in Essen really is very important for the whole industry as a reference clock. We will show new items 'hands-on' from all segments, from alarms and fire protection through to our concepts for networked security technology – also with associated facilities. Our core theme is Integrated Security.

## CONTACT

**Abus Security-Center**  
Affing, Germany  
Tel.: +49 8207 95 990 0  
info.de@abus-sc.com  
www.abus.com



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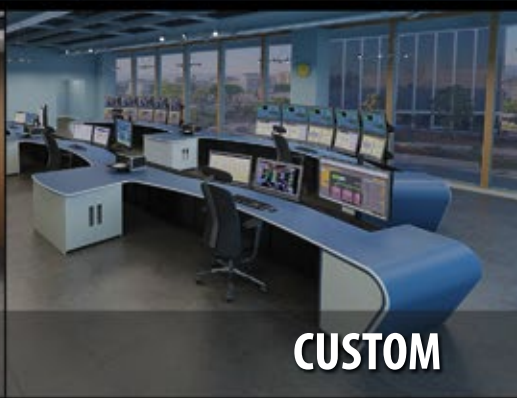
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## VIDEO MANAGEMENT

# Box Clever

## Video-based Goods Tracking Solution from Axis and SeeTec Delivers over Target Results

The ABWood factory was built in 1974–1976 as the flagship of the Polish wood industry and is a large manufacturer of pinewood furniture, using wood material prepared at its own sawmill and covering an area of over 34 hectares. To maintain high packaging precision and minimize deviations and missing parts for deliveries to IKEA, ABWood was in search of a system to ensure that all parts of a product would be packed into the right box and to provide visual quality control for compliance.

Apart from producing high quality flat-pack furniture and furniture components, ABWood in Poland, supplier to IKEA, knew that to pack and ship products quickly and safely from A to B would further strengthen its good reputation as a sub supplier. The solution they were looking for had to be capable of detecting packaging errors automatically. They wanted to be able to review a monitoring report and only repack one faulty package instead of repackaging a whole pallet if an error was detected during final inspection. In their common strive for excellence, IKEA's and ABWood's ambitious goal to reduce packaging line issues by 25% in one year was set.

It was decided to implement a visual goods tracking solution from Axis and SeeTec that monitors the packaging lines, tracks batches and integrates data from ERP/Warehouse Management Systems and RFID/barcode systems with video. Each item or shipment can then be reliably identified, tracked and monitored on its entire journey through the packaging line. The solution provided by Axis' partners Intellisight and SeeTec supports quality control throughout the packaging process with full transparency and allows for better management of customer claims and deviations. The company can now quickly find out what happened if there is a problem with the packaging line and solve the issue accordingly.

### Paid for Itself

With the visual goods tracking system in place, ABWood and IKEA noted results beyond all ex-



**The system monitors the packaging lines, tracks batches and integrates data from ERP Systems**

pectations. An improvement was already made just by informing the staff about the upcoming system. With it in place, quality issues were reduced by 44%, which far exceeded the ambitious goal for the project. The return on investment was achieved within 7 months. The project itself increased awareness of packaging quality issues. It has become easier to monitor and control quality due to fast access to the relevant data. Using this data, ABWood has already identified the main problem areas in the packaging process and found solutions on how to improve them and to train staff accordingly. For instance, one finding was

that most errors were made after a break in the existing shift.

With new improved working methods implemented, these mistakes could be entirely eliminated. ABWood uses the visual goods tracking system to ensure that all parts of a piece of furniture are packed in the box. If there is a problem reported, the root cause can be immediately identified and corrected. The solution has also helped to identify additional potential for improvement. The next step is now to place a screen next to each line, so co-workers can see the packaging lines live, and spot and solve quality problems as they occur. ABWood has also investigated the possibilities of scanning every packaging to track the exact pace of the packaging-line, and to add further cameras at the loading bays to get full transparency and information about compliance of packaging issues.

### CONTACT

#### Axis Communications

Lund, Sweden

Tel.: +46 46 272 18 00

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

#### SeeTec

Bruchsal, Germany

Tel.: +49 7251 9290 0

[info@seetec.de](mailto:info@seetec.de) · [www.seetec.de](http://www.seetec.de)





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## VIDEO MANAGEMENT

# Video at the Core

## G4S Estonia Drives Video as a Service in Expanding Market

The small to medium business sector is growing in Estonia and, luckily, the communications infrastructure there is very new with high bandwidth Internet available. This leads to IT solutions being largely delivered as online services. The service provider G4S has developed a palette of security solutions to meet the fast growing demand.

In Estonia, G4S is a company with a very wide profile, ranging from traditional guarding services, sales of video security solutions to being a supplier of Video Security as a service. Alarm services are also an important part of the business, as more than 40,000 customers depend on G4S for alarm handling. Being in close contact with Milestone

Systems since 2008 and a direct partner since 2011 has given the service provider extensive knowledge of the advantages of open platform technology. Using Xprotect from Milestone Systems as a core tool, G4S has been able to develop a portfolio of services enabling the company to service customers in all business segments with highly scalable and adaptable solutions, targeted especially at the service-focused Estonian market.

The open platform technology gives them the ability to freely pick the cameras and infrastructure best suited to a customer's situation. A centralized solution can be designed that fits into the company's strategic vision. This has led to the development of a Video Security as a Service (VSAAS) concept in 2012-2013, which enables two solutions for customers – a traditional solution based on a Milestone system installed at the customer's site and a hosted VSAAS-solution. G4S is also expanding into general business services organization in Estonia, such as reception services and being the operational power behind the country's network of charging stations for electrical cars.

### Rapid SMB Growth

Since the reinstatement of Estonian independence in 1991, the country has been one of the powerhouses in the Baltic region with a rapidly growing economy and expanding IT infrastructure. It is a country with 1.4 million citizens living in an area the size of Denmark. The strong economic drive means that the business landscape is divided between relatively few large corporations and an ever-growing community of small and medium-sized businesses, which has led to a diverse business strategy. The classic alarm and guard services have been in demand by larger corporations such as Estonian Power, but the rapid growth of the SMB sector in connection with the advanced IT infrastructure means that the business landscape is ripe for new initiatives in the normally very traditional security business. G4S Eesti has grasped this opportunity and introduced three new VSAAS services anchored in traditional alarm and guarding services.

Hosted video surveillance is offered alongside a traditional alarm system. As Estonia has large



The control center is manned by operators using XProtect Corporate for all the types of VSAAS offered by G4S

installations and the population is mostly concentrated in urban areas, video is an important tool for optimizing alarm response, enabling increased situational awareness for the company's patrolling staff. A Video Patrol service is where an operator uses the installed cameras to perform a virtual patrolling service. This happens at a fixed schedule and covers assets, premises or objects according to the SLA made between the customer and G4S Eesti. One example of this service is the protection of the Estonia War of Independence Victory Monument (Vabadussõja võidusammas). Here the company is entrusted to protect this most important monument, which is done in a discreet manner using the video patrol service.

Online Video Surveillance is a proactive operator-driven service provided by specially trained operators who use the video feeds from multiple cameras and are able to detect suspicious behavior before anything happens or to catch evolving incidents at the very beginning. This not only leads to highly efficient response by G4S staff but also acts as a discouraging factor for individuals with negative intent as the security cameras are mounted in clearly visible positions and the video service is widely publicized. One customer of this service is the Jysk retail chain in Tallinn, where the losses have been cut by more than 75%.

**Flexible Open Platform**

"Video as a service is growing far more than traditional video security offerings, and we are in the perfect position to fulfill the ever rising market demands. We have a very high level of technological skills and, thanks to the open platform technology from Milestone, we are able to meet the needs of any customer", says Head of Security Systems, G4S Priit Orasson.

The G4S Eesti headquarters is at the center of the security network. The control center is manned



**Priit Orasson, Head of Security Systems, G4S**

by operators using Xprotect Corporate in a centralized installation for all the types of VSAAS offered by the company. The comprehensive device support in Xprotect enables G4S Eesti to use audio in their services and to pick the optimum cameras according to the exact needs of any given customer. Use of speaker horns and two way audio enables operators to discourage negative individuals and to resolve situations without any need for guard personnel. Several Smart Wall installations enable operators to get instant situational awareness and tailor the display configuration according to needs.

"We are extremely pleased with the flexibility and adaptability of the Milestone software and the quality is very high" says Priit Orasson. As VSAAS becomes more and more important in a market where every customer is different, the service has to be readily adaptable to the exact needs of the ever growing number of customers. Orasson adds, "We are seeing an influx of SMB customers with 16 cameras or less. This means that it has to be

simple and fast for us to deliver the services requested. We are focused on quality and a very high service level and here the Milestone quality, flexibility and ease of use are of utmost importance to us".

Orasson also mentions that analytics are expected to become a more important feature in the future, as G4S Eesti wants to optimize response and to deliver even more proactive services. Here he notes the metadata capabilities of Xprotect Corporate which will enable even more advanced analytics than is possible today.

**CONTACT**

**Milestone Systems**  
 Broendby Copenhagen, Denmark  
 Tel.: +45 88 300300  
 milestone@milestone.dk  
 www.milestone.dk

more info at [www.PRO-4-PRO.com/security](http://www.PRO-4-PRO.com/security)

**Security Products**

**Video Surveillance Keeps Bingo Club Safe**



The newest addition to Southampton's leisure scene has been equipped with a future-proof IP network video surveillance system using 35 Samsung Open Platform Wise NetIII Full HD dome and bullet cameras. Gala Bingo has invested over £5M in the new club to provide the best possible environment for its customers to enjoy the social aspects of playing bingo. Kevin Willis, Risk Manager for Gala Bingo: "In addition to the need to comply with local authority licensing requirements, we considered it essential to provide the club's management and our security colleagues with the best possible tools to ensure that players are kept safe."

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

**HDTV Network Cameras for Difficult Light Conditions**

The P1435-E and P1435-LE compact and cost-effective bullet cameras from Axis offer high image quality with full HDTV 1080p resolution at frame rates up to 60 fps, and feature Axis' Lightfinder technology. This makes them ideal for video surveillance of city squares, railway platforms, cargo loading bays, airport terminals and retail showrooms with large window fronts. The company's Zipstream technology lowers bandwidth and storage requirements by an average 50% compared to standard H.264 compression. Both cameras can be installed indoors as well as outdoors, preferably with the new weather shield designed to protect the camera against heavy rain. They offer easy installation with remote zoom and focus for fine-tuning the picture from a computer.



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



**Trending: on the move, easier to use,  
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## ACCESS CONTROL

# Trending in 2016

## Product Sales and Feedback Give an Insight into Secure Identity Trends

The US-based Assa Abloy Group company's trends point to a more mobile and connected experience, ongoing advancements in privacy protection, and broader adoption of best practices for solution deployment. Their specialist subsidiary acquired back in 2000, HID Global, supplies products, services and solutions related to the creation, management and use of secure identities to OEMs, integrators, and developers. It has identified the top five trends it believes will have the biggest impact on identity and access management, citizen identification, and the Internet of Things in 2016, based on insights from top customers in numerous markets and deployments of its latest solutions.

"We're watching several developing trends, including growing demand for a more mobile-centric user experience that we believe will be the primary driver for security technology innovation in 2016," says Stefan Widing, Executive Vice President Assa Abloy and head of HID Global. The first of the five trends is 'mobilizing' security to make it more pervasive and personalized. A more secure identity lifestyle will be built around the convenience of ever-present mobile devices. Computer and network logon, driver licenses, and other applications will more seamlessly join physical security functions on phones, tablets, and laptops.

The second visible trend is that security will place much greater focus on the user experience. This will help to close the gap between planning

and compliance, while ensuring that security adapts to rather than defines end-user habits and lifestyles. Old ways of authenticating will be replaced by more satisfying alternatives.

Thirdly, secure and connected identities will fuel safety and innovation in how we work, shop, and play. We see the industry entering its next chapter of connected identities. It will employ multi-layered security strategies that include biometrics to bind these identities to their legitimate owners.

We expect there will be more attention paid to privacy in an increasingly connected and mobile-first world. Identity will expand beyond people and their personal identity to the identity of objects and their authenticity, accentuating the need to protect personal information across in-

creasingly interconnected devices, services, and applications.

And finally, security policies and best practices will surely become as important as technology advances. The industry will sharpen its focus not only on what to deploy, but how – from the first mobile driver licenses in the US to unified credential management systems that enable organizations to more holistically address both facility and information security. The industry will also adopt best practices, so stolen identities are useless to thieves.

## CONTACT

Assa Abloy, Berlin, Germany

Tel.: +49 030 8106 0 · [www.assaabloy.de](http://www.assaabloy.de)

## TeleEye: MQ Series 1080p HD IP Cameras

TeleEye brings out the MQ Series high performance HD IP cameras that capture images at 1080p resolution. This series comprises of 6 different models which include fixed, vari-focal, vandal-resistant domes, IR fixed and bullet cameras. In order to fulfil the increase in demand for security flexibility and scalability, the new TeleEye MQ Series is compatible with existing TeleEye GX Series, sureREC HD DVRs and software such as sureSIGHT, sureGUARD and iView HD. This enables users to customise their surveillance system to their specific needs which creates a powerful solution when it comes to overcoming security issues effectively. For existing TeleEye users, the setup is a simple and quick process, as the MQ Series can be applied to the current system and products. MQ Series are ONVIF Profile S compatible which means that common functionalities are shared with other ONVIF conformant video recording servers and management systems.



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

## Protect Introduces API for Fog Cannon Remote Control



Control centers can now integrate Protect's fog cannon units into their remote monitoring and even activate the fog cannon units in an emergency. The fog security manufacturer has just introduced an API enabling their devices to be integrated with the control center's third-party systems such as Milestone, Mastermind, Bold, Interview, ESI and Patriot. They can quickly get a detailed status of each individual fog cannon at customer sites, so they only need to be physically inspected by technicians when there is a problem or the need for fog fluid replacement. Also the control center can, for example, integrate monitoring, security cameras and sound, talk directly to burglars and, where necessary, activate fog cannon units.

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



## Zero-latency Wireless Compact HD Video Transmission

Amimon has introduced its Connex mini wireless HD video link for smaller, lighter aerial drones. This delivers full HD video, zero latency, digital transmission reliability, AES 128 encrypted transmission for live and sensitive shots and multicasting functionality at distances up to 1,600 feet (500 meters). Ram Ofir, Amimon CEO, said "Connex mini opens up a whole new horizon for aerial video production applications such as local news gathering, inspection and security, wedding videos and real-estate property documentation." The transmitter that mounts on the drone measures only 65 x 45 x 15mm, and weighs only 40 grams. The receiver unit measures just 100 x 71 x 18mm and weighs only 140 grams. It also provides telemetry and control solutions for S-bus, Canbus and PPM drone controllers.

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

[www.GIT-SECURITY.com](http://www.GIT-SECURITY.com)

## Vivotek Introduces 3D Surveillance System Project Design Tool

Vivotek has launched an IP Video System Design Tool, which allows system designers to simulate the coverage of any Vivotek network camera system in both 2D and 3D. This free-of-charge tool saves system designers time when determining the ideal position for any network camera, using the tool's lens focal-length and viewing-angle calculator. The latest camera information can be updated either manually or automatically. The Design Tool can also estimate bandwidth and storage requirements to help shape the network video systems for any number of network cameras and video servers. By fully adopting the intuitive interface and utilizing 2D and 3D modeling, system designers can accurately check the field of view and therefore reduce blind-spots.



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

## High-spec Explosion-proof Cameras

The Maximus MVX cameras from Videotec provide effective video surveillance and process control in harsh settings where the presence of gases or flammable dust can create a potentially explosive environment. The cameras meet the strictest international standards including ATEX, IECEx, INMETRO, EAC Ex, ETL for Zones 1 and 2 (Gas), Group IIC T5 and T6 and for Zones 21 and 22 (Dust), Group IIIC T100°C and T85°C. The range includes Full HD, analog and thermal camera models in order to meet every type of installation requirement, with visible cameras equipped with motorized zoom for easier setup. The housing is made entirely out of AISI316L stainless steel, resisting corrosion. The extended working temperature range of -60°C to +65°C (-76°F/149°F) along with a sophisticated cold start system allow it to operate in harsh environments. The IP66/IP68 ratings guarantee complete protection against harsh weather and submersion up to 5 meters for 2 hours. Moreover the IP69 rating allows the device to be cleaned with high pressure water jets.



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

## Dahua: 4K Ultra-HD Network Camera Series

Dahua Technology announced its latest 4K Ultra-HD Network Camera Series – DH-IPC-81200. This series has a 12-Megapixel (4K UHD) resolution and features a 4K ultra-HD codec and smart detection. All models of the DH-IPC-81200 Network Camera Series provide a total resolution of 3840 X 2160. This series employs the Sony Exmor R 1/1.7" CMOS color sensor with 12-Megapixel effective resolution and the Ambarella Cortex-A9 1GHz dual core DSP which generates clearer images with higher sensitivity and lower noise. Dahua HFW81200E-Z and HDBW81200E-Z both enable 4 times optical zoom with synchronous focusing and zoom & focus within 5 seconds. The powerful lens offers a wide angle viewing range (106° ~32°). The 4K ultra-HD series adopts the new E-PTZ function which offers auto-tracking for objects that triggered an alarm. The software enables a variety of intelligent functions including IVS, face detection, people counting and heat map.



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



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Salzburg's City Center is secured by a magnet-code system

## LOCKING SYSTEMS

# MCS for Everyone

## Salzburg's City Center is Secured with a Magnet Code System

Road traffic has been totally banned from the center of Salzburg since 2010. Automatic and permanently installed bollards at various locations restrict the traffic. MCS has been installed there since 2015 and ensures that only essential vehicles pass.

"The section of roads that is secured with bollards is fundamentally not suitable for general traffic", explains Christian Morgner, who is responsible for the bollards throughout the city of Salzburg. "It is therefore all the more essential that a barrier only lets those drivers in and out who are authorized and who have an appropriate key." Twenty-three automatic bollards of the latest generation at twenty locations and 45 other permanently installed barriers provide a noticeable traffic reduction in the Salzburg city center.

### No Unauthorized Entrance and Exit

The bollards that had been in use in Austria since the 1950s were locked with the usual Police or Service key. Over the years, it is not surprising that many copies came into circulation that increasingly allowed unauthorized drivers access to the city center. It is estimated that around 5,000 key copies were in circulation. This high number of copies – and the resultant low level of security – demanded that a new lock system be installed urgently that would provide one hundred percent protection against copies. The solution to the problem was an MCS or 'Magnet Code System' from Evva. The system was installed by Evva-Certified Partner PKS Sicherheitssysteme. "As far as I know, an MCS key has never been copied. So in my opinion this was absolutely the best solution for the customer", said Bernd Popp, Managing Director of PKS.

"We were looking for a simple, robust and already proven mechanical solution that would work reliably in the long term and is secure against copied keys. Apart from that, it should be possible to extend the system without problems", added Morgner. The Magnet Code System is impressive due to its immense variety and because it allows very complex access hierarchies.

### Magnet Technology

The security technology of MCS was developed in close cooperation with technical universities and uses the power of magnetism. Evva is the only manufacturer that produces such a highly secure magnetic system. "MCS has only been installed recently and is working without any problems", said the satisfied bollard supervisor.

## CONTACT

**Evva**

Vienna, Austria  
Tel.: +43 1881 650  
[www.evva.com](http://www.evva.com)

## LOCKING SYSTEMS

# Winter-proof

## Assa Abloy Secures Critical Swiss Infrastructure

Securing sites operated by Industrielle Werke Basel (IWB) tests a locking system to its limits. The infrastructure company supplies residents of Switzerland's third-largest city with electricity, district heating, biogas and natural gas, and safe drinking water. Locks must offer maximum security, as well as stand up to freezing temperatures, heavy rain and solar radiation.

For IWB, the answer was Cliq from Assa Abloy. This is an intelligent mechatronic locking system that combines mechanical security and electronic access control. Users are issued with a single, programma-

ble key that enables them to open just the locks for which their key has authorization. Power for communication between key and cylinder comes from a standard battery inside each key. There's no mains power line to the cylinders, which means the system needs no wiring – a big advantage for any public utility with lots of remote or outdoor openings.

Cliq cylinders have precision mechanics inside and are compliant with EN1303, EN12320, and EN15684 and offer high levels of protection against physical attack. They are IP rated, waterproof and ATEX approved for use in potentially explosive areas.

"Public utilities really push locks to their maximum," says Christoph Oberle of Assa Abloy Switzerland. "Critical infrastructure sites are usually dispersed and often outdoors, so locks must be reliable in all seasons. That's why we precision engineer Cliq technology to the highest standards so it can weather whatever nature throws at it."



High security for critical installations

The system is also a practical and time-saving solution. If an employee or contractor loses their key, it's straightforward for system administrators to delete its authorization using the administrative software. IWB no longer has to go through the expensive refitting of cylinders every time a vital key goes missing.

### CONTACT

Assa Abloy EMEA

London, United Kingdom

Tel.: +44 7825 721 642

[www.assaabloy.co.uk/secure-infrastructure](http://www.assaabloy.co.uk/secure-infrastructure)

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ACCESS CONTROL

# Securing the Door to Success

## Paxton Access Control Showcased at Intersec in Dubai

Paxton, a designer and manufacturer of electronic IP access control and door entry equipment, exhibited again at the trade show for security held in the Middle East, Intersec in Dubai, held at the Dubai International Convention and Exhibition Center in January 2016. The company's stand formed part of the UK Pavilion where visitors could find out more about the range of innovative security solutions, including its award-winning IP-ready door entry system, Net2 Entry.

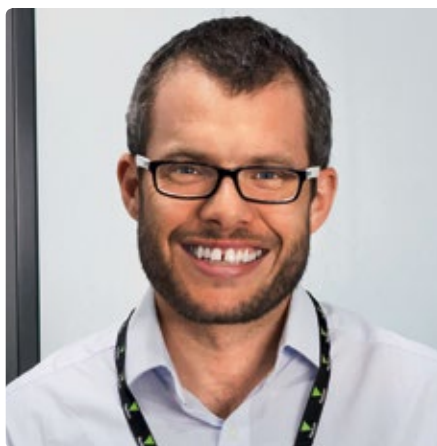


Standard and vandal-resistant Net2 Entry door panels

Based in Brighton in the UK, Paxton manufacture all products locally and export to over 60 countries worldwide. Applying their 30 years' of experience in keeping their door entry system simple, Net2 Entry consists of just three components that auto-detect on set up for a true plug and play solution; external panel, interior monitor and door controller. The company launched two brand new panels in September last year, standard and vandal resistant, and released an update to the Net2 Entry system to offer enhanced door entry functionality for versatile security and building management.

### Free Training

On-stand demonstrations enabled delegates to see for themselves how straightforward the products are, having been designed to be easy to use, install and maintain. Products are available to purchase through Paxton's dedicated network of distribution partners in the UAE; Anixter, Mayflex, NIT and Norbain. An international team of industry experts was on hand to offer advice and informa-



EMEA Sales Manager for Paxton Access is Dan Drayton

tion about products and training. The company offers free, hands-on training for its complete range of standalone and networked products. Sessions provide the essential knowledge needed to fit Pax-

ton products, including installation techniques and fault finding as well as useful information regarding the administration and use of the systems.

Dan Drayton, Sales Manager EMEA at Paxton Access said: "We were delighted to return to Intersec. The show provides the biggest shop window for the security sector in the Middle East and exhibiting there is an important opportunity to demonstrate our growth and commitment within this market. Following a successful year in the UAE we were able to catch up with our existing customers and distribution partners, as well as establish relationships with new customers, providing them with information about our company, our product range and our training program."

### CONTACT

**Paxton Access Ltd**  
Brighton, United Kingdom  
sales@paxton.co.uk  
www.paxton.co.uk

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## TRADE SHOW

# Intense Knowledge Transfer

## The Sicurezza Event Has Successfully Moved To Odd-numbered Years

The organizers of the most recent Sicurezza that took place in Milan in November 2015 had promised a lot in advance of the show. With new initiatives, special events and a plethora of promotional activities, they worked hard to ensure that the event lived up to its growing reputation of previous years. And did they succeed? The conclusion after three intense days in Milan is: yes.



Almost nineteen thousand visitors attended the three-day event

Intentionally held only every two years, the emerging themes of the international security exhibition that filled the Fiera Milano again could be summed up in three words: convergence, solutions and internationalization. It played host to the leading market players in the security industry from thirty nations who presented their state-of-the-art products, solutions and services that make people and property more safe and secure on a daily basis, and thereby improve the quality of life. The organizers managed to attract over 330 exhibitors from 30 countries, and required 10% more space than last time to accommodate them all. Over 950 meetings between sellers and buyers were pre-arranged and 67 separate events scheduled over the three exhibition days that were attended by almost 19 thousand industry professionals.

### Things on Networks

A number of so-called 'vertical initiatives' were organized in conjunction with specialist publishers and companies. The Security for Retail show addressed the security needs of all sorts of retail outlets, from small boutiques to isolated stores and large supermarkets, who all suffer to a greater or lesser extent from shoplifting and – let's be polite and call it – 'inventory discrepancy'. Turning security equipment into a dual-use investment that delivers valuable sales data was also a hot topic.

Networks have a habit of growing way beyond their original design and keeping tabs on the se-

curity of these right down to hard-disk level was ably discussed within the Digitalic, ICT Security Village. A number of well-known software and hardware suppliers contributed to this highly informative pavilion. Living on these networks is of course now the Internet of Things (IoT) – aka the 'fourth industrial revolution'. Static and live displays and workshops as well as a significant amount of information transfer – the old-fashioned way between people talking – in pavilion 24 shed a lot of light on this emerging subject. The networking venue brought together companies currently working on the integration of intelligent devices and the security issues that arise from that.

Bang up-to-date at Sicurezza was the drone flying area where these multi-purpose platforms equipped with all manner of devices could demonstrate their capabilities. Two accompanying conferences enabled a rapid learning curve on this contemporary security trend.

### Healthy Outlook

Sicurezza offered a snapshot of an industry that looks to be in fine health. Despite the backdrop of a major economic downturn, the industry continues to register growth. In Italy in 2014 it closed almost 5% up on the previous year with a turnover of €2 billion. Video surveillance registered the highest growth, up by close to 10% on an annual basis (source: ANIE Sicurezza).

So one thing that exhibiting manufacturers will have learned if they didn't know already: technology innovation and advancement have made it clear that it is necessary to go beyond an individual product-based approach. The future evidently lies in integrated solutions, a fact confirmed by the avid attention shown in the Solutions Gallery which showcased 360-degree solutions in a number of different vertical markets: fire protection, burglary prevention, access control, video surveillance, transport (rail, sea, air and road), retail, banking, urban security, healthcare and hospitality (hotels, holiday resorts).

You'll have your next opportunity to visit the bustling city of Milan and the next edition of Sicurezza in November 2017, between 15<sup>th</sup> and 17<sup>th</sup> to be exact. The event has moved from being held in even to odd-numbered years and, nowadays, two years is a long time in the security industry so there will for sure be many ground-breaking developments before then. We can expect more new initiatives from the organizers that will bring Italian and multinational manufacturers, buyers and integrators in the world of security together again at Sicurezza 2017.

### CONTACT

Fiera Milano S.p.A.

Milano, Italy

Tel.: +39 02 499 76 221

www.fieramilanotech.com

## VIDEO SURVEILLANCE

# Cloaks of Invisibility

## Panasonic's Surveillance Solution Masks out People and Private Zones

Object surveillance in companies strongly links to privacy topics. This complex is now solved by new software: Panasonic's Privacy Protection Solution. It is able to mask customers and employees. This means that you can see the movement of masked objects via silhouettes and surveil specific areas at the same time.



### Controversial Privacy Issues

Being a logistics entrepreneur, surveillance for warehouses and stocks seems necessary. As a manager of a bank you may want to monitor your waiting rooms or transactions on your counters. However you do not want your clients, customers or employees to feel controlled. The need to protect people's privacy in order to protect the assets of the business becomes a big topic. Backed by social problems caused by the unintended leaking of personal information, there is a growing trend in recent years to protect people's privacy. A single invasion of privacy can cause losing the business assets. It is quite common to assume that security cameras, which are used to monitor people, are not intended to protect privacy. And if privacy is taken into consideration, monitoring becomes impossible.

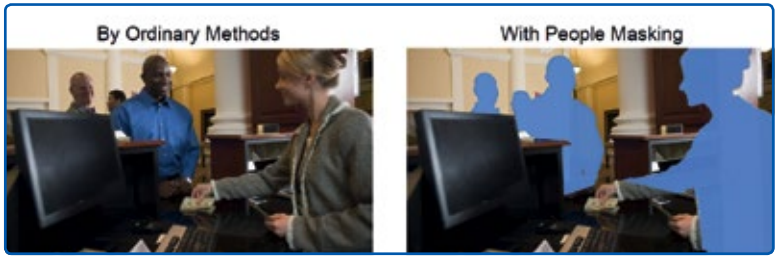
The legal situation supports the whole controversy: Surveillance images that identify individuals are strictly controlled by law. The EC-Federal Data Protection Act has already become hard national German law. The influence of legal authorities will become extremely strong from 2016 onward. This act has to become national law in all EU countries at some future date.

### Panasonic's Privacy Protection Solution

The Panasonic security system developed a solution that is able to mask only the customers and employees within the image. And when you want to remove the privacy restrictions due to the occurrence of some kind of trouble, the image can be viewed without the masking. The part to be monitored is captured while protecting the privacy of customers and employees. This is Panasonic's Privacy Protection Solution. So users can have privacy protection and surveillance at the same time.

### How is It Working?

The MOR (Moving Object Removal) function masks moving objects, and blacks out areas that one definitely wants to conceal. In contrast, it can remove the MOR function for areas that want to be monitored with high precision. And it can protect privacy in scenes that you want to monitor. This means that you can see the movement of masked objects via silhouettes. But if you want to take a closer look at a masked area, you can just unmask it by using area control. So, there may be zones that shouldn't be monitored at all. Those locations can be set as fixed privacy zones. Additionally, workers in fixed positions can be set as constantly masked zones. And it also works the other way around: zones where cargo passes can be set as non-applicable zones. It is obvious that this kind of solution becomes crucial in different fields. Logistics as well as Retail and Banking to name a few: Monitoring product distribution on production lines and in warehouses, monitoring shelf goods and money transactions or waiting rooms and counter documents.



Surveilling Transactions in a Bank



Warehouse surveillance



Surveillance in Retail

**What is Needed to Install It?**

For those who plan to install cameras, Panasonic has a camera-based solution. The new camera provides protection of privacy with minimum initial costs for software or servers. It is able to deliver images with and without masking. This can be controlled according to authority level.

For those who have already installed cameras, Panasonic has a PC-based solution (available in June 2016). The new WV-ASM200 supports protection of privacy using existing cameras for effective use of assets. Even if only images without masking are captured, masked images can be generated on the server side. Masking and non-masking can be controlled during monitoring and played back according to the authority level.

Panasonic creates a solution that provides privacy measures while using existing analogue systems.

**CONTACT**

**Panasonic System Communications Europe PSCEU**  
 Bracknell, United Kingdom  
 Tel.: +44 207 022 65 30  
<http://business.panasonic.eu>

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The system installation was quick and simple

Majmaah University in Saudi Arabia was founded in 2009 as part of a state-sponsored Ministry of Education initiative to meet rising demand for university education and research in Saudi Arabia. Teaching and research is delivered through 13 academic schools and around 20 buildings across its key campus sites located almost 50 km apart. Idis has delivered a comprehensive HD surveillance solution to enhance the safety of students and staff across the multiple locations.

## VIDEO SURVEILLANCE

# Widespread HD Surveillance

## Idis DirectIP Solution Enhances Safety at Majmaah University

The main campus is in Majmaah city, with key satellite sites in Hawtat Sudair and Alghat. The networked solution includes 336 pan-tilt-zoom (PTZ), box, dome and infra-red bullet cameras, 18 network video recorders (NVRs), a suite of ISS Expert servers and clients and 16 DAS systems. In addition, a new command center at Majmaah was fully equipped with control equipment, including an ISS video wall and 512Ch federation server to provide centralized monitoring across multiple campus sites.

The university security team chose the integrated Idis DirectIP solution in collaboration with regional security systems integrator Digital Media.

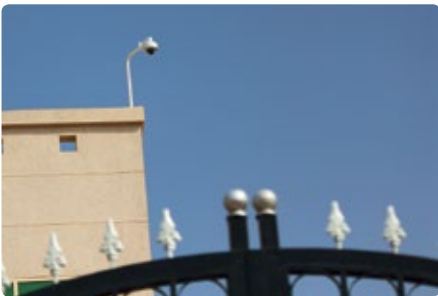
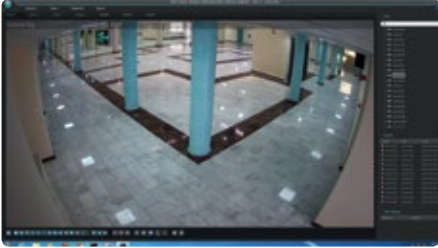
DirectIP is an optimized HD surveillance solution based on an IP framework, consisting of IP cameras, NVRs, network equipment and client software as a complete package.

Decisive factors for this solution included centralized control, reliable remote monitoring, an excellent image quality, rapid video retrieval, optimized use of the network bandwidth and a low total cost of ownership. Other benefits included fast plug-and-play deployment, compatibility of all surveillance systems with the Idis Solution Suite (ISS) video management software as well as the system's administration and reporting capabilities.

### Simplicity

Ahmed Dahi, General Manager of Digital Media said: "Following a thorough review of available surveillance systems, the integrated Idis DirectIP solution proved to be an ideal match. It was quick and simple to install, while the user-friendly software enables the university's in-house team to easily manage monitoring, playback and reporting from any network device."

The security manager at Majmaah University said: "Maximizing safety for students and staff across our campus locations is central to our duty of care. Thanks to this solution, we can easily and cost-effectively maintain high quality security and



provide added peace of mind for our students, faculty members, staff and visitors. This is in turn enhancing the quality of the educational environment and supporting our strategic aims."

## Education Goes Global

Harry Kwon, General Manager of Idis Middle East and Africa, added, "We are delighted that Majmaah University chose our DirectIP solution and that it has been so well received. In today's rapidly expanding and increasingly global university education sector, maintaining a positive reputation as a safe learning environment is vital to the success of any university. We are therefore pleased that this system is making a valuable contribution to the pursuit of learning and knowledge at one of Saudi Arabia's newest universities."

He added, "This news also marks the start of an exciting collaboration between Idis and Digital Media. Thanks to the in-depth expertise of the Digital Media team, the installation was carried out quickly and smoothly without disruption to routine operations. In addition to the installation of all network equipment and devices, Digital Media ensured a seamless handover to the Majmaah in-house team. We are looking forward to a long and mutually successful partnership."

## CONTACT

**Idis Middle East**

Dubai, United ARAB Emirates

Tel: +971 4501 5434

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

## Locking without the Use of Keys

Locking and unlocking cars with electronic remote control keys has long been standard practice. With Mobile Key by Simons Voss this now also works for doors and replaces the old key by a digital transponder, a PIN code keypad or a smart phone. Instead of a mechanical cylinder, an electronic one is installed in just a few simple steps. There are no wires, no drilling and, with the free web app, configuration of the system by the user is quick and easy.

The all-inclusive solution can accommodate up to 20 doors and 100 users. If a transponder is lost, it can be blocked via smart phone and a new one simply programmed to replace it. An Internet-capable computer, tablet or smart phone is used to create personal locking plans: who is allowed to enter which rooms, when and for how long. Then the data is transmitted to the digital door cylinders with the configuration device, or via Smartbridge in the online version. [www.simons-voss.com](http://www.simons-voss.com)



## IP Cameras With 3K HD Resolution

The cameras of Dallmeier's DF5300HD Topline series have been designed for applications that require high resolution in real-time and simultaneous good light sensitivity. The sensor and encoder technology and image processing provide images with a resolution of up to 3K High Definition. The good light sensitivity of the sensor ensures crisp color images, even in low lighting. At night, the cameras also provide good images due to the high infrared sensitivity. The cameras are equipped with an ambient light sensor and a removable IR cut filter, and can automatically switch between day and night mode. In addition, different exposure setting presets can be defined for day and night. [www.dallmeier.com](http://www.dallmeier.com)

## Video Recording Platform Meets Need for More Data Storage Capacity

Teleste has introduced a new video recording platform to the company's S-VMX video management system. As part of the S-VMX video management system, the new high density network-based video recording platform extends data storage capacity in a cost-efficient and flexible manner. There is virtually no limit to its recording capacity and the number of streams that can be processed. Capable of multi-petabyte recording, but also processing several thousands of cameras, the platform is fully secured and backed up. Doubling the storage capacity of each disk, it supports 8 terabyte hard disks and its high-definition design allows for installation of more hard disks than previously. A 3U chassis can process and record 800 Full HD video streams. [www.teleste.com](http://www.teleste.com)

## New Integrated Security Software Solution

Integrated security manufacturer Tdsi announces the launch of the latest version of its fully integrated access control solution – EXgarde 4.5. The new version includes full two-way synchronisation with Milestone's Access Control Module (ACM) and integration with the recently launched Assa Abloy's KS100 server cabinet electronic lock. EXgarde 4.5's integration with Assa Abloy's KS100 server cabinet locking solution is also an important addition. The new EXgarde Milestone ACM plugin builds upon previous integration but ensures both of these powerful systems can work in full conjunction with one another. When integrated with Assa Abloy's new KS100 solution, EXgarde 4.5 extends full control and visibility to the security team of the servers it protects. [www.tdsi.co.uk](http://www.tdsi.co.uk)



## Video Management System Integrates Third-party Products

Bosch Security Systems has just released its Video Management System 6.0, a more open version of its digital video-management software. Bosch VMS was originally designed for managing the company's own video hardware features. It now also offers seamless, end-to-end integration with selected third-party cameras and video-data storage systems, as well as other hardware and software solutions such as video walls and third-party video analytics. Bosch VMS 6.0 customers can download updates free of charge to integrate newly approved third-party cameras. Bosch VMS 6.0 scans for third-party cameras, automatically configuring motion and other key events; it also enables installers to configure the most important settings for third-party cameras from a single user interface. [www.boschsecurity.com](http://www.boschsecurity.com)

## VIDEO SURVEILLANCE

# From the Hat of a Magician

## Dahua Elaborates on the Application of the H.265 Compression Standard

Driven by an ever growing demand for high definition and the development of image processing, 4k is now definitely a buzz word on the market, playing an increasingly vital role in video surveillance. It finds particular application in situations such as safe city concepts, parking lots, harbors, plazas and other large spaces. However, the high level of detail that it captures puts pressure on decoding and storage hardware. Luckily, the development and introduction of H.265 brings new possibilities and optimism to the industry.

High Efficiency Video Coding (HEVC), also known as H.265, is a proposed video compression standard – a successor to H.264/MPEG-4 AVC (Advanced Video Coding) – that is currently under joint development by the ISO/IEC Moving Picture Experts Group (MPEG) and ITU-T Video Coding Experts Group (VCEG).

Compared to the current mainstream H.264 standard, H.265 is said to be capable of further reducing the data rate required for high quality video coding at 1080p by 50 % while still rendering superb image quality. It addresses problems such as the shortage of bandwidth and improving transmission efficiency while delivering other benefits.

Simply put, H.265 can first of all downsize video footage to a great extent while playing fairly smooth video with a low bandwidth requirement, and these factors should further drive market demand for 4K/Ultra HD. Secondly, with the fast development of 4G and mobile technology, integration between the two industries will provide many more amazing possibilities.

### The Chicken and the Egg

Despite all the potential benefits, this compression standard is still new to video surveillance industry and it will take some time to be adopted and adapted. Dahua Technology, keeping the big picture in mind, is bringing it to reality already. The company has adopted H.265 in its latest product portfolio that includes network cameras, NVRs, transmission devices and video wall systems.

To start with the cameras, Dahua has released a 5 Megapixel ultra-smart network camera that uses an H.265/H.264 dual codec, allowing over 40 % less bandwidth usage while acquiring outstanding image quality. With its ultra defog, Rol and intelligent detections functions, the camera can make surveillance images clearer, smarter and smoother. The company's NVRs have up to 12 Megapixel decoding capability, supporting 1080P@60fps as well as H.265 preview and



The H.265 standard should further drive market demand for 4K/Ultra HD

playback or 4-channel 4K real-time live view and playback. Intelligent functions including behavioral analysis and facial detection are also supported in the eco-friendly products.

Dahua also introduced an M70 control platform to the H.265 standard that can decode multiple channels of H.265 video at the same time. Its modular design enables the M70 to handle up to 40-channel UHD video outputs, each supporting H.265 decoding, and these can be presented as an integrated image by combining HD outputs.

### H.265 Brings More Possibilities

"Obviously, H.265 is one of the major compression standards that allows us to implement UHD solutions such as 4K or even 8K, which is definitely the trend of video surveillance" said James Wang, Product Director of Dahua Technology. "The benefits H.265 brings are not limited to those mentioned so far. Just like a magician's hat, you can expect much more from it. For example, our R&D has car-

ried out some great performance tests on bitrate control, image quality balance as well as intelligent analytics and tracking. I always feel thrilled about new technologies as they have the potential to nourish many new possibilities, to bring products, industry and even our society to a better place," Wang added. "H.265 is just such a case; we have the confidence to tap the potential of this standard and to make full use of it, so my advice is to see how we use it as magic."

### CONTACT

Dahua Europe B.V

Tel.: +49 178 8820121

www.dahuasecurity.com

VIDEO SURVEILLANCE

# Small but Powerful

## Self-contained or Networked VMS from Geutebruck

The G-Scope family of video management products addresses the needs of the simplest and also the most complex surveillance systems. The most compact in the range, the G-Scope/1000: Powerful Compact, makes an ideal satellite within a complex networked system. It is equally well applied in very small installations where, for example, it would be too small and too hot for comparable devices.



Use as a stand-alone device or as part of a complex, networked system

Geutebruck's 'Powerful Compact' suffix to the model number fits this machine well. It can, for example, even be fitted within a cash dispenser, one of the tightest and sometimes hottest spaces in which electronic equipment must function reliably. The G-Scope/1000 is equipped with a 64-bit G-Core video engine. Integrated GPU acceleration ensures image processing up to three times quicker than comparable products while the dual database architecture enables quick access to captured images and high security against manipulation. Integrated video analysis completes the package and provides activity detection for movement con-

trol of recording or movement detection as well as scene validation for monitoring of the cameras. Recordings are replayed via two monitor connections on the rear, so the G-Scope/1000 provides a complete solution for smaller installations.

However, the device also works equally well as part of a complex networked system. It is fully compatible with all other versions of G-Scope and, with G-SIM security information management, it is ideal for unmanned and/or remote locations. Its working temperature range of 50°C extends the range of places that it can be installed. Geutebruck's video analysis options also make the unit

flexible in its application, from securing outside areas to number plate recognition. With up to 10 IP and 4 analog cameras connected, together with a storage capacity of up to 6TByte, it certainly is 'powerful' for its size.

**CONTACT**

**Geutebruck**

Windhagen, Germany  
 Tel.: +49 2645 137 0  
 info@geutebruck.com  
 www.geutebruck.com

more info at [www.PRO-4-PRO.com/security](http://www.PRO-4-PRO.com/security)

## Security Products

### 6 Megapixel Surround Day & Night High Performance Mini-Dome Camera

Brickcom Corporation has a new product to show: The MD-H600Np-360 DN 6 Megapixel Surround Day & Night High Performance Mini-Dome Camera. The MD-H600Np-360 DN provides 6 megapixel resolution and high video quality. It is equipped with back-illuminated Pixel technology and Brickcom 3D-DNR technology which is able to display a clear image with smooth streaming quality and provides low-lux performance. Besides, with built-in IR illuminators, the camera is capable of showing a clear image. It is equipped with a lens for 180° panoramic view (wall mount) and 360° surround view (ceiling/floor/table mount) to fit different kind of needs.



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

### Enhanced Victor Video Management System

Tyco Security Products has introduced version 4.8 of the victor Video Management System (VMS) and VideoEdge network video recorders (NVR), adding several new investigative tools to further simplify incident reporting for busy surveillance operators. The newest version of victor enables operators to quickly build and edit video clips of a specific incident, reducing the time spent searching for video evidence from hours to just minutes. Using the new clip builder and image editor features, operators can split, cut, crop, delete and add relevant segments of video to a clip while also adding information directly on the image to better document actions occurring in the scene. The new schedule clip download tool enables surveillance operators to schedule the automatic retrieval of reoccurring video clips.

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



The refurbished display area has unsighted corners where cameras now advise of customers needing assistance

## VIDEO SURVEILLANCE

# Splash Out On Security and Service

## Improved Customer Care through Video Technology

Schoneboom in Schneverdingen, Germany, is a master craftsman's business specializing in bathroom refurbishment and heating engineering. The firm relies on the most up-to-date video equipment from Dallmeier, not only to safeguard its business premises but also to enhance customer care.

The company was founded over 100 years ago and quite recently completed extensive renovation work at its head office. A 450m<sup>2</sup> exhibition area has seen the creation of a master skills center for modern bathrooms and efficient heating technology. Tiles, lighting, showers, bathtubs and furniture from renowned manufacturers are on display here, and customers can discuss the details of planning and designing their personal bathroom furnishings in individual advice booths. As part of the building project, the old analog video surveillance system was also replaced with modern equipment.

Schoneboom has been a customer of Triplus, and relied on the IT systems house for services and products in all matters relating to IT systems, telecommunications and office equipment, for many

years. On their recommendation, Schoneboom decided to approach Dallmeier when selecting new video equipment. "The software from Dallmeier is simply amazing. Configuration is really easy, and the search for relevant image sequences is super fast with SmartFinder", explains Matthias Schröder, Technical Project Manager at Triplus. Several cameras now provide protection for the warehouse and outdoor areas of the business premises. The outdoor cameras are also equipped with integrated IR illumination to ensure clear visibility at night.

### Hidden Corners

Cameras have been installed in the showroom area too – their main purpose is to help provide

fast and efficient customer care. Jörg Briesemeister, Managing Director of Schoneboom, explains: "The exhibition space has a lot of blind angles and it is difficult to oversee it all. But with these cameras, our employees can see everything clearly from the counter and know if there are customers in the exhibition area who would like some advice."

The images from the cameras are recorded on a Videonetbox II, a compact video appliance with a processing capacity of up to eight IP channels. It is capable of a very high storage speed and is optimized for simple hard disk installation. A total of six workstations, each equipped with the Smavia Viewing Client software, are available for analysis work. Besides the fast, intuitive display of live views, the client also offers sophisticated navigation and search





Detail in bathroom design requires planning and customer advice

functions. A particular highlight is SmartFinder, a system that supports the intelligent search for movements in any part of the images. "It could not be faster or easier to carry out a search", says Matthias Schröder. "You simply drag the square over the area of interest in the image, and the search starts. The system outputs a list of all sequences with a movement component within a few seconds."

**Remote Access**

In order to provide the best possible customer care, Triplus and Schoneboom jointly set up a remote maintenance service for the video system. "When maintenance becomes necessary, this enables us to log onto the system remotely and carry out the work immediately", says Matthias Schröder. Jörg Briesemeister also uses the remote access function of the system. He can see every part of his business wherever he happens to be via the Dallmeier Mobile Video Center smartphone app. "The technology is highly ingenious and user-friendly, and the customer care from both Dallmeier and Triplus is exceptional. We are very satisfied with our choice."

**CONTACT**

**Dallmeier electronic**  
 Regensburg, Germany  
 Tel.: +49 941 87 00 0  
 info@dallmeier.com - www.dallmeier.com

more info at [www.PRO-4-PRO.com/security](http://www.PRO-4-PRO.com/security)

Security Products



**Surveon: Comprehensive Surveillance Solutions**

Surveon Technology revealed a wide range of product lineup throughout Intersec. At Surveon's booth, a variety of solutions tailored to different project scales displayed the latest solutions for their projects. The newly released intelligent analytics cameras come in three different form factors, including box (CAM2441HI), outdoor bullet (CAM3471HI), and outdoor dome (CAM4471HI). For network video recorder, the Linux-based SMR series, SMR2110/5110 and RAID NVR3308 provide cost-effective solutions for small-mid size system. When it comes to performance-driven solutions for mid-large size applications, Linux RAID NVR 5316 with cable-less and redundant module hardware design is ideal for hassle-free maintenance and performance optimization. In addition, Infotrend EonServ 5016/5012 H/W RAID Server designed for surveillance storage with iSCSI/SAS JBOD expansion also provides ultimate advantage in extended data retention.

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



**Special Edition of Door Controllers**

Tyco Security Products presents the latest addition to the iStar Ultra product range: iStar Ultra SE. The iStar Ultra SE (Special Edition) is a panel that features all the possibilities and future-proofing of the iStar Ultra but is based on a Linux platform and is developed to ensure compatibility with existing customers C-CURE 800/8000 systems. The iSTAR Ultra SE is the perfect bridge for existing customers to get the advantages of the latest Software and hardware features, including: a powerful network-ready door controller for up to 32 readers (16 from ACMs), a switch from "Pro mode" for use with C-Cure 800/8000 and C-Cure 9000 to "Ultra mode" for use with C-Cure 9000 v2.50, a smaller ACM enables cost effective upgrades from apC and iStar Classic/Pro; It supports Assa Aabloy Aperio wireless locksets, providing a fully integrated and managed lock solution and also Dual GigE network ports for redundant network operation. Rack-mount models provide flexibility in mounting options.

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

# THE WINNERS OF THE GIT SECURITY AWARD 2016

## SAFE AUTOMATION

### Category A

#### Safe Automation

#### Leuze Electronic: RSL 400

##### Safety Laser Scanners

16 models with ranges of up to 8.25 m and two autonomous protective functions – the user is sure to find the right device here. In combination with the compact design, the devices' large scanning angle of 270 degrees is especially advantageous when safeguarding around the corner. The safety laser scanners can be configured not only using Ethernet TCP/IP but also wirelessly via Bluetooth. The creation of protective fields (100 field pairs) and function assignment is easier than ever with application-oriented one-step configuration. A text display with electronic level ensures simple alignment of scanner and robust connection unit. With this mechanical and electrical basis, realignment and readjustment are no longer necessary.



#### Omron Electronics: F3SG

##### Safety Light Curtain Series

Investigations done by Omron show that most of required time consuming actions in the life cycle of a safety light curtain is caused by alignment and troubleshooting during operation. Therefore, Omron decided to improve these issues and designed features to reduce the required time dramatically up to 80%. The innovative Smartclick connectors of Omron are one example to reduce time required for wiring and replacement. The light curtains LEDs and the powerful configuration software, that allows logging of signal sequence in muting applications, save troublesome attempts of alignment and prevent unexpected machine stops. In case of an error, operators can use a special QRCode that links to a multilingual special website to check details quickly for trouble shooting and countermeasures.



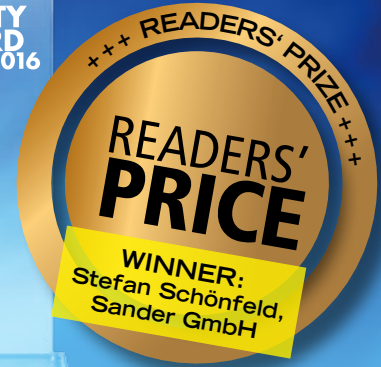
#### Wieland Electric: SP-COP2

##### Compact Safety Control

The new Compact module SP-COP2 is a safety controller and provides in 45 mm housing width 16 safe inputs, 4 safe outputs, 4 user-configurable, safe inputs / outputs, integrated USB and Ethernet interfaces and an SD card slot for the program storage with 512 MB of memory. The SP-COP2 offers industrial Ethernet protocols such as Modbus/TCP, Profinet and Ethernet/IP on-board and can be modularly expanded by further 144 safe inputs/outputs. The projects are realized by the new SamosPlan5+ with hardware configuration, logic programming, offline simulation and analysis of the logic of the project documentation and diagnostics in the operation log and time stamp.



GIT  
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2016



# FIRE AND EXPLOSION PROTECTION, INDUSTRIAL SAFETY

## Category B

Fire And Explosion Protection, Industrial Safety



### Hekatron: Hekatron Remote

#### Remote Access to Fire Alarm Control Panel

Hekatron Remote allows full-scope access to all functions of the Integral IP fire alarm control panel from any location. Among others, these functions include remote reading of the event memory, central production of a maintenance report by just pushing a button, as well as programming and configuring the control panel by the installer. Hekatron offers two different solutions: Hekatron Remote Professional for installers to access display, control and programming functions, and Hekatron Remote Mobile as APP for installers and operators to access fire alarm control panel display and control functions.



### Bosch: Avenar detector 4000

#### Automatic Fire Detector

The automatic fire detector AVENAR detector 4000 features the ISP technology (Intelligent Signal Processing), and is characterized by accuracy and reliability of detection. Due to the Dual-Ray Technology, visible disturbance values like dust are detected reliably. The eSMOG feature provides robustness against invisible disturbance values (e.g. electromagnetic waves by routers). During operation and maintenance, eSMOG offers constant Measuring of electromagnetic fields. Mid- and long-term averages can be calculated and used to



predict the exceeding of threshold values. This saves time and money when it comes to installations and troubleshooting. 2015



### Tyco: Zettler Profile

#### Fire Detection System

Zettler Profile is a powerful fire detection system that uses MZX Technology at its heart. Due to the VdS certified MZX Technology, the system is highly resilient to external factors such as electrical noise or sources of false alarm. The new touchscreen user interface with context sensitive help has been ergonomically engineered so that every operation is made easy. Features such as the touch sensitive LEDs that provide detailed status information ensure a fast response to all system events. The sleek and discreet touchscreen user interface can be shallow mounted in many architectural environments. With up to 2000 loop points in a maximum of 8 ring lines the system is positioned for many scenarios.



# CCTV, VIDEOSECURITY

## Category C

CCTV, Videosecurity

**1** WINNER

### Geutebrück: G-Scope/3000

#### Professional Desktop

3G-Scope's 64-bit video engine guarantees top performance. The integrated GPU acceleration processes images 3 times faster, while the dual database architecture ensures rapid access to stored images and a high level of tamper protection. The HD-based video management solution (with up to 24TBytes storage capacity and 32 IP plus 16 analog cameras) serves as a standalone device, networked for distributed sites or in a centralized system. Integrated video analysis, simple user interfaces and wizard-guided setup make it easy to work with. HW and SW from a single source are perfectly matched. The operating system resides on a separate SSD card. Redundant power supply and application specific VA tools are optional.



**2** WINNER

### Axis: Q61-Series

#### Dome Camera for Sharp Images Above the Horizon

The dome geometry of the Axis Q61-Series Sharpdomes prevents the optical contortion which usually appears with domes in the line of horizon. It also enables cameras to offer the unique capability to identify objects as much as 20° above the camera horizon. Another highlight is the so called Speed Dry function: the high-performance engine moves the dome quickly and hereby removes water drops from the bubble. The highly compact construction and features such as 30x optical zoom with up to HDTV 1080p resolution, Light-finder technology, WDR (130dB) and support electronic image stabilization complete the offering. The cameras are for indoor and outdoor applications.

### Robotix: i25

**3** WINNER

#### Hemispheric Indoor Camera

The i25 Hemispheric camera for indoors delivers a high-resolution 180° panorama image with no blind spots and its compact design blends seamlessly into the surroundings.

A single i25 covers an entire room from wall to wall. It can replace four conventional CCTV cameras without any problems, saving money in the process. Available with either day or night sensor (color or black/white lens), the i25 is perfectly suited to demanding indoor applications with poor lighting conditions. The i25 also features extremely light-sensitive 5-megapixel sensors and facilitates high-contrast images without motion blur, even in poorly illuminated surroundings, thanks to MxLeo (Lowlight Exposure Optimization). The integrated MxActivitySensor detects even the smallest movements and reduces the number of false alarms.



# ACCESS CONTROL, INTRUDER ALARM, PERIMETER PROTECTION

## Category D

Access Control, Intruder Alarm,  
Perimeter Protection

**1** WINNER

### Kaba: evolo smart App

#### Access Management Using Your Smartphone

The Kaba evolo smart app is a simple access solution that is ideal for smaller businesses such as workshops, shops, petrol stations and handcraft businesses, which only need to secure a few doors. On an NFC-enabled smartphone, this app can be used to capture access media and also to configure the door components (digital cylinders and door fittings), making it quick and easy to load people's access rights onto the doors. If any access medium is lost, then simply delete it by using the Kaba app. Access rights can also be assigned to employees for a limited period of time. This free app does not require any internet connection for programming doors – the entire system works locally. No specialist knowledge is required! The hardware installed on doors can be easily transferred to more extensive access management systems at a later point in time, so the investment is secured for the long term.



### Uhlmann & Zacher: CX6172

#### Electronic Door Handle

Be it interior doors, storey doors or connecting doors – the electronic door handle CX6172 in a timeless stainless steel design can be installed in virtually all commercially available doors and controls access to the doors electronically. The complete electronics, mechanical parts, LED signaling as well as power supply have been fitted into the small space of the door handle. The installation in doors – without wiring or need for special tools – takes almost no time at all even if you are not an expert. If required, the door handle can also be controlled via a wireless network. The electronic door handle with its extremely compact construction and minimalistic design is unique to date. It is also very easy to install – the existing mechanical door handle is simply replaced by the electronic door handle – without wiring or special tools. The electronic door handle can be operated of-line and online.



**2** WINNER

### Salto: JustIN

#### Mobile Key Technologie

Salto's JustIN Mobile Key Technology allows users to use their smartphone to access doors. An end-user only needs to download the JustIN Mobile Key app to his BLE-enabled smartphone and then to communicate to the key issuing authority that he wants to receive his door key via his smartphone. The operator needs only to select from the ProAccess SPACE software to send the encrypted key securely Over The Air (OTA) to the user's smartphone. With the JustIN Mobile Key app previously installed, the app will alert the user that a new Mobile Key has been received. The user then simply opens the app, receives a greeting including the door number to be opened, taps the key icon on the app as he presents the phone to the BLE-lock. The lock recognises the correct access credentials and opens. Innovation: Use a smartphone as credential. Not limited to a specific telecom operator or handset



maker, which means flexibility for the enduser and facility, plus the facility issuing the JustIN Mobile Key can personalize the technology inside their own app if desired. JustIN Mobile Key is a complementary and potentially substitute technology to traditionally issued smartcard credentials.

**3** WINNER

# SAFETY AND SECURITY MANAGEMENT

## Category E

### Safety And Security Management

#### Bosch Security Systems: EffiLink

##### IP-Based System Platform For Remote Services

EffiLink is a completely IP-based system platform for services like remote diagnostics and programming. This solution offers a secure connection of customer systems to the Bosch monitoring center via Internet or BoSiNet and is hosted in the Bosch data center in Germany. The continuous surveillance of the system status enables early detection of potential disturbances, which means that an on-site technician would not be needed in certain cases. This improves the availability of systems and saves time and money. Data security on EffiLink is safeguarded at all times by a sophisticated authentication and authorization management. All services have to be actively requested by the customers; remote connections are not possible without the customers' order. Innovative: Bosch Security Systems is the first supplier of a completely IP-based, manufacturer- and system-neutral Remote Services platform for remote diagnostics and programming in the market.

**1** WINNER



**2** WINNER

#### phg: Permetio/NMT

##### NFC Mobile Tool And Electronic RFID Furniture Lock

The NFC mobile tool and the battery-operated electronic RFID furniture lock Permetio is a system to use and administrate stand-alone solutions. The RFID furniture lock based on Multi ISO platform (LEGIC SM4200M) is simply integrable in roll-fronted cupboards, drawers, double doors, lockers, glass cabinet. The lock stores authorization and log data. The lock configuration occurs about master-cards or the NFC-Mobile-Tool "NMT" in combination with a PC software named "Access Manager". The NMT is a universal handheld-tool for bidirectional communication by RFID HF interface which is powered by rechargeable batterie. The complete system is controlled by the software "Access Manager". Configuration data are loaded above the interface USB in the NMT and are distributed afterwards mobile to the locks. The mobile collected lock data are loaded on the PC and can be exchanged when required by CSV-file with other systems.

#### Iscon: SecureScan

##### Personnel Screener

Utilizing Iscon Imaging's patented infrared (IR) imaging technology, SecureScan Whole Body Personnel Screener is a whole-body imaging solution for front-line protection of employees and assets. The SecureScan solution allows users to view objects hidden under clothing, such as weapons or merchandise, ensuring the accurate detection of theft or threats. The innovation: All types of items can be identified with SecureScan whether plastic, metal, powder, wood, ceramic, liquid or encapsulated products, allowing operators to screen for a wide range of merchandise. – The SecureScan displays a high-resolution image from an advanced IR camera on an intuitive touch screen interface, which controls all system administration and management. SecureScan records images securely, adding time and date stamps for use in future prosecutions.

**3** WINNER



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Security Management



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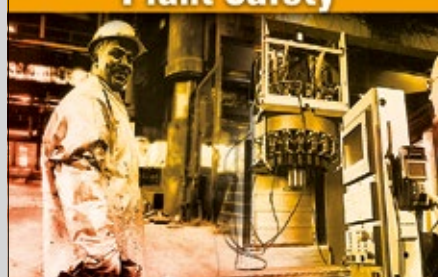
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info@gitverlag.com · www.gitverlag.com

### Managing Directors

- Sabine Steinbach
- Philip Carpenter

### Publishing Directors

- Dr. Heiko Baumgartner  
Tel.: +49 (0) 6201/606-703  
heiko.baumgartner@wiley.com
- Steffen Ebert  
Tel.: +49 (0) 6201/606-709  
steffen.ebert@wiley.com

### Sales Managers

- Regina Berg-Jauernig  
Tel.: +49 (0) 6201/606-704  
regina.berg-jauernig@wiley.com
- Dr. Katina Leondaris  
Tel.: +49 (0) 6201/606-734  
katina.leondaris@wiley.com
- Dr. Michael Leising  
Tel.: +49 (0) 36 03/89 31 12
- Manfred Höring  
Tel.: +49 (0)61 59/50 55

### Wiley GIT Reader Service

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E-Mail: [WileyGIT@vuser.de](mailto:WileyGIT@vuser.de)  
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### Editorial

- Lisa Schneiderheinz  
Tel.: +49 (0) 6201/606-738  
lschneider@wiley.com
- Matthias Erler  
Tel.: +49 (0) 6723/9 94 99 82  
matthias.erler@wiley.com

### Editorial Assistant

- Sophie Platzer  
Tel.: +49 (0) 6201/606-761  
sophie.platzer@wiley.com

### Production

- Christiane Potthast
- Andi Kettenbach (Layout)
- Elli Palzer (Lithography)
- Claudia Vogel (Sales Administrator)

### European Representatives

- Dave Harvett, Direct Media  
Tel.: +44 (0) 121 705 2120  
daveharvett@btconnect.com
- Oliver Haines, Impressive Marketing  
Tel.: +44 (0) 1743 369611  
impressive.marketing@virgin.net

### Bank Account

Commerzbank AG Mannheim, Germany  
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Elli Palzer - [elke.palzer@wiley.com](mailto:elke.palzer@wiley.com)

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