Volume 8
November 2012

GIT

EMEA Edition

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SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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More Than Security

Dear Reader,

The security market is going through changes.

As you can see the article starting on page 10 of this issue, a new study from Memoori states that the world market for physical security systems will grow by 6%. Video surveillance will achieve a growth rate of 11.8%, double the rate of aggregate growth for the industry and access control 7.2%. Variation in performance across subsectors is even wider with IP Video Surveillance topping the performance charts at around 30%. How this was made possible is one of the main themes of this market study named "The Physical Security Market 2012". The study says that the main drivers for growth are companies that are delivering products and systems that are transforming the security industry from a cost center to a cash generator.

If you are interested in this aspect of the business, please have a look at our cover story on page 20 that describes a video surveillance application that goes far beyond security and public safety. Another source of information you might be interested in is the white paper "How to Turn Security Products into Intelligent Video Systems (IVS)" published by the In-Sight Forum on their website http://www.in-sightforum.com . You need to register to read the white paper, but it is worth the effort.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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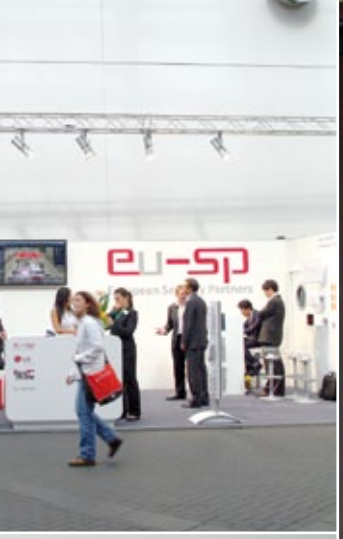

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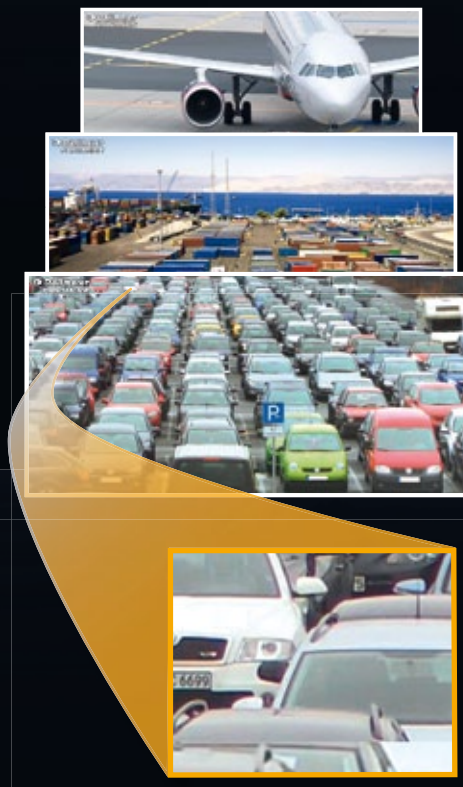

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Wavestore Appoints Business Development Manager

Wavestore has strengthened its sales team with the appointment of Phil Ewers as Business Development Manager. Phil Ewers is a seasoned sales professional who, prior to joining Wavestore, was Senior Business Manager for Counting Solutions where he played a key role in the company's successful bid to supply Westfield London shopping centre with Europe's largest people counting solution. He has also worked for APT Headcount Systems and Footfall where he was involved in managing complex projects throughout the UK, mainland Europe and the Middle East. Reporting to the Company's Director, Chris Williams, he will work alongside other members of the sales team to identify opportunities for Wavestore's customers to take advantage of the benefits of video analytics and other advanced technologies, as part of an integrated video management solution.

Phil Ewers

www.wavestore.com

Navtech and Vysionics Agree on Strategic Partnership

Navtech Radar and Vysionics ITS are entering into a strategic partnership. The union will combine Navtech's expertise in millimeter-wave wide-area surveillance technology with Vysionics's machine vision-based Automatic Number Plate Recognition (ANPR) and average speed measurement competencies.Bringing together the two complementing technologies will, the new partners say, increase the sophistication and utility of existing traffic management and enforcement applications and open the way to new ones in the future. Navtech's Clearway radar systems can detect vehicle, people and debris out to 500m through 360° for a total diameter of 1km, and can do so in conditions which will defeat video. The technology is now proven in operational conditions for Automated Incident Detection (AID), both in tunnel environments and to support 24-hour hard shoulder running in above-ground settings.

www.navtechradar.com,
www.vysionics.com

Milestone: Axis Partner of the Year

Milestone Systems has been named Partner of the Year 2011 by Axis Communications. Two awards were presented on the occasion of the Axis Channel Convergence Conference 2012 to Milestone: Partner of the Year 2011 for India and Partner of the Year 2011 for South Asia Pacific (SAP) covering the entire region for Asia, Australia, India and New Zealand. The Company was selected based on the following criteria: strong integration skills; investment in resources for joint workshops and concerted efforts to enhance the company's collaborative business opportunities; value-adding relationship management through support of the partner network in working closely with the system integrators. Oh Tee Lee, Regional Director, Axis Communications, said: "The Axis Channel Convergence 2012 is a platform for us to thank our partner network for their contributions over the past year. We pride ourselves on being a channel-focused vendor and to recognize our successful relationships. Our partners play a significant role in educating customers on the benefits of IP technologies and we look forward to continuing on this journey with them."

www.milestonesys.com

Video Analytics

Dvtel will expand its video analytics product line by releasing two ioimage technologies. The products – an encoder for analog camera and a D1 resolution IP camera, both with built-in analytic rules – are aimed at the remote monitoring market, and designed for both commercial and residential installations. "Dvtel is committed to developing the ioimage product line," said Sagy Amit, Sales Manager, Video Analytic. "The market for video analytics is growing significantly especially in remote monitoring applications and high-end markets like critical infrastructure, government and military."

www.dvtel.com

Bosch and Arvoo: Number Plate Recognition Recording

Bosch Security Systems and Arvoo announce their partnership by providing a state-of-the-art integrated Automatic Number Plate Recognition (ANPR) solution for the EMEA region (Europe/Middle East and Africa). Both companies bring their specialism to the table: while security cameras from Bosch provide high-quality pictures, Arvoo technology delivers fast and accurate ANPR analysis. The cooperation comprises a dedicated Arvoo ANPR integration for recorders and Video Management Software from Bosch. The alliance offers gas stations, hotels, stores, government facilities, city toll booths and other customers an all-in-one and easy to use integrated solution to monitor and track vehicles on their premises or drive ways. Available for any ANPR application the Dinion Capture Series cameras from Bosch are specially designed to capture high-resolution images of a license plate even when the vehicle is travelling at speeds of up to 225km/h.

www.boschsecurity.de

Hikvision Protects French Prisons

La prison de Lille-Annoeullin – a new prison in the northern town of Lens, France – opened in July 2011. Utilizing one centralized main-control room and a series of thirteen secondary control rooms, La prison de Lille-Annoeullin is on the forefront of video surveillance solutions in France. Samir Rekik, R&D Engineer at Aris Technologies Company (video solution designer and integrator for this project), explained the initial, and overall, goal of this solution was to "convince customers that a new open solution based on Hikvision equipment provides both a robust, and economically superior, model to older versions … and all with a setup that does not require any special technical knowledge in its day-to-day operations." The manufacturer's products chosen for this project include analog box cameras, analog vandal proof dome cameras, standalone DVRs and video servers. Samir Rekik: "The two models were such an upgrade that security operators actually had as good nighttime contrast and sharpness as they did in the day." Both cameras utilize a variety of functions, such as a Day/Night auto switch, a 1/3" Sony CCD, auto white balance, auto gain control, electronic shutter control, and backlight compensation to achieve this result.

www.hikvision.com

MegaDome®2

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MegaDome all-in–one megapixel dome cameras have a global reputation for superior performance and functionality. MegaDome®2 makes them even better with the addition of remote focus, remote zoom and Day/Night in combination with auto iris capabilities. Additionally, the MegaDome®2 family includes IR and Audio options. Available with 1.3, 2, 3, and 5 megapixels, MegaDome®2 is ideal for virtually any mainstream surveillance environment 24/7. They're IP66 environmentally rated and IK-10 impact rated and feature H.264 compression to minimize both bandwidth and storage requirements. All attributes contributing to their lower total cost of ownership and superior ROI. Just when you thought megapixel imaging couldn't get much better, there's MegaDome®2 only from Arecont Vision.

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MADE IN THE USA

Xtralis Establishes New German Headquarters

Xtralis has established a new headquarters in Molfsee, Germany to serve as a base of operations for its rapidly growing business in Germany, Austria, and Switzerland (DACH). The headquarters is the former home to Heitel Digital Video, now a division of Xtralis. The headquarters will hold key engineering and development, training, marketing and sales staffs to support the full line of the Company's solutions. The leadership team located in Molfsee includes Heitel Division Managing Directors Michael Meissner and Carsten Heinemann; Michael Gwozdek, Director of Product Line Management – Xtralis Remote Monitoring business; Andreas Weick, Sales Director Life Safety Solutions DACH; and Rainer Gräfendorf, Sales Director Security DACH. The headquarters will also be home to over 30 Xtralis employees and it features a training facility as well as a Customer Experience Centre for live product demonstrations.

www.xtralis.de

NFC By HID

HID Global introduces a cloud-based platform for secure Near Field Communications (NFC) tags and services that eliminates the inherent risks of authenticating original documents, processes, data-logging and high-value assets with traditional sign-off procedures. Leveraging the company's Trusted Identity Platform (TIP) for secure communications and identity transactions, the HID Trusted Tag Services platform secures assets and protects consumers from counterfeit goods while improving authentication convenience by using contactless readers or any NFC-enabled smartphone. The manufacturer's Trusted Tag transponders can be embedded within an item or attached to a document to establish its unique identity, and presented to any NFC-enabled reader or smartphone to verify its authenticity. The Trusted Tag Services ecosystem includes a comprehensive range of tag, inlay and card solutions as well as the Trusted Tag authentication transaction environment. This environment enables cloud-based provisioning of identity certificates to the NFC tags, as well as the revocation of certificates at any time, such as when a batch of high-value items has been stolen. **www.hidglobal.com**

Genetec: Infrastructure Partner Program

Genetec announced an Infrastructure Partner Program, a certification program designed to qualify solutions from storage vendors to ensure optimal use with the Company's unified security platform, the Security Center. The certification program validates that purpose-built high performance storage solutions demonstrate seamless integration with Genetec software. With increasing camera resolutions, longer retention periods and a need for more cameras in more places, the requirement for efficient, reliable and affordable storage solutions is becoming paramount. Interest in purpose-built high-performance storage also means that maintaining the reliability and predictability of these infrastructures and the software that's integrated with them is becoming much more complex. As a result, the Company has introduced its Infrastructure Partner Program to help customers ensure the most efficient configuration of their installation and optimal tuning of their applications in this demanding environment.

www.genetec.com/partners

Hikvision Cameras Integrating with Avigilon Software

Hikvision's Onvif-conformant IP cameras now have the ability to seamlessly integrate with Avigilon's Control Center Software. This integration now provides customers with the freedom to better choose the specific combination of products to best fits their needs. The bullet cameras, dome cameras, and box cameras are all offering features such as high resolution, wide dynamic range, low light capability, ease of installation. Moreover, the IP cameras provide users an open-standard based solution and great flexibility to select components for their security system. With the Avigilon Control Center software, users can now remotely monitor and control most of the key features of their Hikvision IP cameras; such as PTZ, two-way audio, alarm inputs, outputs, etc. Advantages of the software include multi-megapixel and high dynamic imaging, HD recording and playback timeline, data protection and storage management.

www.hikvision.com
www.avigilon.com

Axxonsoft Supporting Paxton Access Control

Axxonsoft has completed work with Paxton Access to integrate support for the Paxton Net2 access control system into the Intellect platform. Integration paves the way for configuring and monitoring Net2 systems, as well as processing information from readers, electromechanical locks, and other access control devices from the Company – all from within the Intellect interface. Physical barriers such as turnstiles, door locks, and gates can be controlled as well. Flexible, comprehensive support allows for managing multi-role user access, schedules, map visualizations, and event logs directly from Intellect. All features of the open Intellect platform remain fully available for implementing robust security and video surveillance systems.

www.axxonsoft.com

Iqinvision Appoints New Executives

Iqinvision announced two key executive appointments and a number of new manufacturers' representative firms to continue to expand the company's sales network. In addition, the company has launched a new website, designed as a customer-centric resource. Alex Doorduyn joins the company in the new position of Director of Product Marketing. He is a veteran of the physical security industry with over 18 years' experience in the US and Europe. His most recent positions include Director of Product Management at Intransa and Global Product Marketing Manager at Pelco. His responsibilities will include directing the company's development of new product lines, managing partner relationships, and ensuring product benefits are properly communicated to the sales and marketing teams as well as the market as a whole. Euro-

Alex Doorduyn

pean sales operations have a new leader with the appointment of Michael Kragh as Director of Sales. He entered the security industry over 16 years ago, working for the distributor EET Group. In 2004, he started his own company, Safevision, which distributed a host of physical security and networking solutions – including the Company's HD megapixel cameras.

www.iqeye.com

VSaaS in the Business Market

Video surveillance as a service (VSaaS) must provide more for less – a key takeaway from this year's MVaaS Summit hosted by Envysion, and held in Boulder Colorado, U.S. in October. IMS Research Market Analyst Sam Grinter attended the Summit and states, "A VSaaS solution must return on the initial investment as soon as possible by incorporating multiple applications and functions to add value over a 'traditional' video surveillance system." Return on investment is achieved through limiting employee shrinkage, providing evidence to counter fraudulent claims, and generally increasing operational efficiency. A VSaaS solution can integrate with existing security cameras and typically costs between 125 and 200 US-$ per site per month depending on the number of security cameras. A key feature of a VSaaS solution is that security cameras can be accessed and managed remotely through an internet browser or tablet. In a recently published report by IMS Research (acquired by IHS) titled "The World Market for Video Surveillance as a Service (VSaaS) – 2012 Edition," the Americas VSaaS market for small-to-medium sized businesses (SMB) was estimated to be worth less than 50 million US-$. Considering providers in the market have been active since 2000, growth and uptake of VSaaS has been limited, something is holding back mass adoption of VSaaS solutions in the SMB market. Grinter continues, "The on-going service cost and lack of knowledge of the potential benefits of VSaaS on the customers behalf, has limited growth. A VSaaS provider must justify why a company should invest in their VSaaS solution. Demonstrations and trial deployments have proved effective strategies for introducing new customers to VSaaS."

www.ihs.com

Axxonsoft and Alphasonic Create Center of Excellence in Hungary

Axxonsoft and Alphasonic have achieved a contractual arrangement to create a Center of Excellence in Hungary. The Center's tasks will include provision of training in Hungarian, with rights to certification in the name of Axxonsoft, and tracking the manufacturer's products at all stages, beginning with pre-sale consultation and ending with post-sale tracking. In the very near future a demonstration stand will be set up, at which all those interested may see the operation of the Company's basic products and vertical solutions. In addition, Alphasonic will conduct sales of Axxonsoft products. The companies plan joint participation in exhibitions in Hungary and annual presentation of free seminars. Likewise, it will be possible to obtain technical documentation and advertising brochures in Hungarian at the Center.

www.axxonsoft.com

BSIA Updates Access Control Guide

The British Security Industry Association (BSIA) has updated one of its guides to access control systems. The guide, 'A Specifiers Guide to Access Control Systems', aims to raise awareness to specifiers and potential purchasers about the contributions and benefits that access control systems can give to a premises. Properly designed and installed access control systems are known to be very effective forms of security, allowing for integration with other security systems to enhance the protection of employees, buildings and assets. Secured by Design, the ACPO (Association of Chief Police Officers) initiative for 'designing out crime' has supported the principles in the guide that describe how to grade an access control system in line with other security applications and measures. The new updates provide readers with more in-depth details of this recommended grading system which has also been revised. **info@bsia.co.uk**

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Fax : +32 (0) 3303 5624
e-mail: flir@flir.com

www.flir.com

MARKET STUDY

From a Cost Centre to a Cash Generator

Security Industry Restructures to Meet New Challenges

IMF projections for the rate of GDP growth across advanced countries in 2012 is 1.4 % whilst the world market for physical security systems grew by 6 % a multiple of approximately 4.3. Even allowing for much higher rates of growth in emerging and developed economies this is much more than a worthy performance particularly for a mature industry. It also masks the fact that video surveillance achieved 11.8 %, double the rate of aggregate growth for the industry and access control 7.2 %. Variation in performance across subsectors is even wider with IP Video Surveillance topping the performance charts at around 30 %. How this was made possible is one of the main themes in our 4th Edition of "The Physical Security Market 2012".

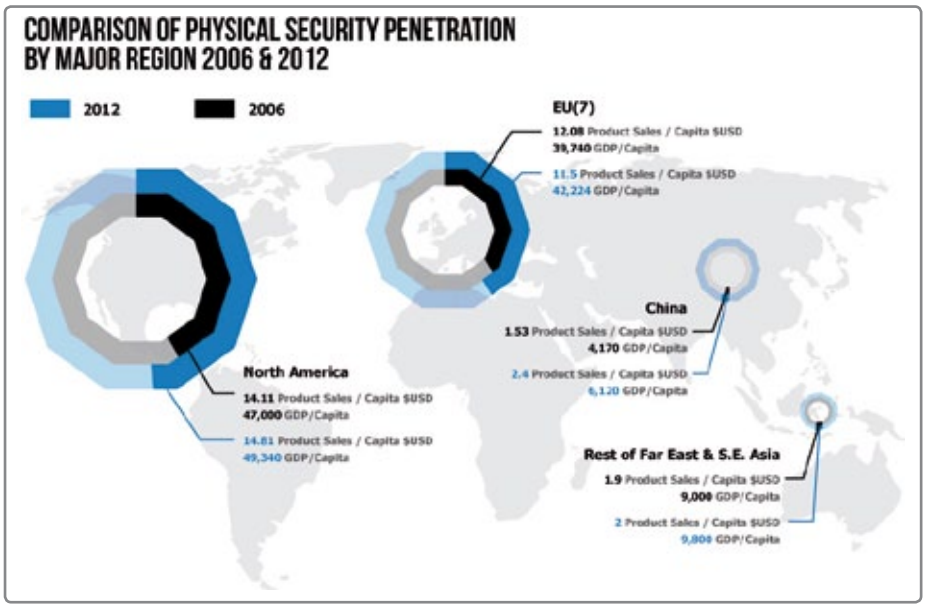

Fig 1.: Penetration of physical security products

Why Structural Changes Have Increased Demand

The main reason that it has been able to prosper during the worst trading conditions for decades is that the structure of the business has morphed not just to compensate but to meet and beat the challenge.

Our 2012 Annual Report shows that both the middle strata and small companies have both increased the size of the market and their share. The minnows are taking on the sharks and winning, both through the development of leading edge products and growth through acquisition and alliances.

But the main driver is that they are delivering products and systems that are transforming the security industry from a cost centre to a cash generator.

The business has also benefitted from IT & Communications and Defense companies continued foray into the security industry leveraging their expertise in digital technology and making serious inroads into homeland security and transport markets.

The second structural change that has contributed to getting more from seemingly less is that the routes to market have changed with system integrators now taking some 50% of all product sales Manufacturers are now partnering with system integrators to develop solutions that work across different vertical markets that add value not just for improving security but to increase operating efficiencies.

IP Networking products can offer much more than analogue when they are joined with other building services and the business enterprise and these additional benefits for the end user have definitely increased demand because they deliver a much improved ROI. There is no reason why the traditional distributor route cannot deliver the same service but most distributors have not seen the need to change and prefer to shift analogue boxes whilst their share of the market declines.

Market Growth by Sector & Region

The total value of world production of products at factory gate prices in 2012 was $20.57 billion. Of this Video Surveillance products at $10 billion increased their share to 49 %, Access Control at $4.8 billion took a 23.5 % share and Intruder Alarms at $5.77 billion had a 27.5 % share.

The developed markets of North America and Europe are losing market share to Asia and particularly China which will be the largest single market before the end of this decade. Asia has increased its share to over 35 % for all physical security systems, whilst growth has been much more modest in North America and Western Europe with an aggregate increase of 6/7 % and 3.5 % respectively over the last 3 years. This trend will continue well into the next decade.

The measure of penetration of physical security products in any country is an important factor because it sets a benchmark for the latent potential that is available to exploit. There is an enormous latent demand waiting to be exploited in the emerging markets of the world. China for example currently has a penetration of one sixth of the USA but this stood at one tenth in 2011.

The Chinese market is growing rapidly by using up this latent potential. Fig 1 shows that the penetration of physical security products is highest in North America where GDP per capita is forecast at $49,340 and security sales per capita $14.81. In the EU(7) GDP per Capita is projected at $42,240 and security sales per capita at $11.5. With such high penetrations, growth in these markets has to come from the opening up of new vertical markets, the migration from analogue to IP network systems and continual improvement in delivering a higher ROI.

Market Forecast to 2017

Our forecast for the next 5 years to 2017 is based on world market trading conditions remaining fairly static during the second half of this year and carrying on through the first half of 2013; thereafter gradually growing through the following 4 years. We forecast a CAGR of 5 % over the 5 year period. This could be considered rather optimistic, considering that at best the European market will remain static. But we had an unprecedented traumatic 5 year period from the end of 2007 and the physical security market managed to grow by a CAGR of 2 % during that time.

The security industry is now in a much healthier state with a product portfolio that can deliver more attractive opportunities for their clients to improve security and at the same time profit from it. This together with the unstoppable growth of IP Video Network and Access Control coupled with management identification and verification will drive the market forward.

In addition further growth opportunities are opening up in relatively new vertical markets and the Smart Building sector where System Integrators from the Security Business are using PISM, PIAM and SAP platforms to deliver holistic systems incorporating monitoring building and energy performance in addition to security and safety. In the event that these drivers don't live up to expectations we can rely on the BRIC and other emerging markets to continue growing and the move to cloud based systems.

Further Research

Memoori's report "The Physical Security Business in 2012" combines clearly defined market sizing statistics with financial analysis of M&A and investment. It brings together all the factors that influence this industries future; including technology, finance and the capability to deliver products that meet the customers need to drive more ROI out of investment.

▶ CONTACT

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jim@memoori.com
www.memoori.com/physical-security-2012

As the global leader in network video, Axis is setting a fast pace. Now it's time to bring the whole analog gang along for the ride.

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AXIS COMMUNICATIONS

EVENTS

High Expectations in Dubai

Intersec 2013 Organizers Confident of Crossing 1000 Exhibitor Mark

With over 70% of space already taken up with four months left for the event, organizers of Intersec 2013 have their sights set on reaching the 1,000 exhibitor milestone. The region's largest trade platform for safety, security and policing is expected to be 10% larger than last year's event.

According to Epoc Messe Frankfurt, organizers of Intersec 2013, the continuing growth of the trade exhibition can be put down to the burgeoning safety and security industry worldwide and the ongoing support of local authorities such as the Dubai Police, the Dubai Police Academy and the UAE Civil Defense These factors have made Intersec one of the most popular Middle-East regional trade exhibitions for the security, safety and protection industries.

Mr. Ahmed Pauwels, Chief Executive Officer, Epoc Messe Frankfurt, organizer of Intersec, stated: "We have strategically aligned the exhibition and conference with the perceived needs of the region's security, safety and protection industries. The growth of the Dubai edition reflects the regional marketplace and we will continue to explore avenues which will help to further cement Intersec's importance for this industry."

Interest Centers

Intersec is divided into four sections, namely Fire and Rescue, Safety and Health, Homeland Security and Policing and Commercial and Information Security. The Fire and Rescue section covers products and services within fire prevention and protection, firefighting equipment, emergency alarm and warning systems and rescue equipment. Exhibitors already confirmed for the next event include Tyco Fire, SFFECO, Naffco, Bristol Fire, Underwriter Laboratories, Siemens and Honeywell Fire, to name a few.

The Commercial Security and Information Security section covers control and surveillance equipment, access control, monitoring and recording systems and information security. Confirmed exhibitors for 2013 in this section include Axis, Flir, Hikvision, Honeywell Security, Infinova, Lenel, Norbain, Panasonic, Samsung, Sony and Tyco Security.

The Safety and Health section covers Personal Protection Equipment (PPE), environmental protection at work, safety at work and health at work. Some of the confirmed exhibitors within this section are Allsafe, Ansell, Draeger Safety, Honeywell Life Safety, MSA and Scott.

When and Where

Intersec 2013 will take place from 15–17 January at the Dubai International Convention and Exhibition Center in the United Arab Emirates. It is managed by the German trade fair organizers Messe Frankfurt and covers the fields of commercial security, information security, aviation security, homeland security and policing, fire and rescue as well as health and safety.

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

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

At the Fringe

Also running alongside Intersec are a growing number of fringe events and features. The 2013 event will feature the 4th running of the UAE Firefighters Challenge (formerly UAE FireFit Championships) which will see countries from the GCC and Europe compete in a range of tasks simulating real-life fire rescue experiences.

The 2013 conference series will feature The Aviation Security Summit and the Fire Safety, Standards and Regulations Forum. The Aviation Security Summit will discuss ways of ensuring passengers and cargo are secure and concentrate on improving passenger processes. The Fire Safety, Standards and Regulations Forum which looks at protecting assets will cover the latest codes, standards and regulations, look at risk mapping and uncover some dynamic engineering solutions.

Intersec is part of Messe Frankfurt's global network of security trade fairs which also include Secutech India, Secutech in Taiwan, Secutech Thailand, Intersec Buenos Aires, Secutech Vietnam and Seguriexpo Buenos Aires.

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SECURITY ESSEN

ONVIF Confirms Relevance of Standardization

Panel Discussion Held at Security Essen

ONVIF, the leading global standardization initiative for IP-based physical security products, hosted a panel discussion at Security essen 2012, an event that drew a diverse crowd of more than 80 people, demonstrating that the issue of standardization and interoperability in the security industry is still a subject of great interest and debate.

The panel discussion, held as part of an ONVIF networking event during security essen, featured a panel of industry experts from the security and standards industries. The panelists agreed that the deployment of standards in the industry would allow systems integrators and end users to more easily compare and select products for IP video deployments and enable interoperability between existing and future components of a system. "For the most part, we don't typically build a system from scratch," said panelist Jürgen Alz, Product Management, Bosch Security Systems, business area building security. As ONVIF matures and becomes more widespread in installations, he said, this will provide the ability to automatically interface with existing ONVIF conformant surveillance equipment at a customer site and would be a major advantage when upgrading a system for a client.

The panel also included Jonas Andersson, Chairman of ONVIF's Steering Committee; Frank Rottmann, Bosch Security Systems, and liaison partner and convener, International Electrotechnical Commission TC 79 'CCTV' and René Kiefer, Siemens Building Technologies, and Chairman of the Video Expert Group, ZVEI Industrial Association Security. Panelists discussed such issues as ONVIF test tools, the impacts of competing standards initiatives in the market and whether technological innovation would be stifled as the result of standardization. Heiko Baumgartner, Publishing Director, GIT SECURITY and Steffen Ebert, Publishing Director, GIT SICHERHEIT, served as the moderators for the panel discussion.

Standards Will Enable the Security Industry to Talk with One Voice

Audience members queried the panel on topics ranging from the timeline of ONVIF's introductions of the access control specification and future plans for an intrusion spec. Questions were also raised about the potential use of third party testing houses as a standard method for ensuring full product compliance. "In the end, ONVIF will create more easily interoperable products, which will increase the number of applications for the end user and grow the market for manufacturers and integrators," stated René Kiefer.

Another ideal outcome of standards initiatives in the security market would be to spread the message to other industries that IP video is a valuable tool outside of surveillance, such as queue management, traffic flow and other functions.

"Standards will enable the security industry to talk with one voice to the rest of the world," said Frank Rottmann. "Whether it's the logistics industry or a company like SAP, those organizations will think that video is easy because of standards and they should be doing more with that technology within their own businesses."

Also featured at the networking event was a display of the history of major milestones of ONVIF, which included the group's formation at Security Essen in October 2008, the release of Version 2.0 of the ONVIF Core Specification in late 2010, and the release of Profile S one year later. An interoperability demonstration of Profile S, which encompasses video and audio streaming, PTZ and relay output control as well as video encoder configuration and multicast, was displayed at the event. Demonstrating companies included: Milestone Systems, TKH Security, StreamLabs, IndigoVision, EverFocus, DRS Technologies, AxxonSoft, Hikvision, Shenzhen Jiaxinjie Electron CO., LTD. Further information about ONVIF conformant products, including the vendors and the conformant models, is available on ONVIF's website.

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FIRE SAFETY

A Safer Bus

Detecting and Extinguishing Fire in Public Transport Vehicles

Over the years, buses and coaches have become technical marvels in terms of comfort and safety, not least with fire protection having become an area that both manufacturers and operators have started to take more seriously.

It was the night of 8th September 2009 at the Atac bus depot on Tor Pagnotta in Rome as the depot was enveloped in flames and 24 gas-fueled buses were destroyed. Only five months earlier, another Atac depot had burnt down, destroying 30 mini-buses. On 4th November 2008, on the motorway near Garbsen in Germany, a coach carrying a group of pensioners and children caught fire. The fire spread extremely rapidly, killing 20 of the passengers, many of them still held in their seats by their seat belts. On 25th December 2011, fire at a depot in Bottrop in Germany, destroyed almost 70 buses with a value of about EUR 17 million.

The list of bus and coach fires that have resulted in major economic losses and, in the worst cases, in injuries or deaths, is long. The list of smaller bus fires with less dramatic consequences is even longer. Not surprisingly, not much is heard or seen internationally about such fires in the mass media, for understandable reasons: the operators do not want to scare the passengers.

Standard Equipment

The general reaction to bus and coach fires tends to vary, and is partly dependent on how the question is seen politically. When, for example, three buses from different manufacturers were totally destroyed by fire within one week in the summer of 2009 in Poland, it resulted in major political discussions which led to most of the large bus companies starting to install fire- extinguishing systems in their vehicles: a decision which puts Poland in the lead in the struggle against the rising number of bus and coach fires. The seven large European bus manufacturers, Evo-bus (Mercedes-Benz/Setra), Irisbus/Iveco, MAN Nutzfahrzeuge (MAN/Neoplan), Scania, Solaris Bus, VDL Bus & Coach and Volvo, who together cover about 85% of the market, have for example since January 2011 begun to fit all their vehicles with fire detection systems in the engine compartment.

This simple measure gives the driver a chance to discover the fire at an early stage, with time to stop the bus or coach and get the passengers off. The right choice of materials, fitting of seat belts, requirements for manual fire extinguishers and the installation of fully automatic fire-fighting systems in engine compartments are examples of other measures that have been applied. However, it becomes very much more complicated if the driver should then attempt to fight the fire using a manual fire extinguisher. Provided that the fire extinguisher works, and that the driver is capable of using it, it can be difficult to open the engine compartment, locate the fire and extinguish it correctly. For this reason, the existing fire detection system should be complemented by a fire-fighting system that automatically extinguishes the fire. Nothing should be left to chance when proven technical designs are available.

This raises the question that bus and coach manufacturers, manufacturers of fire-fighting systems, bus and coach owners and certification companies are discussing at present: What requirement should be specified for a fire-fighting system, and how can we decide upon a suitable performance specification?

International Approval

The rising demand is attracting interest from many manufacturers that offer a multitude of fire-fighting systems based on a wide range of designs. For the end-user, it is often price and approvals that decide the choice of fire-fighting system, but with what approvals can the vehicle owners, and thus also the passengers, feel safe? What test methods lie behind the approval? How does the price affect the quality and performance of fire-fighting systems? Can we install some type of fire-fighting system that is normally used for other applications than vehicles, without having to modify it? That these questions are not just hypothetical is shown by incidents in which buses or coaches have been destroyed even when fire-fighting systems have been installed, and also by cases where the vehicle owners have suffered high costs due to spurious operation of the systems.

In 2004, publication by the Swedish Fire Protection Association (SBF) of its document SBF128 meant that, for the first time, there were rules directly aimed at fire-extinguishing systems for buses. For several years, SBF128 has provided concrete help for many manufacturers and bus and coach owners in countries both within and outside Europe. The accumu-

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NEXT-GENERATION HYFLEX®. NEW INDUSTRY STANDARD.

REAL CUT PROTECTION HAS NEVER FELT THIS LIGHT.

Introducing HyFlex® 11-518 - the first-to-market 18 gauge glove with advanced cut protection and a breathable, barehand-like feel.

In field trials for the new HyFlex® 11-518 glove, it was preferred by nearly 70% of workers currently wearing other light to medium duty synthetic gloves to handle sharp, dry, ultra-fine parts. They praised the barehand-like comfort, dexterity and cool, dry fit. Coupled with the PU coating the combination provides cut protection and abrasion resistance equivalent to heavier duty gloves.

Find out more about the next generation HyFlex® 11-518 at **www.ansellhyflex.com** or contact us at **info@ansell.eu**

EXPO PROTECTION	**4-7 December - Paris** **Visit us at Hall 7/D109**
INTERSEC	**15-17 January - Dubai** **Visit us at Hall 4/717S**

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Ansell

lated experience from this work now makes it possible to take the next step in development, and create an international standard to establish a binding performance level for manufacturers of fire-fighting systems, bus manufacturers and bus owners. SP, together with many interested international parties, has taken the initiative to develop an international standard.

Since the 1970s, when insurance companies began to require fire protection on forest machines, Dafo Brand AB has developed designs not only for forest machines but also for contractors' machinery, mining machinery, buses, coaches, rock-crushing plant etc. With some justification, Dafo Brand AB can claim to be one of the companies that were among the earliest in designing fire-fighting systems intended specifically for use in vehicles, and thus has among the longest history of experience of this market in the world. We learned over this period that a fire-fighting system for vehicles must be robust, able to withstand vibration, be unaffected by different climates, meet EMC requirements and, essentially, operate under all conditions, regardless of the human factor.

No Fire, No Damage

Choice of the right extinguishant and correct method of detection are of course also very important. Detection of a fire must be reliable, and not operate spuriously, while at the same time being sufficiently quick to operate in the event of a fire. The extinguishant must extinguish the fire as quickly as possible, effectively cool overheated parts of the engine, prevent re-ignition, have no adverse health or environmental effects, not damage equipment in the engine compartment, and be certified. Tests have also shown that the engine cooling fan particularly affects the distribution of the extinguishant in the engine compartment, and thus also its efficiency. Low-density extinguishants, for example, have difficulty in suppressing fires close to the fan.

Although fire-fighting systems with the above properties are used in other industrial, private or maritime applications, it does not mean that such systems are automatically suitable for installation in vehicles. The automotive sector has extensive rules for everything that is to be used or installed, and the particular environment encountered in an engine compartment impose high requirements on the performance of fire-fighting systems.

Built In

While a system must perform well in a test environment, this is not the whole story. The system will not only be installed in existing vehicles but must also be suitable for integration in the manufacturer's production line, which requires extensive documentation and close cooperation with their various design departments. With straight-out-of-the-box products, i.e. carefully designed system modules that can be dropped into a mass production line, the manufacturers not only save time but can also be sure of the quality of the product as all systems are installed in the same way and operate in the same manner.

The fact that the vehicle manufacturers have a deep understanding of what is required in order to protect their products, and thus also to protect their reputations, is clearly illustrated by Verbandes deutscher Omnibusunternehmer (German bus and coach operators' association) spokesman Martin Kassler, who says, "We don't want to have any €5 fire alarms from a DIY shop...". This clearly shows that the German market attaches more importance to quality than to the lowest price when considering safety, where simple solutions without a proven effect would very quickly destroy economic values, the reputations of trademarks or particularly the lives of passengers.

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Integrated Platform

Kantech has announced Intevo, an integrated security platform that unites access control, IP video and intrusion in a compact and scalable solution. The easy to deploy integrated security platform is designed to be up and running in minimal time. It is simple to configure and includes a customized dashboard for easy system management. The system is preloaded with the manufacturer's Entrapass Corporate Edition security management software and American Dynamics IP video management software. It also includes support for DSC Powerseries and other alarm panel integration, giving users plug-and-play capability. "Having access, video and intrusion integrated at the ground level in a single appliance will greatly simplify security management functions for users, offering a common user interface and streamlining ongoing maintenance," said Scott McNulty, Kantech Product Manager.

www.kantech.com

Keypad

DSC, a brand of Tyco Security Products, introduced the Powerseries Touchscreen keypad, designed for Powerseries control panels, which delivers an easy and interactive way to manage and control security systems. The full-color, 7-inch keypad offers an intuitive, menu-driven interface and a wide range of functionality for both homeowners and installers. The responsive, high-resolution screen offers installers easy access to full programming on the Touchscreen as well as from a virtual keypad. With up to eight partitions available, the system offers the benefits of a multi-partition control panel without changing the control panel and lets each partition zone act independently from the rest of the system. With customizable home screens that can display the most commonly used functions, installers can quickly set up the keypad based on the homeowners' important functions as well as display logos, contact information and pictures in the background.

www.dsc.com

SAFETY WEAR

Bare Hand Comfort Meets High-level Safety

While hand injuries are the main contributor to overall injuries sustained by workers, cuts are the major type of hand injury. In response, glove manufacturers have in recent years focused on the cut protection performance of general purpose industrial safety gloves. There's also strong demand for ultra- light duty safety wear, with workers wanting comfortable and flexible gloves that hardly feel like they are being worn.

Field Trials Lead to Better Understanding

Traditionally, the thicker and more sturdy the work safety glove, the less comfort and flexibility. This often results in workers failing to comply with safety programs by removing the gloves to get the job done. Ansell studies in the US on industrial hand protection found workers want lighter weight cut-resistant gloves without compromising comfort and performance. The Ansell report also found that workers will trade protection for touch and versatility of movement by taking off safety gloves for more dexterous tasks. Some will even remove the fingertips or make other alterations to the hand protection.

Along with comfort attributes, the trend towards lighter hand protection includes the critical requirement of mechanical performance: the work glove must deliver the best possible protection for a given task. At Ansell, the vision for its HyFlex brand was to empower workers with safety gloves that provide an ideal balance of hand protection, comfort and performance. Ansell has introduced numerous variants in the HyFlex brand, designed for specific tasks and industrial applications. Recent releases have been met with high levels of market acceptance.

Latest Technology Enables Comfort and Safety

Through the latest yarn technology, a solution to ultra-lightweight construction while maintaining high-level cut protection has been achieved. Six years ago, with the introduction of its HyFlex 11-618 glove, Ansell pioneered ultra light weight glove liners to provide the market with an ultra-lightweight safety glove. The HyFlex 11-618 offered major advances in touch and flexibility, significantly improved both comfort and efficiency in the workplace.

Ansell up to the Design Challenge

Now Ansell has developed another ultra-lightweight safety glove, the HyFlex 11-518, with the bare-handed feel that workers want, plus the same cut and abrasion protection available in light and medium-duty hand protection, or heavier Kevlar based styles.

The HyFlex 11-518 was produced using knitting machines from Dyneema, capable of producing new ultra-fine (220 denier) Dyneema Diamond cut-resistant fibre for Cut Level 3 (ANSI 2) performance. The next step in refining the product was to test the HyFlex 11-518 in the US and major European markets. Key end-users from the automotive, metal fabrication and machinery and equipment markets, along with key decision makers such as purchasing managers and safety officers, tested the reakthrough technology.

The key to success of the HyFlex 11-518's 'lightweight efficiency' is the soft, ultra-light liner which combines light, strong Dyneema Diamond technology with a soft blend of nylon/spandex fibre. Through Ansell 3D knitting, this safety glove combines the soft/strong profile of Dyneema Diamond cut-resistant fibre with the ultra-light fit and feel that workers prefer.

Wearers will enjoy enhanced levels of comfort and dexterity, while being protected against cuts at Cut Level 3 (ANSI 2). The HyFlex 11-518 personal protection equipment (PPE) is a much more comfortable fit than other industrial work gloves made with competing materials, some of which contain metal or glass reinforcements to achieve a higher level of cut resistance, adding to their weight, restricting movement and compromising comfort. Work gloves made with Dyneema fibres incorporating the new technology are lighter, thinner, more tactile and keep the wearers' hands considerably cooler than those made with other materials, including aramids.

Dyneema and Ansell a Dynamic Combination

DSM Dyneema is the only High Modulus Polyethylene (HMPE) fibre producer in the world that is vertically integrated from producing the base polymer through to spinning the actual yarn used to knit gloves. The unique polymer used for Dyneema Diamond Technology safety wear provides high strength, cool-touch comfort and high abrasion and tear resistance (Source: Dyneema in Cut Resistance: The competitive strength of Dyneema, Rik Bakker, Urmond, The Netherlands – June 1, 2010). This patent-protected technology increases the cut resistance of the yarn by about 200 per cent over the standard Dyneema fibre by spinning specially engineered micro-particles into the polymer (Source: DSM). Industrial safety glove users now have the 'second skin' comfort which they have sought for many years.

Worker Preference

In field trials undertaken by Ansell in the US in 2005, early prototypes of the HyFlex 11-518 were preferred by 67 per cent of workers now using heavier gloves for similar tasks, a comfort preference that correlates with compliance.

Purchasers/Safety Officers Wearers

Feedback from decision-makers and glove wearers resulted in the following comments:

- Improved comfort, fit and flexibility helps reduce hand injuries
- Versatility in use, capable of using one glove across a range of cut and non-cut tasks
- Comfort increasing in importance and prioritized in purchase decision
- Value for money with increased durability and longevity of
- cut-resistant gloves
- Improved comfort, fit and flexibility allows wearer to carry out task's without having to remove their gloves
- Dexterity
- Tactility

The HyFlex 11-518 liner provides similar cut protection to much heavier cut- resistant synthetic or Kevlar-based work gloves. The PU coating delivers EN Abrasion Index 3 protection (ANSI Level 3) for long life and protects workers' hands from pass-through dirt.

The ultra light, breathable fabric offers unparalleled worker comfort, encouraging more consistent glove use, while the gloves' high dexterity and tactility improves the efficiency of teams working with small, sharp, dry parts.

Bare Hand-like Dexterity

Soft, sheer Dyneema Diamond fibre keeps the hands cool and dry, and moves freely with hand motion for a more comfortable fit. The HyFlex 11-518 work gloves' tough, thin PU coating provides an EN Level 3 (ANSI 2) abrasion rating that extends glove life without restricting the movement of coated surfaces. The HyFlex 11-518 work gloves' tough, thin PU coating provides an EN Level 3 (ANSI 2) abrasion rating that extends glove life without restricting the movement of coated surfaces.

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Robust Fixed Network Cameras

Axis Communications presents two models of fixed network cameras in the robust P13 Series. They offer very high image quality, light sensitivity and enhanced processing performance. The fixed network cameras are available both in indoor and outdoor-ready models. Even in low light conditions, they deliver high resolution images for easy identification. The cameras are particularly well suited to city surveillance applications, as well as transportation, retail, education, banking and industrial surveillance installations. With the release of these two models, the latest technology has now been implemented in the entire P13 Series, resulting in further improved image quality. All models support wide dynamic range, dynamic contrast, and include day and night functionality with an automatically removable IR-cut filter. They use the same lens mount as the previous models, and offer easy installation such as remote back-focus adjustment for fine tuning the focus from a computer. **www.axis.com**

Information Displays

Eyevis has introduced transparent LCD displays. With these transparent digital screens it is possible to combine a real showcased product with digital information displayed in front of it. The displayed contents maybe images, texts or even video showing complementary information on the presented product. It is an infotainment medium for show windows, at points of sale, in display cases, at trade fair stands, etc. With quick reaction times, the information, images, presentations, films and graphics are united with the real object in the background. Additional applications are museum and gallery rooms, sales and information areas as well as trade fairs and events. And the integration into touch-tables or as integrated component of interior decoration – for example as an installation in doors – is also conceivable.

marketing@eyevis.de

CCTV

Think Again!

...If You Thought Megapixel Cameras Were More Expensive

There is a misconception in the security industry that megapixel cameras are more expensive than conventional cameras. Don't believe it. Megapixel cameras provide superior performance and imaging capabilities versus analog and standard definition IP cameras. Megapixel cameras are also field-proven to deliver the most cost-effective video surveillance solutions. To understand real value, it's important to focus not on the price of a single camera but on the overall system cost.

Scott Schafer

Analog and standard definition IP cameras may be lower-priced than megapixel cameras (on a per-camera basis), but these cameras are far more expensive if you evaluate costs system-wide. The truth is that analog and standard IP cameras provide a weak value proposition and a poor return on investment (ROI).

Purchasing Results, Not Cameras

When end user customers buy cameras, what they are really purchasing is the ability to view video that effectively achieves the goals of the application. They need video that provides facial identification, recognizes license plates, captures numbers off of shipping crates and/or captures images of activity in retail stores, bank branches, company or government facilities or at borders, airports or ports. They are purchasing the capabilities, or the functionality, the cameras can provide. When you consider the price of analog or VGA cameras compared to their functionality, the picture changes dramatically. Megapixel cameras provide much more bang for the buck – that is, more value for the price – than lower-resolution cameras.

Megapixel cameras do a better job of capturing more information than standard-resolution cameras, and that superior performance translates into ROI in multiple ways. If you consider the concept of "pixels per meter" (that a certain number of pixels are required to depict one meter of a scene for a specific application), it's clear that more pixels equate to an ability to view larger areas. For example, where 10 standard-resolution cameras might have previously been required to cover a parking lot, the same application can now be served using three or four strategically-positioned 3 megapixel cameras or even a single megapixel panoramic camera, depending on the application requirements.

'Resolution per Euro'

A real value of megapixel cameras is the ability to provide more "resolution per euro" than analog or VGA cameras. Using estimated pricing and numbers of pixels as a quantitative measure of resolution, it's easy to demonstrate that megapixel cameras provide more resolution for the money.

The following grid illustrates the real cost effectiveness among various camera resolutions. VGA or standard definition cameras provide about 300,000 pixels per camera. Megapixel cameras provide 1,300,000 to 10,000,000 pixels per camera, or more.

Class	Resolution	Pixels	Pixels/1€
VGA	640 x 480	307,200	1,992
HDTV 720p	1,280 x 720	921,600	4,781
1.3MP	1,280 x 1,024	1,310,000	5,432
2MP	1,600 x 1,200	1,920,000	7,411
HDTV 1080p	1,920 x 1,080	2,073,000	8,003
3MP	2,048 x 1,536	3,145,728	7,074
5MP	2,592 x 1,944	5,038,848	10,808
10MP	3,648 x 2,752	10,039,296	19,955

This grid clearly shows that the most cost-effective solutions are multi-megapixel cameras. The VGA camera only provides 1,992 pixels per Euro (€). Compare that to 1080p cameras at 7,411 pixels per Euro and 10MP cameras at 19,955 pixels per Euro. Understanding "resolution per dollar" makes it simple to evaluate which camera (or what number of cameras) is appropriate for a given application. Based on "pixels per meter" you know how many pixels you need to view a certain area. "Resolution per euro" makes it clear which camera (or group of cameras) can provide that needed number of pixels most cost-effectively.

System Cost vs. Camera Cost

When crunching the numbers on a new system installation, it is helpful to take a broad view of overall system costs. The complete cost of the system is obviously a better measure than the price of a single component. The price of a single component is not a good reason to dismiss a new technology as too expensive without considering how the extra expense will be offset by added functionality and other system cost savings. In the case of megapixel cameras, beyond the lower resolution-per-euro cost analysis, other factors include a decrease in installation costs by using fewer cameras, the elimination of mechanical pan-tilt-zoom devices and a reduction in operations staff. Using fewer cameras to cover large areas also translates into cost savings related to infrastructure (cables, mounts, housings, etc.), which makes it easy to realize an ROI.

So now you know. Analog and standard definition VGA IP cameras provide the worst value and therefore are the most expensive cameras you can buy. Next time, go for the best image quality and best price by choosing megapixel cameras. They deliver the best ROI.

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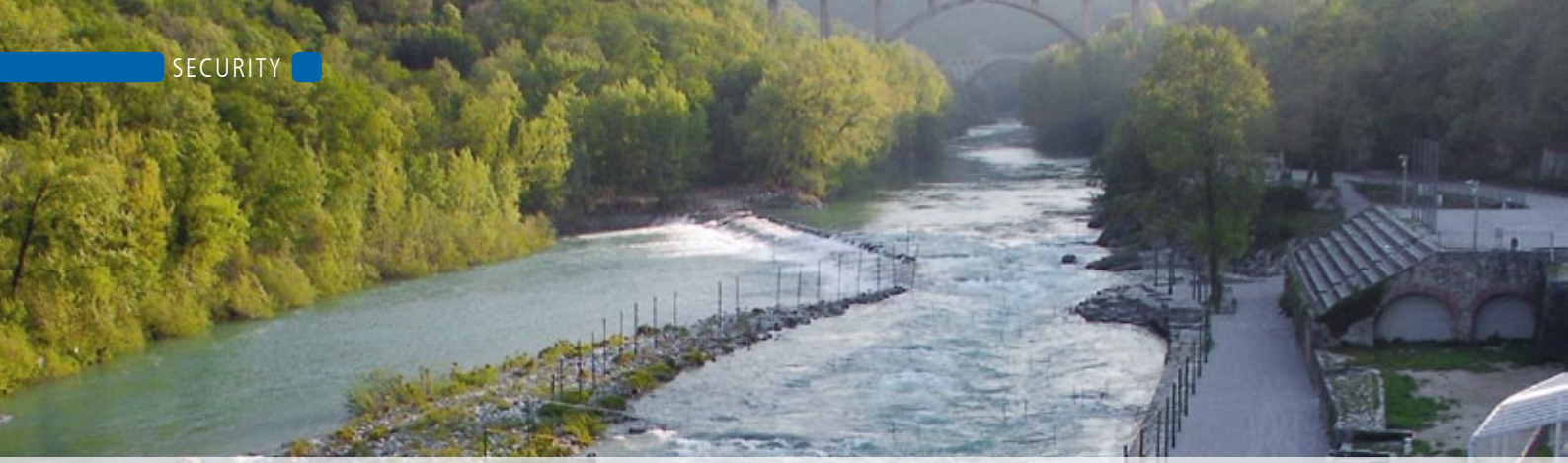

COVER STORY

Beyond Public Safety

High-Definition Surveillance System Delivers 100% Fair Judging at Canoe Center

To the majority of the population, surveillance systems are thought of as a crime prevention tool, used by law enforcement officials around the world to identify perpetrators and boost investigation success. While there is no doubt that surveillance cameras play a critical role in ensuring public safety and reducing criminal behavior, there are other practical applications for these systems that go beyond typical surveillance. Many businesses today use their high-definition surveillance systems for business intelligence to improve operational efficiencies, enhance customer service, and ensure regulatory compliance, all in an effort to add to the bottom line.

Some businesses have found even more creative ways to leverage the superior image quality and advanced functionality of today's high-definition surveillance systems. For instance, restaurants in the UK use high-definition surveillance at several of its restaurants to not only protect patrons and monitor food quality, but to project footage of the kitchen and dining area on monitors installed outside the restaurant doors. For these popular restaurant chains, the surveillance footage has become a key part of the overall atmosphere and an important marketing tool used to attract new guests.

The Canoe Center in Solkan, Slovenia, one of two national centers for wild water kayaking and a top training camp for several national teams, has also found a unique way to leverage its high-definition surveillance system, using it as a video analysis tool for coaches and judges to assist in training, resolve potential disputes, ensure fair judging and ultimately, attract high-caliber International Canoe Federation (ICF) competitions.

Defending Penalties in Wild Water Canoeing

In the sport of wild water canoeing, competitors must pass through gates without touching them or an immediate time penalty is applied, which can dramatically impact results. These decisions are based on what judges can see and often end in dispute. After a heated argument at the 2010 World Championships, the Canoe Center began to look for a reliable, scalable, cost-effective high-definition surveillance system that could withstand the outdoor environment and deliver indisputable evidence. "In wild water canoeing, the need for immediate access to irrefutable video for fair judging is critical," said Andrej Grobisa, director at AGM. "The Center also needed a solution that could provide exceptional image quality while accommodating demanding environmental conditions."

The Canoe Center installed the Avigilon high-definition surveillance system to cover the 400-meter course, enabling judges to clearly identify activity at all gates from any point of view. The Canoe Center will also offer competing teams' temporary access to live video and recorded events and will install a dedicated server to archive footage from all major events for historical review. The Canoe Center plans to deploy a mobile version of the software on iPad devices to equip judges with a tool for instant review of incidents. "From the coaching point of view, Avigilon Control Center Mobile will make

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it easier to share video with athletes for immediate performance analysis," explained Branko Brezigar, sports center manager at the Canoe Center.

100 Percent Fair Judging

"Excellent image quality was the crucial factor in deciding which system to deploy because it must be able to capture the necessary detail to make informed and accurate decisions," said Brezigar. It was also important that the system provide a clear picture in all weather conditions. Because judges need to apply penalties in real time, it is imperative that they have access to clear, sharp video images to resolve possible disputes. "For the first time, our judges feel that they have an efficient tool to review questionable trajectories and resolve disputes with 100 percent accuracy," claimed Brezigar. "As the only training facility to ensure 100 percent fair judging, we have a strong competitive advantage when applying to host major ICF events." And with a high-definition surveillance system in place that is easy to use and delivers indisputable evidence of races and events, the Canoe Center does not need to hire additional gate judges to improve the quality of judging, thereby reducing costs.

World-class Reputation

There is no doubt that surveillance systems can improve the public's safety and help protect the assets of many organizations across the globe. But with vision and a little creativity, a high-definition surveillance system can also become a valuable tool to help businesses enhance their operations, monitor for compliance, attract new customers, and boost profitability. And in the fast-paced world of competitive wild water canoeing, a high-quality surveillance system can mean the difference between bringing world-class competition to their venue – a lesson the Canoe Center in Solkan, Slovenia has learned well.

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ACCESS CONTROL

Doubly Safe

Keeping Tabs on the Keys in the Copenhagen Airport

Securely controlling keys and access cards has always been a great challenge for Copenhagen Airport. The keys must be available to staff 24 hours a day, all year round, but it must be immediately obvious if a key goes missing. A future-proof solution was sought by the airport security team.

„With the new proxSafe electronic key management system (5 flexx 12U and 1 flexx 24U), we can always see who has the keys", explains Stig Høeg Andersen, Administrative Supervisor for Security Guards and area security. All key bundles are now fitted with an electronic chip that is read by key cabinets where the keys are kept locked away when not in use. According to Stig Høeg Andersen, the system is user friendly, both for the staff administering the system and for staff who collect and return their service keys daily.

It is defined in the system exactly which key or keys each employee should be able to use. The proxSafe system also continuously registers who has, or had, the keys. „The system is secure and very flexible. To gain access to the keys, employees present their ID cards. But they must first have one of these cards with them to gain access to the key management system at all. Each card is programmed so that it only gives access to the keys that each employee needs. This means that the majority of all key collections and returns can happen automatically."

Come Back Safe

The system has already ensured constant high security in our key administration but, according to Stig Høeg Andersen, the proxSafe system also has several other advantages: „If an employee needs a key that he does not normally use, it can be remotely released from our operations center. All events in the system are stored in a log, so we can always tell who had the key, and when. If a key is not returned as expected, the responsible person is immediately alerted via email." The proxSafe system has been supplied to the airport by the Ringsted company Digana-Taximat, which supplies electronic access control systems and administration stations for keys and valuables.

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CEM Systems, part of Tyco Security Products, is a leading provider of fully integrated security management systems.

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ACCESS CONTROL

Think Global, Go Hybrid

The security industry is feeling the impact of two major trends: globalization and ongoing technological development. Multinational enterprise, convergence of IT and physical security systems, compliance issues and legislation – all are influencing access control systems. Nedap is responding to and incorporating these trends into its products. Time for a look at today's challenges and how AEOS is being adapted to them.

Much has been written in the past ten years about convergence or unification: the merging of information (IT) security and physical security systems. Just one of the many benefits of convergence would be an improved capacity for dealing with disparate compliance regulations and national and international legislation. Although several big players have tried to develop all-encompassing systems that integrate, or bridge the gap between, IT security and physical access control systems (PACS), most large corporations still deploy the two separately. This is partly the legacy of the past. Physical security was traditionally a local, site responsibility. This left today's large multinationals with a wide variety of PACS in different countries. Decentralized decision-making on physical security has in fact hampered attempts at unification.

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Call for Ready-made Solutions

In today's uncertain economy, most major enterprises are cutting costs and reorganizing to boost operational efficiency. Facility management divisions are being asked to support processes such as asset management, IT infrastructure and security. This shift is generating a strong demand for unification and policy-based systems: essential tools for gaining global control and servicing primary business processes at a fair cost. There is a great demand for Commercial Off-The-Shelf (COTS) products which can encapsulate legacy systems. A degree of customization is accepted, but developing new tailor- made systems to support secondary business processes is seen as a bad business decision.

Calls for unification and policy-based security governance have grown steadily louder. These appeals are now being heard from global business domains outside IT security and physical access control. Stricter compliance regulations and industry-specific laws in finance, healthcare, manufacturing, pharmaceuticals, travel, transport and energy have spread the need for the integration of multiple systems.

Service Oriented Architecture

In our industry, this shift is clearly observable in today's RFI/RFP documents, all of which call for integration of security systems in a Service Oriented Architecture (SOA) of some kind. Some global enterprises have already introduced an Enterprise Service Bus (ESB), implemented in combination with rule engines, business process modelling engines (BPM), and extensive workflow modelling. More recently, work has been done on the use of business operation platforms that incorporate a service bus but also take things further, towards ideas like the Internet of Things (IoT), the Semantic Web or Web 3.0. The common denominators in these last three movements are: enabling cross-domain service integration, improving usability, delivering true online business operations and decreasing human interventions by adding intelligence.

The information industry has been dealing with calls for integration for much longer and has learned to use open standards, to hide legacy systems behind service interfaces, and to minimize service dependencies by using Loose Coupling and the principle of Separation of Concerns. The security industry could learn a great deal from this.

Impact on Access Control

Now let us turn our attention to a core aspect of physical security, Access Control, and analyze

how these trends – globalization, unification and the use of open standards – impact the architecture of access control systems.

A common domain model in access control systems is that of an abstract subject that wants to gain access to an object. The subject first needs to authenticate itself (based on what it has, what it knows or what it is), after which the access control decision is evaluated based on the identity of the subject and the active policy governing access to the object. The policy typically includes business (security) rules and date/time aspects, and often uses some distinguishing characteristics of the subject, e.g. employee vs. visitor.

Access Control Models

The access control model identifies whether a subject is authorized to access or perform a certain action on an object. In physical access control, the object is usually a physical space, e.g. a room, a parking lot or a locker. (In the system architecture, these objects are referred to as resources.) Here, authentication of the subject (e.g. a person) is usually carried out using an electronic RFID card. In high-security environments, this authentication is supplemented by a PIN or biometric characteristic.

Mainstream PACS usually make use of an Access Control List (ACL) model. This means the access control model is based upon a simple list of authorized subjects for different access points at specified dates/times. The ACL model is well-suited to create fine-grained permission structures, but the downside is its mushrooming complexity as the number of subjects and objects grows.

Reducing Complexity

A slightly more sophisticated approach, aimed at reducing complexity, is the Role Based Access Control (RBAC) model. In this structure, the complexity of assigning permissions to users is overcome by introducing a level of indirection, i.e. a role, which clusters access rights to certain objects. The subject's role in the organization is used to evaluate its access to an object. Although the RBAC approach seems more usable, it is less suitable for fine-grained permission modelling. In many organizations, role engineering appears to be extremely difficult. Attempts to circumvent the built-in coarseness of the permission model tend to result in so-called role explosions. These make the system virtually unusable. It is worth noting, however, that ACL-based access control systems become unwieldy much sooner than RBAC-based systems when the organization grows or the number of factors affecting access rules increases.

ABAC Model

In information security, the drawbacks of ACL and RBAC have not gone unnoticed. This has led to the introduction of an Attribute Based Access Control (ABAC) model. In this model, a subject's access rights depend on the attributes describing this subject, e.g. age, possession of a valid driver's license, security clearance, etc. Such dependency is expressed in rules, which may be combined into policies, which, in turn, may be clustered in policy sets.

A simple example of a rule would be "to enter this amusement park the subject has to be at least x cm. tall". To express such rules, an XML-based language was developed. OASIS recently published the XACML 3.0 language standard, aimed at standardizing access control models using ABAC. ABAC offers great flexibility and fine-grainedness, but these benefits come at a price: in ABAC it is easy to lose sight of the maximum permission set for a given subject. That is, it is impossible to answer a question like "Is subject A allowed to enter a chemical lab?" until subject A actually tries to enter such an object.

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Dilemma

ABAC is well-suited for open systems, such as libraries, car-rental offices, video stores and open Wi-Fi networks, where neither the identity of a subject, nor the state of an object or the environmental circumstances are known beforehand. However, openness is not the norm in the physical security industry. And yet some pioneers, like the Open Group, have broken with tradition. By publishing its Open Enterprise Service Architecture (O-ESA), the Open Group is trying to encourage the use of industry best practices in defining organizations' global security models. The physical security industry clearly faces a dilemma.

Should we follow in the footsteps of IT security, open up the controllers, implement open standards like XACML and become (web)service providers in the Identity and Access Governance (IAG) domain? Or should we stubbornly resist the unification of information security and physical security?

Best of Both Worlds

At Nedap, we have decided to do both, and more. AEOS's technology roadmap is aimed at improving usability and scalability in combination with policy-based security governance. The AEOS platform will be adapted to enable cross-domain integration in global enterprise (SOA) environments. At the same time, it will provide the best policy-based access control models, a modern service lifecycle model and state-of-the-art IPv6-based security devices. The security architecture will be based on the latest encryption technology using Secure Application Model (SAM) devices and network-based key revocation methods. The access control model proposed by Nedap is a hybrid model combining the strengths of RBAC with the flexibility of ABAC. One simple example can illustrate the power of this approach compared to a purely ACL, RBAC or ABAC-based model.

Consider a multisite company with employees who regularly travel between company sites. Every site has its own PACS, but both identity and access rights are enforced automatically by global regulations. In an

ACL-based system, each individual object would have to be assigned a list of authorized employees. Besides the obvious fact that this approach will fail in any large-scale company, there are other problems, such as a high risk of malicious assignments, made possible by the Segregation of Duties. For example, a dishonest security officer could add himself to the list at any resource.

So it might seem better to use the RBAC model, based on the employee's work role in the organization. RBAC addresses the Segregation of Duties problem by only allowing assignation of either subjects to roles or permissions to roles. However the risk of role explosion becomes apparent as soon as highly fluid factors are included in the role definitions. Using the ABAC model would prevent role explosion, as ABAC makes it possible to combine any number of fluid factors by introducing appropriate policies at resources. However, the ABAC drawback mentioned earlier still stands: the model effectively hides a subject's actual permissions.

Hybrid

AEOS uses both RBAC and ABAC, benefiting from the advantages of both models. RBAC provides the necessary level of coherence and transparency for overall security policies, while ABAC adds flexibility and minimizes the risk of role explosion. In this hybrid model, an employee's role describes optional permissions necessary for them to fulfil their duties, while rules and attributes identify for each individual whether a permission becomes unconditional or must be withdrawn. A simple example would be the pair: Role-Manager and Attribute-Location.

The intelligence in this approach lies in the fact that the location list can be used to evaluate the PACS to which identity information needs to be distributed. This improves performance and scalability. At the same time, knowledge about the PACS configuration is hidden from the users, so data entry interfaces can be based on business process language (role, location). This improves usability. And finally, these meta-access rights can be mapped automatically to any PACS that has some form of import module. This supports the encapsulation of legacy PACS into the policy- driven security architecture. In short, Nedap is ready to deal with the challenges posed by globalization, unification and the trend towards open systems. With our hybrid model and the technological developments planned for AEOS, we can ensure that we will continue to deliver a future-proof product to our customers.

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Integrated Sound Recognition

Audio Analytic's sound recognition technology is now integrated into the Intellect Enterprise physical security management platform from Axxonsoft. This integration of audio detection and classification technology will allow Intellect Enterprise to automatically alert security operators to a range of security related events, including: car thefts or break-ins (car alarm detection), and office or building break-ins (glass break detection). This allows the system to detect crimes and events by analyzing audio; detect events off-camera or in areas where cameras are not located; and detect events regardless of lighting conditions. The individual analytics will be available as optional features when purchasing Intellect or as future upgrades. In the next version of Intellect Enterprise detection of verbal and physical violence in hospitals, prisons, reception areas, etc. (aggression detection) will be integrated. The technology can recognize complex sounds by using advanced psychoacoustic modeling - the science behind how humans distinguish and understand the meaning of sound. The Corelogger sound recognition software is designed to be easily integrated into third party products and systems, and can detect a variety of sounds depending on the type of Sound Packs installed with high levels of ambient noise.

www.axxonsoft.com

Monitor Suite

American Dynamics introduced a variety of LED monitors. From cost-effective Performance and General Purpose Series featuring 8-inch models, to a Professional Series offering up to 55-inch panel displays, these monitors deliver very sharp and crisp pictures for every type of business. The monitors offer VGA and DVI input especially for DVRs or PC applications. Slim, lightweight, energy and space efficient, these monitors are user-friendly, and include on-screen menus and front panel controls for easy, display parameter adjustments. The monitors are available in a wide variety of resolutions, depending upon the model: from 800 x 600 SVGA, 1355 x 768 (HD), all the way up to 1920 x 1080 FHD

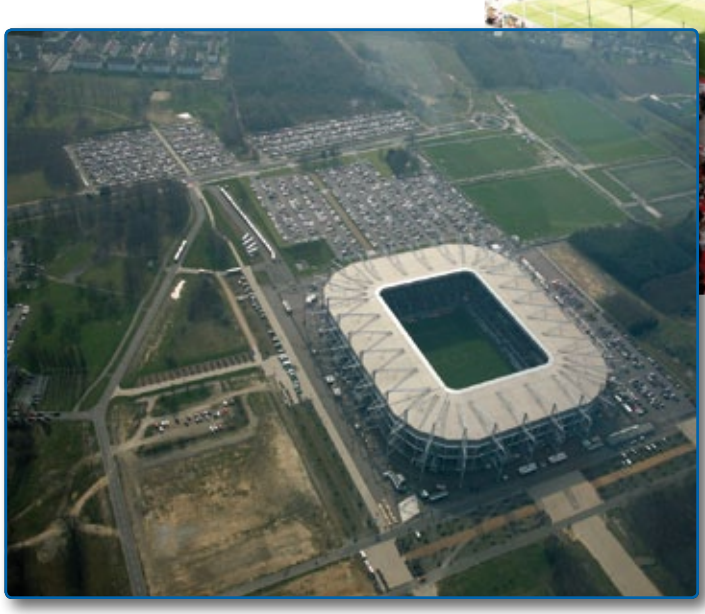
(1.3 megapixels). Long-life fluorescent backlights help maintain consistent brightness levels, a key advantage over CRT monitors that become dim over time. The higher resolution monitors are specifically engineered for surveillance operators, while the new public view monitors contain built-in cameras, allowing customers to see themselves on the monitor – an excellent crime deterrent.

www.americandynamics.net

Football Stadium Security

German football clubs Borussia Mönchengladbach and Bayer 04 Leverkusen start the jubilee season (50 years of German Bundesliga) with new cameras. These are intended to ensure increased security in the stadiums. Equipment, installation and service are supplied by video surveillance technology specialist Dallmeier and IT service provider Stemmer.

When they defeated Hoffenheim at the Borussia Park stadium in their first match of the new Bundesliga season, the Gladbacher Foals were enjoying more than just success on the field. They also had plenty to celebrate in terms of security: The new video surveillance system delivered pinpoint sharp images of the stands from the first to the ninetieth minute. The same scenario played out in Leverkusen. Working with the football club's IT department, Stemmer, a wholly owned subsidiary of network and IT service provider BT Germany, and video security specialist Dallmeier recently commissioned the cameras in the Bayarena. With the digital cameras, and in close cooperation with their security experts and the police, the two Bundesliga football clubs expect to be able to respond to incidents more rapidly and more precisely, and thus improve security inside the stadium. The special, patented cameras are directed mainly at the areas of the stadium where criminal or violent acts are most likely to occur.



In the past, prosecutors in Germany were handicapped because only magnetic tapes were admissible as evidence in the event of offences. But now courts are also accepting tamper-proof digital storage methods. "With the new cameras, we are providing even more comprehensive security coverage, and we can track down offenders more effectively", says Bernhard Nießen, Head of Stadium Operations and Security Officer for Borussia Mönchengladbach. As soon as an incident occurs, the police can focus on individuals using the zoom function. So suspected offenders can be brought to justice on the day of the match. The recordings are also stored digitally. "This enables us to carry out a thorough investigation that will stand up in a court of law", continues Nießen. This capability is also deterrent in nature, and is intended to make individuals think twice before they commit an offence.

The solution is based on the "Panomera" camera technology from Dallmeier. The multifocal sensor system was developed specially to provide video surveillance for large expanses such as stadiums, large car parks or airports. By applying geometric construction principles, the pixels are used in such a way that even more distant objects can be represented with the same resolution as objects in the foreground. "With resolution of this order, we can create a passport photograph of the culprit from over a hundred meters away", explains Nießen.

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Profinet/Profibus Market Entry

At SPS/IPC/Drives 2012, Moxa will enter the Profinet and Profibus market with the presentation of the Mgate Profibus/Profinet Gateways and the ICF Profibus Converters. The ICF-1180I series of industrial Profibus-to-fiber converters was designed with innovative functionalities designed to provide effortless Profibus-to-fiber transmission of industrial networks. The auto baudrate detection prevents manual configuration errors, and the bus fail safe feature minimizes maintenance efforts. "Our aim is to provide remote Profibus networks a simple method for long-distance data transmission via fiber connectivity that provides longer segment distances and electromagnetic noise immunity features," said Sean Chen, product manager of the series. In addition, the ICF-1180I provides 2 KV isolation protection and dual power inputs to ensure uninterrupted performance, and can also operate in environments ranging from -40 to 75°C, making it ideal for factory automation, power, and oil & gas applications.

www.moxa.com

ACCESS CONTROL

Aycliffe **Secure Care** Facility

CEM AC2000 SE Access Control for High-level Security Site

The core of Aycliffes Secure Center's business is based on its ability to provide a safe and secure environment for its young residents who are between the ages of 11 and 17. It offers high quality, secure accommodation, as well as education and assessment prior to the reintegration of adolescent individuals back into the community.

S610F fingerprint reader

CEM Systems, part of Tyco Security Products, today announced that Aycliffe, a provider of comprehensive secure care facilities for young people, has chosen CEMs AC2000 Standard Edition Security Management System (SMS) and biometric technologies to help protect and secure its premises. AC2000 SE was chosen because it is a powerful and fully integrated security management system, ideal for securing large facilities such as Aycliffe, providing access control, alarm processing, photo badging and integration to third party systems.

In addition to the core system, AC2000 Alarm Event Display (AED) application was added to run on the management platform. This provides a graphical and textual representation of the status of all alarms and events across the entire system. The AED responds to all alarm situations in real time, providing a dynamic on-screen interface to external CCTV systems. At Aycliffe, AC2000 AED is used in conjunction with a video interface to provide the ability to associate access control alarms with Synectics digital video footage.

Fingerprints

Given Aycliffe's focus on providing the utmost security for its residents, some CEM S610f fingerprint readers were deployed in heavily restricted areas. This unit is a fully integrated biometric and access control reader that is used to control access to restricted areas and is managed and monitored by security staff using the main AC2000 system. This streamlines operations in the event of suspicious activity to mitigate risk to residents.

Other hardware which was deployed and integrated within the central SMS includes CEM's Door Control Modules to help ensure both the privacy and safety of those in the secure care facility. These control and allow for frosted glass to become clear once authorized personnel enter certain areas. This gives young people privacy when in their rooms, but also provides the necessary visibility to staff at the swipe of a card, ensuring security is a priority at all times.

Programmed Logic

„Utilizing a sophisticated multi door interlocking system that we created, Aycliffe has increased security by pre-programming, managing and authenticating access to specific areas, ensuring certain doors are locked before others can be opened" said Philip Verner, Regional Director of Sales, CEM Systems. He continued „This ensures only those with the specific card privileges can move unhindered throughout the building, ensuring all infringements are flagged to the operations team and any issues are handled effectively."

„We fully managed the end-to-end installation of this project, and installed the CEM AC2000 SE to reduce costs, as well as to meet the demanding needs of the facility" said Tracy Burtwell , National Accounts Director, ADT. „By working with the customer closely and installing a reliable solution, the facility can look after individuals in a secure environment to help protect their welfare and avoid potentially volatile situations."

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Aycliffe Building

CCTV

Next Please

Axxon Soft Releases a New Open Platform Video Management System

Axxon Next is a new-generation video management software that is based on open standards to offer an open platform. It is a user-friendly, intuitive system that lets security personnel get started quickly and easily without needing to learn complicated workflows and procedures. The ergonomic interface simplifies usability and makes it easy to access the system's full functionality right away.

The system can manage a potentially unlimited number of video servers, cameras, workstations and mobile client devices, and approximately 1,000 models of IP cameras are all supported. The software´s application programming interface (API) allows easy integration of third-party hardware to extend an existing video system's functionality.

Axxon Next includes an interactive 3D map which superimposes camera locations onto a site map and displays camera views in the same window. This handy viewing mode allows operators to monitor situations without spending time switching between windows. Operators can instantly pinpoint where a selected camera is located on the map and identify the corresponding location of interest. A range of powerful video detection tools is included in the package without further cost: motion detection, abandoned object detection, camera tampering and failure detection tools as well as six scene analysis tools. Axxon Next also supports the video analysis capabilities embedded into IP cameras.

Bits and Pieces

The file storage system is a common bottleneck in VM systems. Fragmentation of video footage files increases over time, causing slow hard drive access that brings even the most advanced processors to a halt. This is why a specialized file system, called Solidstore, has been devised for this program to tackle fragmentation and to boost read/write speeds to near the physical limits of the hard disk mechanism. Another benefit is that this file system reduces HDD wear, thereby extending hardware lifespan.

Security software just has to work, day in and day out. The robust micro module architecture allows running video surveillance functions as independent processes that are managed by a dispatcher module. If a process fails, the dispatcher simply restarts it – other processes keep running and the video surveillance system operates as normal. Each process is controlled by a separate micro module that undergoes automated code testing during development, which significantly reduces the likelihood of errors in program code.

User-defined Search

Poring over video archives can take up most of your time as a VMS user. In addition to a convenient archive viewer, Axxon Next offers two features that make data search far easier. The so-called Momentquest 2 forensic search helps to quickly spot video segments by employing various search criteria such as crossing a virtual line in a user-defined direction or detecting motion in the selected zone of a frame. The time compressor feature displays all objects that had been moving in the frame within a set time period. Just clicking on an object of interest leads instantly to view the corresponding video.

Axxon Next is available in a free version with support for 16 connected cameras and includes a license for video and audio detection tools. A transparent customer-oriented pricing policy means that full advantage can be taken of the program's full functionality, no matter what the size of the system. State-of-the-art video management systems are critical for guaranteeing the security of sites big or small. Axxon does not issue ‚crippled' versions of its software with limited features but instead operates a flat-rate pricing policy that quotes the same price for a video channel, no matter how many there are. All functions are just as accessible and just as effective whether installed on a system of one or many cameras. This means that there are no hidden expenses and no maintenance fees. Free software updates and free technical support for all users and partners is available, permitting modern, effective video surveillance systems to be created that are easy to budget.

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CCTV

More than a Match

Samsung DVRs for the Kia Oval in London

One of the UK's most famous international sporting venues – the Kia Oval in South London – has put its trust in Samsung DVRs to record video of crowd activity during match days.

Samsung's SRD-1670DC DVR's record the video captured by 54 cameras.

The Kia Oval in South London regularly hosts international cricket matches, as well as being the home of Surrey County Cricket Club. It is understandably determined to maintain its reputation for being a safe and secure environment for its visitors and staff.

"It is essential we have a reliable and robust CCTV system operating at the Kia Oval in order to ensure that we comply with the rules and regulations specified by the Local Authority and that a match day licence can be issued," said James Wagg of OCS Group UK, who are contracted to provide 24/7 security at the cricket ground. "The video surveillance system is at the heart of our security operation. It is an invaluable tool which allows our control room operators and the police, who are present on match days, to proactively use live or recorded images to identify potential problems and deal with them quickly and efficiently."

Recordings from 54 Cameras

Four Samsung SRD-1670DC DVR's have been installed to collectively record the video captured by 54 cameras, a mixture of PTZ and fixed dome cameras which are located in and around the cricket ground. "The Kia Oval has never hesitated to invest in the latest technology when necessary and in this respect, the recently installed Samsung DVRs replaced recorders which had become outdated," said James Wagg who as Facilities Manager oversees the in-house maintenance and outsourced cleaning services which are also provided by OCS Group UK.

Two of the SRD-1670DCs are installed in the cricket ground's control room and the other two in the Hobbs Gate security office. Each can simultaneously record real time 4CIF images across from up to 16 of the cameras. They utilise Virtual Progressive Scan (VPS) technology which eliminates blurred edges on moving objects, and with an HDMI output, offer the option to upscale images to 1080P. An intuitive graphical on-screen display makes it easy for operators to set up each channel to record at different frames rates or resolutions.

"Following the introduction of the Samsung DVRs, our control room operators are confident that we now have a highly effective video surveillance system which we and the police can use to its full potential," said James Wagg. "Outside of match days it continues to play a major role in helping security personnel deter and detect anyone tempted to carry out any criminal activity at the cricket ground."

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CCTV

Surveillance in Good Health

Elkerliek Hospital Selects IQinVision Megapixel Technology

IQinVision has been designing, manufacturing and marketing the IQeye line of HD megapixel IP cameras since 1998. The company with its headquarters in San Juan Capistrano, California has announced through its regional office in Amsterdam that the Elkerliek Hospital in the Netherlands has chosen their HD megapixel cameras for its recent upgrade to IP video surveillance.

Elkerliek Hospital supplies modern healthcare to its patients. The hospital is run under the motto, "Providing quality care begins with the design of good, modern services for parking, reception, and security." Thanks to this philosophy and commitment, the hospital was recently recognized as the "Most Hospitable" in the Netherlands. When hospital administrators decided to upgrade to IP video surveillance, they wanted to accomplish traditional security goals and to optimize extra services and health care.

Project managers decided that a deep integration between parking, access, and other security systems would be required. In order to integrate IP cameras into the overall system, it was crucial that the chosen cameras demonstrate excellent performance in low light situations. The hospital also wanted megapixel quality cameras to ensure detailed camera images at all times.

Open to the Future

The decisive factor in choosing IQinVision products was the proven ability of the megapixel cameras to meet Elkerliek's expectations. As a result, and thanks to the company's open standards approach, the project integrator Flexposure was able to successfully integrate 150 IQeye cameras into the centralized security system. As a bonus, the project solution is future-proof: camera numbers can easily be expanded and cameras can be moved anywhere there is a network connection, should the need arise.

ONVIF and PSIA compliant, these cameras are integrated with the NVRs of many manufacturers and are backed by a comprehensive warranty program. The company's products are widely deployed in banking and finance situations, city surveillance, commercial and industrial installations, critical infrastructure, education, gaming, government and law enforcement, healthcare as well as retail and transportation applications.

Integration and centralization of different systems within the hospital helps to ensure the safety of all patients and staff, and such integration also provides important resources and information to assist in the primary task of medical care. Detailed camera images, managed by a Mirasys VMS, are now used to facilitate parking, confirm access control information and are available for other uses in the central control room. "The Elkerliek Hospital project is an excellent example of the expanded role that integrated security systems can play," commented Henri Nieuwstraten, General Manager, Xserius, the distributor for the project.

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PERFECT VISUAL SOLUTIONS

CCTV

Simplifying Interoperability

Technology Partner Program from Bosch Introduced at Security Essen

With the presentation of its Technology Partner Program (TPP) at the Security Essen trade fair, Bosch Security Systems has enabled interoperable solutions that fit any application's specific needs. The web-based platform assists customers in identifying compatible video surveillance hardware or software solutions that will seamlessly inter-operate with an existing Bosch installation.

The program helps developers and other experts to design compatible solutions by ease of use integration tools and samples. All third party solutions that are listed in the portal have already successfully undergone stringent quality checks by Bosch.

The Need for Compatible Partner Products and Systems

"The security market has become extremely diverse and complex, especially since the switch to IP solutions," says David Lenot, Business Development Manager EMEA at Bosch Security Systems. "Different applications can have very heterogeneous surveillance requirements and customers are increasingly asking for unique solutions. In addition to this, comprehensive systems also have to be expandable at any point in time, which is why their composition needs to be a flexible one. With the help of TPP, owners can quickly identify compatible partner products and systems that are a perfect match for installed Bosch equipment while adding features and services without restriction."

TPP benefits partners and customers alike by providing just the right information in one place. It gives all development partners wishing to build integration tools, samples and solutions transparent and easy access to the relevant resources, from documents to training. The program provides assistance across the portfolio, covering all features for integration purposes.

Easy Access to Technical Resources

Customers can use the web-based Solution Advisor search engine to scan through existing applications or specific features to identify the right solution for the respective system. TPP helps multiply the solutions and guides the client to the matching result. Users can combine products from Bosch with leading video management devices from Genetec, Milestone, Nice and many other companies.

Similarly, data storage solutions are available from a range of providers, such as Netapp, EMC and Iomega. Integration of components is made easier by application and task-related code samples, as well as preconfigured integration packages. Additionally, the program provides a variety of technical support contacts for members and premium partners to optimize the combination of Bosch features or products with third-party devices and vice versa.

Beneficial Partnerships

Allowing the simple integration of third-party solutions has always been part of Bosch's principles. Solutions by the company are designed to be integration friendly. For example, all IP cameras and encoders run one firmware. Partners therefore can support dozens of products at the same time. With TTP, the company continues to open up its business and presents its video products in the most transparent way possible.

"Solution Advisor" search engine identifies best-fit 3rd-party products

David Lenot (left), Business Development Manager EMEA and Rudolf Spielberger (right), Head of Technology Partner Programs at Bosch Security Systems

"It is essential that innovative and technically competent suppliers of development services and series products are involved early and systematically in devising new solutions," says Rudolf Spielberger, Head of Technology Partner Programs. In line with this philosophy, Bosch Security Systems, together with Axis Communications and Sony Corporation, founded the ONVIF international product standard in 2008. The aim of ONVIF is to enable the integration of network video devices from different manufacturers. "TPP is thus a continuation of this way of thinking into the second decade of the 21st century."

▶ CONTACT

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INTERVIEW

Life Is Good for Security Partners

This year's Security Essen show really was an international meeting place with over 39,000 trade visitors from 115 countries and 35 percent of the trade visitors coming from abroad. On the vendor side one could see a lot of the big players in Essen but also some newcomers. Amongst the newcomers European Security Partners had its first appearance and it was a very impressive one. For the first time the company presented their portfolio to the European audience. European Security Partners has been created from a core number of ex Sanyo CCTV employees with David Hammond and Stefan Teuber heading up this new and exciting new venture. In Essen GIT SECURITY had the opportunity to talk to David Hammond and Stefan Teuber, the Managing Directors of European Security Partners and Minho Chae, LG's Manager Security Overseas Marketing, about their plans.

From left to right: Stefan Teuber, Minho Chae and David Hammond.

GIT SECURITY: David and Stefan, both of you are not exactly "new kids on the block" in the security market and many visitors here were surprised not to see you on a Sanyo booth but on the European Security Partners stand. What happened in the last months?

David Hammond: At the time when Sanyo informed the customers that the company is about to make a complete withdrawal from the market including the video surveillance products, we both made the choice to start a new business. The Sanyo product line has always been of good quality and was moderately priced and we do see good chances in the market for security products in this market range.

Stefan Teuber: With that in mind and having very good contacts into the market we approached LG and other potential partners with the objective to provide best quality of service to our customers and partner suppliers. We want to create and maintain a philosophy of true partnership.

With true partnership you mean more than to deliver products and organize a distribution of security products?

David Hammond: Absolutely, we offer our customers pre-sales and system design support and we are ready to go the extra mile for them after the sale. For manufacturers we provide specialist sales, product management, marketing and technical support services in conjunction with our distribution partners to target professional installers and system integrators throughout Europe.

Can you tell us something about your product range?

Stefan Teuber: We work with some of the most innovative and enterprising companies operating in the electronic security industry arena. Each of our partners is committed to growing their market share but providing competitively priced, reliable and robust security solutions which capitalize on the latest advances in technology. We work with LG Electronics as their master distributor responsible for all European Market, Silvernet Wireless Solutions in the EMEA region (except UK) and Russia, Nextmate Security and Nextmate Fibre in Europe plus the Sicurit perimeter protection products in Europe.

Your focus will be the EMEA market?

David Hammond: Yes, with our offices in Germany, Italy and the UK, we are able to combine the knowledge of a team of seasoned security professionals. Over many years our team has acquired the expertise to advise on any size project from simple small stand-alone analogue based installations to highly complex multi-sited or multi-national IP network based projects.

Mr. Chae, what has led LG to partner with European Security Partners for the European market?

Minho Chae: In Asia LG Electronics is already recognized as a leading provider of business solutions with a wide range of advanced security products and solutions. LG's offering includes advanced IP surveillance cameras, analogue cameras and enhanced hybrid DVRs to enable reliable and efficient security management. LG are making a strong commitment and investing more in security and next generation IP products. We firmly believe that European security Partners Ltd, has the experience, right concept and attitude in developing strong partnerships in the European Region to expand and build the LG brand within the security sector. There is a great synergy and mutual objective within this partnership that we are sure will bring great benefits to our partners and customers within Europe for a long term future.

What concept do LG offer security Professionals?

Minho Chae: LG's solution intelligence successfully demonstrates our technology leadership combined with the understanding that the security industry is moving away from passive monitoring towards preemptive management to help customer's business success. We are confident this solution intelligence will help our customers achieve their business goals by providing proactive measures and convenient remote management.

▶ CONTACT

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Higher Port-Count Hardened Managed Switch

Comnet Europe has introduced a high port capacity managed Ethernet switch. The CNGE28FX-4TX24MSPOE is an environmentally hardened Managed Ethernet Switch that provides a high port density in a compact size. It makes available twenty-four Gigabit copper TX ports and 4 Gigabit optical FX ports that utilize easily interchangeable small form factor pluggable optic (SFP) devices as optical interfaces. The twenty-four Gigabit TX ports are POE enabled and can provide up to 30 watts per POE port for a total of 400 watts. Exclusive to these switches is Comring, a recovery technology that allows the network to re-route transmission in the event of a network interruption can restore the network in under 30 milliseconds. The environmentally hardened Ethernet switch is designed to operate in environments where extremes of temperature and vibration are a consideration.

www.comnet.net

Reader Modules and Transponder Chips

At the Security trade fair in Essen Legic Identsystems presented their SM-4500 reader module with Mifare interoperability, the CTC4096-MP410 multi-RF transponder chip, and a demo of loading access rights from an internet portal onto NFC smartphones as part of a Trusted Service Management (TSM) . Visitors reacted very positively, the Company reports. The demo on granting access rights via an internet portal on NFC smartphones was very popular, as Reinhard Kalla, Vice President Product Marketing & New Business, explains: "Interest in the NFC demo was huge. Many visitors came to the Legic stand for this alone". With the SM-4500 reader module with Mifare interoperability and also with the new CTC4096-MP410 transponder chip which controls several RF standards, the Company has made headway in the direction of compatible platforms. "In the field of people identification, the time of isolated platforms is over and we are trying to further this development, because what end users want is compatibility", Kalla explained.

www.legic.com

SECURITY FOR LOGISTICS

On the Box

A New Axis Surveillance System at Freightliner's Manchester Terminal

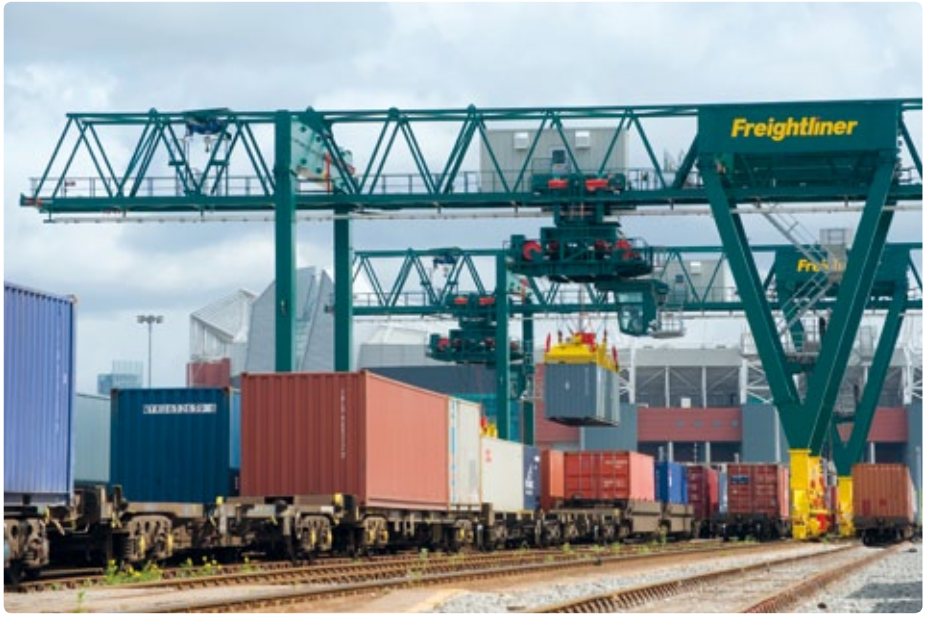
A large intermodal rail freight operator in the UK, Freightliner, wanted to enable staff to quickly search vital footage to enhance security surveillance at its Manchester terminal. This should take advantage of an IP-Surveillance system to assist with operations around the site and to monitor the arrival of containers at the terminal by road and rail.

Following successful deployment of IP-Surveillance systems at many of its other sites in the UK, the organization turned to IP solutions specialists NW Systems Group to provide the cameras for this terminal. They had already successfully upgraded the surveillance systems across many of Freightliner other sites at a rate of two terminals per year. Here too they deployed a range of Axis network video cameras, all specifically chosen to deliver the required image quality, even for night time surveillance.

The company, part of the Freightliner Group which employs 1,800 staff, has 170 locomotives and more than 3,000 wagons, moves up to 3,000 containers per day. There are 13 terminals throughout the UK and surveillance is extremely important for operational monitoring purposes. Previously, each terminal relied upon standalone analog CCTV, but following the successful upgrade to network video at some of its other sites, the Manchester terminal also wanted to upgrade to network video because locating footage on VHS tapes was a laborious process and the image quality provided by the analog CCTV system was frequently poor and unusable. Andy Murphy, Deputy General Manager, Terminals said: "In the past, searching for a specific piece of footage was extremely time-consuming. We needed a solution that would allow us to speed up this process and share footage electronically with others quickly and easily."

Who Dunnit

Thirteen Axis 211 and P1343 network cameras have been installed in strategic locations to record registration plates and container IDs as vehicles arrive and leave the terminal. They are also used for security purposes at the terminal



gates. Some 233D and 232D+ network dome cameras provide the terminal's managers with an overview of operations across the site and the P3343-VE network camera records images of the drivers. The signal from these cameras is processed using Axis Camera Station, an IP surveillance software that provides video monitoring and recording for up to 50 cameras, with the facility to search and view essential footage.

The terminal's managers now have a prime view of the terminal and can quickly respond to emergencies and distribute resources around the terminal as required. They have also found that the number of claims for damaged containers has gone down. The site's managers can now quickly access the high-quality images delivered by the Axis cameras over the network and check the footage much more quickly than on the older system to establish if a claim is genuine or if the container was already damaged on arrival, which either proves or disproves liability. The images can now be monitored remotely and shared across the Internet with other sites.

Resourceful

From an operational perspective, the improvement in surveillance also significantly helps to improve health and safety around the site by allowing the terminal staff to react to any emergencies. Andy Murphy explains: "All of our cameras have motion detection which allows our operators to monitor in real time when a situation arises. We can then take the appropriate action to deal with the issue. The cameras have helped us to streamline our operations. For example, we can now monitor traffic queues at the gates and it also helps us plan the allocation of equipment around the site, as the cameras can monitor what is needed at a specific location.

The quality of the footage has also greatly improved: "The image quality is excellent and the night time images have also surprised us. Running the system in-house coupled with the quality and durability of the cameras and software, means that our maintenance costs have been significantly reduced. All in all, we are very impressed with the quality of the Axis surveillance system and the installation carried out by NW Systems Group," concludes Andy Murphy.

▶ CONTACT

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www.axis.com

Emergency Phone Tower

Talk-A-Phone has designed a wireless version of its Eco Tower emergency phone tower. The product also supports solar and day-night switching power configurations. Featuring the same lightweight aluminum construction for reduced ecological footprint and one-person installation, the phone tower can be deployed in remote areas with a cellular or VoIP wireless interface. The wireless system fits any of the manufacturer's analog or VoIP flush-mounting emergency or assistance phone. The Company has recently partnered with Fluidmesh to provide wireless connectivity for TalkAPhone's SIP-based Voip500 series phones.

www.talkaphone.com

Building Block NVR Solution

Samsung has introduced a scaleable 'building block' network video recording system designed to simplify the process of specifying a video storage solution large enough to meet immediate requirements, but which can be easily expanded if needed in the future. Samsung's Onvif compliant SRN-1000 NVR provides up to 24TB of on-board video storage capacity and there is the potential of an additional 24TB of storage via two external e-Sata direct storage devices. An unlimited number of SRN-1000s can work in harmony to provide a seamless server style video recording solution. "We have taken the mystique and fear out of estimating how much video storage to allow for," said Tim Biddulph, IP Product Manager. "Even experienced installers have told us that this can be a very costly mistake if they get it wrong, but it is obviously of particular concern for those who have limited experience of installing Video over IP systems." By using a simple calculation chart and by taking into account the frame rate and image resolution requirements for each of the specified cameras, it is a simple matter to calculate how many SRN-1000s will be required for any video surveillance project.

www.samsungsecurity.com

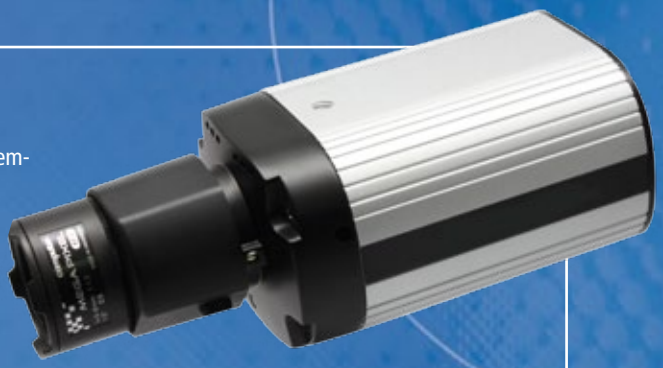
Security Management System

CEM Systems announced the release of version 6.6 of AC2000 SE (Standard Edition) and AC2000 Lite integrated access control and security management software. These latest releases offer a host of new features including video and wireless locks integrations, the introduction of Threat Levels, enhanced AC2000 WEB functionality and more. In addition to existing DVR/NVR integrations, AC2000 SE v6.6 now supports full two-way integration with Milestone Xprotect Corporate and Mobotix cameras. Both video integrations enable features such as live camera call up with virtual matrix, and playback of recorded alarm footage. Complementing the range of existing American Dynamics integrations, the latest version is also fully integrated with the American Dynamics TVT giving the ability to associate access control alarms with digital video clips and to view live camera footage. This enables the software to become a single user interface acting as a security management system.

www.tycosecurityproducts.com

In Focus: Convision CC-8171

With the CC-8171 Convision, a subsidiary of PCS Systemtechnik presents the first model of a new network camera series. With the CC-8000 series, Convision offers excellent image quality with attractive value for money. All models in the CC-8000 series are ONVIF-compatible and support IPv6. The 5 megapixel camera provides an infra-red cut-off filter, which ensures good imaging quality by day and night. The high resolution allows the user to identify the finest details of the recorded surveillance image – even with the use of the digital zoom.



CAMERA TEST

Performance

Performance assessment when used with 1,000 Lux
With optimum lighting conditions, the camera delivers a good image, which impresses with a clear, natural picture without any colour cast. The contrast range is good. The fine gradation is only slightly reduced with very bright or dark colours. All of the image elements (e.g. fine lines in the test chart) are reproduced very sharply and without interference. No significant smearing can be detected with moving objects and hardly any image noise can be observed.

Performance assessment when used with less than 1,000 Lux
The camera compensates relatively rapidly for fluctuations in lighting. Dow to 10 Lux the camera compensates the contrast ratio well. The image retains full contrast and colours are reproduced clearly and without colour cast. While in general the sharpness of the image hardly reduces, definite blurring effects are noticeable especially at 10 Lux and below. With very poor illumination of the scene (5 Lux and less) a definite increase in image noise is noticeable and the contrast also suffers somewhat. At 0.5 Lux the camera switches to b/w mode. Here too, strong image noise can be seen. It should also be noted that the otherwise stable image rate of 10 images/second is to some extent not achieved at 2.5 Lux and below. Jerking is apparent. In some cases the imaging rate reduces to 4 images/second.

Performance assessment in backlight situations
The camera compensates relatively rapidly for suddenly occurring backlight in a dark environment and provides a stable image in which background details are well recognisable after about 3 seconds. The backlight source only blooms slightly.

Performance assessment in use: Bandwidth measurement
The camera's average utilisation of bandwidth is approx. 7 MBit/second. Between 20 and approx. 2 Lux definite fluctuations both upwards and downwards are apparent, due to the compensation characteristics. A maximum of 12.9 MBit are used.

Conclusion
Especially with good illumination of the scene, the day/night fixed camera with a maximum resolution of 5 megapixels gives a sharp, high-contrast image with clear colour reproduction. Thanks to multi-streaming, the camera can provide several image steams, in various resolutions if required. In addition, up to four observation areas (ROI - Region of Interest) can be defined, which can each be communicated with independent video streams.

Technical data for the camera test

Manufacturer	Convision
Model	CC-8171
Firmware version	1.1.2
Distance to test chart	0.5 m
Lens used	Fujinon MP 2.8-8mm F1.3
*Focal length set	6 mm
*Compression method	H.264
*Max. Resolution	2592 x 1920
*Compression	50%
I-Frame-interval	1 second
Max. stream bandwidth	unlimited
Measured frame rate	10 fps
Average bandwidth	7.00 Mbit/s

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

Assessment with differing illumination conditions

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

Assessment according to the following grades: 1 (Excellent) 2 (good), 3 (average), 4 satisfactory), 5 (limited), 6 (poor). *BL= Backlight

Test the Best!

Compact Fixed Dome Cameras

In cooperation with Seetec, GIT SECURITY tests current and new video cameras under standardised conditions in the test laboratory of the SeeTec Hardware Competence Centre. The Hardware Competence Centre was set up because the data and performance specifications of network cameras as stated by manufacturers are often measured under different conditions and are not always reliable in practice. The results provided a sound basis for planning IP video projects and help to avoid unpleasant surprises. For the testing procedure, video sequences are produced under defined lighting scenarios and are then evaluated. Here, movements in the picture as well as night and backlight situations are taken into consideration.

In Focus: UTC-TrueVision TVC-M5220-1-P

The range of TruVision IP and IP megapixel cameras includes cameras with VGA resolution up to 5 megapixels. All cameras support the latest H.264 compression technology. Due to the combination with Progressive Scan the TVC-M5220-1-P 5 megapixel camera provides flexible advanced technology and signal processing in order to provide effective video images even under difficult conditions. The dual-streaming function facilitates the management of bandwidth utilisation. Video streams can be set for high and low bandwidths and images can be separately streamed, e.g. for live display or at a particular recording location. The TruVision megapixel IP camera is ONVIF and PSIA-compatible and can therefore be easily integrated into existing IP systems.

CAMERA TEST

Performance

Performance assessment when used with 1,000 Lux
Overall, with good illumination the camera delivers an good, high-contrast image. The colours are depicted clearly and naturally with slightly reduced saturation. Details in the image are very sharp and there are hardly any smearing effects with moving objects. Image noise is also hardly perceivable.

Performance assessment when used with less than 1,000 Lux
With changing lighting conditions, the camera requires some time in order to compensate the contrast ratio. While the colour reproduction remains good, even with poor ambient illumination, the contrast range reduces and the image becomes somewhat darker. Although the overall sharpness of the sharpness of the image hardly changes, sharpness with movement reduces as the level of illumination falls and smearing effects are perceivable. It should also be noted that there is also a definite increase in image noise, which remains even after switch-over to b/w when the IR cut-off filter is swivelled away.

Performance assessment in backlight situations
With the sudden occurrence of backlight, the camera delivers a completely white image for several seconds before the image is compensated in several stages. After approx. 7 seconds it provides a stable b/w image in which background details are clearly visible. Image details are depicted comparatively sharply. Smearing effects are hardly perceivable with moving objects. The backlight source only blooms slightly.

Performance assessment in use: Bandwidth measurement
The camera's utilisation of bandwidth is quite linear with approx. 8 MBit/second. A definite deviation in the low-level lighting range below approx 2 Lux is perceivable, even in b/w mode. Here the network load briefly increases to up to 46.7 MBit/second.

Conclusion
The PSIA and OnVIF-compatible fixed camera with day/night switch-over delivers up to 7 images/second with a resolution of 5 megapixels. Especially with good ambient illumination, it impresses with a clear, sharp and high-contrast image. The camera supports dual-streaming and the definition of private areas in the camera image and is equipped with motion detection.

Technical data for the camera test

Manufacturer	UTC-TrueVision
Model	TVC-M5220-1-P
Firmware version	V3.0e 1.1.2
Distance to test chart	0.5 m
Lens used	Fujinon MP 2.8-8mm F1.3
* Focal length set	6 mm
*Compression method	H.264
*Resolution	2560x1920
*Compression	50%
I-Frame-interval	1 second
Max. stream bandwidth	unlimited
Measured frame rate	7 fps
Average bandwidth	11.6 Mbit/s

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

Assesment with differing illumination conditions

Criteria | Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	2	2	2	b/w	b/w
Contrast	2	2.5	2.5	3	2.5
Focus	1.5	1.5	2	2	2.5
Motion sharpness	2	2.5	2.5	3	2
Image noise	2	2	2.5	3.5	2
Recovery from backlight	–	–	–	–	4.5
Performance against backlight	–	–	–	–	2.5

Assessment was performed according to the rating system of 1 (very good) to 6 (unsatisfactory). By setting various parameters on the camera interface itself, it is possible to obtain an improved image quality. *BL= Backlight

SPECIAL FOCUS ALARM SYSTEMS

Security Self-help

"If You See Something, Say Something"

If you have used any means of public transportation recently, you have almost certainly noticed that security measures have been continuously stepped up in recent years. Since al-Qaida leader Osama bin Laden's killing by U.S. Forces in May 2011, many Americans as well as those living in other major cities worldwide are still anxious of a retaliatory terrorist attack today. Security threats can also be countered by alert members of the public who report suspicious activity or items quickly by using dedicated communications systems.

Samuel Shanes, Chairman, Talk-A-Phone

Several major cities such as New York, Washington, D.C. and Los Angeles quickly deployed larger than usual numbers of policemen and security personnel at airports, subway and rail stations after the 9/11 attacks. The Transportation Security Administration (TSA) teamed up with transit agencies in all major cities across the U.S. in the light of Osama bin Laden's death. Just days after President Obama announced that U.S. Navy Seals killed bin Laden, TSA Administrator John Pistole, Federal Emergency Management Agency (FEMA), Director Craig Fugate of the NYC Police Department, Deputy Commissioner for Counterterrorism Richard Daddario and Chicago Transit Authority (CTA) President Richard Rodriguez testified before the House Homeland Security Committee on Capitol Hill.

A number of U.S. lawmakers had expressed concern regarding the terrorist threat posed to the mass transit system in big cities across the United States. House Homeland Security Committee Chairman Peter King clearly stated, „Especially now in the wake of bin Laden's death, we have to assume that al-Qaida or its affiliates, al-Qaida in the Arabian peninsula, any of the others, any of the radicalized terrorists here at home, self-starters if you will, loan wolves or organized terrorist operations in this country will launch a domestic attack. And to me clearly, if we are talking about potential targets, no one is more of a potential target than our mass transit systems."

Recent history shows that attacks similar to the subway bombings in London, Madrid, Moscow and even normally peaceful Minsk are quite easy to orchestrate. The damage and casualties from those attacks were devastating, delivering a major blow to the economy and disrupting the fabric of life. So far, the United States has been fortunate enough to stop these attempts, thanks not only to the outstanding collaboration and efforts by the intelligence and task forces. The public are themselves also involved in security of transport systems by keeping watch for suspicious behavior, parcels or luggage left unattended or anything that strikes them as being out of the ordinary.

As soon as someone believes that they have seen something suspicious, there is no time to be lost in looking for a member of the transport staff to report it to. Highly visible communications points that set up a voice call to the control center belong on every platform, in every concourse and terminal. The long-established American designer and manufacturer Talk-A-Phone has specialized in such transport system communications devices. Their wide range includes surface-mounted and recessed one-button phones, emergency phone (refuge) stations and columns for various indoor and outdoor environments, either with or without a handset.

Money Well Spent

Most of the TSA's $8.1 billion 2011 fiscal budget, or about 71 percent, is spent on securing airlines. Only about 1 percent is currently spent on securing the surface transportation. Unlike airport security, which relies on high-tech scanning equipment and heavy video surveillance, transportation security is dependent on the eyes and ears of the general population. However, increasing security for transit systems as the nation is trying to reduce a nearly $14 trillion deficit is hardly an option. To make matters worse, the American Congress trimmed $50 million from a transportation security grant program this year. Homeland Security Chairman Rep. Peter King asked witnesses at the hearing on Capitol Hill for suggestions on how to protect the nation from a possible terrorist attack and how to cut the budget at the same time.

And while „there are no specific threats to mass or rail transit right now in the U.S.," according to John Pistole, we all must stay vigilant and recognize that prevention of an attack on American soil starts with each one of us. The idea of empowering the population of the United States with the task of securing their own homeland has both its supporters and skeptics.

Self-Initiatives

In July 2010 the Department of Homeland Security (DHS), at Secretary Janet Napolitano's direction, launched a national "If You See Something, Say Something" public awareness campaign. According to the DHS website, the initiative is designed to "raise public awareness of indicators of terrorism and violent crime, and to emphasize the importance of reporting suspicious activity to the proper state and local law enforcement authorities".

The campaign was launched in conjunction with the roll-out of the Nationwide Suspicious Activity Reporting Initiative (NSI). The NSI is an administration-wide effort to develop, evaluate, and implement common processes and policies for gathering, documenting, processing, analyzing, and sharing information about terrorism-related suspicious activities. Led by the De-

partment of Justice, the NSI is implemented in partnership with state and local officials across the nation. Both programs underscore the concept that homeland security starts with hometown security, meaning every citizen of the nation plays a critical role in keeping us safe.

The operators of mass transit systems have had to consider which are the best methods, practices, and technologies for them to employ to enable citizens to be the watchful eyes and ears for mass transit safety. "If You See Something, Say Something" only works if there is a way to quickly and reliably inform the right security authorities of an actual or potential threat or problem so that the proper action can be taken before lives are lost. Reporting is made easy for potentially stressed passengers by keeping the operation of the voice terminals extremely simple. Just one push of a button on a terminal from Talk-A-Phone's ETP range will set up a call to the control center and provide hands-free communication to a crisis coordinator.

Local Transit

It is clear that although the TSA and FEMA support more security measures in all major transit centers in the U.S., local transit agencies will have to look for creative ways to secure transportation infrastructure if federal funding falls short. Public awareness campaigns combined with effective technology could help them achieve that goal.

The Chicago Transit Authority (CTA) is the second largest transit agency in the nation, providing services to 1.7 million riders daily on bus and rail networks. In March of 2011, the CTA was recognized by the DHS for achieving high scores in all categories of the security inspection program for transit. The CTA is among many U.S. transit agencies that has adopted the "If You See Something, Say Something" campaign. "This campaign was borrowed from the MTA in 2002 and encourages riders to report any suspicious activity that they observe," explained CTA President Richard Rodriguez. "In addition, CTA has participated and continues to participate in training for a number of scenarios using a range of programs." According to their website, "if you observe an unattended package, witness anything unusual or see someone acting suspiciously, alert a CTA employee or call 911 immediately."

Cell phone calls to 911 are a first thought; however, cell phones do not always work in the subway. Many transit agencies have chosen to deploy Talk-A-Phone emergency phones, which are easily seen and only require the push of a button to connect to the correct security personnel. Not only do they allow security personnel to instantly pinpoint the location of a caller, but they also provide the quickest way to contact security in case of an emergency. In addition, all CTA trains are equipped with a two-way intercom system, accessible to riders during an emergency.

Exit Signage

CTA, and other systems, have also installed emergency phones, signage, lighting and emergency walkways in the subway tunnels themselves so that, in the event passengers must leave the train between stations in an emergency, they can quickly and easily notify security of the emergency event which caused them to leave the stopped train between stations. Since these emergency phones automatically notify security of their location, it is easier to tell passengers what to do and to dispatch assistance to the right location.

"We have blue lights affixed throughout the subway in places where telephones are located. At all those telephones, passengers have the ability to push one button and they are able to talk directly to our control center," explains Myron Meredith in the public safety video produced by the CTA. "As they continue walking towards the emergency exit, there is a flashing blue light that will alert them to the location of that emergency exit, as well as the audio message that is playing that directs them to the emergency exit."

Personnel who are on duty at CTA's control center alert both the Chicago Fire Department and the Chicago Police Department to emergencies on the CTA's system. Fire and police personnel train alongside CTA staff to familiarize themselves with the subway tunnels and elevated structure. That way they can provide assistance to riders as quickly as possible when they respond to the scene. Myron confirms the importance of the control center, "As field employees, we are in direct contact with our control center, which has direct lines to the Police Department, the Fire Department and the OEMC (Office of Emergency Management and Communications)." The CTA continues to drill various emergency scenarios with both Chicago Fire and Police Departments.

Passenger Action

According to CTA President Rodriguez's testimony on Capitol Hill, the CTA's latest initiative to combat crime and deter terrorism is the installation of high-resolution digital security cameras. The network cameras allow the CTA, the Chicago Police Department and Chicago's Office of Emergency Management and Communication to gain a clear picture of an emergency situation and to respond accordingly. Sometimes it is not sufficient to simply notify the security personnel of an emergency, and while security cameras supply critical information to the security personnel, they do not have a chance to act on an event. Immediate action taken by mass transit riders can save lives, if the platform is equipped with the right tools.

Back in 2009, a story of a woman whose toddler was flung off a CTA platform took the headlines. A Red Line train started from the Morse station with a stroller caught in its doors, dragging it down the platform and flinging the 22 month old toddler alongside the tracks. The girl did not hit the third rail and was far enough away from the tracks of a departing train. While this story has a happy ending, a person falling on the tracks is unfortunately not a rare occurrence. Many local transit authorities have since taken preventative measures.

The Phoenix (Arizona) Light Rail and the Sacramento (California) Transportation Authority went a step further with public safety efforts by installing a special emergency communications device equipped with a kill switch on platforms. The unit empowers everyday users of public transportation with the ability to cut the power to the tracks by pushing an emergency button - anyone can hit the emergency button and immediately cut the power to the tracks. Units include Talk-A-Phone's IP emergency phones, highly visible blue lights, emergency lettering and instructions, raising awareness of public transportation riders. In some locations the units are wall mounted and in others mounted on their own integrated stainless steel post.

Securing the transition points from one transportation medium to another is also a must. Emergency phones are strategically placed at such locations to allow the public to report any suspicious activity that might be taking place. This technology has been employed at various transit authorities in the United States, including the CTA's Orange Line connection to the Chicago's Midway Airport. Parking garages and outdoor parking lots adjacent to airports also require a duly diligent approach when it comes to security. Proper access point planning, emergency phones and surveillance all play an important role in terror plot prevention. The CTA's Park and Ride lots use a combination of emergency phone towers and Pan-Tilt-Zoom surveillance cameras to quickly zero in on any emergency situation.

Eyes Open

Layers upon layers of security play a critical role in creating a safe and secure environment. However, even the best of technologies fail to detect the malicious intent of a lone individual, be it a radicalized homegrown terrorist or a member of a larger terrorist organization. We must all learn to critically observe our environment and then report anything out of the ordinary. We have the tools at our disposal; now it's a matter of looking after each other. Extreme caution must be exercised to not fall for ‚false economies' by reducing funds to transportation security. Congressman King said the human and economic costs of a successful terrorist attack would far outweigh any money saved on security for mass transit. Staying at least one step ahead of our enemies is the name of the game.

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INTERVIEW

Simple and Clear

Two Lenses for High-definition IP Cameras

Tamron wants to make the life of its installers and customers easier with the Double Vari-Focal solution: just two lenses cover the focal lengths most often needed in security applications. Matthias Erler of GIT SECURITY spoke with Christian van der Heide, Sales (German-speaking countries) at Tamron Europe.

Christian van der Heide

The two lenses of the 'Double Vari-Focal' concept. Just two models cover the most common focal length range of 2.8mm – 50mm.

GIT SECURITY: Mr. van der Heide, you have just introduced two new Tamron lenses for IP cameras. Would you briefly describe them for us please?

Christian van der Heide: These are two lenses to cover the wide-angle and telephoto ranges: the Double Vari-Focal solution consists of a 2.8 to 8 mm and an 8 to 50 mm lens. These lenses are specially for IP cameras with a certified resolution of 3 megapixels. This is essential to get the utmost from modern high-resolution IP cameras – at 1.3 to 2 megapixels, as found with Full HD TV, the advantages of digital zooming cannot be extracted. Our internal tests have incidentally also shown very good results at 5 megapixels: under normal conditions it is therefore possible to obtain a much higher resolution.

What is special about these lenses?

Christian van der Heide: The specialty of the Double Vari-Focal solution lies first of all in the concentration on these two lenses: together they cover the most often required focal lengths. In this way we want to make it easier for customers and installers: they no longer necessarily need to study the multiplicity of different focal length lenses that are available on the market. Both lenses provide very high quality and are optically corrected for infrared illumination.

… and that means?

Christian van der Heide: When switching over to infrared operation during nighttime operation there is a shift in focus. This is because of the different refractive indices of the wavelengths. This is compensated for by the technology so that you don't have to manually adjust the focus on the camera. This technology is well-known. However, our lenses also have the advantage that the resolution is maintained even under infrared illumination. Normally the resolution capability of a lens reduces, but our engineers have done some excellent work specifically on this matter.

Is a restriction to just two lenses a customer requirement that you have noticed yourselves?

Christian van der Heide: We do indeed see that many customers ask us for advice about choosing the right lens. The choice available on the market is really quite confusing. Our ‚Simple Choice' action therefore produced good feedback as was shown at the Security event. Incidentally, we do still have our other lenses with the whole range of focal lengths available.

What other advantages do these lenses have?

Christian van der Heide: There are many that I could list. Particularly worth mentioning, for example, is the very wide radius to focus the lenses: the focus adjustment ring must be turned a long way and this makes it particularly easy to get the lens sharply focused. Installers know this from everyday experience. It is also important to say that the megapixel resolution is not only in the center of the image but is guaranteed right out to the edges. And that is a decisive point in particular with high-definition cameras – and right here the high quality of our lenses is proven.

The lenses hold up well under extreme operating conditions?

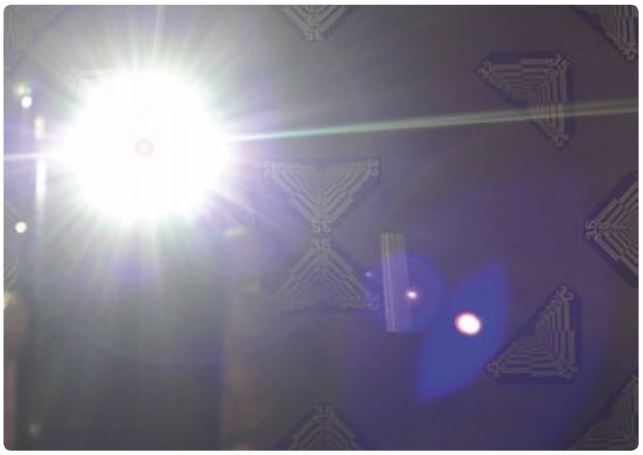
Christian van der Heide: That is also an important quality aspect of our lenses: they are very well tempered, that is, coated. This enables them to continue to operate well under very difficult light conditions – above all during dawn and dusk or when there is strong backlight. Amongst other things, the coating prevents the light being reflected back and forth between the individual elements and continues only in one direction. This helps to prevent disruptive ghost images and a clear surveillance image is always maintained.

You're moving here in the high-end segment?

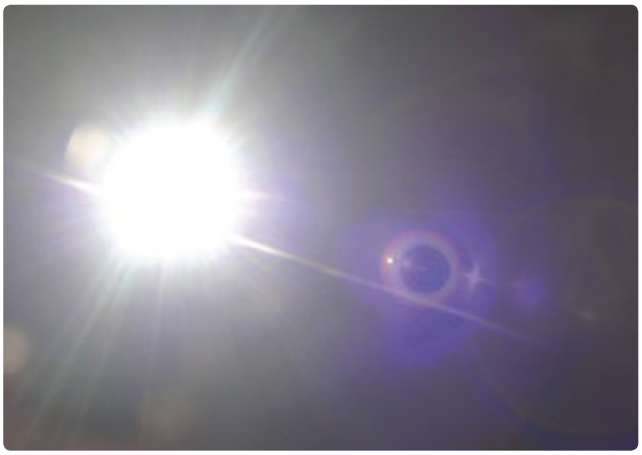
Christian van der Heide: This applies to our Double Vari-Focal concept just as much as our other lenses. We consciously avoid the very competitive low-cost segment. Instead we focus on high-quality lenses in the megapixel range. The quality aspect also includes, for example, the housing, very temperature-stable materials, etc.

Where are your lenses manufactured?

Christian van der Heide: We manufacture in a Tamron-owned factory in China. Design, development and the entire engineering work, however, is done in Japan.



These pictures clearly show the benefit of good coating. The test chart in the background is easily visible here, even though bright light is being shone at the lens.



A lens with low-quality coating and optical design will deliver almost no useable image under such extreme conditions.

You stress the high importance of the lens in the architecture of a video security system. Is this given enough consideration in your opinion?

Christian van der Heide: Many components go to make up the final image. The first and one of the most important is the lens. The camera can only forward the details that the lens delivers. This is not infrequently ignored, even when a lot of money is spent on video technology.

You launched the lenses at the Security show in Essen – how was the response?

Christian van der Heide: The resonance was absolutely positive, in particular with regard to the reduced line-up. The 2.8-8mm lens is already available and is selling very well. The 8-50mm lens will come onto the market at the beginning of December. With an eye to the already high demand, we are very confident that this will also be a great success.

Many thanks for the conversation, Mr. van der Heide.

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CITY SURVEILLANCE

Amsterdamned? Amstersecured!

Wavesight Chosen to Secure Major Upgrade of City Surveillance Project in Amsterdam

To provide a secure, reliable and flexible CCTV network capable of delivering high frame rates per second and CCTV images, together with telemetry control, simultaneously to a police station and the main city council building. To deliver all of this over a cost-effective wireless network without the costly expense of digging up the city's historic cobbled streets and causing potential disruption to the tourist trade.

After successfully designing and installing a wireless network at Amsterdam's Central Railway Station, leading Dutch system integrator Q-Cat was asked by the Amsterdam city council to add an extension to the network to monitor the public space, which includes two of the city's most famous landmarks – Rembrandtplein and Leidseplein – both squares that are popular with young tourists on a weekend break. Amsterdam, one of the greatest small cities in the world, attracts millions of visitors each year. This means that the potential for crime is high and the need for reliable surveillance even higher.

Greater Bandwith Enabled

The requirement set by the Dutch police was to deliver CCTV images over distances of up to 2 km from 30 IP cameras located within the main tourist district, both to the town hall and to the police station in Lijnbaansgracht. By using a combination of WaveSprints and WaveFlows, the images from the 30 cameras were collected centrally and then backhauled to two separate locations. This was achieved using two separate backhaul WaveMax systems positioned on hotel rooftops in the main tourist district.

Instead of multi-casting from the edge of the surveillance area (i.e. asking the camera to send multiple images to different receivers), the solution of multi-casting from the network video recorder situated at the council building was favoured. This meant that the source (IP camera) only needed to send the image once, thereby allowing it to be delivered to a large number of receivers, making for a more efficient use of the wireless network infrastructure. Overall, this enabled greater bandwidth and real-time image capture, as well as for the cameras to be controlled remotely from both the police station and the town hall.

To achieve a reliable solution, Q-Cat chose Wavesight to supply the wireless infrastructure and Indigo Vision to provide the IP camera hardware. Having gained a great deal of experience with wireless networks and after working on phase one (Amsterdam Central Railway Station) of this citywide surveillance project with both Wavesight and Indigo Vision, Q-Cat was confident that collectively they could again meet the expectations of the end-users.

Choosing a Wireless Solution

The system chosen was based on radio communication with high performance Orthogonal Frequency Division Multiplexing (OFDM) radio bridges bringing the total of Wavesight radios deployed in the Netherlands to

over 400 – mainly used in critical video surveillance applications. This offered the customers two key benefits. First, they offered near line of sight (NLOS) capability, which meant that even where clear line of sight (CLOS) was not available, a link could be established and sufficient bandwidth would be made available despite obstructions. This provided greater flexibility and reduced the number of radios required (and the time it took to install them) over alternative solutions. The second benefit was the range of frequencies available, one of the widest on the market from a single product. In this case it was essential to use frequencies outside the public domain. WaveMax units operating at 5GHz provide a sufficient number of non-overlapping channels to avoid interference with neighbouring channels in a medium-large WLAN environment.

This provided greater flexibility and reduced the number of radios required (and the time it took to install them) compared with alternative solutions. The second benefit was the range of frequencies available, which is one of the widest on the market from a single product. In this case it was essential to use frequencies outside the public domain. WaveMax units operating at 5 GHz provide a sufficient number of non-overlapping channels to avoid interference with neighbouring channels in a medium-to-large WLAN environment.

Additional benefits for the end-user of using this approach to transmitting CCTV images are that less manpower is required and the system can be both expanded and re-deployed where necessary. All of this done easily and at little expense for the police authority. It was not possible to use existing leased fibre in this case, because it was dedicated to domestic use and would not have had the capacity to transmit CCTV images at 25 frames per second – not to mention the additional cost to the end-user in leasing charges.

For Q-Cat this has been a very successful project and provides a clear demonstration of the company's ability to integrate wireless technology and provide the reliability, performance and flexibility its client needed. Hugo van Hees, director at Q-Cat comments: "We partnered with Wavesight as we needed to provide a reliable and robust system for our client. The fact that they had already successfully delivered many urban surveillance projects in the UK and other cities throughout the World reassured us that they could deliver what was needed".

Wavesight – suitability for CCTV transmission

WaveMax operates in the licence-exempt 2.4 and 5 GHz frequency bands. Its use of OFDM modulation provides significantly improved performance in both near-line-of-sight (NLOS) and in some cases no line-of-site environments over distance, allowing voice, video and data delivery of up to 108 Mbps, which is ideal for high-resolution, high FPS CCTV use. Ruggedised to exceed IP65 and featuring tough vandal-resistant housings, the Wavesight product range provides the all-weather capability, reliability and low maintenance critical for CCTV and data transmission.

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Miniature HDTV Cameras

The Axis P12 Network Camera Series include indoor and outdoor-ready IP cameras for discreet or covert surveillance. The cameras' miniature sizes, and specifically designed mounting accessories and enclosures enable easy installation into very tight spaces, making them suited for discreet surveillance applications in retail stores, banks and ATMs, hotel lobbies and building doorways. The Series includes three models: the pinhole P1204 and P1214 models for indoor environments, and the IP66-rated P1214-E model suited for both indoor and outdoor applications. Each camera consists of a small sensor unit that includes the camera head and progressive scan image sensor, which is connected up to 26 ft. away from the main unit that contains the camera electronics and additional features. Corresponding mounting accessories are also included.

www.axis.com

IP Cameras with Edge Storage

Multipix Imaging introduces edge storage in all Basler IP camera models. The SD card functionality already available in their IP dome camera models will now also be integrated into their IP box camera range. In this setup, the micro SDHC card slot provides for local storage of up to 32 GB of data. This functionality makes it possible to store live streams or single camera images in configurable time intervals on an SD card. If a network failure occurs, the camera acts as a backup solution by recording video streams to the SD card. When the network connection has been restored, the video management system can retrieve the data and merge it seamlessly with video footage captured before the connection was interrupted. When using an efficient encoder type such as H.264 and a high-capacity SD card, a Basler IP Camera can independently capture and store images for an extended period of time without transmitting data back to a client. This is especially useful in remote surveillance locations, since the camera will not require any network connection.

sales@multipix.com

Anonymity and Privacy

Genetec's unified security platform, the Security Center, provides security operators with a single intuitive interface to move through powerful yet user-friendly applications. Applicable to numerous industries such as transportation, city-wide surveillance, education and healthcare, the platform can manage hundreds or even thousands of remote systems from a central location, contributing to improved cost and operational efficiency. The Company has also developed a range of solutions specifically designed to ensure that anonymity and privacy are maintained at all times. The Kiwivision Privacy Protector, a video surveillance solution developed by Kiwi Security is now built into Genetec's USP. This solution, which bears the European Privacy Seal, can be used to automatically blur people and vehicles in real time, while movements and behaviors remain identifiable.

www.genetec.com

VIDEO SURVEILLANCE

Hot Spot

A Ruggedized Digital Video Recording and Transmission System for Vehicle Fleets

Mighty oaks from little acorns grow, and in the case of HeiTel, part of the Australian Xtralis group, they planted one on fertile land when they decided to exhibit at Intersec in Dubai in 2008. From just a small presence at the show they hoped first of all to find a local sales and support partner for their security video transmission product range. In fact they stumbled across a major contract to equip the Dubai police force.

Somewhat unusual regulatory conditions in Dubai mean that certain establishments such as shopping centers, gas stations and jewelry stores are legally required to install video surveillance technology. In addition, many parts of the city are being monitored 24 hours a day by static PTZ cameras. While this sounds like sales paradise for the manufacturers of video surveillance equipment, it is not in fact so easy to get the contract.

In every case, a qualified and independent surveyor must be brought in who will do the site survey and create the project plan. This will include not only the positioning and type of cameras but also the recording and, where required, transmission equipment. The completed installation can then be officially accepted by the Dubai police, and this experience has made them unquestionable experts in the field of video surveillance.

Of course, the police themselves are ‚customers' in a sense because they need video recordings to verify how events took place. Their large fleet of operational vehicles is constantly underway and can gather important evidence material at opportune moments. So the requirement was published to equip them with cameras, recording and transmission over cellular networks back to a central control room operated by the Dubai Police.

Proving Ground

Here HeiTel's experience in installing video equipment in Dutch buses as well as the Basel and Zurich public transportation systems proved invaluable. It enabled the company, together with their established partner Atlas Telecom from Dubai and neighboring Abu Dhabi just 80 miles along the coast, to provide a competent and convincing offer and a tailor-made vehicle fleet solution for the Dubai Police. Part of the offer was for fleet management solutions and video gateways to integrate existing mobile recorders into the fleet management software.

After evaluation of competitors products in a real-life field test, 110 police cars of Dubai Police force have now been equipped with HeiTel's on-board camera, compression and transmission equipment. First in the chain comes a specially robust 360° panning mini PTZ dome camera mounted on the car roof. It has a hard life because it is always being vibrated and exposed to the Dubai weather. It therefore has a protective dome made of a special compound that is resistant both to the scratching sandstorms and the intense ultra-violet exposure, while the camera itself must withstand temperatures of up to 60°C within the dome. An optional windshield and rear window camera as well as microphones complete the media-gathering equipment. These are all controlled via Camcontrol Lite software installed on a touch panel PC fitted into the car dashboard.

On-board proprietary video compression technology compresses the incoming data stream for fast and secure transmission of video, audio and GPS data over cellular networks (using GPRS, HSPA, CDMA, UMTS or EDGE) to a tailor-made fleet management software, which is especially designed for central monitoring stations. Ruggedized digital recorders with a removable HDD fitted in the vehicles simultaneously archive the material at source.

Under Control

The company's Cam4mobile transmission product line provides the camera and microphone interfaces for up to 10 analog or IP cameras and also looks after setting up and maintaining the radio link to get the data back to the control room. Here it is necessary to poll the vehicles to maintain a ‚database' of active connections, in a similar way to how cellphones continuously register themselves with the network. This polling ensures that, back in the control room, they can always see which vehicles are reachable and the system can open up full video transmission quickly.

And with such a large fleet on the road, the Dubai Police Headquarters need a suitably-dimensioned control room to handle this incoming data. Resembling a small concert hall, there are places for up to 45 controllers who, apart from the vehicles, also monitor static cameras that are installed throughout the city and in specific public areas. Using Integrated Management System software from Siemens, the integrated control center solution is based on HeiTel's Camcontrol Multiclient and Camcontrol Server and can receive up to 160 concurrent video/audio live streams over 3G, including remote PTZ control - this equates to connections to 4 different vehicles per controller. Usage is very easy for the controllers, with clicks on vehicle icons shown on the cinema screen-sized wall display initiating the communications and control commands to set up remote video transmission. An interface board for video and audio transmission integrates existing DVR's into the fleet management software.

HeiTel's mobile components are by no means restricted to cars; the company offers tailor-made CCTV solutions including cameras for taxis, buses, trucks and trams, all easy integrable into their fleet management software via an embedded adaptor or external router (LAN connection with Cam4mobile) that hooks into the local 3G network with a fixed IP address. Dubai police recently placed an order to equip their motorcycles with similar capabilities and these now have a mast-mounted camera fitted above the rear wheel with a side-pod holding the transmission equipment.

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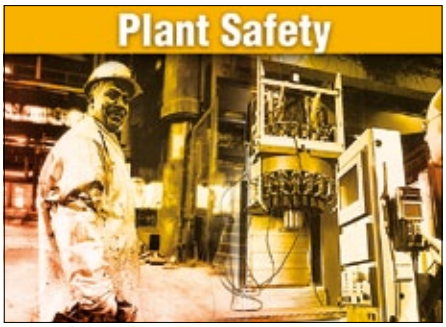

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