

Volume 8  
June 2012

**GIT**  
EMEA Edition

# SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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matas

matas



Cash Handling

Security for Transportation

CCTV: Megapixel Opportunities

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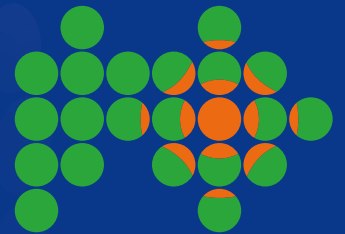
**COVER: Milestone Systems  
Integrated Video Surveillance  
for Matas Retail Chain**

**GIT VERLAG**



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There is no doubt that search engines can really help us in our daily business. In the early years the algorithms behind these systems were not so sophisticated, but normally you did find what you were looking for.

The trouble started when clever marketing strategists started to optimize the entries of their companies to achieve a better search engine ranking. The search engines answered with much more complicated algorithms. Nowadays the search engine's attempts to value blogs and social media entries more than company entries sometimes lead to strange search results. When you look for example for a "test" of a certain "product xyz", you are misguided to entries of bloggers that state "I have just purchased product xyz and will test it the next few days" or other extraneous entries.

Search results like this are not really helpful and online search tools will never be perfect. But at least we do have tools that can assist us, if what we are looking for is somewhere in the internet. In the "real world" search engines are not available and for many technical problems you will not find the solution online: When a key is missing in the office, there is no search engine. When you are looking for someone in your organization to do a difficult job outside his or her normal responsibility, there is no search engine available. No search engine will help you to find more resources or find more time to do your job. You do not find the budget to invest in security measurements? Sorry, there is no search engine that can detect the money. You are looking for someone to blame for a security breach within your company? Unfortunately, even IT can't recommend appropriate software.

But there is one tool that I can recommend for problems like that. It is available for free within your company. Not on your company's server but "in the cloud". It is called "experience".

Experience will lead you to a colleague who volunteers to go the extra mile to do a difficult job. Experience will provide you a list of resources you may try to extract to cope with your tasks. Experience helps you to find the right products, services and solutions for your security job. Trust your experience and the expertise of your colleagues even if they are named "Steve" or "Massimo" and not "Paul+" or "Yahooward". And maybe you accept the help of a magazine like ours to find what you are looking for...

Enjoy reading this issue!

Heiko Baumgartner  
For GIT's Safety and Security team







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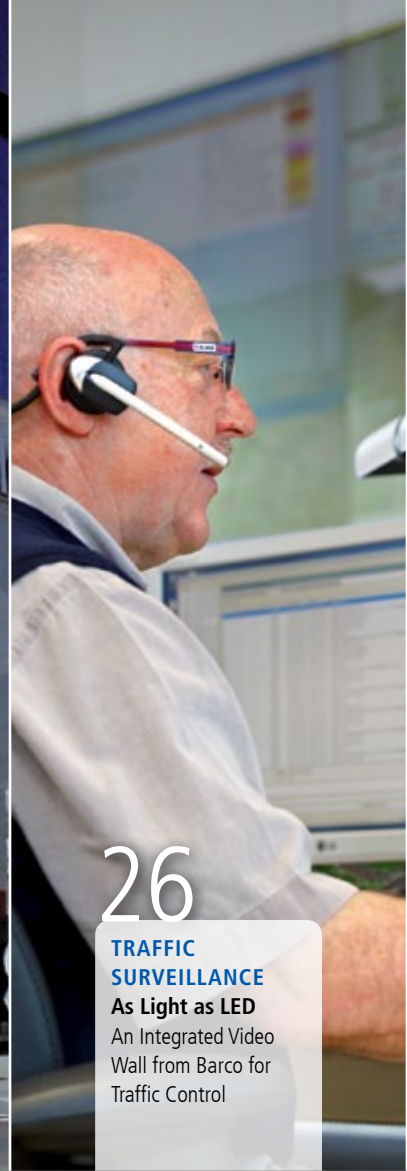


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### Nedap Security Solution for Poznan Lawica Airport

Poznan Lawica Airport is currently being extended with an additional terminal. The Airport chose Nedap Aeos for access control and intrusion detection for both the new and existing terminal, the fire department and the cargo terminal. The airport is provided with 120 card readers to provide controlled access for all airport staff, contractors and visitors. Nedap card technology was selected because of the convenient reading distance between card and card reader. The system will be interfaced with the existing Gemos security management layer. The installation and implementation of Aeos at Poznan Airport, is carried out by the manu-



facturer's Polish partner Atrem, a Company that offers comprehensive engineering services for large infrastructure and construction projects. "We found Aeos the most flexible and easy to configure and commission integrated security management system we have ever installed" – said Mirosław Stolarek, project director for Poznan Lawica Airport.

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

### Samsung Integrated with Mirasys VMS

Samsung's network cameras have been integrated into the Mirasys video management software platform. VMS can receive image feeds from both analogue and IP cameras simultaneously. Based on an open architecture and supporting H.264 compression, the software can be run across hundreds of servers on an unlimited number of workstations and mobile or browser-based web-clients. "Whilst we have the capability to be a one-stop-shop for analogue, hybrid and IP network based video surveillance systems, we recognize the need to provide customers with the flexibility to choose the

perfect combination of security products to match their specific requirements," said Tim Biddulph, IP Product Manager for Samsung Techwin Europe. "We also want to make it easier for customers who are looking for a gradual transition from an existing to a fully IP based surveillance solution. Our integration with Mirasys is part of an ongoing program to integrate with leading independent software vendors (ISVs) who can offer 'open' software specifically designed to facilitate the integration of equipment and systems from different manufacturers."

[STESecurity@samsung.com](mailto:STESecurity@samsung.com)

### Canon Cameras Protect Turkey's Parliamentary Speaker

Canon network cameras have been installed at the official residence of the Speaker of the Turkish Parliament as part of a surveillance upgrade. 20 Canon VB-C60 and VB-C500D cameras will monitor the outdoor area surrounding the historic building. The cameras were chosen by local security experts Fides Technology and Security Systems to meet the brief for outstanding performance in all light conditions, from intense sunlight during the day to street lighting at night. The VB-C60, which includes a lens with 40x zoom, has Auto Day/Night

switching making it possible to capture full color images as low as 0.7 lux – or 0.2 lux in monochrome Night Mode. The Company's VB-C500D includes Smart Shade Control to correct for situations when a subject is in shadow due to very bright light, by adjusting the contrast of the dark areas of the image, whilst maintaining the brightness of the lighter areas. In dark conditions the VB-C500D automatically changes from color video to monochrome to increase sensitivity and provide a clearer view.

[Lawrence.Gold@canon-europe.com](mailto:Lawrence.Gold@canon-europe.com)

### Saudi Arabian Video Surveillance Market

IMS Research has published the second edition of its Middle East Market for CCTV and Video Surveillance Equipment report. The 2012 edition forecasts that the market in Saudi Arabia will grow strongly to overtake that of the United Arab Emirates (UAE). It will become second the largest market in the region, after Turkey. Market Analyst and report author, Oliver Philippou, states: "The reasons for the UAE loss in market position are that:

Saudi Arabia has historically set conservative annual oil production forecasts, leaving surplus funding for social spending, including infrastructure, and health care projects; the UEA is a few years ahead of Saudi Arabia in terms of its transition from analogue to network video surveillance equipment; and the UAE is still feeling the effects of the financial crisis and a slowdown in construction projects."

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

### Compro Network Cameras Watching Over Turkish Supermarket Chain

Turkish supermarket chain Gimsa has invested in a surveillance system with 106 Compro megapixel network cameras to protect several of its stores located in the capital city of Ankara.



The Turkish supermarket chain employs a total of more than 1,500 employees. The Turkish supermarket chain with its eleven stores has enjoyed steady sales growth in the past few years. However, shortages and theft issues has also risen in importance recently. In light of this, the Turkish supermarket chain decided to deploy new surveillance cameras at several of its stores to curtail the risk of store theft and shortages. Gimsa turned to Genet, which is a local system integrator specializing in CCTV and IP video surveillance systems. The sheer amount of floor space at Gimsa stores posted a challenge to monitor all the important

areas – the number of cameras must be kept low to ensure cost effectiveness. Eventually, Gimsa chose to deploy 20 Compro IP55 megapixel cameras and 86 Compro IP70 megapixel cameras as their 1.3 megapixel resolution can cover a greater area in comparison with a conventional CCTV camera. The day and night functionality Compro IP70 offers is the reason why IP70 was deployed for round-the-clock surveillance at the stores. And both Compro IP55 and IP70 network camera offer store managers the ability to remotely view and record video on mobile devices.

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

### Securitas Acquired Chillida Sistemas de Seguridad

Securitas has acquired the technology security company Chillida Sistemas de Seguridad in Spain. In 2011, Chillida had annual sales of approximately MSEK 265 (30 million Euro) and approximately 200 employees. The company has operations in the entire country, with most of the employees located in Valencia and Madrid. Chillida is focused in technology security operations like installations, monitoring and maintenance. The customers are mainly in the banking, retail, industry, public administration and residential segments. The

company has a stable sales development, in-depth knowledge in technical security solutions and a good reputation. Chillida's operation will be an important complement to Securitas' security services portfolio and customers. "With the acquisition of Chillida, Securitas will strengthen its position within combined services of guarding and technology systems. Securitas now creates a technology hub that will bring value primarily to our operations in Spain and Portugal," says Securitas President and CEO Alf Göransson. [www.securitas.com](http://www.securitas.com)



### Hikvision and Hommax Sign Platform Agreement

After two consecutive years of collaboration between Hikvision and Hommax the two companies have reached a new agreement: Hommax will now officially act as Hikvision's Subsidiary Agent throughout the Spanish market. The subsidiary agreement will cover logistics, technical support, as well as pre-and-post sales service in Spain. The agreement is set to facilitate the further elaboration of market strategy that benefits both members, and to more fully integrate various distributors in Spain. The goal of having only one point of delivery



and technical support throughout Spain's security market will be achievable.

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

### Funkwerk Streamlines Video Monitoring at Unterweser Nuclear Power Plant

Funkwerk Plettac Electronic has modernized the video monitoring system at the Unterweser nuclear power plant. The modular video server system is based on digital network technology with full redundancy of all digital components. The core of the system is the manufacturer's video management system Posa (Plettac open security architecture). It allows full control and monitoring of the video system. Export of recordings suitable as evidence

in court and increased protection against fraudulent manipulation are some of the major advantages. Currently the system is bundling video signals from fixed and pan/tilt cameras whereupon the outstanding future-proof structure allows subsequent extension at any later stage. Visualization at the control room is realized at several operator stations with, amongst others, 56" TFT large-format monitors.

[www.funkwerk-vs.de](http://www.funkwerk-vs.de)

### Salto and ICT: Integration Partnership

Salto Systems and Integrated Control Technology (ICT) Group announced their Ship interface and Protégé security platform now integrate to deliver an enhanced access control. ICT has fully incorporated the wireless locking solution into their flagship integrated security platform, Protégé, which seamlessly integrates a full suite of security management functions

and technologies using an open architecture design. Hayden Burr, Managing Director and Owner of ICT: "The integration of Salto technology into our Protégé security platform will enable us to offer users an enhanced range of access control and security management features with unrivalled flexibility in system design and control options." [info@saltosystems.com](mailto:info@saltosystems.com)

### Canon Signs Distribution Partnerships

At the IFSEC International security show, Canon Europe has announced a number of new deals with specialist distributors of video security products and solutions. The new partners will carry its range of network cameras and include Adenar (UK), Also Actebis (Scandinavia) and MHM (Germany). The partnerships, signed in the six weeks running up to the show, mean that Canon has new distribution deals in place to sell its highly detailed

video capture and HD technology in Germany, Scandinavia and the UK, in addition to existing partnerships in France. Joe White, Business Development Manager for Network Camera Solutions, said: "Our partners are a crucial way for us to educate end users about our technology and at IFSEC we're looking to build on these relationships to recruit more distributors, systems integrators and resellers."

[www.canon-europe.com](http://www.canon-europe.com)

### Videotec: Gianluca Bassan New Marketing Manager

Videotec has announced the appointment of Gianluca Bassan as its new Marketing Manager. Gianluca Bassan, 32, specialized in Sales & Marketing, has held positions involving increasing responsibility in the sales department of durable goods and in recent years he developed the most crucial activities during the switch to digital TV in Italy as the company's Trade Marketing Manager.

[info@videotec.com](mailto:info@videotec.com)



### HID Access Control Products Added to GSA Approved Products List

HID Global's Pivclass readers and authentication systems have achieved compliance with the U.S. General Services Administration (GSA) Evaluation Program for certifying that products meet Federal Information Processing Standard (FIPS) 201 federal identity specifications. The products are a solution to enable FIPS 201 compliance without having to replace existing access control systems. It is certified for validation services both during registration or enrollment and at the door or other access point. "HID Global's Pivclass suite of products is the first

fully integrated and government-approved FIPS 201 compliance solution on the market from a single supplier," said Dr. Bob Dulude, director, Federal Identity Initiative with HID Global. "Now certified by the GSA for use in reading, validating and authenticating FIPS 201 credentials, our Pivclass solutions enable U.S. federal government agencies and contractors to substantially reduce the cost and complexity of complying with federal identity standards while also significantly improving interoperability and security."

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

### SimonsVoss: Millionth Digital Cylinder Delivered



**BUSINESS PARTNER** On April 12, 2012, SimonsVoss Technologies delivered its millionth digital locking cylinder to Trinity Hall, a prestigious College of Cambridge University. During a ceremonial handover, CEO Hans-Gernot Illig also presented an original cylinder embedded in clear acrylic to the college's bursar, Paul folkes Davis, observed by the Senior Tutor, Dr Nick Bampos and the Junior Bursar, Glen Sharp. The millionth digital cylinder produced by the Company was also installed during the ceremony. Headed by Glen Sharp, Junior Bursar and Rus-

sell Waller, Head of Buildings and Services, the Trinity Hall team was impressed by the exceptionally user-friendly design of the systems and the state-of-the-art technical solution proposed, in order to overcome such a complex, challenging task. The deal was also clinched thanks to the system's attractive design, which blends with the aesthetics of the historic building. Easy installation of the elegant Smart Handles also played a particularly decisive role in this respect.

[marketing@simons-voss.de](mailto:marketing@simons-voss.de)

**Apollo: New EMEA Board Members**

Apollo Fire Detectors has made two new appointments to its EMEA Board of Directors: Warren Rees joins the Company as Managing Director for Europe, the Middle East and Africa (EMEA) and Neil Taylor joins as Sales Director EMEA. Warren Rees will be responsible for optimizing the performance and maximizing growth opportunities in the region. Reporting into Danny Burns, Divisional Managing Director, he will head up team of EMEA Directors. As Managing Director EMEA, he will also sit on Apollo's global board, helping to shape the company's expansion plans at a global level. As Sales Director, Neil Taylor will play a key role in implementing Warren Reed's vision of the Company in the EMEA region. Managing the company's UK and international sales teams and customer care division, Neil Taylor will lead the future sales growth in the UK and expand the international side of the business, building on the progress already achieved.



Warren Rees



Neil Taylor

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

**Arecont Vision Adds Four Sales Executives to EMEA Team**

Arecont Vision has added four sales executives to drive continued growth of its megapixel camera technology in the Europe-Middle East-Africa (EMEA) region: Lucian Ciobanu, Eastern and Southern Europe; Nicola Noviello, Italy and South East Europe; Jasper Stoter, Belgium/Netherlands/Luxembourg and Paul Taggar, UK and Ireland. Marc Wesley has been promoted to a new position as Strategic Accounts Director – EMEA. "Our sales

momentum in the EMEA region is rapidly growing, allowing us to expand our sales force to meet and drive the demand," said Peter McKee, Vice President – EMEA Sales. "We welcome these highly motivated sales professionals and look forward to their contributions in bringing Arecont Vision's message and the advantages of megapixel video to a wider European audience."

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

**Axis Number One in Surveillance Cameras**

According to the latest IMS Research report Axis Communications takes the number one position in the security market's category of surveillance cameras. The report confirms the Company's own estimates of gained market shares last year, where it presented a growth of 33%, says Ray Mauritsson, President & CEO. "We further strengthened our position by continuing our strategy, which is based on the three cornerstones; launch of

innovative network video products, a well-developed partner network and global expansion." Axis continues to be ranked number one and is the recognized market leader in the category of network cameras. Even in the surveillance cameras category, including analog as well as network cameras, the manufacturer has taken a global number one position, compared to number three in the previous IMS report.

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

**Secutech in Taiwan**

The 15<sup>th</sup> edition of Secutech in Taiwan attracted a record 532 exhibitors from 27 countries and regions and 25,510 visitors from 97 countries and regions. Secutech, a long-time industry observer and promoter, was taking on an even more proactive role this year in catalysing the chemistry and facilitating strategic partnerships between original manufacturers and security buyers from around the world. Commenting on the show, Mr Parson Lee, Managing Director for Messe Frankfurt New Era Business said this is a unique security exhibition for global security manufacturing. Exhibiting Companies included Axis, Axxon, Bosch, Brickcom, Dahua, Dräeger, Everfocus, Hikvision, Honeywell, Lilin, Seagate and Vivotek. Making

its debut at the show was the Vehicle Security Zone, which was well received by visitors and exhibitors such as Huvitech Co Ltd, a Korean vehicle security products supplier. "Our booth attracted many visitors," said Mr Doora Lee, the company's Manager for Export Sales. "We targeted to sell our car security products to European buyers and we met a lot of them during the show." Axxon, a Russian video surveillance and security solutions brand has exhibited many times at Secutech. "This is the most important show in the world," said Mr Murat Altuev, Axxon's President. "It is also the biggest security show in Southeast Asia and as Axxon is developing in this region, the show is our first priority."

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

**Genetec EMEA Expands Offices**

Genetec announced that increasing market demand for its innovative solutions in regions across Europe, Middle East, and Africa (EMEA) has prompted major expansions of their Paris and Dubai offices as well as the opening of a new office in London. With these expansions, the Company aims to enhance its accessibility and service to local partners and end users; reinforce its concept of security system unification; and provide a more dynamic work environment for its growing workforce. Jean-Philippe Deby, Director of Sales Europe: "The United Kingdom is a

very important market for us; so not only did we want to strengthen our local support, but we want this office to become a tool that our integrators and consultants can use to have their customers experience our latest innovations, without having to travel too far." Although the Company has established a strong presence in Paris and Dubai for over a decade, both new offices have now doubled in space, accommodating aggressive regional growth plans and providing room for expanded meeting facilities and state-of-the-art solutions showrooms.

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

**Panasonic Security Systems for Olympic Games**

Panasonic audio-visual security equipment contributes to ensuring a safe London 2012 Olympic and Paralympic Games. The London Organizing Committee for the Olympic and Paralympic Games (LOCOG) has for several years been focused on the task of staging a memorable Olympic and Paralympic Games in the UK's capital city this summer. With 26 Olympic sports and 20 Paralympic sports, it is the equivalent of staging 46 World Championships simultaneously. Events must be organized across 37 competition venues, with 14,700 athletes, 21,000 media and broadcasters and approximately 10.8 million ticket-holders. "In



these locations electronic surveillance is one of the key tools not only for making the Games a secure event but, also for helping with monitoring and control of large groups of people and transportation management," explained Sean Taylor, Senior Manager of Panasonic London Olympic Project Office.

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



**SimonsVoss Posts Record Sales Yet Again in 2011**

**BUSINESS PARTNER** SimonsVoss Technologies has reported group sales of Euro 46.4 million for the fiscal year 2011. The Company has exceeded sales by 18 percent compared with the previous year. The main driving force behind growth in 2011 was the business development in Germany. However, sales also increased significantly abroad, thanks to the start of the new Smart Handle 3062 and the RFID version of the Digital Lock Cylinder 3061-SC. At the end of the year, the manufacturer employed a total workforce of over 270, compared to 250 employees at the end of 2010. New employees were primarily hired for the company's international sales offices. These offices also include a new branch for the North European market based

in Stockholm. The Company also sees promising market opportunities for this year. "As extremely positive feedback received so far shows, market acceptance for our new products is very high. We hope to gain additional momentum for future growth based on such an exceptionally pleasing development," states CEO Hans-Gernot Illig. In order to meet the increasing global demand, the Company is currently building a new production facility in Osterfeld, located in the state of Saxony-Anhalt. The commencement of development for this facility will begin this summer. Production ramp-up for digital locking cylinders and the digital escutcheon Smart Handle is scheduled from mid-2013.

[marketing@simons-voss.de](mailto:marketing@simons-voss.de)

**Primion: Product Training Course for Romanian Partner**

**BUSINESS PARTNER** Together with its new Romanian System Partner, Avitech, Primion Technology is looking to expand its business activities in Romania. Avitech is one of the most significant Romanian System Integrators in the area of comprehensive security solutions for large companies and organisations. In order to become closely acquaint-

ed with the range of products and services that the manufacturer offers, four senior engineers from Avitech spent a week at its Training Centre in Stetten a.k.M., receiving intensive technical training from the Company's experts, as preparation for the future cooperation between the two companies.

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

**Danish Research Project**

In a collaboration between researchers at Aalborg University (AAU) and Technical University of Denmark (DTU), as well as technology experts from Securitas and Nabto, Milestone Systems will be developing a video surveillance solution to prevent theft in both private homes and large crowded areas such as railway stations and airports. The solution will be able to manage and search metadata, so it will be possible to quickly find specific video, for example all recordings that contain black cars recorded within a specific time period at a distance of 200 meters from City Hall. The solution will also have built-in analytics, mak-

ing it possible to detect irregular movement patterns, like unauthorized persons walking around in a yard. "We expect the solution to help reduce burglaries and increase the rate at which home robberies are solved, as it will become more and more common to buy video surveillance security packages for private homes. At the same time the solution will result in resource savings in the security industry because it will reduce responses to many false alarms: Securitas could quickly get an overview of whether there is a real alarm or not," says Hans Jørgen Skovgaard, VP, Product Development, Milestone Systems. [www.milestonesys.com](http://www.milestonesys.com)

**Datwyler: Cabling for Stuttgart Library**

The City of Stuttgart has a new, ultra-modern city library. Datwyler has contributed communications cabling and a fire safety cable system. Library visitors have



access to multi-media learning facilities with in-house netbooks, in addition to which they are able to access the most modern media via WLAN. Some high-end computer stations even offer the chance to use 3D or virtual reality programs. The physical basis for the large number of communication possibilities offered by the City Library to its visitors is a Datwyler data network using fiber optics (FO) in the riser area and high-quality copper technology at individual floor level. Construction of the communications cabling system was carried out by Siemens Building Technologies – based on City planning guidelines. The server room in the basement was connected with the

distributors on the individual floors via buffered fiber optic cables, each with 12 or 24 OM3 multimode fibers. The required optical fiber pig-tails and connection cables were supplied by Datwyler, complete with pre-assembled SC connectors on both sides. On the individual floors the installation engineers laid halogen-free Category 7 type CU 7080 4P cable in flame-retardant construction. Together with the RJ45 MS-K modules and the corresponding patch panels and data outlets, Siemens laid a Class EA communications network up to 500 megahertz capacity which is in line with the current ISO/IEC Standard.

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

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## CASH HANDLING

# Cash Is King ...

... When It Is Efficiently, Securely and Transparently Managed



Neither credit cards nor online banking can match the constantly growing demand for cash – even the forthcoming mobile phone payment methods (Near Field Communication) won't make any difference. And this raises the commercial importance of secure and efficient cash handling. Matthias Erler of GIT SECURITY spoke with Ralf Wintergerst, Group Senior Vice President Banknote Processing from Giesecke & Devrient on the subject.

**GIT SECURITY:** Mr Wintergerst, how much cash is actually in circulation, in the light of old (cards) and new (mobile payment) cashless payment systems?

**Ralf Wintergerst:** As with any technology, methods of payment also undergo development. Cash will continue to be a significant cornerstone in payment structures in the future. Other systems, such as checks, have almost completely disappeared. Electronic payment systems – using the mobile phone, for example – will gain in importance in the future.

**How can that be confirmed and are there any accurate figures for the volume of cash?**

**Ralf Wintergerst:** The simple number of banknotes is growing. Currently the annual growth lies between three and four percent. There are now around 340 billion banknotes in circulation. We are assuming that this trend will continue.

**That will surprise some people. Why is the amount of cash in fact growing?**

**Ralf Wintergerst:** There are three reasons why the number of banknotes is increasing yearly. From an economic point of view, one lies in continuing population and commercial growth. This applies particularly to emerging economies such as in Africa or China. They still have only poorly developed infrastructures there, particularly in rural areas. As a result, cash is the prime method of payment. Another aspect is the so-called clean note policy. Emerging countries in particular are placing increasing importance on a higher quality of banknotes in circulation. On

the one hand this has to do with trust in the currency – on the other hand with the fact that torn notes, or ones that have been scribbled on, are not accepted by the increasing number of machines. As a consequence, banknotes are being exchanged for new ones more frequently. The third reason for the increase is a technological one. For example, there are now more methods of distribution through ATMs and cash recycling systems.

**Before we speak about measures to increase the efficiency of cash circulation through the standardization of processes, let's briefly sketch a diagram of this cycle. Where and how does the cash flow run?**

**Ralf Wintergerst:** You can compare the flow of cash to your bloodstream. It all starts at the central bank – it alone is permitted to issue banknotes. The central bank receives the banknotes from the mint or a specialist contracted printer and brings them into circulation via cash centers. Cash centers play a central role in the supply of cash. All participants in the market – that is, the banks and traders – are supplied with the necessary money. As with the bloodstream, there is also a return system. Banknotes are always coming back to the cash center where they are counted, checked for authenticity and suitability for re-circulation, and sorted before they return to circulation or may be exchanged.

**At what point in this stream can the most efficiency improvements be made?**

**Ralf Wintergerst:** When you look at it closely, you find that many activities are carried out

twice or even more often. For example, the notes are re-counted at various points along the way. In addition, the various players involved in cash handling employ different transport systems and software – there is no uniformity of data processing. The technological networking of currency circulation plays a significant role in the improving efficiency of cash logistics.

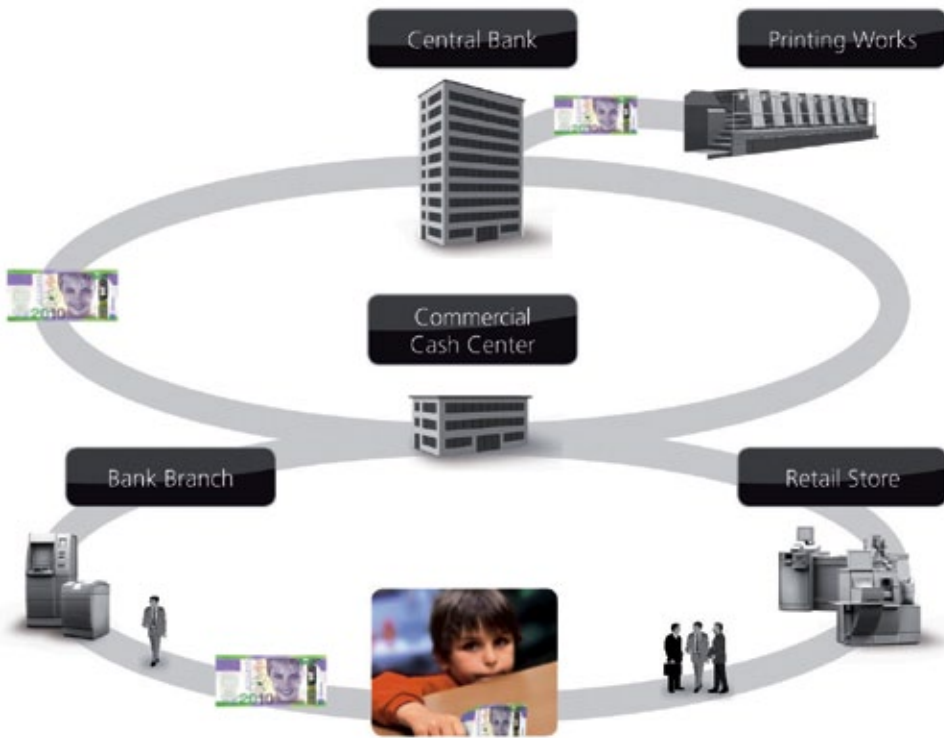
**How can efficiency be improved?**

**Ralf Wintergerst:** Most important is a consistent security architecture. If you look at the situation worldwide, much can be done first of all with the security of currency. Protecting its authenticity is fundamental to the national economy. The second important tool to increasing efficiency lies in establishing consistency in processing data about the cash reserves. It's all about transparency and at the end of the day about reducing costs. But this needs standardized interfaces in the sense of standardized hardware and software components. Here all the players in the cash circulation process must work as closely together as possible.

**How does each individual party profit from this – in particular the distributive traders?**

**Ralf Wintergerst:** To start with, security improves for all those involved. Add to this that increased data transparency permits the source of shortfalls to be quickly identified. Every element of the cash circulation process profits from higher efficiency through the elimination of unnecessary process steps. This leads to cost savings not only for the traders but also in bank branches and cash centers. According to our estimates, it





is possible to reduce handling costs at the bank and retail branches by a total of 30 percent. That is a significant sum.

**How do your company's products contribute to this efficiency increase?**

**Ralf Wintergerst:** G&D has an integrated portfolio of products, systems and solutions for the secure handling of cash. These include systems to check the authenticity and re-usability of banknotes. The spectrum of our banknote processing systems stretches from compact desktop units that can be used at the public bank counter as well as in the preparation of deposits made in the cash center right up to high-speed systems. Together with our product range of software packs, they enable the processes in a cash center to be standardized, organized in a similar way to a factory and thereby efficiently structured. We provide all the elements for consistent and auditable cash processing.

**The money cassette developed by Wincor Nixdorf plays a part here?**

**Ralf Wintergerst:** Yes. It provides secure and reliable money transport without a change of container between the bank branch and the retailer. This new cassette has an intelligent note memory technology. It documents payments in and out seamlessly and the cassette knows its fill status at any time. A special banknote processing system from G&D allows the amount of cash to be counted and topped up completely automatically, without opening the cassette and sorting. This saves manual work and thereby handling costs. Processes can be intralogistically optimized within one's

own organization – such as the cash center – but also interlogistically in cooperation with others. The system functions using a combination of the physical, intelligent cassette and the software.

**What does this software do in detail?**

**Ralf Wintergerst:** We work with a sort of onion model that first of all consists of the BPS Connect software for the production environment, that is, the cash processing. The Compass VMS management software is on the other hand responsible for the entire cash center, i.e. for store administration and accounting. If a large cash-in-transit company runs multiple cash centers, there is a program available to optimize its cash reserves. It ensures that enough cash is available exactly where it is needed, but not more than the supply minimum requires, as unused cash is dead capital and leads to loss of interest.

**You develop new sensors and modules for banknote processing systems and ATMs in a joint venture with CI Tech Components AG. Could you describe the technology and its uses a little more closely?**

**Ralf Wintergerst:** Sensors are the technical way to check the authenticity and re-usability of banknotes. You find them in numerous self-service machines such as ticket machines or paying-in terminals at the bank. The sensors check whether the authenticity criteria are met and saves the result. Our own development is aimed at attaining stronger standardization so that our sensors can be integrated into the machines of various different manufacturers. This is important to maintain the security and quality

criteria that, above all for banks, have become ever more important, and that are being further encouraged by the formalities of the central banks. We are trying to obtain as many market participants for this alliance as possible. In this way we will reach the necessary volume to enable standardization.

**Mr Wintergerst, let's come back now to the mobile payment methods mentioned earlier. You provide a corresponding NFC solution?**

**Ralf Wintergerst:** Our technology portfolio includes electronic payment with cards and equally, for the mobile payment sector, payment using a mobile telephone. This is made possible by the Near Field Communication (NFC) technology that is integrated into smart phones or mobiles. The basis for securing all NFC-based applications are secure chip modules, such as those used in SIM cards as well as in credit and bank cards, developed and supplied by G&D. The share of smart phones is rising rapidly. Already today there are 40 to 50 different NFC phone models available and the range of potential applications is growing daily. By 2015 it is expected there will be more than 400 million NFC-capable smart phones on the market. There is no question that the importance of mobile payment will increase.

**Mr Wintergerst, many thanks for the conversation.**

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## CONTROL ROOMS

# Out with the Old, in with the New

## A New Display Wall for the Traffic Control Center in Munich

The new unified Technical Operations Center replaces the former dispersed locations of the road sign, road lighting and traffic control departments that were all badly in need of rebuilding. Their individual structures, that grew over decades, did not permit any effective reorganization and stood in the way of contemporary, functional and economic operation. Growing traffic volumes and the necessity to modernize also led to the construction of a new Traffic Control Center. The central element is a large video wall consisting of 51 LED cubes from Eyevis.

The total cost of the new building project amounts to 41 million Euro. Although this may sound a lot, it will be almost totally recovered by the value of the land sold at the old locations, as well as by the otherwise essential rebuilding costs that will be saved. Now housed in over 12,000m<sup>2</sup> of space in the Schragenhofstrasse, the Technical Operations Center consists of two clearly cut buildings joined by a glass roof. They are linked by two footbridges above ground level and all levels can be reached without hindrance via an elevator. South of the elevator are the traffic control center, central meeting rooms and the cafeteria. On the North side are the workshops and office accommodation that have visual contact to activity in the workshops across a corridor.

Staff at the Technical Operations Center ensure reliable operation of all the technical street systems throughout the whole city of Munich. This includes some 95,000 street lights, 25,000 tunnel lights, 1,100 traffic lights, 5,300 induction loops to monitor the traffic, 2,700 mobile signs and over 1 million fixed signs as well as 4,450 parking ticket machines. The material and spare parts required for these, such as light bulbs, masts, cable and replacement machines are kept in a highly modern warehouse. Defective parts are repaired immediately in the workshops to ensure continued traffic safety along Munich's streets. Staff also monitor and control the traffic in the provincial capital from here around the clock.

### Management and Control

Integrated into the new Technical Operations Center, the Munich Traffic Control Center is manned by an interdisciplinary team from the municipal buildings office, the provincial government office and the police. In a 17 x 3 configuration, the Eyevis video wall provides a virtually borderless area of 17m x 2.25m. Each of the 50" EC-50-LSXT+ cubes has SXGA+ resolution (1400x1050 pixels) and color consistency is ensured by automatic color comparison across all cubes. The LED technology used provides a vivid display and will ensure a long and reliable working lifetime.

The wall is controlled by four Netpix NPX4800 series graphic controllers from Eyevis. Together they manage more than 200 video sources and other incoming signals. These sources are handled by Eyecon management software running on a Type ESC800R Wallserver. Both the controller and the server are in redundant configuration to provide the highest possible reliability of the whole wide image system.

The multimedia wall shows the traffic situation and operational readiness of the technical systems of all main streets in Munich. If problems



Media wall of the traffic control center

Photo: Tom Kohues



Night view of the central vehicle thoroughfare

Photo: Christoph Mukherjee



Workstation in the traffic control center

Photo: Tom Kohues

arise, particularly in the road tunnels, the center operators can now quickly assess the situation and react effectively to resolve the situation. When accidents occur or systems fail, a remedial service team of the buildings office provides an emergency service at the site, and all clearly displayed to the TCC operators.

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# TURNING THE TIDE

## Preventative CCTV Measures at the Gap

Gap Park in Sydney, Australia extends for a couple of kilometers along the top of sheer rugged cliffs facing the Pacific Ocean. It is a public space with stunning views and an ecologically sensitive environment, but sadly also a place with a history of suicides, accidents and unexplained deaths. Feeling duty-bound to do something to preserve life and repair the park's negative image Woollahra Municipal Council has implemented a master plan involving both deterrence and response measures which now include a Geutebruck GeViScope-based video security system.

Besides generating distressing duties for the police and other rescue services involved, the almost weekly self-harm-related incidents in Gap Park are personal tragedies for individuals, families and the community at large, which Woollahra Council felt it had to tackle. Consultation with mental health and crisis support agencies revealed that people considering suicide often spend several hours on the cliff tops before deciding one way or another. Active intervention during this period could be the key to saving some lives. With the aid of other stake-holders, experts and local residents, the Council devised a collaborative plan aimed at reducing incidents of self harm and

hence improving the area's reputation and encouraging more visitors. The thinking was that if the number of tragedies could be reduced and the park de-stigmatised, then more visitors would come and this in turn would deter people who were seeking to do themselves harm.

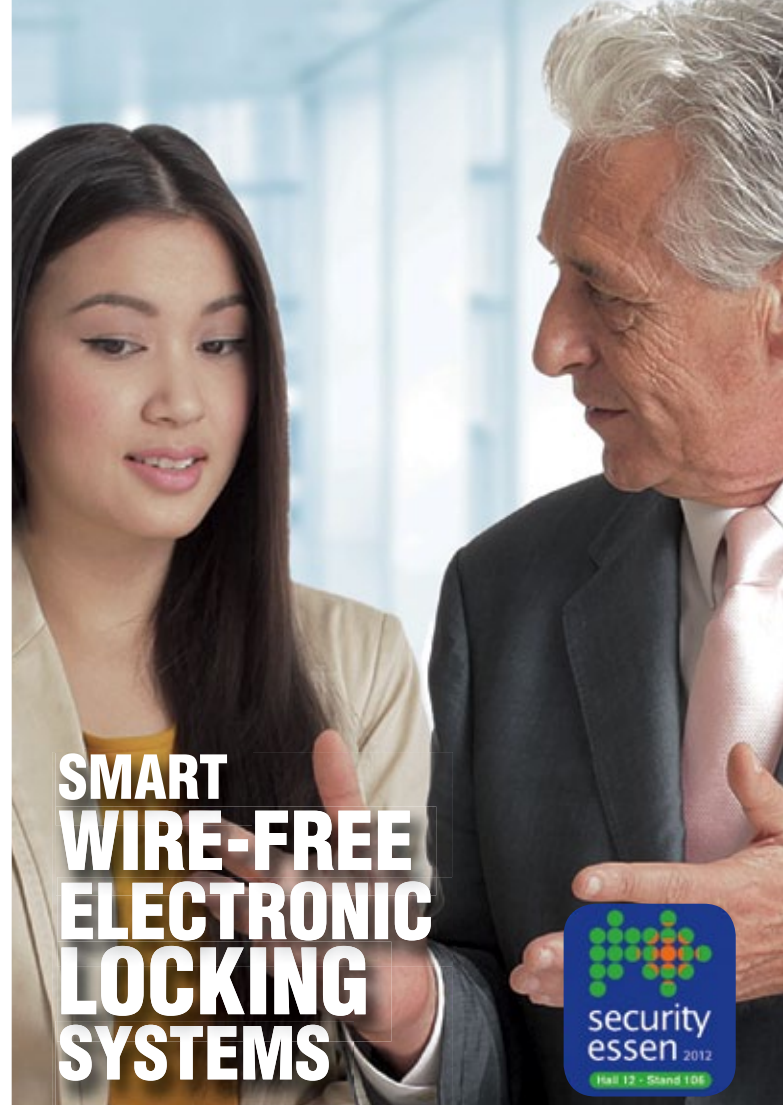
### Deterrence and Response

Realizing the best approach would be to include both deterrence and response measures, the Council identified the need for improvements at the entrances, more effective fencing to keep people out of danger zones, new seating and improved lighting and effective signage, as well as call points

Woollahra Mayor Isabelle Shapiro with Dr Gordon Parker, Executive Director Black Dog Institute and a supporter of the project.







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to provide support for individuals contemplating suicide or self-harm. It also needed a video surveillance system, one which would allow incidents to be identified and analyzed round the clock to aid speedy police intervention.

For assistance in designing and implementing the project the Council turned to Security Consultants International, and for integration and installation to Kings Security Systems. At first the council's tight budget only allowed for partial implementation of the CCTV design but Federal funding has since enabled significant upgrading. The first phase of work included restyling the park entries, the erection of inward curving fences along the cliff edge to deter climbing, the installation of new seating and low level LED lighting to improve the ambience especially at night. This was accompanied by new signage and two purpose-built, vandal-resistant telephone help points with auto-dialing for the charity Lifeline and the emergency services, together with automatic audio visual feeds and location ID.

Recognizing the location as a popular beauty spot and an environmentally sensitive site, the cameras were carefully sited to preserve views from nearby properties, and Kings Security used directional drilling to lay conduits without damaging the indigenous coastal vegetation. Initially just four Bosch MIC 412 thermal PTZ cameras were installed to provide partial coverage of the site. With salt and weather-proof, vandal-resistant housings, these enabled vision at night and in bad weather, at considerable distance and amongst dense vegetation.

### The Phase 2 Upgrade

In 2011 the original digital recorder was replaced by a GeViScope-HS/R with an expansion unit; the telephone help points were given their own dedicated fixed-view cameras; and five Moog 'thermal and optical' cameras were added to provide both thermal and optical views at the same time. This then enabled the re-location of other (Bosch) cameras for greater effect.

The GeViScope is housed in a building adjoining the park which belongs to the New South Wales National Parks and Wildlife Service which shares management responsibility for the area. While one camera monitors this base station building, the others are concentrated near the north and south entrances and along the cliff-top walk. This arrangement enables monitoring center operators to help with missing persons searches by identifying individuals as they enter or leave the park, and to find them if they remain anywhere in the park.

As far as the GeViScope is concerned, its short search times, intelligent bandwidth management, low latency and low bandwidth transmission for remote monitoring; as well as its openness for integration with third-party cameras and its facility for programming executable buttons and applications from the monitoring

screen, are some of the reasons given by Daniel Paul, of Security Consultants International for choosing it for this project.

### Real Time Monitoring

Real time video is monitored at a remote security monitoring center. The operator's role is to view the video and assess the situation only when requested to by the police following the report of a possible incident from a member of the public, an emergency call from a help point, or following an alert from Lifeline. The police utilize the video operator for help in determining where in the park assistance is required. The operator can also review recorded footage from the GeViScope for post-incident investigation but only in accordance with strict conditions and with specific permission from the Council.

Justine Henderson, communications manager and spokesperson for Woollahra Council reports "We know the footage has been useful to police in responding to potential on site emergencies as we've seen an increase in use of the monitoring provided by the camera system. At the start of the project the footage was being used for retrospective investigations and now it is being used more for direct interventions – which is a good result."

But the Council's satisfaction is necessarily tempered with realism, "Of course we know we cannot hope to completely eliminate suicides at Gap Park, but we are committed to doing what we can and the reality is, response time is critical to successful intervention," continues Mrs Henderson. And with future development in mind recent technical activity has focused on the question of whether the GeViScope's video motion detection capabilities could be employed to provide effective automatic real-time incident reporting.

### Extended VMD Trial

In the Fall of 2011 an extended trial was carried out using a selection of existing cameras to find out if the Geutebruck video analytics (VMD) could accurately identify dangerous incidents and provide a reliable basis for alerting the emergency services. It was argued that, to be of practical value, the system must not trigger alarms for totally irrelevant human incidents, or for lots of animal or bird-generated incidents. The level of acceptability was set at two nuisance or false alarms in any 12 hour period, in the belief that any more would probably result in the operator ignoring or responding poorly.

The testing focused on images provided by cameras at critical locations. The GeViScope's VMD software was set up with two lines of alarm zones on each camera stream, one line following the fence and the other parallel to it on the seaward side. Using the many definable and variable rules which are available for customizing this function, a time threshold was set for any target remaining within the first line of

zones (intended to pick up someone climbing over the fence), and an alarm was set to trigger immediately if a target moved from the first line of zones into the second line of zones along the cliff edge.

The test results were very encouraging. During the trial period the system correctly identified several incidents where individuals, or groups, breached the safety fence and ventured out to the cliff edge. Some people were clearly just making sight-seeing or thrill-seeking explorations but others seemed to have more troubled motivations. Thankfully in all instances during the trial, even those who stayed in the danger zone for some considerable time eventually chose to return to safe ground. Happily too, the test also reported minimal false alarms which proved very easy for operators to recognize and disregard.

### Fixed Cameras Too

In the light of this successful testing Woollahra Council will now seek funding to add a small number of fixed view cameras to the video system to establish a permanent analytic detection 'fence line'. This option would be substantially cheaper than the original idea of using ground-based radar and would have the advantage of combining video display, detection and verification all in one. With some dedicated fixed view cameras taking care of these core functions, the existing PTZ cameras would then be available to provide the operator with a wider view, more accurate details etc., without risk of disturbing the VMD function.

"Geutebruck Pacific's entire team are particularly proud of this project," says managing director, Anthony Brooks. "It's very exciting to be applying this advanced technology outside the traditional security environment where it has the potential to deliver very positive outcomes for many individuals and their families. We can't think of a more worthwhile and satisfying project."

Consultant Daniel Paul is also delighted to have contributed: "My view is that the system post stage two is already a true and viable solution which assists in saving lives, and if Woollahra Council is able to implement stage 3, then the system will provide an even greater capacity for preventative intervention and life-saving."

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## COVER STORY

# The Beauty of an Integrated Video Solution

Matas Retail Chain Discovers the Advantages of Video Evidence at the Point-of-Sale

Creams, perfumes and other personal care products are items that most of us regularly pay for. However, some people prefer not to pay, which is why retail chain Matas have installed integrated video surveillance in many of their stores. Now it is easy to quickly compare cash register transactions with recorded video evidence. Matas staff feel safe and would actually like to have more monitoring.

In Matas, which has 2,500 employees, more than 25 million transactions per year, and an annual revenue of approximately 4 billion Danish crowns, shrinkage is a problem which costs both human resources and a lot of money on the bottom line. For Matas management, shrinkage control is a high priority, so it was decided back in 2010 to intensify the fight against it. One of the ways to do this was to install advanced IP video surveillance, initially in 65 of the chain's 258 stores. Matas already has video surveillance in many of their stores, but it consists of many different systems that are difficult to support when they fail, and it is difficult to train new employees in the systems. In addition, transactions at the cash register are not directly connected with the video recordings, which makes it time consuming to find suspicious incidents at checkout. Now these problems are solved in the stores where Matas has installed Milestone.

„When we had to identify shrinkage and procedural errors and clarify doubts about payments or giving change, we would sit and

manually compare the video evidence with point-of-sale (POS) events from the cash register, because the systems were not integrated. It was costly and also meant that we had to make random guesses about possible false transaction events at each cash register,” says Marianne Gernyx Sejbak, Security Manager at Matas.

## Cash Register and Video in Sync

Matas therefore decided to implement new advanced video surveillance equipment in 65 of their large stores, which could correlate transactions from cash registers with video monitoring. By doing so, video surveillance became centralized so that all management and administration could be undertaken from the Matas headquarters – each store manager could thus leave the investigative work to central management and instead spend his/her time on the daily management of the store. The store manager does have access to video evidence, however, so it can be used in connection with shoplifting or payment disputes, for example.



The video surveillance solution consists of XProtect Corporate and XProtect Retail software from Milestone Systems and was implemented by EG Retail & Media, which is Scandinavia's largest supplier of IT solutions to retailers and media houses. It includes video surveillance of the stores, which is correlated with an analysis of all cash transactions. The POS system generates documentation for all transactions, which is associated with video evidence and simultaneously displayed on the screen via the Milestone software.

„Because the systems are now synchronized, we are automatically alerted by the monitoring system when something seems abnormal at the cash register,“ says Helle Bakkendorf, Shop Controller and daily user of the system. „Cash registers might have been opened without any purchase taking place, or there might be canceled transactions where the customer pays in cash but the money is not in cash register, suspicious transactions after closing, return sales on an exact amount, and so on. We can also search a given period, actual amounts that were paid in cash, by credit card or gift certificate, or on specific brands and see the corresponding video recording immediately if we suspect anything.

This way we can target our investigative work much better than before,“ says Bakkendorf. In the future, Matas would also be able to trace a specific item back to the actual date of purchase, so that it could soon be discovered if an employee or customer tries to return or exchange an item that has not been purchased.

### Popular with Employees

Initially, monitoring was greeted with skepticism by some employees in the selected stores. „Do you not trust us?“ was the recurring question. But skepticism was quickly replaced by relief when employees experienced the benefits of video surveillance and realized that the system had not been acquired to make them the targets of suspicion.

„We obviously want maximum job satisfaction and well-being for our good, loyal employees and fortunately we have many of them,“ says Marianne Gernyx Sejbak. „Video surveillance is largely also implemented to provide security and safety for our employees – both in connection with theft and assault, questions surrounding internal shrinkage, as well as with customer disputes. Did the customer get the DKK 500 back? There is no more doubt, because we can immediately get the dispute resolved by seeing the evidence on screen.“

This saves all the loyal Matas employees from possible suspicion of internal shrinkage, and if it does occur, cases are now resolved much faster. Matas can now avoid such cases from dragging on over extended periods and generating a bad work environment. Video surveillance has actually become so popular that the staff of the chain's other stores are starting to demand it.

The video solution also contains ‚People Counting‘, which tallies the number of customers in a store. Each store can then compare this with the number of sales and thus adjust work



schedules and ensure proper staffing. The entire solution thereby works as both an analytical and management tool. „There are many advantages to the new video surveillance. But most important is the fact that it has created a much better working environment for all our dedicated and honest employees, who can now concentrate on what they do best, namely to advise on and sell beauty, skincare and health products.

It is just fantastic that it also has an anti-theft effect. Matas therefore plans to eventually get the same video surveillance installed in more stores,“ says Helle Bakkendorf.

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## SECURITY FOR RETAIL

# Safer Shopping

## Biggest Shopping Mall in Bosnia and Herzegovina Uses Basler IP Cameras

In April 2012, the Mepas Mall in Mostar, the biggest shopping mall in Bosnia and Herzegovina, opened its doors to the public. A digital video surveillance solution with Basler IP cameras helps to ensure the safety of both customers and shops.

Mepas Mall features an ultra-modern design and houses more than 90 attractive shops, restaurants, and hotels in approximately 100,000 m<sup>2</sup>. The building has eight levels, with shops, restaurants and a cinema on level 1 to 6, and hotels on levels 7 and 8. Three underground levels provide parking areas for hundreds of customers and visitors.

During the project's design stage, the planners decided to have cameras installed to secure both the building and its visitors. Agencija KAMIR, a security consulting agency, was asked to find an unobtrusive surveillance solution that would maintain a high security level and at the same time support the ultimate shopping experience. For the last 20 years, the agency has accumulated tremendous experience in analog camera surveillance. Three years ago they moved their focus to digital surveillance, so the decision in favor of a digital security solution came naturally. "Analog surveillance belongs to the past. For future-oriented projects like the shopping mall, the advantages of digital surveil-

lance solutions, such as higher resolution and better image quality, win out", explained Ivica Brekalo of Agencija KAMIR.

Several different camera models are used in the shopping mall: IP fixed box cameras for parking facilities and outer areas and IP fixed dome cameras with a vandal-resistant dome housing for public areas inside, such as entrances and exits, gathering places and corridors. Suspend- ed ceiling kits permit the cameras to be flush-mounted to make the video surveillance system as unobtrusive as possible. The stores inside the shopping mall use their own monitoring systems.

### Low Light

In crowded public places, pickpocketing and vandalism can become a threat. In case of an incident, high-quality images are essential for clear evidence. The Sony CCD sensor used in Basler IP cameras is a key component in providing extraordinary image quality even under low light conditions. This enables clear identification of faces and other details in the image material.





Suspended ceiling kits are used to flush-mount the IP dome cameras in the ceiling.

In areas with low light, such as the parking garage and storage areas, Ivica Brekalo opted for cameras with an additional day/night functionality. These camera models are equipped with an automatically-retracting IR-cut filter. In good lighting conditions, the camera automatically sets to day mode and the IR-cut filter moves in front of the sensor to support good color rendering. When darkness falls, the camera enters night mode and the filter retracts to enhance camera sensitivity. Without the filter in the optical path, the camera produces high quality black and white images.

The video streams from the cameras are handled by a Netavis video management software solution and are stored for 30 days. All camera images are compressed using H.264 to save storage space (and thus money) while still maintaining high image quality. "We're glad about the decision in favor of Basler IP cameras, as we were convinced of their quality from the start", said Ivica Brekalo. "The brilliant pictures we get from the cameras' live operation in Mepas Mall prove us right."

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## SECURITY FOR AIRPORTS

# See and Not Be Seen

## Khartoum International Airport Installs Axis Network Cameras

Khartoum International Airport is the largest airport in Sudan. It was originally built at the southern edge of the city, but with rapid growth and consequent urban sprawl it is now located in the heart of the city. With a growing number of passengers every year going through customs, a new surveillance solution had to be flexible and scalable in order to keep pace with the growing operations while maintaining the highest level of security. The system also needed to be easily integrated into the existing airport infrastructure.

Based on the needs of the airport and the nature of the site, Gitech Investment Company, an Axis partner in Sudan, designed and implemented the video surveillance solution that now helps Sudan's largest airport to be secured around the clock. Axis 207MW and 211W network cameras were installed to monitor the activities at the customs areas and ensure the safety of passengers.

"The cameras had to accommodate the privacy concerns of travelers. With that in mind, I proposed two models to the customer, each of which offered a very high image quality combined with a very discreet and unobtrusive design" says Eng Haithem, General Manager of Gitech Investment Company.

As well as passenger surveillance, to safeguard the areas most at risk – the baggage control and check-in areas – 214 PTZ and Q6032-E PTZ dome network cameras were installed. These are high quality color network cameras with the flexibility of remote pan/tilt/zoom through operator control. The compact design makes them ideal for conducting discreet surveillance and identifying persons and objects, helped by an 18x optical motorized lens with auto focus. This makes it possible to zoom in on a small or distant object with exceptional clarity.

### Action Replay

Thanks to the network cameras, the customs department at Khartoum International Airport can now instantly review images of incidents or fraud. "Unlike videotape, network video lets us pinpoint the event in a couple of minutes to determine what really happened" says Colonel Anwer Abdalla Ali from Customs Sudan, owner of the project in Khartoum International Airport.

"The video surveillance system fully supports the security personnel in their daily work. These cameras have been instrumental in delivering an excellent IP solution in addition to reducing the time factor and costs for effective surveillance."

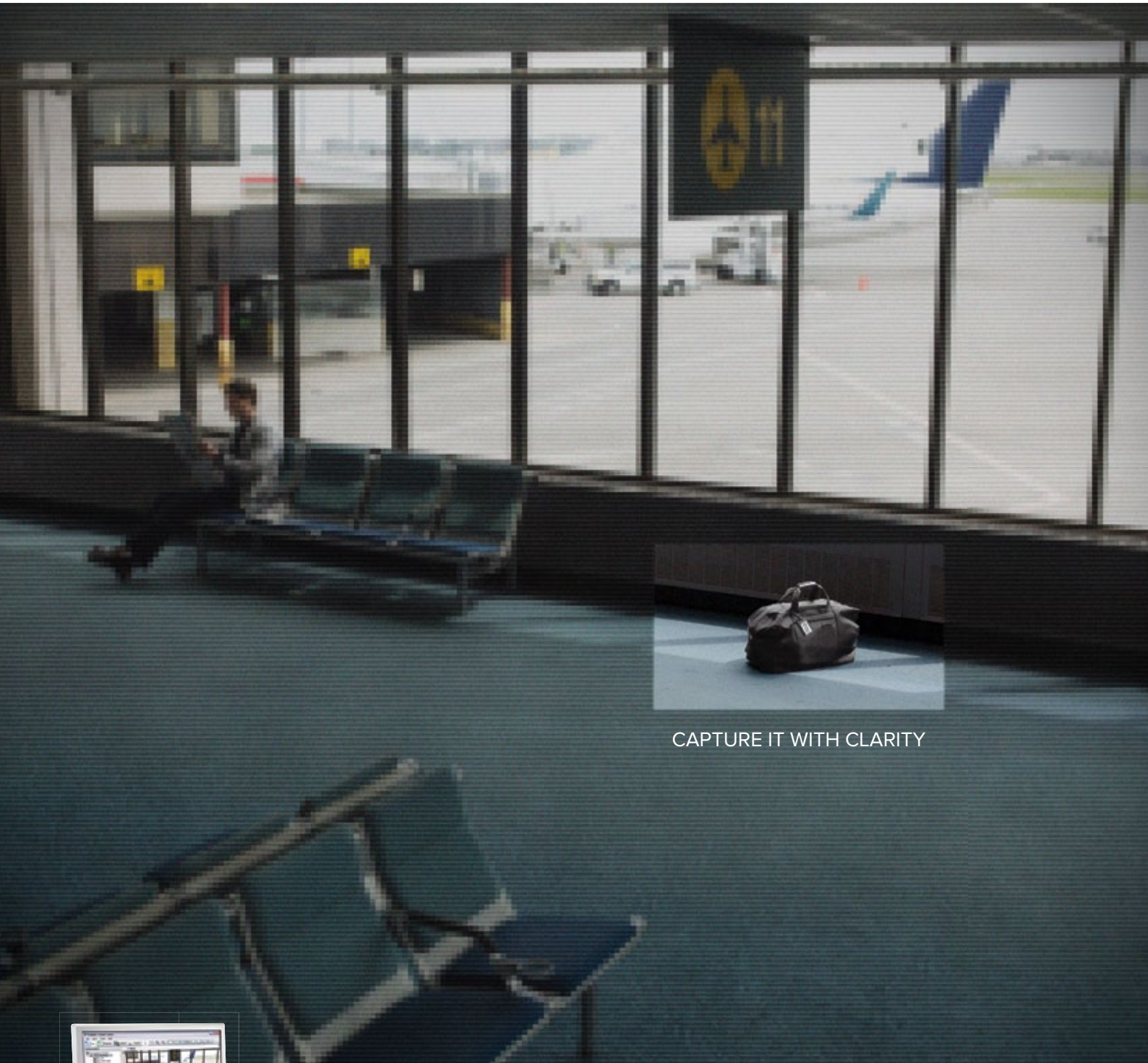
Axis 207MW network cameras were selected as they could connect directly to the existing airport computer network and offer excellent image quality even in poor lighting conditions. The location of these network cameras is not obvious to passengers, who might have felt uncomfortable with the obtrusive design of traditional cameras. These cameras, on the contrary, feature a discreet and non-obtrusive design.

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CCTV

# Megapixel Cameras Continue to Gain Traction

## Megapixel Cameras Globally More Popular for Good Reasons

Security professionals all over the world are taking advantage of new megapixel cameras that deliver more resolution and detail, and that can be implemented anywhere on the network without over-taxing network infrastructure. These advantages are resonating with customers globally as megapixel cameras continue to quickly gain traction for mainstream video surveillance applications.

Megapixel cameras are already at work around the world in large and small applications in every vertical market. There are a number of topical examples, such as a major grocery distribution center in the United States that uses a 20 megapixel, 180-degree day/night panoramic megapixel camera to provide a complete view of its property. In South Korea, a single 2 megapixel camera is being used to cover three lanes of traffic and deliver the resolution required for license plate recognition analytics across all three lanes. A family-owned commercial printer in Slovenia is using 5 megapixel and dual-sensor, day/night megapixel cameras to view outdoor and indoor areas with extreme efficiency.

A jewelry retailer in Mexico now uses a handful of megapixel cameras instead of over a dozen conventional cameras to monitor their jewelry showcases and restricted areas in the store office and workshop. In Hawaii, megapixel cameras are part of an overall effort to protect the state's economic engine – tourism – by supporting public safety. A gasoline station in South Africa uses three 180-degree panoramic megapixel cameras to provide views of the service islands and a 360-degree panoramic camera to watch inside the store.

### Decision Factors

Given this small sampling of megapixel installations, it's easy to support the viability of mega-

pixel cameras for mainstream applications. There are several factors that are converging to make megapixel technology an especially attractive option and an increasingly mainstream component in video surveillance systems worldwide. A broader choice of cameras now serves virtually every mainstream application. There are cameras with resolutions from 1.3 to 20 megapixels available in a variety of feature sets and configurations, including day/night operation, compact enclosures, 360-degree or 180-degree panoramic viewing, 1080p HD resolution, all-in-one domes, vandal-proof and IP66-rated enclosures.

The market has become more knowledgeable about megapixel advantages. Channel partners and end-users continue to become more familiar with the benefits of megapixel cameras as more systems are implemented globally. Accelerated timelines for rolling out new products, feature sets and capabilities are a reflection of manufacturers' continued investments in megapixel camera R&D. These innovations not only deliver a better image, but they can also substantially reduce network bandwidth and storage costs. Important technology and software partnerships among industry leaders throughout the world, including VMS suppliers, ensure a smooth path to megapixel system implementation and easy integration with video management systems (VMS).



We see a stronger focus on vertical market applications. Through distributors, system integrators, solutions providers and architects and engineers, megapixel camera suppliers cater to the needs of a variety of vertical markets, including banking, retail, education, gaming, government, manufacturing and transportation. For example, Arecont Vision's high-definition 1080p H.264 camera features Casino Mode to ensure that the frame rate will not dip below the 30 frames-per-second required in the gaming industry.

### Mega Efficient

The price points of megapixel cameras are comparable to those of conventional cameras, but deliver much better image quality. In addition to pricing that is attractive for the full range of mainstream video applications, megapixel cameras enable integrators to design more cost-efficient systems; specifically, systems offering lower total cost of ownership (TCO) and higher return on investment (ROI). System advantages include the ability to use fewer cameras, for example, and the ability to pan, tilt and zoom (PTZ) digitally within a megapixel image, especially on recorded video. Fewer cameras also require less infrastructure (cables, camera mounts and housings, etc.), and reduce the total installation expenses.

These are the key factors that are accelerating adoption of megapixel cameras for main-



stream professional video surveillance applications throughout the world. And as the number of megapixel camera installations continues to grow globally, more industry professionals will look to the successes of their peers to substantiate the migration to megapixel imaging.

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## TRAFFIC CONTROL

# As Light as LED

An Integrated Video Wall from Barco for Traffic Control

With a population of 695,500, Frankfurt am Main is considered a large city, rather than a metropolis. Nevertheless, its location at the heart of Europe and Germany makes it an important traffic hub. Every day, over 300,000 vehicles use the Frankfurt Interchange, the busiest motorway interchange in the area. The city of Frankfurt invests heavily in its Integrated Overall Traffic Management Center (IOTCC) to provide road users with reliable up-to-date traffic information and influence the traffic situation in an effective way.

Since 1992, Frankfurt has continuously upgraded its dedicated Traffic Control Center to ensure it meets the best quality standards. A few years ago, however, the city realized it was high time for a complete makeover. The existing infrastructure could no longer efficiently oversee the growing number of vehicles, roads, tunnels and CCTV cameras. And the team of operators had expanded so rapidly that they were working in two different buildings, which did little to improve efficiency or foster collaboration.

To better support the operators in their mission, Frankfurt am Main decided to centralize the team into one building, purchase new IT systems and replace the outdated TFT monitors by a top-notch visualization solution. "Until 2009 when our refurbishment plans took root, we had been monitoring the feeds from every CCTV camera on a separate TFT monitor," said Dorothee Allekotte, Manager of the IOTCC. "With the number of cameras on a steep rise, that situation became unworkable. So our very

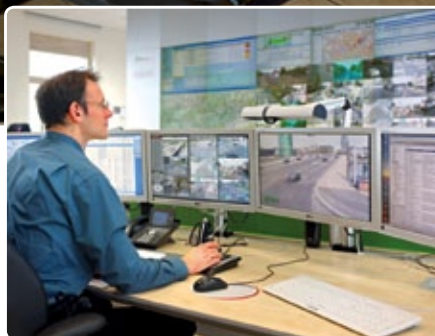
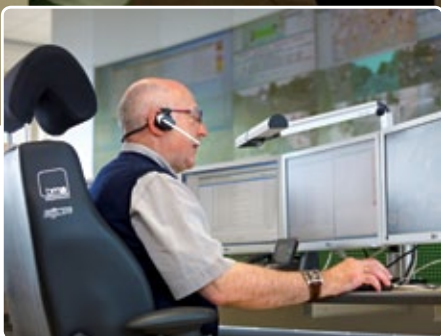
first requirement for the new center was a large video wall on which to visualize all our traffic management applications." The team visited a series of control centers and trade shows to compare the different options available on the market. Frankfurt am Main then launched a European call-for-tender process for the entire control room refurbishment, including office furniture, IT and a video wall.

### Decision Time

When the center moved to a new building in March 2011, the operators embraced an entirely new way of working: they now have an overview of the traffic flows on a 14m wide Barco video wall, composed of 21 LED-lit cubes. "We chose this after visits to other control centers, where everyone was enthusiastic about the quality of their solutions, services and support," said Dorothee Allekotte. "The latter argument is as crucial for us as the image quality, as we cannot afford to have even one minute of down-







time, and no other supplier could offer the innovative LED technology that they proposed."

The Frankfurt team decided to go for LED technology during the Intertraffic trade fair where suppliers had explained the benefits of LED-lit systems, such as low maintenance and saturated colors. LED technology with advanced liquid cooling was one reason to choose the system proposal of Siemens, which included an LED-lit wall from Barco.

### Complete Overview

Since March 2011, Frankfurt's new IOTCC features a video wall consisting of 50" LED-lit projection modules in a 3x7 set-up. The OL-521 modules combine an contemporary design with sharp and saturated colors in full HD resolution (1920x1080). Brightness and color stability is guaranteed over time and across the entire display by integrated Sense6 sensor technology in the OL modules. Low maintenance and a long LED lifetime are further ensured by the unique

liquid cooling system, which keeps the LED temperature lower. LEDs with sufficient cooling typically offer a life span of more than five years in 24/7 operation.

Operators at Frankfurt's new IOTCC can now visualize the traffic management system, the tunnel operation system, the parking guidance system, traffic lights and feeds from the CCTV cameras, all on the bright, easy-to-configure, 14m Barco wall. The complete overview of traffic flows and other relevant information on the large screen has fostered collaboration. "Our team can now better inform commuters and travelers, thus preventing road congestion and improving road safety – the two key missions of our center," concluded Mrs. Allekotte.

### ▶ CONTACT

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### Network Cameras



Panasonic introduces the latest additions in the i-Pro SmartHD range of surveillance solutions, the Mega Superdynamic Network Dome and Wireless Network Cameras. The new cameras deliver the utmost picture quality in Full-HD 1,080p, even under very low light conditions. With full ratification from Onvif, the specification that defines a common protocol for network video devices including automatic device discovery, video streaming and intelligence metadata, the manufacturer promises installers and end users advanced features and best return on investment. The Pan-tilt Wireless Network Cameras provide HD 1,280x720p images and high sensitivity Day/Night function. The camera offers face detection software capabilities and a built in body heat sensor using Pyroelectric infrared technology. The range of cameras has a Wireless LAN Function whereby the cameras can be monitored over a wireless router. The Internet mode allows H.264 images to be transmitted over HTTP protocol. [www.panasonic.co.uk](http://www.panasonic.co.uk)

### Full HD and Thermal Imaging



At Ifsec Birmingham, Riva presented a Full HD camera line (H.264/MJPEG). They are equipped with the standard license of intelligent video analytics, powered by VCA Technology, at no extra costs. Additional analytic filters are optionally available: object counting, direction- and speed detection, color filter, smoke- and fire detection, classification of people, cars, animals and other objects. The Company also introduced the thermal imaging camera series RTC1100 available with four different focal lengths; the new cube camera series RCC100HD/500HD including an audio feature is equipped with a PIR sensor, video analytics and wireless LAN. The repositioning dome RC3302HD is suited for indoor and RC3702HD for outdoor use. These IP domes offer a remote controlled pan/tilt and auto zoom/auto focus.

[www.rivatech.de](http://www.rivatech.de)  
[www.vidicore.com](http://www.vidicore.com)



Weather and light conditions on the E4 motorway in Sweden necessitated a cost-effective, long-range detection solution.

## TRAFFIC SURVEILLANCE

# Proof Positive

## The Effectiveness of Radar Systems for Long-range Detection of Traffic and Incidents

The harsh winter climate in Sweden presents Trafikverket, the Swedish Transport Administration, with particular challenges when it comes to operating and maintaining the road network. Poor visibility, caused by winter rain, snow and fog, is a common cause of vehicle collisions. In addition ice, which is common, causes damage to road surfaces, making driving difficult and leading to higher than expected numbers of slow or stopped vehicles, or even pedestrians.

These incidents must be detected and road operators alerted to their existence as soon as possible. This is true in heavy traffic, where incidents need to be addressed quickly to avoid more general road network disruption. Light traffic also gives rise to problems, as vehicles tend to move at greater speeds and the potential for major accidents, as the result of collisions with stranded

vehicles, is increased. Timely detection of incidents and posting of warnings to upstream drivers via motorway message signs is imperative, therefore.

In recent times, traffic operators in the Trafik Stockholm control centre in the Swedish capital have used CCTV to watch for incidents. Alternatively, reports have come via phone, either from those directly involved in an incident or from passing motorists. Clearly, this is not a reliable way to detect all incidents quickly, to maintain lane throughput, or to look to reduce the numbers of incidents and accidents. A solution was sought.

### System Criteria

Trafikverket had a number of requirements in addition to reliable detection irrespective of the general weather conditions. It needed to ensure that detection was continually reliable, with little or no routine maintenance. Full lifecycle costs are an important consideration when designing and financing an incident detection system and, as well as equipment failure or malfunction, operating costs should also include the nuisance cost of responding to system-generated false alarms. It is difficult to quantify the last-mentioned but if an operator has to respond to an impractical number of them there are two

possible outcomes: that more operators need to be engaged to successfully operate the system, especially where the size of the site or network is large; or operators become desensitised to the system and end up ignoring it.

Trafikverket also required the system to provide full-carriageway, all-lane coverage from only a few installed sensors, as the costs of installing and providing power and communications to a large number of additional gantries or mounting posts could not be justified. Long-range detection capabilities were essential.

In early 2010, with these criteria in mind, Trafikverket invited UK company Navtech Radar to demonstrate the capabilities of its ClearWay radar incident detection system. Two trial locations in the Stockholm area were chosen, one above ground on the E4 and another below ground in the Södra Länken Tunnel. For the surface installation, Navtech installed two TS350X model radar systems. The TS350X can detect a man-sized object out to a radius of 350m. Since it can provide 360° coverage, each sensor can therefore provide a total of 700m coverage where conditions allow.

To limit costs and reduce works by taking advantage of nearby power and Ethernet connections, the radar systems were each installed on a post close to an existing gantry. In addition,





As well as equipment failure or malfunction, operating costs should also include the nuisance cost of responding to system-generated false alarms, says Navtech's Steve Clark.

a number of fixed cameras were installed high on the gantries. These were to provide video images of detected incidents for the purposes of testing and evaluation. The data from the radar was communicated back to the client's office where a processing system was configured to generate incidents alarms including: stopped vehicle; slow-moving vehicle; pedestrian; reversing vehicle; and lost cargo/debris detection. These alarms were subsequently used to trigger recording on a local digital video recorder. After an initial configuration period the system was left to run and detection and false alarm rate performance assessed.

### Testing

First brought online in October 2010, the system was then left to operate over the winter months and into the following summer. Examples of typical detected incidents were registered during live traffic operations. In each case the radar systems generated the alarm messages and camera pictures were taken from recorded video. In some cases the weather conditions were too poor for a good-quality video image. Nevertheless, the radar systems generated valid alarms.

Typical false alarm rates during the course of the trial were measured and found to be around one for every 24-hour period. It is hoped that these will be further reduced during a planned rollout of the system as processing algorithms are improved and further installation experience is gained.



The TS350X radar system (the white object at the top of the lattice) can detect a man-sized object out to a radius of 350 m.

Since the ClearWay processing system is able to track each vehicle as it travels along a road, during the course of the trial Navtech's technical staff were able to adapt the processing to suit the client's requirements. For example, peak-hour traffic queues on the section of the E4, although technically involving stopped vehicles, and therefore incidents, are not of interest to control room operators dealing with emergency response. They are only really of interest for the purposes of general management of the road network and perhaps future planning. As 'incidents' they simply add to the already long list of alarms that operators have to deal with.

Processing business rules were added that allowed the number of vehicles below a threshold speed to be counted. In the event that these exceed a threshold in a defined length of the carriageway, a queue flag can be set (and later unset). These alerts are made up of several stopped or queuing vehicles, as is usually the case in a traffic queue, but do not require an immediate operator response as in an emergency situation. Of course, if a stopped vehicle is detected outside of the queuing lane then the incident will continue to be detected.

### Benefits and Conclusions

Evaluation of this system has outlined how a scanning radar system can be used for automatic incident detection in a number of roadside environments. Long radar detection ranges lead

to reduced installed equipment quantities and lower maintenance overheads. Reliable detection performance, irrespective of the environmental conditions, means ClearWay offers the system designer a real and tested alternative to other state-of-the-art detection systems. Operators are not burdened with persistent nuisance alarms which increase their overall workloads.

Further product enhancements, currently under trial at other sites, will provide further benefits. These include lane-change detection of vehicles and also tailgating. Both of these are useful for detecting infringements of the traffic rules with the intention of reducing the numbers of incidents that result.

Following on from the performance evaluation of this installation, the customer chose to roll out the ClearWay incident detection system on a 16km section of the E4. This also covers all lanes on both carriageways. Further work has also been undertaken to integrate the incident alarms generated into the Trafik Stockholm control centre.

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## VIDEO MANAGEMENT

# Security in **the Open**

## Protection for an Open-space Photovoltaic System in Turin

The Sicurtel company has installed comprehensive security for a new photovoltaic system in Turin. They used, amongst others, 28 microwave cabinets from Cias, a control and recording system from Milestone as well as eleven PT cameras from Videotec.

The northern Italian province of Turin runs a photovoltaic system that is dimensioned to provide 9.4 megawatts of energy. The operating company went to Sicurtel with the wish to obtain the highest possible of protection for the system: „The customer commissioned us with the design of a solution whose network infrastructure would be robust and easily scalable“, said Claudio Toaldo, owner of the company.

At the same time, the solution would have to be usable by the perimeter protection system, the video surveillance system and also by those devices that monitor the creation of electrical energy. In addition, continued Toaldo, the video surveillance system should suffice with a very low light level according to the applicable legal conditions and – apart from under exceptional circumstances – be able to work satisfactorily without the lighting being turned on.

### The Solution

The time available to complete the system amounted to two months. Considering the perimeter length of around 4 km and possible electromagnetic interference from the twelve inverters installed across the field, Sicurtel decided to build a closed loop Ethernet infrastructure using O-ring technology and 12 distributed switches that works within the wide temperature range of -40 °C/+75 °C.

28 Ermo 482 X Pro microwave cabinets from Cias and eleven Ulisse Compact IP 36X + IR 110 m pan-tilt cameras from Videotec were incorporated into the network. The data from the cabinets are gathered at a central point in the field by 15 485/Ethernet IB-FMCREP-ETH converters and controlled by an IB-System IP server.

The cameras used for the video surveillance system ensure the minimum environmental impact during the nighttime. In addition, they are



Efficiency and quick reaction times





## Surveillance on the Move



Indigovision customers can now monitor their surveillance video on the move using iPads and iPhones. Mobile Center, the Company's mobile app, displays high quality video in real time. Mobile Center increases ease of access and usability for the customers, who can now maintain visual contact with cameras from wherever they happen to be. Users still have access to PTZ controls, including presets, and can save and send video snapshots. Surveillance staff and management can keep in touch with what is happening across a site from their mobile devices, by accessing accurate information immediately without having to communicate back to a central control room. The app is an extension of the SMS4 Security Management Solution, allowing users to log on to their system and access all cameras anywhere, anytime. [www.indigovision.com](http://www.indigovision.com)

## Fixed Domes



Axis Communications has introduced new fixed dome cameras incorporating the Company's latest technology to achieve outstanding image quality and video analytics performance. The light sensitivity of these cameras is very high, obtained with Lightfinder technology; a combination of the manufacturer's expertise in image processing, in-house system-on-chip development and selection of the best optical components. Adding up, two of the new models integrate IR illumination featuring new LED technology. Erik Frännlid, Director of Product Management, said: "The new fixed domes, based on the best optical components, offer exceptional image quality, and the Lightfinder technology allows the cameras to 'see' colors even in very dark conditions. We believe that the latest additions to AXIS P33 Series are ideal for a broad range of applications and market segments." [www.axis.com](http://www.axis.com)

equipped with a powerful optical zoom lens that provides more intense scrutiny if required. Using the Milestone Xprotect system, Sicurtel developed the only fully-integrated platform based on IP that is suitable to control every device in the field according to the customer's requirements.

## Video Recording and Transmission

"We decided to use the Milestone Xprotect Corporate control and recording", continues Toaldo, "because it permits the recording and transmission of the video images to the security service control room. The necessary measures can be implemented here according to the event and the information regarding the alarm raised by the IB-System simultaneously called up. The details will be covered by at least three of the pre-adjusted cameras with appropriate presets. The cameras are immediately positioned by the Milestone system onto the part of the perimeter that they cover where the alarm occurred. This simplifies the task of surveillance enormously as it is now possible to check every attempt at entry effectively and promptly."

With this system, the system operator has the current data of electrical energy production available at any time. He can use the Xprotect Smart Client for this purpose directly from his location. In addition, the Xprotect Mobile provides a powerful maintenance instrument that allows any activity in remote mode to be checked and planned at any time at any location.

There are individual I/O-IP modules built into the VMS Milestone system that permit the operator's employees and the security service to switch on the lighting along the perimeter via the Mile-

stone Xprotect Smart Client system if there is an alarm at night. This assists in the checking of faults within the transformer buildings or other special situations, such as power failures.

## Advantages of the Solution

"The integration of the perimeter protection, video surveillance and power production monitoring devices in one single network infrastructure has given the operator full control over the systems installed in the PV Park. At the same time, he leverages the advantages of scale and is keeping all options open for a future upgrade of the systems", says Claudio Toaldo.

The solution guarantees efficiency and quick reaction times, also by the technical support staff that is provided by Sicurtel completely remotely. All normal maintenance and measures to solve problems that are reported by the system and that do not require the exchange or repair of equipment on site are carried out via the Internet.

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## PERIMETER PROTECTION

# Enhanced Public Safety at Lower Costs

## Water Treatment and Supply Association Implements IP Security Solution to Enhance Public Safety



The water supply association supplies drinking water from 25-foot-deep wells and three well shafts.

The Trollmühle water supply association in Germany supplies and purifies water to 24 municipalities, 14,000 households and 43,000 inhabitants. Over a hundred years ago, the network of water pipes covered a mere 110 km whereas today the association has over 400 km of piping with a 2.1 million cubic-meter capacity. The Trollmühle water supply association supplies their drinking water from 25-foot-deep wells and three well shafts via 19 high-level tanks and two underground tanks. The main pumping station and central distribution plant is located in Windesheim where during peak consumption periods, up to 8,500 cubic meters of water are turned over each day. All of the association's external plants, wells and pumping stations are connected back to the central distribution plant from which they are remotely controlled.

### The Business Challenge

Depending on the size of the plant, Trollmühle provides five to 90 cubic meters of water per hour from a depth of up to 200 meters. By way of linking the plants, the association ensures the water supply to the population even during a breakdown of one or several plants.

However, because the protection and health of the population come first, Trollmühle water supply association's most important objective is to guarantee the water supply quality and to take the necessary measures to monitor the plant and deter any potential threats or contamination.

Since 9/11, counter-terrorism initiatives have been top priority for many federal governments. This included Germany who amongst other plans, wanted to ensure the safety of its water supply. Therefore, the State Criminal Investigation Department of Rhineland-Palatinate advised all water supply associations to inspect and evaluate all safety devices and introduce security enhancements. Since then, the Trollmühle water supply association experienced a break-in which after investigation, turned out to be a minor occurrence. However, this break-in became the decisive factor for the water supply association to start thinking about investing in a new security solution.

### End-user Needs

As per German law, the security solution had to respect DVGW notices W 1001 and W 1002, which stated that all objects—apart from the

safety devices which are already in use, such as fences, special locks, alarm systems, must be effectively protected. For this, the water supply association decided that all deep wells and water tanks should be gradually equipped with cameras and the recorded video was to be transmitted to the central control office. Although DVR technology with local video recording and storage was considered, it was deemed not suitable for this application. In the event of another break-in, the perpetrators would likely take the recording device with them. Marcus Spira, head of the engineering department at Trollmühle water supply association added: „If necessary, I want to be able to immediately see the video in the office without having to first drive into the forest to the tank in question to view or collect footage.“

SLK GmbH, a Genetec Value-Added Distributor in Germany, was contracted to assist in deploying a more advanced security solution. Thus the central control office with the main pump station in Windesheim and the seven largest high-level tanks were first equipped with IP cameras and connected back to the central office via the existing telephone lines. However, in time, the Trollmühle water supply association began to realize the limits of their existing and very basic video management software and consulted SLK for a new security platform.

Not only was the water supply association looking for a reliable, user-friendly and scalable system that would allow them to gradually grow their camera count; but they also wanted



a software solution that would permit them to unify other systems like access control and other water treatment systems under one platform. SLK thought Genetec's Security Center unified security platform would be the right solution for the job.

### The Perfect Solution

Genetec's Security Center is a leading unified security platform that blends IP video surveillance, access control, number plate recognition and other third-party business systems within one simple solution. Security Center consolidates live monitoring, video playback, alarm management, configuration and reporting across all systems in a simple and easy-to-use interface. In this case, Security Center gave the water supply association the ability to initially install the IP video surveillance component, Omnicast, with the flexibility to add other components, such as the Synergis access control system, in the future.

Specifically, Sony's RZ50 motorized camera with motion detection and zoom, was installed in the central control office and various vandalism-proof fixed IP cameras from Sony such as SNCDF80P, SNCRZ50P and SNCCH140, were installed at the other locations and connected back to the central control office's system.

Since Omnicast comes with highly-advanced redundant and failover features, the new video management system guarantees that all current and archived data will be available at any time, even in the event of a failed component.

To ensure added reliability and privacy of data, Trollmühle water supply association only saves recorded video and data for two weeks. After that, all data will automatically be overwritten. Spira explained „The server on which the video is saved uses redundant array of independent disks (RAID) storage technology. In case of a failure of a hard disk, it can be replaced without any risk of data loss.“

However, in order to optimize bandwidth and keep the quantity of archived data as low as possible, the water association is using Omnicast's sophisticated multistreaming feature to configure different video settings for live viewing or recording. For instance, depending on the setting, a server will record all video from high-priority cameras and then only event-driven video from lower priority cameras.

Similarly, another tool used to reduce network load and save storage space is Omnicast's built-in motion detection algorithm. Certain cameras installed in the water tanks will only start recording when motion has been detected in the system. This feature is also combined with Omnicast's event-action mechanism which dictates the system to trigger specific actions such as start/stop recording, point a camera to a specific preset, send email notifications, or trigger an alarm when an event is detected in the system.

The combination of these features provides the water supply association with a highly-

intelligent tool that helps them immediately respond to only the situations they deem critical. For example, when entering the tank or facility for maintenance and water samples, authorized personnel must swipe their access card to enter which tells the system this is not an important event and does not require recording. However, in instances where there is no card swipe and motion is detected, the camera will immediately start recording and an alarm will be sent to operators to address the situation.

Other key system features of Omnicast that have helped secure the water supply, include the system's open architecture which allowed Trollmühle to preserve their existing hardware; configurable user-access privileges and authenticated user logins that prevent manipulation and falsification of video through an unauthorized access to the system; and easy upgrade paths which enable Trollmühle to increase camera counts and benefit from even more advanced feature sets when they are ready.

### Benefits

According to Marcus Spira, the handling of the Genetec solution is comfortable and convenient. During investigations for example, retrieving information is very simple and the quality of the images is excellent. Likewise, Security Center helps Trollmühle water supply association build consistent workflows across their system and set standardized procedures to address critical situations. All in all, this unified platform simplifies operations and helps streamline the operator's daily tasks in ensuring the safety of Trollmühle's water supply.

To date, not one single break-in has occurred since video surveillance system and cameras have been installed in the central control office. Combined, the Sony cameras and the Omnicast system act as a deterrent to any vandalism, theft or sabotage. In the event of any such intrusion in the future, Trollmühle water supply association can now quickly identify to the reason for break-in and apprehend suspects faster than ever before. Further plans to offer remote access to local authorities are also being discussed to enhance situation awareness for first responders and speed up investigations. The Plant manager, Willy Orben, adds: „Genetec's solution makes it possible for us to quickly make sound decisions.“

### ▶ CONTACT

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### App Upgrade



A new version of the Samsung iPolis Mobile app for use on iPhone and Android smartphones has been launched. The app provides improved access to the manufacturer's cameras and DVRs, as well as enhanced live and playback options. Version 2.0 of the free app can be downloaded from iTunes and the Android market. It allows users to remotely control the pan, tilt and zoom functions of the latest network cameras via an easy-to-use interface, and is also compatible with the Company's SRD series DVRs. Set-up can be completed in less than a minute, after which users are able to view streamed video from their selected camera via a wireless or 3G network. "The original version of this app has proved to be highly popular among customers who are looking to gain maximum benefit from their investment in a Samsung Video surveillance system," said Senior Product Manager Peter Ainsworth. "Retail loss prevention managers who are not permanently based at one location, or in fact, any security manager who has responsibility for more than one site, can take advantage of the ability to remotely monitor live images of any suspicious activity or retrieve recorded video of any incident via their smartphone."

STESecurity@samsung.com

### IP Cameras for Home and Enterprise

The CS series and IP series network cameras in the Compro portfolio are well suited for home applications. The Company's cameras in this category offer ease of use, plug-and-play functionality, and good cost effectiveness. Also, setting up remote viewing on CS series and IP series cameras is snappy and does not require any perquisite router setup. On the other end of the spectrum, the NC series network cameras are designed to meet the demanding requirements of SMBs and security professionals. The cameras in this series feature a 2 MP to 5 MP sensor, with select models offering vandal and weather resistance, Onvif compliance, built-in long-range IR illuminator, built-in SD storage, and analog video output capability. Also, the NC series cameras are embedded with more advanced video analytics, capable of detecting motion, tampering, and loitering event.

security@comprousa.com

## SECURITY FOR TRANSPORT AND LOGISTICS

# Arrived Safely

Securely to the Right Recipient: Intelligent Packet Documentation in German DPD Distribution Centers



Do you belong to the ever growing group of people who has bought products over the Internet? Not only in Germany has easy purchase with just a couple of clicks become ever more popular over the last few years; there is now such a wide choice online and at attractive prices. A major contribution to the triumph of e-Commerce is made by the parcel service providers, because reliable and rapid delivery of goods ordered online would be unthinkable without them. It is therefore no wonder that the market for courier, express and packet delivery has grown stronger over the last 15 years than the German economy as a whole.

Business has also developed very positively over this period for DPD in Germany. As one of the leading providers of parcel delivery services in Germany, the company runs 75 depots throughout the country at which the parcels are collected and passed on to the deliverers. In some of these centers some 100,000 parcels are processed in a day at peak times. The depots are naturally equipped with the latest technology in order to cope with this load, with fully automated packet transport systems and scanning systems for example. With reliability and security being among the most important quality criteria in the parcel logistics industry, DPD has been using video-supported systems for a long time to be able to trace the movements of any individual parcel within the depot at any time.

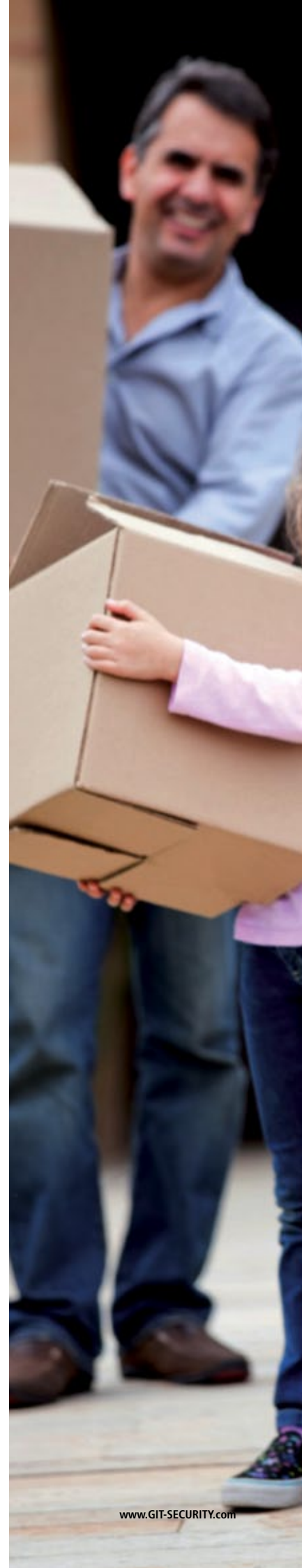
## Video Management for Process Support

As part of the modernization work in the DPD depot in Heilbronn, a video solution has been installed to record the sorting and handover process. The initial planning was based on a project definition that had been created by DPD for earlier video projects and was mainly oriented toward the capabilities of analog video technology. It quickly became clear, however, that modern IP-based video systems could better support the processes in the distribution center, for example by using cameras with HD definition. The capabilities of IP technology were therefore included in a new catalog of requirements. Apart from providing simple and user-friendly tracing of packets to clarify losses and to optimize the organization processes, it should also be possible with the new solution to carry out surveillance of the premises with its loading ramps, parking areas and access roads.

## Industry-specific Solution

The decision fell to Seetec during conversations between DPD and M.N.O. Stühler GmbH & Co. KG, who have already been equipping DPD depots with video systems and have accumulated a great deal of experience in this field. The company, based in the technology region of Karlsruhe, provides not only scalable and very powerful video management software but has also developed a video solution specially adapted to the needs and processes of the packet logistics industry. The system concept created by M.N.O. and Seetec for the DPD locations ultimately convinced the decision-makers at DPD, not least because by using just one server for the whole system the energy costs could be reduced by up to 50% compared to a classic recorder-based system.

The flexibility of the Seetec Multi Solution Platform permits the system to be enhanced at any time by the addition of new modules – for example, if intelligent image analysis is used to protect the outer fence or if the registration plates of arriving vehicles are to be







captured for automatic vehicle identification. Manfred Gügel, Managing Director at M.N.O., points out another benefit: "The leap from classic recorder technology to modern IP solutions is more than just a change of manufacturer. By separating hardware and software, the system components can be exchanged or extended independently of one another. In this way, technological innovations such as more powerful servers can be incorporated at any time – this makes the investment effective and future-proof."

The solution from M.N.O. and Seetec was introduced smoothly into the processes in the DPD depots. The entire packet processing sequence within the distribution center, from delivery through sorting and forwarding right up to where the deliverer takes over the packet, is recorded in high definition and displayed on the video system. The video system is additionally synchronized with the automatic conveyors on which the packets are sent through the building.

All incoming packets that are delivered by the trucks are captured by the system as they are unloaded and automatically processed. If subsequently no valid delivery report is made by the deliverer, or it is incorrect, the packet number is put into an error list by the inventory management system, which then serves as the basis for visual investigation. The responsible DPD coworker processes the error list once daily as a rule by selecting the appropriate parcel number in the entry mask of the Seetec Logistics client. As the video system can make use of the scanned data and also knows the running speed of the conveyors, it always 'knows' when a packet comes into view of each camera and shows the employee the corresponding preview. Going from the last image in which the packet could be seen, it is now quick and easy to localize the point where the problem occurred and see, for example, that a packet was removed from the conveyor at the wrong point and falsely loaded.

### Loss Quota Reduced

Using this joint solution, it can be quickly and easily established where an individual packet was at any particular moment. This enables lost packets to be easily found again through the video system, and this has reduced the loss quota to an absolute minimum – a convincing argument for a reliable packet logistics provider like DPD. DPD is also happy with the fact that the video system additionally provides surveillance of the compound, and that the modern IP solution also saves energy and therefore costs in comparison to conventional recorder systems.

Heiko Köger, Head of the DPD depot in Heilbronn, stresses the importance of this subject: "For DPD as a logistics service provider, a responsible attitude to resources and thereby a reduction of energy consumption plays a big role. It is then so much better that we are able to address this aspect by introducing an innovative IP video system to support our business processes!"

DPD is convinced by the concept that has been implemented in Heilbronn and, together with MNO as partner, is equipping further depots in Germany with the Seetec logistics solution. Seetec is also being used at DPD in Austria; in particular earlier recorder-based systems are being converted to IP technology.

### ► CONTACT



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## VIDEO SURVEILLANCE

# Three CCTV Transmission Technologies



Andreas Kronwald,  
Grundig Product Manager:  
"The products can be used in a  
wide range of applications."



Team and partners event at Motorcycle Museum in Birmingham (with Grundig MD Ludwig Bergschneider, center, with white shirt and black glasses).

IP, analog and HD-SDI are the three core transmission technologies used within the video security industry. Both IP and HD-SDI have Full HD capability. Grundig, the German electronics manufacturer, offers a comprehensive product range specific to each technology area, for every application and regardless of size. Andreas Kronwald, Product Manager, explains why. "Our products can be used in a wide range of applications, from multi-site, multi-camera installations to simple, four camera systems. They can be entirely new systems, but are often system upgrades where the investment costs can be offset by the savings made by re-using existing cabling or equipment. The company's approach is to give installers the flexibility to offer the right

equipment and technology for each application, enabling them to provide competitive solutions without compromising functionality, and all from a single manufacturer."

"Many new installations are using IP technology, which we are developing and fully endorse. Its cost is still higher than analog, but the benefits of Full HD, wireless, analytics and scalability often outweigh this extra cost. However, evidence suggests that new IP systems are usually large ones or those for multiple sites. This demonstrates that smaller IP systems are not yet at the right price point to compete with analog, hence our continued investment in analog."

"HD-SDI is proving a very successful middle-ground. HD-SDI is a high-quality digital video

solution where installers benefit not only from re-using coaxial cabling infrastructures but also from the same familiar installation method as analog. The IT support element, which many installers are uncomfortable providing, is also avoided."

## ▶ CONTACT

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### Megapixel and Full HD+ Cameras

Geutebruck's Topline range of progressive scan IP cameras now has four new megapixel and full HD+ cameras designed for license-free integration into its video surveillance systems. Two are fixed view, day/night, domes with 1/3" CMOS sensors and integral 2.8mm to 10mm zoom lenses. These provide full HD+ resolution (2.7MP/1,920x1,440 pixels) or full HD resolution video at up to 30fps. The TopFD-2125 comes in standard housing; the TopFD-2228 has IP 66 vandal-resistant protection. The other newcomers are 5-megapixel box cameras with 1/2.5" CMOS sensors which provide full



resolution (5MP/2,560x1,920 pixels) video at up to 9fps. TopBC-1123 is colour only, whereas TopBC2123 is a day/night camera. Besides supporting MJPEG and MPEG-4 compression, these dual-streaming cameras also use Geutebruck's H264CCTV specialist security format, which plays video fast forwards, backwards, even frame by frame, in fluid motion without any jumps.

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

### Ethernet Switches

TKH Security Solutions announced the release of its Siqura XSNet Ethernet switch line. The XSNet 3000 and XSNet 4000 series provides a complete offering of managed/unmanaged switches and media converters. This series offers hardened units for operation under extreme conditions as well as a selection of powering options, including PoE. Additionally, the XSNet 3000/4000 line includes optional SFP (or mini GBIC) interfaces that enable these devices to transmit Ethernet/IP signals directly over fiber optic, Cat5, or coax cabling. Transportation,

traffic, and industrial applications entail some of the most inhospitable environments for electronic equipment. The hardened XSNet C4000 series offers a robust solution for reliable operation under harsh conditions. The switches are certified for traffic (NEMA TS-2) and railway (EN50121-4) applications. Due to their longstanding resilience and quality, the XSNet switches are used in mission critical situations the world over, including the Dubai traffic monitoring system.

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

### Electronic Lock Solution Supporting 125Khz RFID

Aperio from Assa Abloy Access Control has become the first e-lock solution available globally to support 125kHz (HID Prox and EM410x) trusted RFID technology. It is designed to upgrade mechanically locked doors and wirelessly connect them online or offline to new or existing access control systems, with minimal modification to doors and premises, offering a cost effective and simple security upgrade. The 125kHz devices ensure end customers with an equivalent EAC system can easily expand to incorporate additional wireless Aperio doors, without having the additional expense of dual technology cards. Chris Bone, Vice President Access Control EMEA: "Aperio is Europe's fastest growing



wireless locking solution and now combined with the most popular and trusted RFID, it offers our customers a powerful solution to add to the existing range."

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

### HDMI Fiber Optic Video Link

Comnet Europe is introducing their first fiber optic video product designed to transport HDMI high-resolution video over optical fiber. The manufacturer's FVT/FVRHDMI transmits a high-resolution HDMI signal over one multimode fiber up to 500 meters for the 1,080p60 format. The FVT/FVRHDMI is capable of transmitting uncompressed high-resolution bi-directional communications with full HDCP copyright protection, EDID and CEC connection functionality. HDCP encryption is not affected or compromised by these units. It transmits pixel-for-pixel images with a full 24-bit scan rate with no picture



degradation. This unit is fully compatible with all HDMI compliant devices and supports all sync configurations. [www.comnet.net](http://www.comnet.net)

### Third Party Video Management Software Integration

Samsung has accelerated its program to integrate its cameras, DVRs and NVRs with video management software offered by leading independent software development companies. Axxon, Aimetis, Digifort, Griffid, Ipronet, Exacq, Genetec, ISS, Milestone, Mirasys, Onssi and Seetec are now among the list of VMS companies that Samsung has been working with because of their ability to offer 'open' software specifically designed to facilitate the integration of equipment and systems from different manufacturers. Tim Biddulph, IP Product Manager for Samsung Techwin Europe: "We recognize that in a tough economic climate, we must ensure that customers achieve the full benefit from their investment in a security system. This means providing cus-



tomers with the option for Samsung products to be controlled and monitored alongside equipment produced by other manufacturers. Working closely with VMS companies is very much a part of our Smart Security philosophy which is primarily about making it easy for customers who are looking for a gradual transition from an existing analogue system to a full IP network based surveillance solution."

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

### Optex and Milestone Team Up to Provide Perimeter Security

Optex and Milestone Systems announced that Optex perimeter security products will be fully integrated with Milestone XProtect Corporate and XProtect Enterprise IP video management platforms. The result will provide features and benefits unprecedented within the security industry for outdoor perimeter applications. Optex detection products will be integrated fully into the XProtect platform through add-on Milestone device packs available summer 2012. Device packs will be available for: Redscan Laser-Scan Detectors

that identify moving objects' size, speed, and distance from the detector; PIE-1 POE Alarm IP Encoder, which when used with Redwall SIP series detectors and Fiberdefender, converts alarm signals to an IP signal sent to the XProtect video management software (VMS). Redwall SIP series, Passive Infrared Detectors use synthesized intelligent algorithms for reliable detection; Fiber Defender, which is a fiber-based intrusion detection system from Optex's Fiber Sensys-business.

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



## VIDEO SURVEILLANCE

# Looking Suite

## Dallmeier Introduces Smavia Recording and Video Management Software

The well-established Regensburg-based manufacturer of video solutions, Dallmeier, introduces the software "Smavia" – a recording technology which is based on 25 years of experience and competence in professional video security technology; thus, ensuring maximum reliability.

"For the first time in our company's history, we are in a position to market our expertise in the realm of recording technology, uncoupled from any given hardware platform as Smavia is also available for purchase in a 'software only' variant. As the name suggests, customers only buy the software – this includes both the recording and the management software – and can then install it on their own servers. In addition, there are special appliances, that is to say Dallmeier hardware platforms, on which the software has already been preloaded." This is how founder, owner and managing director Dieter Dallmeier explains the new concept.

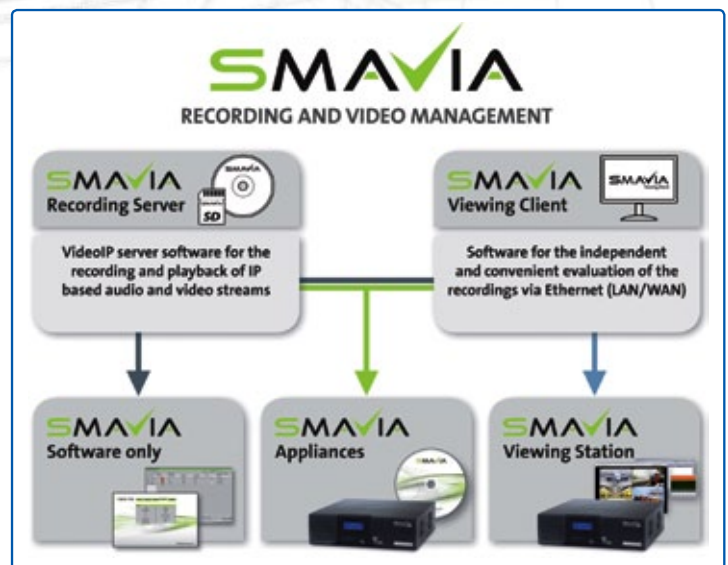
It is a recording technology based on 25 years of experience and competence in professional video security technology. It enables the recording of video images and streams in a large variety of image compression and transmission codecs (H.264, MPEG-4, MJPEG). In addition to standard definitions, it also supports Full HD (1080p) and up to 8 megapixels, and ONVIF compatibility also enables compliant

cameras to be configured and recorded with Smavia.

### Stand-alone Software or Preloaded

The Smavia Recording Server software can be used on a wide range of different hardware platforms; either on special video recording servers made by Dallmeier or as a stand-alone software on standard servers or PCs. It runs under both Linux and Windows operating systems. The corresponding Viewing Client management software provides the user interface for easy processing of both live and recorded pictures. In conjunction with the Security Management System "SeMSy", Smavia supports cascaded recording systems with 2,000 video channels or more.

It also supports the proven Premote-HD function, a method developed by Dallmeier that uses transcoding to enable the transmission of HD and megapixel streams even at low bandwidths. It is particularly useful for locations where images need to be recorded at the highest quality but







Showing Smavia, Panomera and more:  
Dallmeier's UK MD James Walker presenting  
also a new video surveillance best practice guide  
at Ifsec 2012 show in Birmingham. ►



only have a low-bandwidth network available, for example on DSL networks with a 128 kbit upload speed. As opposed to standard transmission methods such as Dual Streaming that only allow users to change quality settings for the transmission of live images, Premote-HD also offers bandwidth-saving transmission of recorded images. Therefore, it is not only possible to view live images, but also to evaluate recordings over great distances in high resolution.

### No More Dongles

The Smavia licensing model is attractive because no license is required for the Viewing Client. The entire handling of software variants and license dongles is eliminated as it is handled centrally on the Recording Server.

### Maintenance And Warranty

Maintenance products and warranty extensions have not been offered for recorders and software of generation 3 and 4. The warranty period for the recorders has been set using the general

terms and conditions or arranged separately for special distributors or individual projects. Updates for software have been offered from case to case, sometimes subject to cost.

However, in the IT branch it is common to offer the possibility of a warranty extension for devices. The maintenance of software is not ordinarily offered on a case-by-case basis. It is provided at a flat rate for a specified time frame, which can then be scaled according to requirements. Meeting these requirements, the new Dallmeier Care Products are introduced as concerted maintenance products together with Smavia. For stressed Security Managers they provide simple and projectable budgeting of software maintenance without unforeseeable costs.

### ► CONTACT

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### Smart Card Applications



At Ifsec 2012 Legic has showcased numerous reader and card solutions using Legic advant technology. The Company demonstrated concrete gains in efficiency to be achieved in practice through the use of a contactless multi-application card. Moreover, the Company extended its physical security system, Master-Token System Control (MTSC) to include advanced functions in order to improve safety and user flexibility. With the card-in-card technology, fair visitor were shown possibilities of easily integrating Legic applications into contactless or dual interface smart cards from third party suppliers via its "virtual" transponder. Logical and physical access can thus be combined on a single smart card chip both cost-effectively and conveniently. This way mobile phones as iPhones, can be used as an access control credential, or credit cards as multifunctional employee cards.

rebecca.ritz@legic.com

### Partners for Mobile LPR Specialization

Genetec has launched the Autovu Premier Partner category for North America. The new partner category complements the Company's Channel Partner Program by offering end-users access to channel partners who have been recognized to be highly skilled and qualified in the installation, maintenance and support of the manufacturer's mobile license plate recognition (LPR) solutions. Based on regional market demand, the Company has formed strategic alliances with seven organizations under this partner category. The partners are Avrio RMS Group, Sentry Control Systems; Dana Safety Supply; ESI Companies; Securewatch24; MPH Industries, and Intercel. These Partners have been exclusively enlisted to handle municipal and university parking enforcement and law enforcement projects within their designated territories.

www.genetec.com

## FIRE PROTECTION

# Well-oiled Fire Protection

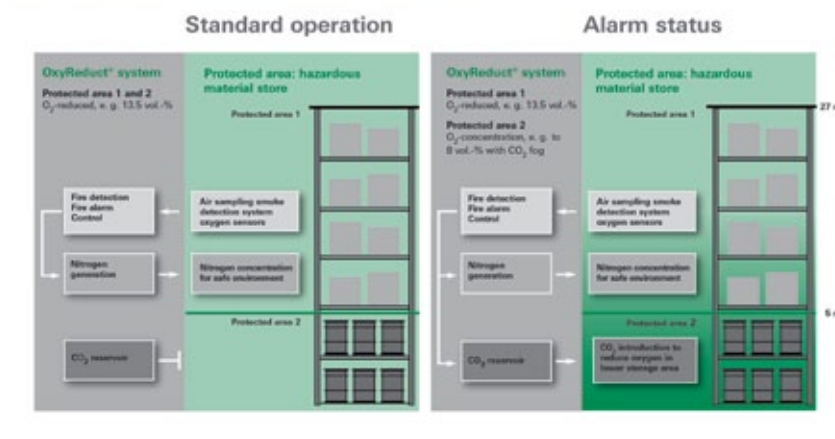
## Safe Storage of Hazardous Materials at Fuchs Lubritech



Lars Schröder

Safety presents big challenges to the operators and fire officers at hazardous material storage locations because the materials are often inflammable, highly inflammable or even spontaneously inflammable. In addition, certain substances or their ashes can react violently or even be poisonous. Wagner counters these dangers with intelligent fire protection solutions with which the dangers of a hazardous material store can be reduced to a minimum and – as impressively demonstrated at Fuchs Lubritech – separate storage becomes unnecessary.

### OxyReduct® with extinguishing fog



© Photos: Fuchs Lubritech

Lubrication and Technology – these two terms form the company name of Fuchs Lubritech of Kaiserslautern, a successful developer and producer of specialized lubricants for 60 years. Well-known products such as Ceplattyn and Lagermeister originate from the Fuchs Lubritech factory that belongs to the largest independent supplier of lubricants worldwide, Fuchs Petrolub. The company employs around 400 people worldwide and has further facilities in Europe, the USA, Australia, Asia and South America, as well as partners in more than 60 other countries.

### Storage and Fire Protection Solution

As one of the leading manufacturers and suppliers worldwide of specialized lubricants, the company runs a fully automatic 46,000 cubic metre high-stacking warehouse to store hazardous substances with very low flashpoints. The multiplicity of stored substances and the high risk of fire, place high demands on the fire protection systems. Together with Fuchs Lubritech and VdS-Schadenverhütung (damage prevention) in Cologne, Wagner has therefore developed a totally new storage and fire prevention concept that combines different systems to effectively protect the warehouse.

### Fire Prevention System and Extinguishing System

Firstly the OxyReduct fire prevention system is used, which constantly reduces the oxygen level so that most materials cannot self-ignite. Secondly the remaining risk is covered by a Firexting CO<sub>2</sub> inert gas extinguishing system triggered by flame detectors which, in the case of an alarm, provides a CO<sub>2</sub> extinguishing fog at a height of up to around five metres. This reduces the ambient oxygen concentration down to 8 vol.-% thereby enabling very effective firefighting. Easily inflammable and dangerous substances in particular are therefore stored at the lower levels of the warehouse. The most dangerous substances can all be stored in one warehouse. Physical separation is not necessary. In spite of the unusually large challenges, at Fuchs Lubritech there is always reliable and effective protection against fire.

### ▶ CONTACT

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# FREEDOM TO...



At Apollo we have been protecting lives and property worldwide for more than 30 years. As industry leaders we use our experience to provide customers with the latest technology to meet the challenges of the most demanding environments.

We are the world's largest independent smoke detector manufacturer offering unrivalled choice and giving customers the flexibility to choose solutions that fit their unique needs.

Our entire range, certified to key international standards, offers a 10 year product guarantee and we are proud to have trusted partnerships with more than 70 panel manufacturers. Apollo offers open digital protocol and forwards and backwards compatibility, giving customers complete freedom to choose a solution that's right for them.

 To find out more visit: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

 +44 (0)23 9249 2412  [marketing@apollo-fire.co.uk](mailto:marketing@apollo-fire.co.uk)



### Long Range RFID Reader

Nedap AVI has released the "uPass Access", a passive long range RFID reader for convenient building access control. The hands-free access RFID reader for convenient building access control supports passive UHF technology (EPC Gen II) using a patented antenna design and enables a read range of up to 2 meters (6 feet). The reader design is characterized by a sleek outlook and small size (15cm height x 5cm width x 4cm depth) that makes the reader fit on doorposts and most other locations. The system is applicable in many situations, such as typical hands-free building access for staff in hospitals, wheelchair users, employees in warehouses, and more high volume entrances in office buildings and at universi-



ties. The reader supports all common security industry standards for communication with access control systems (Wiegand, serial). The reader is equipped with a three color LED and comes with a tamper switch.

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

### Smart App

Videofield has introduced an App for smart phones. It is compatible with all the Companies panels such as XV-iP-panels, XV, XT-iP, XT panels, XL panels or XTO panels. It

helps in case of lost badges, keyfobs, etc., and is ready for download at the respective app stores.

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### High Resolution Monitor

**BUSINESS PARTNER** Eyevis launches its new Quad HD monitor. This LCD is a specialized, very high-resolution monitor for viewing dense information in an efficient, easy to view format. The QFHD resolution doubles the 1,080p high-definition TV standard in both the vertical and horizontal dimensions. The 3,840x2,160 pixels of high resolution produced by the Eye-LCD-3150-QHD-LD make it ideally suited for environments that may have limited space available or in smaller settings where one must analyze large amounts of information, or observe several separate data displays. The QFHD resolution that is four times greater than a typical high-definition display monitor, with more than eight megapixels (8.3) on the screen at any given time. Previous LC displays with conventional CCFL backlight technology were likely to show a non-uniform brightness level over the entire screen, the Company says. In order to achieve a uniform illumination of the entire screen, it provides its system with direct-LED backlight. Thanks to the backlight illumination technology,

the display provides very homogeneous images. The display comes in a 31.5 inch diagonal with a resolution of 3,840x2,160 pixels. This completes now the eyevis Quad HD monitor family, as a 60" and a 56" are already available. Application are for instance: eSignage applications; Security control rooms, display of multiple camera signals in native resolution on one screen; detailed process controlling in high resolution; Diagnostic imaging in medical applications, accurate interpretation of e.g. X-ray photographs or CT images; Digital post-production for broadcasting; applications for designers, design engineers and Architects. With 176° the monitor offers a very wide viewing angle, a high brightness of 450cd/m<sup>2</sup> and remarkable 1,000:1 contrast ensure sharp, crisp images. The screen surface of the monitor has antiglare characteristics with a low reflection and a hard coating of 3H. Other technical features are response time 8ms, data depth of 10Bit, frequency 50/60Hz, input connection of 4x DVI single link.

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

### Enterprise Key Control System

Morse Watchmans has launched its Keywatcher Touch key control and asset management system to the European market. Also debuting is the Keywatcher True Touch software package. The key control cabinet and software suite is designed to fulfill the collaborative needs of enterprise-level key control as well as smaller applications, with usability and integration conveniences that are unique in the marketplace. "Keywatcher Touch is more than just a large scale automated system for storing and tracking keys," said Fernando Pires, VP Sales and Marketing. "It is the foundation for a solid enterprise-wide key control and asset management solution that can be networked and serve



as part of a physical security system." It features designed to make multiple site usage more convenient and user friendly include a high resolution 7" capacitive touch screen/LCD display.

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

### Fingerprint Reader

Ifsec visitors at the iEvo stand had the opportunity to observe how their "Ultimate" and "Micro" seamlessly integrate with access control systems; Paxton, Nortech, ACT, CDVI, PLAN, BSB and Inner Range. This has increased from last year as Paxton, Nortech, ACT and BSB were the four integrators alongside Ultimate at Ifsec. Now, installers have plenty of different options in terms of product choice and integration, depending on their clients' needs. Managing Director Shaun Oakes: "Over the past year, not only have we increased our product range but we have listened to our installers, and extended access control integration options alongside iEvo. Depending on what the end user is



looking for in terms of security, installers in the UK and globally can now create a complementary biometric access control system with iEvo to suit their clients every need."

[Karen.mcmahon@ievo-reader.com](mailto:Karen.mcmahon@ievo-reader.com)

### Medium and Long Range Thermal Imaging Camera

Flir Systems launches the PT-602CZ thermal imaging camera for medium and long-range security applications. It is equipped with mid-wave, cooled detector which offers mid- to long range detection in all weather conditions. The thermal imaging camera offers a continuous optical and electronic zoom. The user can zoom in at suspect activities and have a closer look once they are detected. The camera contains an exclusive auto focus feature which delivers crisp, clear images at the press of a button.



Focus is kept while zooming in or out. A precision pan/tilt mechanism gives operators accurate pointing control while providing fully programmable can patterns, radar slew-to-cue and slew-to-alarm functionality.

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



**Voice Sounder and Sounder Beacon**

Apollo Fire Detectors has introduced an Open-Area Voice Sounder and Sounder Beacon to its Discovery Voice product range. The Open-Area Voice Sounder and Sounder Beacon are designed to provide clear instructional messages within a fire system, offering six distinct messages and seven volume levels. The devices can be used in applications to ease confusion for the public, instructing them in a concise and intelligible manner on what emergency action should be taken in case of a fire. Both products offer high volume and enhanced capability of up to 15 tone/message pairs, which reduces the risk of audible alarms being ignored. Mar-



keting Director Richard Bramham explains: "With the pressure of modern lifestyles and the constant changing of fire regulations, voice sounders are becoming increasingly common. This is particularly the case for public buildings, tourist attractions and shopping centers, where visitors are likely to be unaware of the specific fire signals."

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

**Safety In Harsh Environments**

STI (Europe) has unveiled the Enviro Stopper, an IP rated protective enclosure designed to extend the life and reliability of devices exposed to water and harsh environments. It offers protection to manual call points and switches against dust and water ingress both outside and inside, as well as preventing tampering, vandalism and damage from accidental or malicious operation. It is particularly suited for wash down areas and saline atmospheres. The system consists of a clear, tamper-proof, tough polycarbonate cover (IP56) and back-box (IP66) that can accommodate a standard European call point or switch. When the cover is opened a



deterrent alarm is emitted and will draw immediate attention to the area. When the cover is closed, the unit is sealed and achieves an overall rating of IP56 preventing dust, grime and water getting to the device. [www.sti-europe.com/uk](http://www.sti-europe.com/uk)

**Certified Multi-gas Detector**

Industrial Scientific Corporation announced that the Ventis MX4 multi-gas detector has been certified to meet the Atex standards of EN 60079-0, EN 60079-11, and EN 50303 for M1 mining equipment and intrinsic safety in Zone 0 applications

(ATEX Markings – Ex ia IIC T4 Ga and Ex ia I Ma; For equipment group and category II 1G and I M1 and IECEx Markings – Ex ia IIC T4 Ga). The detector is a lightweight, highly configurable instrument that is capable of detecting one to four gases including

oxygen, combustible gases (LEL or CH4) and any two of the following toxic gases: CO, H<sub>2</sub>S, NO<sub>2</sub> and SO<sub>2</sub>. Ideal for both confined space monitoring and continuous personal monitoring in potentially hazardous environments, the instrument is designed

to keep workers safe in a variety of industries. In confined space applications, it can be used to draw samples from up to 100 feet with the integral pump. It is fully compatible with iNet, the Company's Gas Detection as a Service solution. [clange@indsci.com](mailto:clange@indsci.com)



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### Wide Dynamic Range Megapixel Cameras

Arecont Vision presents a selection of Wide Dynamic Range (WDR) cameras that can provide clear images in extreme light conditions containing both very bright and dark areas in the field of view. These new WDR cameras provide a low cost megapixel WDR solution for mainstream applications. The cameras provide a dynamic range of up to 100dB representing up to a 50dB improvement compared to traditional non-WDR cameras, which is equivalent to 300 times wider dynamic range. By combining long and short exposures in the same video frame, the manufacturer's WDR line provides the greatest amount of detail in both bright and dark areas of the picture at the same time. In addition to providing the highest dynamic range 1,080p and 3 megapixel



cameras in the security industry, these cameras also deliver the industry's highest frame rates of 32 frames-per-second (fps) for 1,080p high definition (Full HD) cameras and 21 fps for 3 megapixel cameras. Other features include compact size, an H.264 (MPEG-4 Part 10) and MJPEG dual encoder, use of a binning technique to improve low-light performance, PSIA (Physical Security Interoperability Alliance) and ONVIF (Open Network Video Interface Forum) conformance.

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

### IR LED illuminator

At this year's Ifsec, Messoa Technologies was highlighting the SLI080, a high performance infra-red (IR) LED illuminator designed to optimize the low lux performance of CCTV or network cameras in any pitch-dark environment. The system provides operators with true night vision up to 300 meters, along with the maximum flexibility to adapt to diverse security requirements. Since the infrared light emitted by the SLI080 is invisible to the human eyes, it is ideal for any covert surveillance installations. It features a proprietary Lumii Flex, a 5-step adjustable dif-



fuser technology, with which the operators can accordingly adjust the illumination patterns as required at job sites. It frees images from overexposure and hot spots to ensure the required field of view is well covered with uniform illumination. Light can be focused when long-range illumination is needed or evenly diffused for close proximity as well.

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

### Wireless Alarm Panel Awarded

Tyco Security Products announced that Visonic took top honors for its PowerMaster-30 G2 wireless alarm panel with PowerG technology at the Ifsec International Security Industry Awards 2012 held during this year's Ifsec conference. The alarm panel was named the best product in the Intruder Alarm/ Exterior Deterrent category. Visonic edged out five other finalists to take home the award. The professional wireless security, safety and control system is suitable for heavy-duty operation required in

small to medium business installations and mid to high-end residential premises. The system accommodates over 120 wireless devices: up to 64 zones, up to 32 keypads, up to 32 keyfobs, up to 8 sirens and up to 4 repeaters. "Our Powermaster system is one of the most advanced wireless alarm panels designed to provide prolonged battery life, visual verification and the best wireless range of any product available in the market today," said Tony Mann, Sales Director, UK & Ireland, [dalits@tycoint.com](mailto:dalits@tycoint.com)

### Red Dot Product Design Award for Camera

Hikvision's Alarm Pro Cube Camera – the DS-2CD8464F-EI – won the 2012 "Red Dot Product Design Award". The camera is specifically designed for home-surveillance purposes, and won this prestigious award for its design and appearance. The Red Dot Design Award, organized on an annual basis by the Design Zentrum Nordrhein Westfalen in Germany, is the world's largest and most famous industrial design competition. For the 2012 edition, over 4,500 of the world's most advanced products were submitted by 1,800 manufacturers and designers – a collection comprising contestants from 58 different countries. Equipped with



an articulated bracket, the awarded camera allows the flexibility to fully adjust its angles in order to better accommodate varying monitoring environments. With its built-in IR LEDs, it captures clear images in ultra-low illumination environments, and additionally offers users the benefit of wired and Wi-Fi data transmission. [www.hikvision.com](http://www.hikvision.com)

### Thermal/Optical Pan-Tilt-Zoom Cameras

Bosch Security Systems introduces the latest version of its MIC Series ruggedized, Dual Spectrum thermal/optical high-speed pan-tilt-zoom cameras. The MIC Series 612 Thermal model combines both a high quality 36x zoom optical day/night camera module and an un-cooled, long wavelength IR thermal imager with a 35 or 50mm lens that sit side-by-side within the housing. The camera delivers object detection at nearly four kilometers (2.4 miles) even in complete darkness, fog or snow. The MIC Series 612 camera also features the manufacturer's standard controller interface to make it easier to integrate the MIC Series into systems that already use the Company's surveillance products. The new controller also gives end users greater precision in their command of camera functions and optics. Available with either stand-



ard or high-resolution thermal sensors, the series captures images in the harshest environments, including a broad range of industrial and government applications, from critical infrastructure to defense to transportation. The IK10-rated vandal- and corrosion-resistant design includes an IP 68/NEMA 6P certified aluminum casing with a long-life silicone wiper.

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

### Network Video Management System

DVTel has introduced the latest version of its video management system Latitude NVMS V6.2. This release gives operators and administrators greater configuration flexibility, ease of access for casual users through Internet Explorer, and a mobile vide application feature that turns an Android phone into an IP video surveillance camera. The system also features transcoder improvements for remote viewing (outputs of H.264, MPEG4 or MJPEG), in-



tegrates the Company's EV series encoders with audio support, and offers additional 3<sup>rd</sup> party camera support from Axis, Arecont, Bosch, Panasonic, Pelco, Sony and Cisco.

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



### HD Recorders And Cameras

**BUSINESS PARTNER** Abus Security-Center starts operating in the emerging market of HD-SDI technology and will continually build upon extensive product portfolio of HD recorders and cameras during the course of the year. The Company will be starting with a HD-SDI 4-channel recorder as well as a HD-SDI standard camera and a mini-tube camera, other dome and tube cameras. Storage solutions are to follow throughout the year. The HD-SDI cameras enable digital video with HD-1,080p resolution at full frame rate. Here the data is transmitted uncompressed via conventional coaxial cables. Consequently, one HD-SDI camera is

able to take the place of up to five conventional cameras. Compared to 720p (1,280x720), the 1,080p (1,920x1,080) shows twice as many details and even more than four times as much resolution as compared to 4CIF (704x576). Specially designed for the outside is the HD-SDI mini outdoor camera. With its IR-LEDs it stands out with its night vision feature and compact mini-housing. The first HD-SDI-capable recorder from the manufacturer features four channels with H.264 codec: this enables real time recordings with HD resolution of 1,080p for each connected camera.

[info.de@abus-sc.com](mailto:info.de@abus-sc.com)

### Extended Operating Temperature

Moxa's VPort 36-1MP is a rugged IP camera that withstands environmental temperatures ranging from -40 to 75°C without a heater or cooling fan. It is an industrial-grade, H.264 box-type IP camera that combines HD resolution (1,280x720), advanced IVA (Intelligent Video Analysis) technology, and de-mists technology to enhance surveillance system efficiency while delivering state-of-the-art video quality. The series can encode analog video into both H.264 and MJPEG video streams and can transmit up to three independent video streams (2 in H.264, and 1 in MJPEG) simultaneously with up to 30fps for each of the streams. SD storage ensures reliable event and disconnection recording. The camera supports a



variety of lenses and is compatible with C/CS mount lenses to meet any viewing angle and distance requirement. With a built-in removable IR-cut filter and automatic color mode switching, the series is suitable for day-and-night use. Highly-tuned ROI (Region of Interest), and WDR (Wide Dynamic Range) functions enable the camera to produce exceptionally clear images. The optional de-mist function ensures the best image quality in rainy, snowy, or hazy environments. [www.moxa.com](http://www.moxa.com)

### Debut: IP Video Management System

CBC (Europe) has returned to Ifsec in 2012 for the first time in three years. Centre stage among CBC's equipment display was its latest Ganz Solutions ViMS IP video and alarm management system, a modular, scalable and independent open-architecture platform that addresses real security and business issues. In addition to supporting Ganz, Ganz Lite and Pixel Pro cameras, ViMS also supports a wide variety of other manufacturers' equipment, importantly enabling the system to expand and integrate with existing sites. Onvif support is also available. Santosh Muniswamappa, the

Company's Commercial Head – IP Surveillance Solutions, explains that the ViMS Suite can be used in 'enterprise class' applications through its Command product, or smaller scale surveillance systems via an Accendo one-box plug-and-play IP unit – for viewing, recording and management of up to 16 IP video channels. Some of the core features to both Command and Accendo include broadcast quality video, low bandwidth transmission of video, a 24/7 rated server and storage units, and a simple easy-to-use remote web-based user interface.

[rpatel@cbcuk.com](mailto:rpatel@cbcuk.com)

### All-in-One Cameras

Arecont Vision has introduced a full-featured Mega Dome 2 series of all-in-one H.264 cameras combining megapixel resolution with remote focus, zoom, day/night and auto-iris capabilities at Ifsec. The new functionality will allow systems integrators to install the cameras without locally fixing the field of view or focus of the camera. All lens operations can be remotely controlled from the head end to refine the field of view and focus of the scene. Short or full range focus scan functions analyze the local or full scene to determine the best focus for the chosen field of view. The 2 AV1255AM is a day/night camera offering 1.3 megapixel resolution at 42 frames per second (fps), with the Megadome 2 AV2255AM providing 1,080p full HD resolution at 32 fps and the AV2255AM



has Casino Mode to ensure consistent 30fps recording for those users needing guaranteed frame rates. At higher resolutions, the 2 AV3255AM delivers three megapixel day/night imaging at 21 fps, with the 2 AV5255 AM offering five megapixel resolution at 14fps, both offering a Binned Mode to improve low-light performance. All four dome cameras are available with a heater as a total Power-over-Ethernet (PoE) solution needing no external power for the heater.

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

### Fire Protection at Security 2012

Security and fire protection experts from all over the world are going to meet at the Security Essen from 25 to 28 September 2012. About 1,100 international exhibitors will showcase their products and services. The area of fire protection has grown again. A total of 140 fire protection exhibitors will be present at the fair – an increase of more than 30 percent compared to 2010. Due to the high demand, this

year space in a second hall will be made available to providers from this segment for the first time. In addition to the traditional fire protection hall, Hall 1, trade visitors will be able to inform themselves also in Hall 9 about products and services relating to plant-specific and in-plant fire protection, as well as fire protection in industrial buildings, fire, smoke and gas alarm systems. [www.security-messe.de](http://www.security-messe.de)

### Software for Video Management and System Activity Control

At Ifsec in Birmingham American Fibertek has presented two software releases that improve video management and control activities. Pilot v.5 Video Management Software delivers advanced system functionality and broader industry compatibility while the newly developed AFI-2089 Virtual Keyboard does all the heavy lifting of the American Dynamics' physical keyboard at half the price and none of the weight. "As video surveillance and security systems become more complex and interwoven with business objectives, improved integration and control of the systems is even more critical for the enterprise," said Jack Fernandes, President and CEO of AFI. "Our new software solutions address these issues with features



that provide advanced functionality and system control. We've also designed in broader compatibility and an ease of use to help streamline operational tasks and ensure more convenient usage." Compatibility features of the Pilot v.5 software include the complete line of Panasonic cameras and DVRs, Samsung's complete camera and DVR line, the full line of Arecont Vision cameras and full integration with Pelco's Endura lineup.

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

### Security Solutions

Bosch Security Systems is expanding its Advantage Line range. By adding new video products, and, for the first time, fire and public address solutions, the customer can now organize complete security and audio systems for any small to mid-sized application. Specifically designed for applications like small shops, office buildings, schools or gasoline stations, the line was first introduced in mid-2011. All products in the line feature high performance and reliability, and are easy to install, maintain and operate. Combined with just the right amount of features, this ensures that both time for installation and costs are kept to a minimum. Up to now,



only video solutions were part of the line. "Due to the success of the first wave of the Advantage Line, we are happy to introduce this second pillar of products onto the market," says Gert van Iperen, President of the Company. "The enhanced line is designed to match the growing demands of installers and customers for price-competitive security and safety products for smaller installations." [www.boschsecurity.com](http://www.boschsecurity.com)

### Universal Access

Norbain and Intransa have joined forces to offer customers dependable, universal access to security applications such as video surveillance. Intransa delivers server, storage and application platforms and a wide range of industry-leading services. Their technology lowers cost and eliminates the complexity and ongoing support challenges of integrating commodity servers and storage, while slashing energy con-

sumption and increasing reliability. The partnership will extend the reach of Intransa's open platform server, storage and appliances to the European market. The video-optimized platforms are built for the demands of video security and are integrated with its security-oriented services portfolio for affordable and simplified local installations as well as for use in advanced cloud deployments. [www.norbain.com](http://www.norbain.com)

### Hot Spots Eliminated

Pixim announced that Inmotion is introducing a new, Pixim Nightwolf-powered camera series. The In71 bullet and In21 box CCTV cameras eliminate hot spots common to IR cameras. The cameras are able to capture both foreground and background details even in cases where very strong IR lighting is deployed. The In71 bullet camera supports Up the Coax (UTC) control. All camera and lens settings can be configured remotely which means the housing is never opened by the installer and remains sealed from the factory, eliminating any possibility of moisture in the housing during commissioning. Plus, the camera is the first Pixim Nightwolf-powered camera to offer motorized lens control eliminating lens back-focus issues common with other bullet cameras. In addition to optimized night-mode operation, the cam-



eras offer high-quality daytime images. With 690 HTVL effective resolution and a dynamic range of 120dB max, the cameras capture all of the critical details in a scene including highlights, shadows, and mixed lighting without compromising image quality or color accuracy. "We have a team with more than 100 years combined experience in the CCTV industry, and we pride ourselves on launching products with ground-breaking features," explains Kai Leuze, chief executive officer for Inmotion.

[www.pixim.com](http://www.pixim.com)  
[www.inmotioncctv.com](http://www.inmotioncctv.com)

### Open-systems Capabilities Bolstered

Honeywell has released a new version of its Maxpro network video recorder (NVR) that incorporates numerous enhancements to make the system interoperable with nearly any surveillance camera or encoder. It supports Onvif and PSIA interoperability standards, as well as real-time streaming protocol (RTSP) and features native integration to cameras and encoders from Honeywell and other manufacturers. Additionally, the family now includes a software-only offering that enables users to source their own hardware by loading the software onto existing servers, regardless of hardware type. These enhancements give organizations greater flexibility to build customized surveillance systems. "Maxpro NVR 2.0 allows organizations to take advantage of advanced IP video capabilities and marks a big step toward open,



third-party integration," said Ulrich Hopfstock, product manager EMEA. "Integrators and end users want NVR technology that's interoperable with a wide range of cameras, and Maxpro NVR 2.0 can be a key to unlocking a truly open system." The NVR range includes a box solution that offers 16 to 32 channels and software solutions that range from 4 to 32 channels. Customers who already have the box solution can upgrade to 2.0 using a free download or by requesting a DVD.

[catriona.malone@honeywell.com](mailto:catriona.malone@honeywell.com)

### Compact Door Opener

GB Geze has increased the performance scope of the Seculogic Access Control System, with the IQ eStrike A5000/A5300 Compact Door Opener. It can be deployed with all doors that have to be held securely closed. It is suitable for entrance doors on residential buildings with single or multiple-occupancy, on offices and commercial properties and on doors that are integrated in airlocks. With its small

dimensions, the systems numbers amongst the smallest door openers on the market, keeping up with the trend for ever more sophisticated and less obtrusive door frames. The A5000 model range is approved for use in smoke protection doors without requiring any modifications and therefore without incurring any additional costs, with the result that its benefits are fully maintained.

[vertrieb.services.de@geze.com](mailto:vertrieb.services.de@geze.com)

### Network Camera Range

At Ifsec, Canon Europe presented its full range of network cameras – including the feature-rich VB-M600VE megapixel camera and the recently announced outdoor Pan Tilt Zoom XU-80. The stand also included an Integration Zone, where leading video surveillance management companies demonstrated complete security solutions using the manufacturer's cameras and third party software. The megapixel camera VB-M600VE offers high resolution capture, an ultra-wide angle lens, 3x optical zoom, sophisticated video analytics and a remote-controlled Pan Tilt Rotate Zoom (PTRZ) function for remote installation set-up. With a durable polycarbonate and aluminum dome case it is a strengthened vandal-

resistant camera, shock-resistant to 50 joules. It includes a 'camera damper' mechanism which automatically retracts the lens inside the casing by 15mm on impact. These features make it suitable for use in areas which are prone to vandalism, such as transport hubs, car parks or anywhere where the camera is within reach of the public. The XU-80 is a Pan Tilt Zoom camera offering very high picture quality from long distances. It produces high quality Full HD video, using a 1/3 inch CMOS sensor with 2.1 MP. Together with a wide pan and tilt range and a Canon 20x optical HD zoom, the IP55-rated camera will help security teams to closely monitor large areas.

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Date: September 25–28, 2012

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► The world market for security and fire prevention.

### Milipol 2012 Qatar

Date: October 08–10, 2012

Place: Qatar (DEC - Doha Exhibition Centre)

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

► Every two years Milipol Qatar welcomes to Doha industry professionals from the Middle East, the Near East and Asia.

### SICUREZZA 2012

Date: November 07–09, 2012

Place: Milan

Website: [www.sicurezza.it](http://www.sicurezza.it)

► Biannual International Exhibition for Security in Italy.

### 5<sup>th</sup> Algeria Fire, Safety & Security Expo

Date: November 19–21, 2012

Place: Algiers, Algeria

Website: [www.new-fields.com](http://www.new-fields.com)

► The 5<sup>th</sup> AFSS Expo 2012 is the year's largest exhibition devoted to Algeria's fire, rescue, police, and emergency response sectors.

### IFSEC & OSH ARABIA 2012

Date: December 9–11, 2012

Place: Riyadh, Saudi Arabia

Website: [www.events.ubm.com](http://www.events.ubm.com)

► IFSEC & OSH Arabia will be held alongside and in partnership with the MOI's 15<sup>th</sup> International Conference and Exhibition for Industrial Security.

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