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COVER: ABUS
VIP – Video for Important Persons

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Security Tech Germany

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Education

When you outline a plan for a security strategy, normally you start with the implementation of strict rules. What access rights does an employee get? What actions are allowed and what is strictly forbidden?

The next step is then to set-up a control system that ensures that everybody accepts the rules. But this is not enough. I am not saying that it is not necessary to introduce rules or to check if everybody plays according to the rules. I just want to emphasize that the educational part of the game is often underestimated. It is so important to get all employees on board.

In the interview on page 16, Heiko Winkler, Vice President Corporate Security at Carl Zeiss AG talks about the technology behind a corporate security concept and stresses how important the education of the staff is when he states: "In security, technology and conduct are interlinked. The employees must be made aware of the value of the data processed by them. A contented employee is willing to contribute by their conduct to the well-being of the company. We focus strongly on the personal responsibility of our employees."

Strict rules are necessary but people need to understand the background and they need to know that rules are not there to chicane the employees. Education and commitment are equally important when you hire security personnel as Mr. Winkler comments: "This guarantees us the best local and organisational knowledge while at the same time resulting in high identification with our company. Sound training as well as a comprehensive 'on-the-job' induction at the respective site is the precondition for deployment at one of our sites."

The feedback we do get from our readers is that they value very much articles that help to educate the industry. We will work hard to deliver more educational articles in the future and maybe we will get some internal support soon: John Wiley & Sons has just announced that it has signed a definitive agreement to acquire CrossKnowledge, a learning solutions provider focused on leadership and managerial skills development. As you see, we are investing in education, too.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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Videotrend Launches Dahua HDCVI Technology in Italy

Dahua HDCVI Academy officially has Videotrend as its second distribution partner. "We are excited to have them on board," said Tim Shen, Marketing Director at Dahua Technology. "We are quite confident about this cooperation as it can surely accelerate the acceptance of HDCVI through their extensive channels, both in Italy and globally," Gianluca Farina, Sales Manager of Videotrend added. "This important technology innovation has been received by the market with a great enthusiasm. HDCVI, which provides analog HD video transmission over coaxial cable allowing reliable long-distance HD transmission at lower cost, will permit fast conversion of the analog installations into new and modern ones in HD." The technology has no latency and transmits 3 signals over 1 cable.

www.dahuasecurity.com

Primion Security System to Protect Vital Water Resources

Dr. Khalil Hourani, Hourani Consulting, Ahmed Ali Al-Shamrani, Managing Director GESCORP and primion Technology AG CEO Horst Eckenberger at the contract signing

Gulf Energy Solutions Corporation (Gescorp) is headquartered in the large Al Jubail Industrial City industrial complex. It offers security solutions and monitoring systems in the Arabian peninsula and beyond, importantly also for the protection of vital water resources and supplies. They are currently working on security technology projects, access control and time recording in various industries, including a huge hospital complex. Primion's international business development is supported by attending numerous exhibitions worldwide together with its local partners. The company will soon be appearing in Mexico City, in Switzerland, Austria, Paris and South Africa as well as at Personal Nord in Hamburg and Personal Süd in Stuttgart in May.

www.primion.de

ONVIF Adds Observer Membership Level to Increase Participation

ONVIF, the global standardization initiative for IP-based physical security products, announced today the addition of a new level to its membership structure called the Observer level, which encompasses consultants, systems architects and engineers and members of the media. This addition grants these individuals certain benefits, key among them the opportunity to access Network Interface Specification test tools to enable consultants, engineers and the media to impartially evaluate different products and become more familiar with the interface without participating at the same level as a manufacturer. Per Bjorkdahl, Chairman of the Steering Committee, said "Through the addition of this fourth membership level, we are granting more individuals access to ONVIF's test tools and empowering them to independently authenticate profile conformance on products they wish to present to their clients or readers." **www.onvif.org**

Xortec Hosting a Samsung Techwin Innovation Day

On the 8th May 2014, Xortec will be hosting a Samsung Techwin Innovation Day at the Kronenhof in Bad Homburg, Germany. The two companies have been working closely together to ensure that both installers and system integrators achieve the maximum commercial benefit from the latest generation of IP solutions. Nicolas Ullrich, Business Development Manager said, "Xortec has made a strong contribution to our success in Germany, in particular towards our aim of developing an IT and Network channel. They have shown over the last six months that they can provide our chain of supply with real added value. We are therefore very happy that they will be holding an Innovation Day." This event will give installers and suppliers the opportunity to deepen their understanding of IP-based video surveillance technology as well as learn of current market developments. Participants will also be able to see live demonstrations of Seetec video management software. **www.xortec.de**

C-Tec's ZFP Fire Panel Installed at Football Stadium

One Call Stadium, the home of up-and-coming Second Division football team, Mansfield Town, is the latest venue to be safeguarded by C-TEC's ZFP touch-screen controlled addressable fire panel. Featuring user-friendly touch-screen controls, powerful networking capability and flexible cause and effects, the ZFP replaces the old panel at the 10,000-seater stadium in Nottinghamshire. One 4-loop panel in the reception area and a repeater panel link in to the existing system of Apollo detectors and sounders to protect the stadium, which not only hosts football games but also entertainment events. Jeremy Bramley of Illumino Ignis, the independent fire company that completed the project said: "The ZFP is a very impressive fire panel and its modular nature means it can easily be expanded should the stadium undergo expansion." **www.c-tec.co.uk**

AS&E Drive-Thru X-Ray

American Science and Engineering, a worldwide provider of threat and contraband X-ray detection solutions, announced the receipt of an order for six Z Portal multi-view X-ray screening systems for a new Middle East customer. This system is a comprehensive screening system available with multi-view, drive-through screening of cars, vans, trucks and their cargo. It combines multi-view imaging (left, right, and top-down) with the company's patented Z Backscatter technology to detect explosives, drugs, stowaways, and other contraband while simultaneously facilitating the flow of traffic. These first systems to be deployed in this Middle Eastern country will be used to improve checkpoint security and scan passenger vehicles, vans, trucks, and cargo for concealed threats and contraband. "With well over 600 X-ray systems sold in the Middle East, our systems have repeatedly proven their ability to ensure public safety in the region by reducing the level of vulnerability to explosive threats and contraband in parcels, vehicles and cargo," said Chuck Dougherty, President and CEO. **www.as-e.com**

Eyevis Expanding Through Acquisition

Eyevis has acquired the business of Teracue at Odelzhausen near Munich, a manufacturer of hardware and software products for IPTV solutions and video networking. The business has been transferred with all rights on trademarks, names and patents as well as all employees into the new Teracue Eyevis. "The acquisition is a win-win situation for both companies," underlines Michael W. Nagel, CEO of Eyevis. "With the increasing demand on high-quality streaming systems, together we are offering solutions in the areas of control room, presentation and information, and broadcast from one source. Through this acquisition, they will benefit from our large international sales network which will significantly expand their existing sales channels. We will expand our expertise in streaming solutions as well as

signal transmission over standard IP systems." The first joint products have already been presented at this year's Integrated Systems Europe in Amsterdam in early February along with the Eyecon Metawall 2.0 solution.

www.eyevis.com

Milestone Hires New Directors for Marketing and Distribution

Milestone Systems, the open platform company in IP video management software (VMS), has hired Inger Holm Vinther as Director of Corporate Marketing and Kitty Van Der Sluis as Director of Sales Distribution in Europe, the Middle East and Africa (EMEA). Christian Bohn, VP Alliances and Corporate Marketing, says: "Inger's experience from marketing positions at large Danish technology corporations with worldwide presence makes her a perfect fit for us. Most recently she was head of Corporate Marketing at a global IT concern, a 3D software and scanner company. In this position, Inger was supporting their rapid growth in 100 countries by building up a successful marketing department." To help lead the evolvement of its partner initiatives in Europe, the Middle East

Inger Holm Vinther

and Africa, Kitty Van Der Sluis has been appointed Director of Sales Distribution in EMEA. She will oversee the assignment of more resources to enhance collaborations with distributors.

www.milestonesys.com

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Date: June 17-19, 2014
Booth: D530

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Navtech Radar's Solution in Trials on Strategic Motorways

The manufacturer of radar-based Automatic Incident Detection (AID) solutions for traffic management applications is supplying its Clearway system for planned trials on hard shoulder running on strategic motorways in the North of England. The company has supplied ten TS350-X radars and Witness analytical software. Each radar gives 360 degree scanning capability within a radius of up to 500 meters and can detect a person walking on the hard shoulder or debris in the road, as well as slowing or stationary vehicles. It is not affected by adverse weather and has an extremely low false alarm rate. Dr Stephen Clark, Technical Director, says, "Early detection of stopped vehicles is crucial at night or when visibility is impaired, such as fog, when an immobile vehicle can greatly increase the risk of accidents. AID is very useful when the road is congested, but even more so at times of light traffic when most vehicles are moving quickly. As many motorways are no longer illuminated after midnight, other drivers may not see a stationary vehicle before it's too late."

www.navtechradar.com

Major Electronics Retailer Selects Wavestore VMS Technology

Media Markt has over 700 stores in 14 countries throughout Europe with a total headcount of approximately 45,000 employees. Images from Mobotix Q24 360 degree cameras and other fixed and PTZ IP cameras installed at Media Markt stores are recorded and managed by the VMS, which features the ability to de-warp the fisheye images captured by 360 degree cameras and simultaneously display them alongside images from other IP security cameras in a user configurable multi-image display. Operators can control a 'virtual' PTZ function to track activity while they are viewing the de-warped images and can, for evidence purposes, quickly and easily save one or a series of video clips from multiple cameras, tracking individuals who enter and walk around a store. A programmable joystick controller also provides shop staff with the ability to control the view of the de-warped images from the Q24 and to control other PTZ IP cameras.

www.wavestore.com

Sicurezza 2014 Is Expanding

Eight months before the next exhibition, Sicurezza, which runs from November 12–14, 2014 at Fiera Milano, has already received bookings for 60% of the exhibition space available and, to date, the number of Italian and international companies that have confirmed they will be attending has exceeded by 25% the number that applied to participate in the period leading up to the last fair in 2012. Companies that are returning after a gap of a few years and brands being presented for the first time look like being particularly interesting and conveying the innovation achieved by the leading segments of the industry. As well as video-surveillance systems, other players with an increasing role at the show will include anti-intrusion and burglary systems, access control systems, fire-prevention systems, ICT security systems, as well as devices for personal physical and passive safety.

www.fieramilano.it

ONVIF Releases Profile C for Physical Access Control

ONVIF, the global standardization initiative for IP-based physical security products, announced the final release of Profile C, which brings the functionality of their global interface specification into the physical access control arena. Systems integrators, specifiers and consultants are now able to achieve interoperability between clients and devices of physical access control systems (PACS) and network-based video systems. Compatibility between access control edge devices and clients is improved, installation simplified and training time diminished because of the reduced need for multiple proprietary monitoring systems to handle different PACS devices. Profile C conformant devices within the access control system provide door and access point information and functionality related to basic door control activities such as locking and unlocking doors, when a door has been accessed and other door monitoring tasks. "Extending the ONVIF interface into other areas of physical security emphasizes our recognition that systems designers need a consistent interface to enable seamless integration within their security systems," said Per Björkdahl, Chairman of the Steering Committee.

www.onvif.org

Contract Strengthens Gunnebo Partnership with La Poste

The contract, which could rise to a value of €5 million over three years, includes the annual provision of 360 Securwave control panels for integrated access control and intrusion detection. follows two previous orders from La Poste for electronic security solutions. Including the earlier roll-outs, more than one third of La Poste's 12,000 sites will eventually be equipped with the company's control panels. The company will be able to supply a single solution to fit every one of the post offices, something which was a major decision factor for La Poste. They plan to monitor the entire installed base using the manufacturer's Securmanager application that will track each system's performance and flag up areas for improvement, ultimately optimising operating costs.

www.gunnebogroup.com

HD CCTV Alliance Ratifies 2.0 Standards

Surveillance video standards organization the HDcctv Alliance has ratified the next generation of its High Definition security video standard, HDcctv 2.0. Todd Rockoff, alliance Executive Director, said: "There are two primary variants – NR and AT. The NR DVRs and cameras add plug'n'play up-the-coax remote control to the underlying HD-SDI format. AT delivers HDTV signals over any legacy CCTV coaxial cabling, along with remote control. Compliant equipment will provide flexibility, allowing integrators to choose the right cameras and recorders on a case-by-case basis. We're encouraging semiconductor manufacturers, as well as camera and DVR manufacturers, to embrace these new standards. Working together, we can provide unparalleled levels of interoperability for installers and end users, and thereby help to drive down the costs of installation and operation."

www.highdefcctv.org

ACT Secure Hospital

CBES has secured the Tunbridge Wells Hospital in Kent using proximity readers, door controllers and management software from Access Control Technology (ACT) as part of an IP-addressable system. The equipment is controlling access to over 200 doors including mission-critical areas such as operating theatres, casualty, pharmacy, admissions and high-dependency units. Access control and CCTV have been interfaced with the hospital's baby tagging system in order to provide even greater levels of security on maternity wings where over 100 babies are born weekly. The hospital is using pro 1040 multi-format proximity readers which support Mifare cards and also fobs. Cards are used in which identity details are embedded behind a sector, an extra level of precaution which reduces the risk of card cloning. They generate clock and data or Wiegand output and feature tri-colour LED indication as well as a bleep tone for audible indications.

www.accesscontroltechnology.com

Geutebruck Upgrades Large Video Installation

For several decades now the Karlsruhe, Germany sites of L'Oréal, that employ 2,000 people and include a modern factory producing skin and hair care products as well as a large German and Austrian markets logistics center, have been secured with the aid of Geutebruck video solutions. In the most recent technology upgrade at the start of 2013, a new IP video system was installed. As the new products were still compatible with the earlier analog systems, much of the existing infrastructure could be incorporated into the new solution. This cost-effective approach included for example, new HD cameras being mounted on existing external lighting masts, with the old twisted-pair telephone cabling being used for data transmission. For this project expert advice, system design and specialist project implementation were all provided by Euromicron solutions, Geutebruck's local sales partner.

www.geutebrueck.com

IP Video Showroom Opens

(from l. to r.) Georg Martin, Dallmeier Marketing Director, Edmund Johanns, Managing Director, Johanns Systemhaus, and Jürgen Seiler, Managing Director, davidiT, at the opening of the Dallmeier Solution Centre in Bitburg

Opening its Solution Center in Johanns Systemhaus in Bitburg, Dallmeier now has a video IP showroom in the western part of Germany as well. The theme of the center is for existing and prospective customers to experience live their own benefits and operating scenarios. The two companies are presenting their comprehensive portfolios, ranging from standard solutions such as surveillance for protection against intrusion, theft and vandalism of property or premises, to various industry-specific solutions, such as for car dealerships, including video analysis with functions such as people counting and object detection. They can also experience the manufacturer's Panomera camera technology for surveillance of large areas and find out about the patented multifocal sensor system in real life situations. Edmund Johanns says, "In our showroom, we demonstrate the capabilities that are offered by IP video technology from our two companies. Our visitors can form their own impression of the enormous range of possible implementations that this technology can bring. The areas range from classic protection of property to sophisticated video assistance systems and can even contribute to optimisation of business processes." Dieter Dallmeier explains the reasoning behind the venture thus: "The drive to find solutions convinced us to establish a joint showroom here. For our shared customers and prospects from North and West Germany as well as neighbouring Benelux, this showroom offers professional advice for a video project and they can experience the solution up close and in real time." **www.dallmeier.com**

Milestone Systems Expands Solution Certification

The open platform company in IP video management software (VMS) announces fully reported performance certification of its Solution Partners with IT infrastructure components such as servers, storage, and workstation products. The first to achieve this comprehensive process with documented results are HP, Netapp, Promise Technology and Razberi, with several others in progress. The IT infrastructure, server, storage and client platforms are integral parts of a video surveillance management system, so miscalculation on server or storage requirements impacts the success of a system's operation, resulting in support calls. The company has therefore been working extensively with IT infrastructure vendors to ensure their systems are optimized for the Xprotect product family, and that the infrastructure vendors understand how to specify, build and deliver optimal systems for the customer environment.

www.milestonesys.com

CEM Systems Secures Minsk Airport

CEM's AC2000 access control and security management system has been installed at Minsk Airport in Belarus by local approved reseller Unibelus. It provides access controland has a range of software applications to enhance the airport's onsite operations and increase business efficiency. A failsafe secondary server is installed to ensure high availability of the system and ensure zero data loss. It requires no intervention from a support engineer. The Matrivideo option allows security personnel to associate access control alarms with digital video clips and view live camera footage. Security personnel use an application to remotely manage visitor access on a standard web browser. ID cards can be printed via the VIPPS application with a logo, staff signatures, and images on personalised cards.

www.cemsys.com

Pelco Strengthens Milestone Partnership

As a long-time Manufacturer Alliance Partner (MAP), Pelco has announced that it is tightening relations with Milestone Systems so customers now gain the advantage of deeper integrations between the former's IP-based cameras and the latter's IP video management software. This will enable channel partners to create solutions to meet the diverse needs of customers worldwide, for example by applying edge advance analytics and have events and information reported and managed by the Xprotect software. Stéphane Lantoine, Director of Integration Operations, says "We are very pleased. Our collaboration demonstrates our commitment to be a true open systems provider, and we will continuously focus on the areas that will offer flexible, reliable and scalable feature-rich integrated security solutions to our mutual customers."

www.pelco.com

Grundig Intensive Care Patient Monitoring

Patient surveillance has recently been installed at Isala Hospital, Zwolle, to provide video and audio monitoring system in its intensive care unit of six specialist wards over two floors. The system installed by VSS Nederland has IP cameras in each ICU ward, mounted above each intensive care bed, that provide live HD quality images in real time at 25fps. They are linked to an eight channel Grundig NVR and a 24" monitor.

www.grundig-cctv.com

Security Essen Will Be 40

On the occasion of the 40th anniversary, Security Essen will continue its growth course. More than half a year before the beginning of the fair, the booking level is outstanding: well over 1,000 exhibitors from around 40 nations are expected at Messe Essen on September 23–26, 2014. The range on offer at the fair has expanded as well. For the first time, Security Essen will gather more than 40 market segments under one roof – from mechanical security technology thru fire protection and CCTV right up to crime detection technology and terror prevention. Premieres will be given in the subject area of global travel security with solutions for the protection of employees and corporate know-how abroad. All the renowned manufacturers of civil security technology and all the major industrial nations will once again be represented at the biennial global fair.

www.security-essen.de

CONTROL ROOMS

Car Park Security in Paris Improved

Eyevis Video Wall Enables Central Monitoring of Car Parks

SAEMES (the Société Anonyme d'Economie Mixte d'Exploitation du Stationnement), a semi-public parking system operator, operates more than 90 car parks in the city area of Paris. Over four million visitors use them each year. A new control room has been installed for the central surveillance of the CCTV camera images and management of the car parks all over the city.

From this central location, the control room staff respond to all service requests and emergency calls from the clients in the car parks, so no human presence in the car parks is actually necessary. To visualize the CCTV camera signals, Eyevis has installed a 7m² video wall, consisting of twelve 46" type EYE-LCD-4600-M-USN-LD displays. The incoming signals are controlled by a Netpix 4800 graphics controller and the Eyecon wall management software.

The goal of the new control room was to increase the surveillance level of the car parks and thus to increase the safety of the parked cars. The control room therefore operates around the clock, answering more than 3,000 service requests and emergency calls each week. The reliability of the displays is therefore really important. With full HD resolution (1920 x 1080 Px), direct LED backlight for optimum brightness and contrast, and a very narrow border between neighboring units of just 5.7mm, the displays provide a homogeneous picture quality along

▶ CONTACT

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www.dallmeier.com

The Ideon Gateway building in Lund is an example of a multifunctional building
photo: Michael Strömgren

SP and the Department of Fire Safety Engineering and Systems Safety at Lund University recently finished a project investigating fire safety in multifunctional buildings. Sponsored by the Swedish civil contingencies agency, MSB (Myndigheten för Säkerhet och Beredskap), the project was three years long and finished at the end of 2013. The aim of the project was to support accident prevention activities within multi-functional buildings to meet the public's need for a safe and secure environment.

FIRE SAFETY

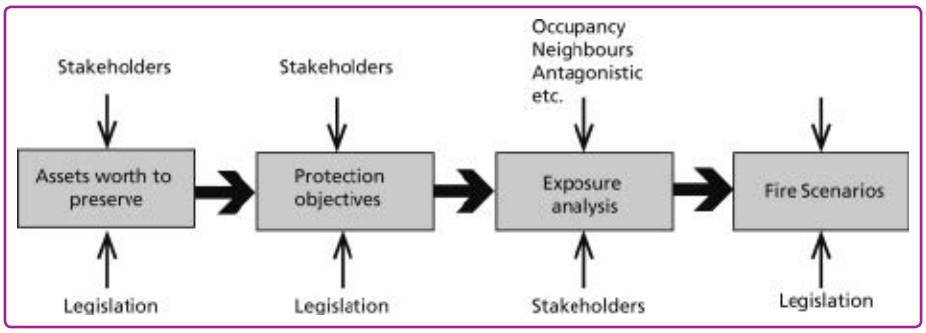
Safe Use of Multifunctional Buildings

Project in Sweden Is Investigating Fire Safety

The objective and means to achieving this is to develop a methodology to identify and analyse risks associated with this particular type of building. Because of the complexity of activities on-going there is a lack of clear guidance for planning, control and design of such buildings for antagonistic and accidental actions. The project has focussed on the consequences of antagonistic threats or major accidents such as fires and the research has been limited to aspects such as life safety in the event of a fire, spread of combustion gases, explosions, the building's structural fire resistance, escape in case of accidents and the possibility of rescue operation.

What is A Multifunctional Building?

Multifunctional buildings are becoming increasingly common in modern society, where many functions may be brought together under one roof. For example, bus or train stations may be associated with shopping malls which may even contain offices serving some kind of administrative function. This means that the administrative functions and the transport hubs are at risk from the activities of store owners, and vice versa. Different businesses may place a different degree of importance on fire safety, meaning that a business which places a high importance on fire safety may be exposed by a business which places little importance on fire safety. Because of the complex management and letting conditions in this type of building this exposure can be difficult to quantify and to limit since it is not always clear who has responsibility for what in the building. Often this can result in an assumption that an asset is protected when in fact it is critically exposed.



First framework for Analysis of fire scenarios in multifunctional buildings

Multifunctional buildings may contain large shopping centres, homes, hotels, offices, schools, data storage and communication centres, parks, theatres and other entertainment activities. Examples of existing buildings include the Central station building in Stockholm and adjacent buildings, Scandinavium/Swedish Exhibition Centre in Gothenburg, "Knutpunkten" in Helsingborg, and even the Ideon gateway in Lund. In Malmö, the new central station may also be cited as an example of a multifunctional building. What is most important though is that a fire or an incident resulting from an antagonistic threat in one of these buildings could have a significant knock on impact for other businesses or even to society!

Structure of the Project

The project was structured as a number of work packages, with the scientific objective of the project being to develop a methodology for evaluating any heightened risk to businesses or occupants resulting in the use of multifunctional buildings. Different research methods were used to achieve the projects objectives:

- Critical review of available literature and application to multifunctional buildings
- Field studies of current buildings, comprising of existing multifunctional buildings
- Semi-structured interviews of occupants and owners in the case study objects
- Fire resistance and fire dynamics calculations with models for smoke and heat transport, fire resistance of construction and escape
- Evacuation experiments

Interviews and Methodology

A first framework for a methodology has been developed for analysing scenarios in order to attain an acceptable safety level for multifunctional buildings. This structured method is based on the SFPE Engineering guides Fire Risk Assessment and Performance-Based Fire Protection. The method provides guidance on how to determine critical assets which should be preserved, protection objectives, exposures and finally the fire scenarios for multifunctional buildings.

Semi-structured interviews with stake holders have been undertaken at the first of the locations which were chosen for the case study, and are currently on-going at the second case study object. Interviews carried out during the first case study focussed on getting the information required to implement the methodology and to identify representative scenarios for analysis.
Once the representative scenarios were identified it was possible to identify research questions for the physical phenomena required for the study of these scenarios. The first framework which was used in the case study has since been elaborated following input from the interviews and prior to implementation in the second case study. The completed framework, along with research questions arising with regards to life safety, smoke spread and continuity of functionality was a part of the licentiate thesis of Martin Nilsson.

Research Questions

A number of research questions were identified in order to use the methodology which has been developed on the first case study. These research questions also give us the opportunity to look at specific aspects of fire safety in multifunctional buildings.
Research questions studied within the project have addressed questions including functional behaviour of electrical components exposed to fire, i.e. at what exposure is the function lost, and evaluating suitable protection options such as reduced oxygen environment.
Another aspect in these complex buildings is areas lacking extinguishing systems (e.g. sprinkler) adjacent to protected areas. A fire starting in the unprotected area might spread to the protected area and it is important to determine how effective the extinguishing system is in preventing further fire spread. Also quite common in infrastructural buildings is the presence of vehicles in a tunnel or under a canopy that is protected by a sprinkler system. There is a need to quantify the effectiveness of the sprinkler system when the water cannot reach the base of the fire.
It has also been found that buildings with socially important functions might be more exposed to antagonistic attacks. This could result in a more severe initiating event such as an arson fire using flammable liquids. The building might not be designed to handle such an intense scenario and some time has been spent investigating the impact of larger ignition sources as well as the fire growth rate when an accelerant is used.
Evacuation research has focussed on aspects which are typical for large multifunctional buildings. Examples are disorientation of building occupants, large crowds, an unknown environment for users of the building, possible malfunctions of evacuation system due to antagonistic attacks and queue formations due to inefficient use of exit routes.

For structural systems, we have carried out a short review of blast in and adjacent to buildings, comparing current trends in blast and explosion research and application with the current trends in fire. Surprisingly, a number of the recent advances in fire are mirrored in blast loading, as well as a current research trends.

We have also considered modelling approaches for hollow core floor slabs; looking at their robustness and performance in fire. As part of this we have also spent some time evaluating the material model which is provided in Eurocode 2 for concrete in fire.

We have also been studying the response of steel columns to non-uniform fires. This research has resulted in the postulation of an analytical formula which describes the response of steel elements to non-uniform fires.

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FIRE TESTING

IR Cameras – Promising Tools in Fire Research

Applications for Infrared Cameras in Fire Testing and Fire Research

Infrared cameras detect energy in the form of infrared radiation from hot bodies and create a thermal image of the temperature differences. The technology is currently used for many different applications and has in recent years increasingly been used in fire prevention measures. Among other things, infrared cameras contribute to improving fire safety in tunnels, including the Mont Blanc tunnel and the Bjørvika tunnel in Oslo, in that they can detect a fire much earlier than ordinary surveillance cameras.

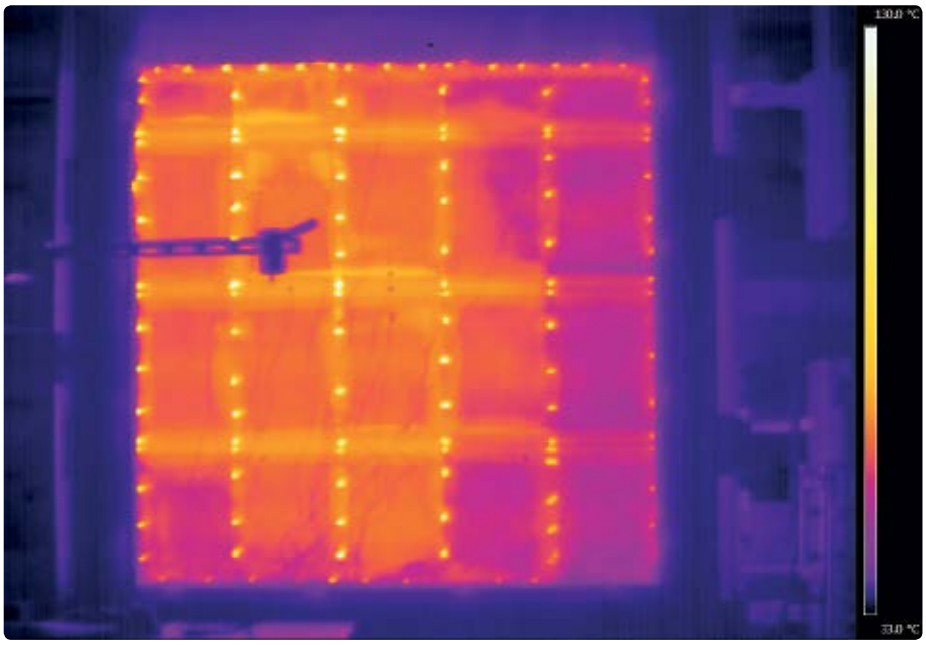

Fig. 1: The infrared camera was used during a test of a non load-bearing wall with steel beams and two layers of normal plaster on each side. The infrared picture clearly shows distinct hot spots where the plaster boards are fixed to the beams (the light yellow dots).

SP Fire Research AS (SPFR) has an infrared camera of type FLIR GF-309. The camera measures temperatures from -40 °C til 1500 °C, it „sees" through smoke and flames and provides useful supplemental information in fire tests and to fire research. The infrared camera provides visualization of temperature distribution on the surface of a specimen, and thermal video sequences show the temperature distribution changes with time. The sensitive optics of FLIR GF-309 can detect temperature differences of less than 25mK.

Finding the „Hot spots"

Our infrared camera can be used to visualize and detect so called „hot spots", i.e. areas of a specimen that reaches substantially higher temperatures than the rest of the specimen, during exposure to a fire. Figure 1 is a good illustration of this. Here, the fire resistance of a non load-bearing wall with steel beams and two layers of ordinary plaster on each side is tested in a vertical furnace. The infrared image clearly shows areas where the surface of the wall has elevated temperatures.

The temperature of the „hot spots" can be extracted by analysing the infrared pictures, either directly during the test or afterwards. This way it is possible to ensure that the hottest areas actually are the ones that are analysed, as opposed to using thermocouples, where the measuring points are predefined before the test.

Detecting the local temperature growth is useful for anyone who develops products and structures that are meant to resist fire. Areas that are particularly exposed to heat can be detected and thus improved in further product development. This is useful information for most product types, for example for passive fire protection, pipes, panels, fire doors, walls, windows, and especially for products with potential weaknesses such as joints and connections.

Advanced Analysis

Another advantage of the infrared camera compared to conventional thermocouples is the large amount of measurements possible. The number of measurement points is limited when using thermocouples due to time and cost aspects. In addition, the thermocouples are, as previously mentioned, placed in assumed strategic positions. However there is no guarantee that it is exactly at these positions that the most interesting and critical temperatures will appear.

There are no limits (The measuring points are limited by the number of pixels in the resolution of the camera.) to the number of measurement points when using the infrared camera and its software. In addition, it is possible to measure maximum, minimum and average temperatures of specific lines or areas, and also see how these change over time. Furthermore, a set-up can be applied where all points above or below a certain temperature is marked with a specified colour. To date, the use of infrared cameras is not meant to replace thermocouples but rather to be used as a supplement.

Heat Dissipation in Steel Structures

In a previous project conducted at SPFR, the load carrying capacity of a fired exposed steel structure was tested in a furnace for downwards

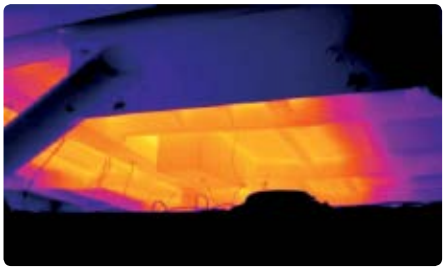

Fig. 2: Infrared picture of a steel structure affected by heat exposure from above. The yellow areas are hottest and the blue areas are coldest.

heat transfer, built by SINTEF NBL (ref. Brandposten no. 48, 2013). The test simulated a fire on the deck of an oil platform, and the effect of the fire on the underlying steel structure was examined.

During the project the infrared camera was used to analyse and visualize how heat was dissipated within the steel. Figure 2 clearly illustrates how different areas in the structure differ in temperature. In Figure 3 the temperature profile of a steel beam is shown. The temperature changes considerably with the distance to the heat exposure. Such a test is suited for revealing how a structure is affected by a severe fire, and how quickly heat is dissipated to other parts of the structure that is not directly exposed to fire. This may, for example, indicate whether it is necessary to apply passive fire protection on all or part of the construction.

Tunnel fire

The use of infrared cameras can provide valuable information during tunnel fire tests. Experiments in tunnels often involve very heavy smoke production, and it is challenging to get good pictures and videos. The infrared camera can „see" through smoke, thus providing valuable information about the fire development and the changes in temperature in the tunnel over time.

Modelling

For those involved in mathematical modelling of fires, the infrared camera can be used to map surface temperatures over complete geometries, providing a basis for validation of calculations.

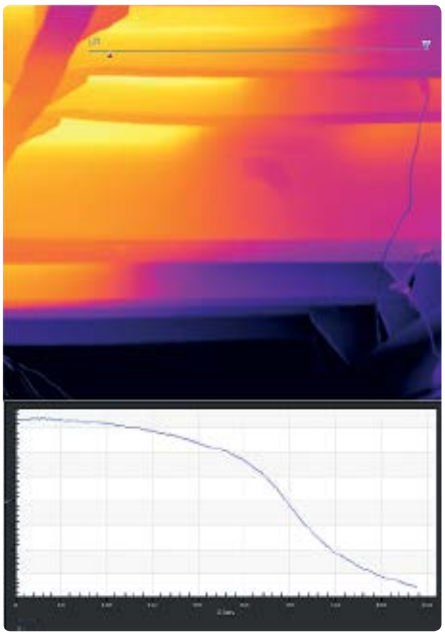

Fig. 3: An infrared picture of steel beams, where yellow areas are hot and blue areas are cold. On one of the beams there is a distinct line. A detailed temperature overview along this line is shown in the bottom picture where the y axis shows the temperature and the x axis shows the line on the steel beam. The graph is taken from an analysis in the camera software.

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Ethernet Switch with MMS Data Modeling

Moxa has announced its Powertrans PT-7528 series Ethernet switches designed to fulfill IEC 61850-90-4 requirements and equipped with built-in MMS servers. The series is designed for power substation automation applications in extremely harsh environments. Using the company's Noise Guard technology, the device series is not only IEC 61850 compliant but also has an EMC immunity that exceeds IEEE 1613 Class 2 standards to ensure zero packet loss while transmitting at wire speed. It also features critical packet prioritization (GOOSE, SMVs, and PTP) and a configuration wizard designed specifically for substation automation. With Gigabit Ethernet, redundant ring and 110/220 VDC/VAC isolated redundant power supplies, this series is built to provide reliable communications.

www.moxa.com

Induction Loop Amplifier

C-Tec has launched an up-dated version of its PDA200E induction loop amplifier. Fully compliant with BS 7594 and BS EN 60118-4 and suited for any perimeter loop application of up to 200 square meters, the amplifier now features two balanced/unbalanced line level inputs and one microphone input with phantom power for electret microphones. Each input also has a separate internal tamper-resistant control that can be manually adjusted. Designed to allow hearing aid users

to participate in general conversation and social/work activities, the amplifier is compatible with the company's extensive PDA Outreach plate audio input extension system and comes complete with a 'loop fitted' sticker. **www.c-tec.co.uk**

Multi-Threat Smart Fire Alarm

A smart algorithm within a recently launched fire alarm from Panasonic allows detection of smoke, heat and carbon monoxide (CO) at the same time. It has been designed for applications such as theaters with artificial smoke generators, or factories where oil mist may be present. The alarm detects smoke using an infrared LED and a photo diode with two lenses, while a thermistor detects heat and the CO sensor is a chemical type. Because it only triggers when smoke, heat and carbon monoxide are detected, the model 4402 promises high reliability in fire detection. Gerard Figols, European Product Manager, said, "This unit offers dependable detection and suits challenging environments where conventional fire alarm systems would trigger unnecessarily. It is a valuable addition to our product lineup."

www.panasonic.net

BRANCH FOCUS PRODUCTION SITES

Focus on Corporate Security

Interview with Heiko Winkler, Head of Corporate Security at Carl Zeiss

Zeiss is an international leader in optics and optoelectronics. In the financial year 2012/13, over 24,000 employees of the company achieved sales of approximately 4.2 billion euros. The company develops and manufactures solutions for the semiconductor, automotive and mechanical engineering industries, biomedical research, medical technology as well as spectacle lenses, photographic and film camera lenses, binoculars and planetariums. Our scientific editor, Heiner Jerofsky, asks Heiko Winkler about his field of activity, his experience and thoughts on corporate security.

Dipl.-Kfm. Heiko Winkler, Vice President Corporate Security, Carl Zeiss AG

GIT SECURITY: The company has an outstanding global reputation. It stands for precision, technology and know-how Made in Germany. For three years you have been responsible for data and IT security, site and personnel security as well as crisis management at Carl Zeiss AG. Before that you spent many years in a similar post at MTU in a similar post. How do you organise your department and how should the reader see your work in a scientific environment?

Heiko Winkler: For a high-tech company such as Zeiss knowledge and expertise are especially valuable – i.e. particularly also the data produced, processed, transported and stored in our IT systems and networks. Our focus of work is therefore obviously in the area of data and IT security. That is where the potential and the probability of damage are highest. In addition, however, we are responsible for conventional tasks involved in corporate security at Zeiss. The main focus is on design and strategic work but added to this are operational topics such as travel security and crisis management.

Where are the major dangers to company security at your site according to your risk assessment and how do you keep adjusting your security concept to the current risks and threats?

Heiko Winkler: As already mentioned, our main focus of work is obviously in the area of data and IT security. Our top priority is securing technological advances and knowledge in the company. For example, we observe how changes in habits of use of IT systems and applications impact on data processing. We are interested in what visionary innovations such as smart glasses, the Internet of Things (IoT) or the mobility of data has to offer. Therefore we also try to discover and assess trends outside the conventional security events and develop strategies on how we deal with this in the company.

How do you prevent and combat operational disruptions, criminal actions (thefts, sabotage, espionage) within the factory premises by visitors or employees?

Heiko Winkler: Our systems include physical security measures such as using qualified security officers, structural protection of the external perimeter, electronic access controls in multi-zone models as well as closed circuit television.

The development and production of optical and opto-electronic products requires high-quality research establishments and technical facilities which have to be protected against disruptions of any kind. What is the importance of security technology, especially alarm systems, access and video technology, for company security?

Heiko Winkler: In my view, the latest up-to-date security technology is the best basis for successful work by those in charge of security. A risk analysis determines the protection measures used. But technology alone is not sufficient. Security is always more about teamwork. Each individual employee contributes to company security by abiding by the rules and paying attention.

Which significance for you has the use of security staff? Do you work with your own and/or with external staff and what are your experiences with these employees? What qualifications do you require and do you conduct your own training courses?

Heiko Winkler: As the head of security, without reliable security staff I would not sleep well. Zeiss co-operates in this area with regional companies – these are long-term collaborations. The deployed staff usually have a long connection from working at Zeiss. This guarantees us the best local and organisational knowledge while at the same time resulting in high identification with the client, Zeiss. Sound training as well as a comprehensive "on-the-job" induction at the respective site is the precondition for deployment at one of our sites.

NO PATCH-WORK!

IN SECURITY SOLUTIONS

Don't accept any patchwork in your video security system. Instead, rely on a tailor-made solution with components from a single source. In capturing, recording, analyzing, evaluating and documenting our products set new benchmarks for quality, reliability and functionality. They are perfectly matched with each other so that you can work professionally with professional products. Quality from a single source, made in Germany. **www.geutebrueck.com**

GEUTEBRÜCK
Competence in Video Security

Access control at Carl Zeiss Meditec AG in Oberkochen

Access control and perimeter security at the parent plant of Carl Zeiss AG in Oberkochen

The ID pass system can become an important part of operational security. What is your experience in dealing with modern access control systems?

Heiko Winkler: Zeiss has the status of "known shipper". We thereby guarantee that all safety regulations of the Federal Office of Aviation are complied with – and this includes an appropriate access control system. Without electronic access control, operational everyday life is hardly conceivable. Our access control system ranges from the barrier at the car park via the entrance to the factory premises through to the air-lock to the clean room. Particularly important for me is the incorporation of additional functions: from simply showing an ID pass via pre-registration of visitors through to a rapid response system in the event of danger.

How and by which measures can you fulfil your responsibility for data and IT security?

Heiko Winkler: In data security, technology and conduct are interlinked. The employees must be made aware of the value of the data processed by them. In addition they must be informed about existing risks. For this we use internal means of communication such as Intranet – there we recently started operating a security blog, the employee magazine or poster campaigns. An animated video was particularly popular in which we drew attention to possible security risks in dealing with PC and Co. in a modern way – and with a wink of the eye. We had 8,000 clicks on the German version in two days – i.e. it reached the majority of employees in Germany. On the technical side – apart from conventional basic preventive measures such as anti-virus programs – we focus particularly on early recognition measures. We are currently installing a Security Incident & Event Management (Siem) system.

To keep the business running even in a crisis, precautions, emergency and contingency plans are required. How should one envisage your crisis management?

Heiko Winkler: The crisis committee at Zeiss which I lead, consists of a small core team from the areas of corporate security, law and communications. Depending upon the scenario, it is supplemented by further specialists from the company. It is particularly important that the crisis committee is up and running quickly in the event of an emergency and the team can work flexibly and efficiently.

Is there regular communication and/or co-operation with security or emergency management authorities?

Heiko Winkler: Naturally we co-operate closely and regularly with authorities at home and abroad, if security issues are concerned. Also the exchange with other companies and the networks of security officers is very valuable.

How important to you are the inner bond of employees with the company and a good working atmosphere? What do you do to promote employee satisfaction?

Heiko Winkler: A contented employee is willing to contribute by their conduct to the well-being of the company. We focus strongly on the personal responsibility of our employees if, for example, we allow private use of the Internet on the company PC or smartphone. From the perspective of corporate security at Zeiss it depends on us being perceived as modern partners and competent advisers of the Zeiss sectors and all employees – put simply, as a "Businesses Enabler" and not as a hindrance.

Thank you for your frank interview and we wish you continued success with your important work.

Dipl.-Verw. Heiner Jerofsky, Detective Chief Superintendent (retired)

No Loss Recording

Dallmeier ensures loss-free recording, even in the case of a network failure, with the 'Edge Storage for Emergency Recording with Smart Backfill' function. All the manufacturer's current IP cameras are equipped with a RAM. If the network drops out or becomes overloaded, or if the recording system has to be rebooted, this internal storage is used to bridge the period when the network is unavailable without loss of data. When the network is restored, Smart Backfill ensures that the recordings stored in the RAM are transmitted rapidly to the Smavia appliance. This saves the data at high speed and fills the recording gap. Afterwards, the stream recording is continued seamlessly and without loss. If long network outages are expected, for example due to maintenance or repair work, the internal memory in the company's network cameras can be expanded via the integral interface, SDHC or USB, depending on the model.

www.dallmeier.com

Access Control Terminal Upgrade Supports HID Iclass SE

Suprema's access control terminal has embedded HID Global's Iclass SE smart card technology as well as enhancements for Felica IC cards, which are most widely used in Japan and the region. The Bioentry W combines the benefits of an IP access control system with high-level security provided by fingerprint biometrics. It is an outdoor fingerprint terminals for access control systems with extensive communication interfaces and Power over Ethernet capability. Featuring a vandal-resistance and IP65 rated structure, the terminal is designed for outdoor installation while offering exceptional durability in harsh environments.

www.supremainc.com

Free Plug-In

Optex has released free plug-in software that integrates Redwall IP sensors with the Axis Camera Application Protocol (ACAP) found in their latest cameras. This integration enables the sensors to talk directly to IP cameras and instruct them to move to preset scenes and send an alarm event if intruders are detected. Such ACAP enabled PTZ cameras can manage up to three IP sensors. This integration allows Axis camera users to implement Redwall IP intrusion detection systems with VMS platforms that have not yet integrated the event code.

www.optex-europe.com

1.3MP WDR Covert IP Camera Series

Hikvision has introduced its DS-2CD64 miniature IP camera series. This provides both flexibility and ease of installation in areas of very limited space and finds discreet surveillance applications such as at ATMs, in access control and upscale retail locations, among others. The DS-2CD64 series covert camera is designed with the booming vertical HD IP surveillance market concept in mind. It consists of a palm-sized main unit and thumb-sized lens unit, allowing the camera to easily blend into a variety of environments where space may be an issue, or where an intrusive-looking conventional camera adversely affects the desired environment of the location. It is the first of its type to incorporate true 120dB WDR as well as other powerful image processing functionalities like 3D DNR and BLC. On-board storage of up to 64GB serves as a backup in case of network disconnection.

www.hikvision.com

Four Network Cameras

Two professional outdoor domes, FD8355EHV and FD8365EHV, and two professional outdoor bullets, IP8355EH and IP8365EH, which are all designed with wide dynamic range WDR Pro and WDR Pro II technology, have been launched by Vivotek. They are able to clearly capture detailed features whenever a subject of interest appears in locations where there is intense backlighting or when the subject is directly in front of a source of artificial illumination at night. WDR Pro enables a camera to capture both the dark and bright parts of an image with two or three shutters, enabling two or three frames to be combined to generate a highly realistic image representative of the original scene, while WDR Pro II enables the camera to provide an increased level of visibility with the capture and combination of four separate frames. These models are suitable for use in environments from –50°C to +50°C and feature Smart IR technology to instantly adjust the IR lighting intensity based on the lighting level of a scene, preventing overexposure.

www.vivotek.com

Hotel Manager Robert Petrović (left) and Abus Partner Jörg Held responsible for security

Business leaders, state presidents and major stars from the world of show business number among the discerning guests of a modern luxury hotel such as The Ritz-Carlton, Berlin. Therefore, in addition to the best possible service and amenities of a centrally located luxury hotel, the Ritz-Carlton also provides its guests with a higher standard of security and it is in this area that the Abus video surveillance system makes a vital contribution.

COVER STORY

VIP – Video for Important Persons

Abus Provides Video Surveillance Security for The Ritz-Carlton, Berlin

The Ritz-Carlton, Berlin, located on the Potsdamer Platz, is considered to be one of the most luxurious hotels in Germany with one of the highest levels of security. The luxury hotel was opened in 2004. With its central location in the heart of Germany's capital, its distinctive architecture and 303 exclusively furnished rooms, including 40 suites as well as The Ritz-Carlton Apartment, the hotel attracts a clientèle for whom style, service and discretion are of the utmost importance. On a regular basis, prominent business leaders, politicians and international stars from the world of music and film number among the hotel's guests, together with those who favor a high quality hotel experience. An inconspicuous yet highly-efficient security concept ensures that, even during visits from state presidents, the hotel continues to operate normally and without disruption.

Thanks to the additional electronic 'eyes', very little which is out of the ordinary escapes the attention of the vigilant security staff. "At The Ritz-Carlton, the security of our guests is a top priority – the video surveillance enables us to provide the high degree of security required", explains Robert Petrović, General Manager at the Ritz-Carlton, Berlin, since 2009. He adds, "The video surveillance monitors all the important public areas for us, such as spa, lobby, banqueting area, emergency exits, garage etc."

Complex Yet Simple

Due to the high level of security required, the existing analog video surveillance system was ready for extensive modernization in October 2012. Robert Petrović had clear and precise ide-

as about what ought to be achievable through the video surveillance system: The analog technology was to be gradually converted to the HD standard. The operation of the system was to be as simple as possible, despite the complexity of the video surveillance functions needed. Further items on the manager's list of priorities were the option to later extend the video surveillance as well as a good price-performance ratio.

The Berlin-based company BTV Systemhaus won the contract when the modernization was put out to tender. The proven ability of the 20 strong team, led by Managing Director Jörg Held, together with the technology proposed clinched the deal. As well as modern IP cameras for both internal and external use, two powerful HDVR digital video recorders were included in the proposal. The highlight: as an option, the HDVR recorders are able to simultaneously process signals from IP, HD-SDI and analog cameras, depending on the application and requirements. "Given the large number of cameras here in The Ritz-Carlton, some other manufacturers would have required four recorders, and sometimes more – by contrast Abus only requires two HDVR machines", said Jörg Held, when asked to comment on the performance of the system.

Old And New Together

Intuitive operation is vital for the efficiency of the new video surveillance system. The company's integrated video management software, made in Germany, ensures that the video image data created are managed quickly and easily. It also enables remote access, independent of location, via mobile devices such as smartphones or tablet computers. Cameras and recorders can be viewed on a clearly designed user interface and moved using the familiar drag and drop. Switching between individual live images and playback is achieved through the use of commonly recognized symbols as found on digital cameras and video recorders. "After checking different proposals against the security standards we required, this system met all our relevant criteria", said Robert Petrović in justifying his decision to opt for the Abus solution.

The intention of the BTV Systemhaus plan was to initially replace only those analog cameras which were in need of replacement with IP cameras and to continue operating existing cameras which were in good working order. This meant that a significant number of Abus IP cameras were installed at the outset. Both HDVRs were configured in line with security staff requirements: one recorder records analog camera images; the second captures image material from both analog and IP cameras.

Installation Within a Week

"Following a thorough on-site inspection by a two-person installation team, the HDVR recorders were configured and all existing analog cameras as well as the new IP cameras were then gradually connected up to these", commented Jörg Held as he recalled the installation process. Working together with an Abus programmer, it was possible to integrate existing PTZ cameras already in place into the new system and to retain their full range of functions. "We just had to lay new network cables for the new IP cameras. The existing cable network is still used for the analog cameras", explained Jörg Held, a graduate telecommunications engineer. The entire installation took about a week and the hotel has been secured by round the clock by Abus video surveillance since November 2012.

And how does the video surveillance system now function one year after completion? "The system helps to detect incidents and clarify issues in the course of day-to-day business. I would prefer not to mention specifics here, but just to say that the video system is a great support for our security staff", commented the hotel's General Manager Robert Petrović, with his usual discretion.

HDVR: One Reason why Ritz-Carlton was equipped with ABUS

HDVR – high-end video surveillance recorder with Tribrid technology

For the first time, the HDVR 3.0 video surveillance recorder from Abus supports simultaneous analog, IP as well as HD-SDI cameras all in one system. This allows the customer to benefit from all the advantages of the latest in video surveillance without having to commit to a certain type of technology. With the aid of a specially developed online configurator, the HDVR can be customized to individual project requirements using one of more than 250 configurations to choose from allowing set-up in just a few steps. The new high-end video surveillance recorder from Abus merges the very latest technology with maximum versatility. As a Tribrid video recorder, it can process analog, IP and HD-SDI signals, which are the latest trend in the video surveillance sector.

It can do everything: one device for analog, IP and HD-SDI cameras

The full system version of the Abus HDVR provides up to 64 analog channels, or 24 IP channels, or 16 HD-SDI channels. For example, up to 64 different analog cameras can be combined, or alternatively 16 IP cameras can be combined with 32 analog cameras – depending on requirements and the intended use. The freely selectable system configuration, which does not depend on the respective camera technology, allows just one ONVIF-compatible HDVR to replace several conventional stand-alone recorder systems. The HD resolution provided on all channels means only around one-fifth of the number of cameras is required when standard VGA technology is used.

The latest recorder architecture with an Intel Core i7 processor

The Abus HDVR is designed for uninterrupted professional use. Long-life industrial components, innovative cooling management and continuous fault monitoring ensure recording goes smoothly right around the clock. The latest generation of Intel Core i7 processors in the Abus HDVR keeps things in sync. Thanks to the outstanding efficiency of these high-end processors, compute-intensive IP video signals can be processed at the highest of speeds and with the highest level of security. Real-time HD recording using a maximum number of channels places high demands on the storage capacity. This is why the HDVR features a memory capacity of up to 8 TB, which is accomplished using 4 hard drives each with a 2 TB capacity. If less storage capacity is required, fewer hard drives are configured – unoccupied HDD slots can be retrofitted when required. Security levels RAID 1, 5 or 10 are available for selection.

Video Management Software VMS 7.5 sets standards

The integrated ONVIF-compatible Abus video management software VMS 7.5 – Made in Germany – earns points with its high security standards while remaining user-friendly. Remote access to extensions has already been integrated as a feature. Top system stability in 24-hour usage and flexible extensibility for cameras and memory space ensure the system is equipped for future requirements and protect your investment optimally.

Custom-made in Germany

Using the free-of-charge online tool, the HDVR Configurator, installers can put together their own individual HDVR to satisfy the requirements the device is needed for. Using the basic HDVR version as a starting point, the installer can decide which hardware components are most important, such as video surveillance cards, hard drives, and RAID configuration. The custom-made recorder will be assembled by hand in Germany from over 250 potential combinations within a few days.

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Software and 98 cameras now look after security and general safety

VIDEO SURVEILLANCE

Lifesaving Software

Safety at the Port with a Video Management Solution from Seetec

Altaş Ambarlı is the largest port of Turkey and an important hub between the Black Sea region and the Far East. The Kumport terminal, which is located near Istanbul on the European side of the Bosphorus, is an active part of the port since 1994. Thanks to its steadily rising turnover and simultaneous investments in human resources and technology, it has become one of the most modern terminals in Turkey. Kumport currently transhipps an annual volume of more than 1,700,000 TEU and a further increase is expected. An analog video surveillance system which had already been operating since its official certification in 2004 proved not to be sufficient and had to be extended.

The port management engaged itself to follow the guidelines of the "International Ship and Port Facility Security Code" (ISPS Code) to achieve international conformity certification. Amongst other things, this code of practice demands the continuous surveillance of the entire port area in order to prevent accidents and to minimize safety hazards. Not an easy task for a huge area which houses cargo ships from all over the world and is frequented by hundreds of people each day. To be able to respond quickly to events, a flexible video management solution which actively informs about potential safety hazards is essential.

The port management put the following requirements on any new technology: with a further piece of software, the work of the security personnel on site should not be made more difficult but rather the load should be taken off the staff by intuitive and simple operation. Additionally, accessibility via various – also mobile – platforms such as smartphones was an important point. Archive material should be usable for the examination of past incidents, so a considerable storage volume would be required for this purpose. If the complex is enlarged at some future point, the security solution should be able to grow without any problems. Kumport decided

to implement an IP-based system. In 2012 the port management engaged BES Technology as their partner who undertook the implementation of the project. SeeTec was brought on board as a software specialist on their recommendation. The serious and flexible approach of the German software manufacturer convinced both the client and partner.

Large Storage

All the requirements could be met by using the SeeTec Multi Solution Platform. Its unique system approach serves individual customer wishes and provides perfectly adapted solutions that meet the user's needs. The pivotal point of the solution is the Seetec core software. As a modular toolkit, this platform also provides a number of additional modules and interfaces to third party systems such as access control solutions or burglar alarm systems. Such systems can thus be adapted to meet new requirements (the number of cameras, additional features) at any time. SeeTec's local branch and the support hotline available in the national language have certainly helped customer satisfaction.

48 out of 56 legacy cameras were replaced by IP cameras. Currently the system contains 98 cameras in total. These are positioned at strategically important points such as the port access road, building entrances and ship berths. The recordings are stored on a server which has a storage capacity of 35TB to be able to recall the recorded footage for as long as possible. The video recordings are viewed and evaluated in three operations centers. Two of these are located in the administration building – in the security department and at the port management – and one in the Gümrüklü Warehouse Area. Six users have access to the recordings, including four safety experts, the management board and the warehouse manager.

Multi-Platform Clients

In addition to the Enterprise Clients included in the package, the Web Client and the Mobile Client for iPhone, iPad and Android are also widely employed at Kumport. The Web Client is used to access the SeeTec system from any PC without prior software installation. As the security personnel are constantly in action it is possible to alert them underway in case of emergency.

With 16 client licenses, the port is optimally equipped for their current needs but the system can also be easily adapted to accommodate further development of the port. Six of the licenses mentioned only have limited rights. In this case, this means that a previously defined group of users is able to view the camera recordings but not to edit or export them. This ensures the confidentiality of sensitive video data.

Serkan Şimşek, IT Deputy Manager and Project Director at Kumport, is extremely satisfied with the solution: "SeeTec has provided us with its simple management option that allows integration and usage of a great number of cameras. We are following the development of new software versions with interest to be able to upgrade our facilities further in future. The new system eases the workload of our security personnel and ensures more precise results. SeeTec has more than met our expectations and we are very pleased to continue our collaboration with them."

▶ CONTACT

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VIDEO SURVEILLANCE

Capital Business

Samsung Techwin Video Surveillance Solution Specified for Moscow Business Center

Paveletskaya Plaza, which is constructed in the same architectural style as the adjacent railway station, comprises two 12 storey and one 27 storey towers. Together the buildings offer 65,000 m² of office accommodation fully fitted with the most modern technologies to provide tenants with comfortable and stress-free working conditions. On site there are also several bank branches, a translation bureau, a printing center and a travel agency as well as shops, boutiques and restaurants for the benefit of office staff and visitors. Samsung Techwin cameras are at the heart of a network video surveillance system installed at the prestigious Paveletskaya Plaza business center in Moscow.

Despite tough worldwide trading conditions, Russia is enjoying strong growth in its economy and this is reflected in the increasing demand for office accommodation from international organizations, as well as locally-based businesses in Moscow. Developers have responded to the shortfall in the availability of high quality commercial space with a dramatic acceleration in the number of building projects. By the end of 2014, Russia's capital is expected to be able to boast four of the five tallest buildings in Europe, whilst many prestigious projects have already been completed.

Electronic security and network specialists Yecons Technology Solutions, who were awarded the contract to install the video surveillance system, said: "It is perhaps not surprising that there was no shortage of installation companies keen to be invited to tender for this very important project," said Yusuf Yesilova, General Director of the Moscow based company. "However, although it was a very price competitive tendering process, the owners of Paveletskaya Plaza, Enka, made it clear from the outset that there should be no compromise in respect of the coverage and quality of the video surveillance solution."

Single Source

Having already successfully installed Samsung Techwin professional video surveillance equipments at a number of other large projects, it gave Yecons the confidence to single source all the required components of the video surveillance system from one of the fastest growing electronic security manufacturers in Russia. Working closely with the manufacturer's locally based pre-sales support team, the Yecons engineering design team took a close look at every location where a camera needed to be installed and subsequently recommended what their research had led them to believe was the best model for what it was expected to do. As a result of that, 228 cameras together with Samsung Techwin network video recorders and monitors have been installed to enable security personnel to monitor all activity within the Paveletskaya Plaza buildings and the surrounding areas 24/7.

"At certain locations, where positive identification of unwanted visitors needed to be achieved, we recommended the installation of 3MB Full HD camera models that could deliver evidence grade images, as well as technically advanced features such as intelligent video analytics and face detection," said Yusuf Yesilova. "In the majority of locations however, 1.3 megapixel cameras were more than sufficient to capture high definition images of a quality which easily met the client's requirements. We were therefore able to deliver a competitively priced solution that took full advantage of Samsung Techwin's product portfolio that includes both extremely high specification cameras and models which, although competitively priced, deliver a high level of performance."

▲ Modern architecture in keeping with the surroundings

Contemporary internal architecture and security systems to match ▶

Analytics in Action

The cameras have been installed on all floors of the three buildings, as well as in elevators and at reception and parking areas. 124 of the 228 cameras are SND-5010s. Measuring just 100 x 115 x 42 mm and part of the Litenet camera series, these Onvif compliant 1.3 megapixel cameras are designed to provide an affordable HD video surveillance solution for environments where there may be limited space. There are also 89 SNB-5000 cameras which are equipped with built-in license-free intelligent video analytics capability, which includes a scene change tampering function as well as optical tripwire, enter/exit direction detection and an appear/disappear function to detect the movement of objects. Of the remaining cameras, eight are SNB-6004s and seven are SNB-7080s. With the ability to capture superb quality 2MP Full HD (1080P) images, the SNB-6004 is part of Samsung Techwin's popular Wisenet III camera range, whilst the SND-7080 is a 3 megapixel Full HD network dome camera with 3-8mm motorized vari-focal lens.

Images from all the cameras are transmitted over a LAN to a central control room where they are monitored live 24/7 by Paveletskaya Plaza operators who are able to direct patrolling security personnel to the precise location where an incident or suspicious activity may be taking place. At the same time the images are recorded onto one of eight SRN-1000 NVRs which are able to work in harmony to provide a seamless server style video recording solution. Each recorder provides up to 24TB of on-board video storage capacity with the potential of an additional 24TB of storage via two external e-SATA direct storage devices. It also features support for Raid 5 storage.

"The video surveillance system plays a crucial role ensuring that our tenants can go about their daily work activities in a secure environment and that their staff, visitors and customers feel safe whilst taking advantage of Paveletskaya Plaza's facilities," said Zihni Coskun, Facility Management Director of Enka. "The partnership between installer and manufacturer has been a great success. It has resulted in a system that is working extremely well and the feedback from our operators is that it is highly reliable and easy to use."

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BRANCH FOCUS PRODUCTION SITES

DIY Video Security

Thirty Electronic Eyes for Security at the New Unox Cadoneghe Headquarters

Unox, a leading company in the production of professional ovens, recently relocated and expanded its offices and production plant. The new facilities needed a suitable video surveillance system to ensure security, especially during the night when personnel would not be on site. The system had to meet certain quality requirements for video images and provide a good return on investment.

Established in 1990, Unox is a leader in the production of professional ovens, a dynamic company that has become a major supplier to the hotel, retail chain, fast-food multinational, patisserie and frozen food producer sectors. Despite the crisis, Unox is growing rapidly both in Italy and abroad, so much so that in the last four years it has doubled sales and increased staff. The headquarters and plant were recently relocated to Cadoneghe, in the Province of Padua, and expanded, adding a further 150,000 sq. ft. (13,935 m²) to give a total of over 320,000 sq. ft. (29,730 m²) as well as being provided with a highly advanced and reliable IT infrastructure.

Given the importance it has in a company that has made innovation and R&D the main ingredients of its business, the setting up of an IT infrastructure was given the utmost attention right from the design phase. The existence of network cabling facilitated the choice of IP cameras, with preference going to those designed by Axis, already known to the client for their reliability and effectiveness. A total of thirty indoor and outdoor network cameras were installed, fully assigned to perimeter surveillance and with

A static night watchman

A dome camera discreetly keeping an eye on the proceedings

all video streams being managed by Axis Camera Station software.

Intelligent Eyes

An IP-based video surveillance system was set up for plant security using cameras linked to Axis Camera Station video management software, optimizing the investment in infrastructure. Altogether thirty cameras were installed, comprising twenty fixed-dome outdoor and ten indoor units, including three Axis P5534 PTZ network cameras. The latter, in addition to panning 360° via the so-called Auto-flip function, which allows the camera to simulate continuous panning beyond the mechanical stop, also incorporates the advanced gatekeeper function that automatically pans, tilts and zooms in when a movement is detected, and then automatically zooms out again after a preset time.

All of the cameras are assigned to perimeter surveillance during the night when personnel are not in attendance; they are timer activated and enable high-quality images to be captured even in poor lighting conditions. The monitoring of the video streams, currently handled by company personnel, will shortly be handed over to a private security company that, in the event of an alarm, will promptly take action to check the situation on the spot.

Unox believed in the potential of virtual environments right from the beginning and this has allowed the system integrator, Lan & Wan Solutions, to develop specific systemic services on both the data center front and that of networking infrastructure, also for video surveillance support. The system fully meets the client's requirements. In addition to significant cost savings derived from optimization of the existing IT infrastructure, Axis network cameras provide excellent image quality and automatic video software updates that continually improve their functionality. Andrea Bettiato, IT network manager at Unox, said "We are completely satisfied with the installed system. We already knew about the quality and effectiveness of Axis network cameras from those we had previously used in other plants and we can confirm that they fully meet our needs, in addition to the fact that we have never had any problems with them."

Added Functionality

In the near future, the surveillance system might be extended with additional Axis cameras to monitor the loading bay and to track outgoing goods. By taking a snapshot when a truck passes by, the camera will allow retrospective checking of possible loading errors.

"It's rare to find a client's technical staff so well trained and qualified. In this specific project, more than anything else, our support was in pre-sales consultancy and identifying which products to use, with the client carrying out the installation in complete autonomy after delivery of the equipment", stated Luigi Pedrotta, General Manager, Lan & Wan Solutions.

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VIDEO SURVEILLANCE

Two into One

Geutebruck Video Supports Automated Management and Security in Zurich Car Parks

The Parking Zürich company operates six car parks in and around Zurich in Switzerland. Recently it equipped two of its facilities, "Hohe Promenade" and "Hauptbahnhof" (Central Station), with a Geutebruck virtualized video system. The installer, abaleo, integrated it with a Commend intercom system and a Scheidt and Bachmann parking system to provide comprehensive automated parking management.

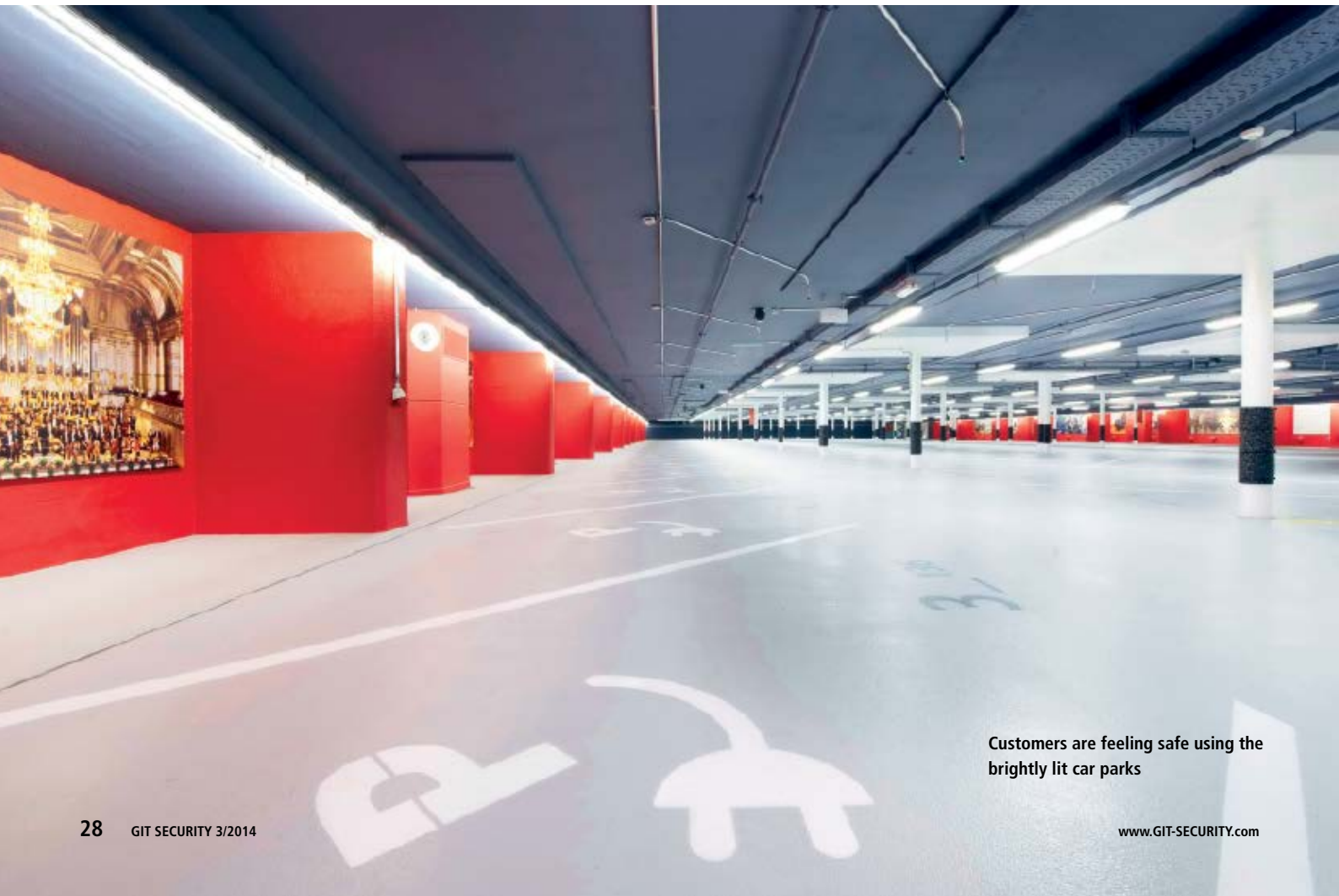
The popular Hohe Promenade car park near the old town is a five-storey underground parking facility with 500-plus parking spaces. It has a pedestrian tunnel connection to Stadelhofen railway station and a 24-hour control center at its main pedestrian entrance. The multi-storey Hauptbahnhof parking deck is frequented around the clock by rail users as well as by those dropping off or collecting passengers at the nearby long-distance coach terminus.

A direct link between the two sites enables the video system to be run from both control centers, independently and in parallel, while giving each full access to the other's systems whenever required. This provides flexibility in deploying staff as well as enabling perfect teamwork.

The full HD monitoring solution runs on five Geutebruck virtual servers on the Hohe Promenade site. The use of the company's optimized compression process and its fully compatible IP cameras ensure that all switching happens instantly and without delays or lost frames – for example when cameras make automatic quality changes in response to detected events. In the Hohe Promenade car park, around 40 of its 100 cameras are paired up with emergency call points. Most recordings are event-controlled by the cameras' motion sensors. This minimizes both the volume of streamed data and the human attention demanded. Image data is stored for different durations depending on the type of incident involved.

Visual Proof

The Equallogic storage system holds image data from both car parks and gives very fast access to recorded footage. For Parking Zürich, this system configuration is a stepping stone en route to eventually having two completely redundant systems. The system assists in resolving a wide variety of typical parking issues. It immediately



Customers are feeling safe using the brightly lit car parks

The Swiss company Parking Zürich equipped its facilities with a Geutebruck virtualized video system

The video system alerts staff to any barrier malfunction, provides unambiguous proof of misdemeanors, vandalism and fraud, and drastically reduces the time involved in incident investigation

alerts staff to any barrier malfunction, provides unambiguous proof of misdemeanors, vandalism and fraud, and drastically reduces the time involved in incident investigation.

A typical example might be if someone tries a parking fiddle which involves taking a car park ticket without actually driving into the car park, the system generates a so-called "back-out" ticket, with associated alarm and relevant recordings. Any later claim that there was a pay station malfunction can be disproved using the ticket number to bring up the relevant footage. Fraudulent damage claims are countered by automatically documenting the condition of each vehicle as tickets are issued. The event dataset with relevant images and vehicle license number makes it easy to check the validity of any subsequent claim for damage.

Besides making customers feel safe, the new system sometimes even saves them money. Using the vehicle registration number, staff can replace a lost ticket with an accurate duplicate so that the customer only pays what's due and not a much higher full-daily rate. Now that this system has proved its worth on two sites, Parking Zürich is hoping to introduce similar solutions at other facilities.

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ACCESS CONTROL

The Daily Dairy

Honeydew Dairies Selects CEM Access Control System

Established in 1994, Honeydew Dairies has grown from a small dairy farm to a large dairy producer with depots throughout the region and a fleet of 80 transport vehicles. CEM Systems, part of Tyco Security Products, has announced that Honeydew Dairies has selected their AC2000 Lite security management system to secure its Nottingham Road factory and warehousing facilities in the Kwazulu Natal region of South Africa.

"We immediately chose CEM access control as the best overall solution for the job" said Alistair Mingay, Managing Director of Brandfin Trade, the installers. "The AC2000 Lite system was selected as it not only offers integrated biometric security for staff and visitors but also gives us the capability to integrate with future time and attendance systems."

The system installed at Honeydew Dairies includes the S610f fingerprint reader. This has been installed at turnstiles on site to provide biometric access control at the pedestrian entrances to the site. The S610f is an intelligent IP card reader and offers three levels of security: card, PIN and biometric. Integrating all three methods into one device eliminates the need for a separate biometric system as fingerprint templates are captured at the same time as the other cardholder details are enrolled onto the AC2000 system. The S610f reader thereby provides multiple layers of access control at the factory.

"The AC2000 Lite is an ideal solution for Honeydew Dairies" said Andrew Fulton, Director of Global Sales, CEM Systems. "Not only is it easy to install but it is also affordable and provides a range of software features and functionality such as ID badging and central alarm monitoring to enhance site operations on a daily basis".

Function Modules

The system at Honeydew Dairies utilizes some of the available software modules such as VIPPS (Visual Imaging and Pass Production System), which allows the factory's own security staff to produce color coded passes and access rights for administrative, warehouse and factory staff as well as day visitors. The T&A (Time and Attendance) module has also been installed to provide easy-to-read reports of employee IN and OUT times. Using the AED (Alarm Event Display) module, the Honeydew Dairies management team has a graphical display showing all access control points and activity on the system. This real time display alerts personnel when a controlled goods door is opened and allows them to stop unauthorized exit or entry.

Alongside the AC2000 system, Brandfin also installed automated gates for vehicle access as well as various turnstiles to control access into the different zones of the factory. Vehicular access is monitored by a mixture of PTZ (Pan Tilt Zoom) and fixed video cameras which integrate with the factory control room to allow or deny access to arriving vehicles.

The installation at Honeydew Dairies was carried out by CEM Installer, Brandfin Trade who were selected for the job because of their wealth of experience in supporting IT as well as cameras, access control, integration and control room monitoring systems. Brandfin Trade was aided in the installation of the Honeydew system and have proven competency in the CEM AC2000 product range through certified training at the CEM head office.

▶ CONTACT

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Modular Video Analytics Package

Realtime Intelligent Video Analytics is an intelligent 3D-video analytic system which is already integrated in all RIVA cameras and encoders as a standard feature. The basic VCA Presence version continually tracks moving and stationary objects and persons and generates real-time alerts. A self-learning algorithm automatically adapts to environmental changes, ignores light changes due to cloud formation, artificial light and auto-iris camera operation as well as swaying trees or rippling water. Camera tampering is also detected. An intuitive 3D graphic interface enables the video analytics to be set up quickly, tracking up to 100 targets with up to 40 detection zones per camera. Additional VCA packages for special applications as well as several individual analytic filters can be purchased, tailoring a system to the location's specific needs. **www.vidicore.com**

Lighting Provides Flood Warnings

After the devastating flooding in the UK, security systems are now being deployed to minimize future damage and to provide an early warning system to residents. Infrared LED lighting specialists Raytec, Mobotix and Farson Digital Watercams are three companies who have teamed up to provide a system to monitor river conditions in the UK. The nationwide HD camera network provides real-time video feeds of multiple river sites. The Vario holographic lens technology provides even light distribution, allowing the camera to operate 24/7 and provide clear, sharp and detailed images of the scene at night, with zero light pollution. The illuminators have a long ten year life, an extremely low power consumption and low running costs. They also require zero maintenance.

www.raytecctv.com

PTZ Camera Now in Full HD

The Videotec Ulisse Compact HD is an IP66 Full HD network PTZ camera that provides high-definition video quality. The day/night camera for high image quality in low light conditions incorporates a 20x optical zoom lens and is able to accurately identify specific details of a scene. The flexible operator control of pan/tilt/zoom functions allows image transmission over Ethernet with H.264/AVC and MJPEG compression, certified ONVIF, Profile S. The unit can deliver from two to four H.264/AVC or MJPEG streams simultaneously, up to a total of 20Mbits depending on the unit configuration. An optional integrated LED bank provides the necessary illumination. A built-in wiper ensures the images are always perfectly clear; a wide choice of washer kits is available.

www.videotec.com

EN Grade 3 Curtain Detector Launched

Bosch Security Systems completes its range of professional grade motion detectors with the Tritech + Curtain Detector with anti-mask function. Two versions are available: the 'ISC-PDL1-WAC30H' for France and the UK and the 'ISC-PDL1-WAC30G' for other European, Middle East and African markets. This unit is ideal for monitoring long, narrow interior spaces such as hallways, storefronts, loading docks or storage aisles, with dip switch selection between two coverage areas: 30x2.6 meters or 8x1 meters. The company's sensor data fusion signal processing combines passive infrared (PIR) and ultra-low power microwave Doppler radar with multiple built-in environmental sensors to ensure reliable motion detector performance. It is certified by an accredited lab to EN50131-2-4 Grade 3, making it suitable for high security applications such as banks, jewelry stores, or warehouses. **www.boschsecurity.com**

4K HDTV Network Camera

The Axis P1428-E Network Camera is the top-of-the-range model in the compact P14 Series with features such as remote zoom and focus, a built-in slot for micro SD/SDHC/SDXC memory cards and I/O connectors for interfacing with external devices. With 4K technology, it offers HDTV standards and a resolution of 3,840x2,160 pixels, four times higher than HDTV 1,080p, at 30 frames per second. It is ideal for overlooking large areas like parking lots and public squares while also being able to capture fine details. 4K makes it possible to enhance any portion of the screen without losing details. To manage bandwidth consumption, users can view the live video stream in HD 1,080p and take advantage of 4K recordings for forensic purposes. The camera is designed for outdoor and demanding indoor environments. **www.axis.com**

64-Channel Network Video Recorder

The SRN-4000 from Samsung Techwin is able to simultaneously record and multi-stream the transmission of images at a high bandwidth speed of 400Mbps. It also offers the potential to record and store, via twelve internal hard drives, video captured by 64x2 Megapixel cameras for up to 108 days or up to 43 days for the same number of 5 Megapixel cameras. As well as the full range of the company's own IP network cameras, this NVR also supports other manufacturers' cameras that are ONVIF compliant. The twelve internal hot-swappable hard drives support RAID5 and RAID6 recording, which provides protection against unrecoverable read errors as well as whole HDD failure. It also features an iSCSI interface, giving users access to very large storage devices, if required.

www.samsungsecuriy.com

All public areas come under surveillance

VIDEO SURVEILLANCE

IP Olé!

Barcelona Shopping Mall Upgrades with a Dahua IP Megapixel Solution

Heron City shopping mall is one of the biggest shopping centers in Barcelona, Spain. The mall is home to many street-popular brands as well as a wide range of restaurants and a big underground supermarket. Like any place where large crowds of people gather, shopping malls are susceptible to criminal activity. As a local popular shopping center, Heron had its existing analog surveillance system but required an updated HD solution that offered high definition, fast transmission, versatile video management and more.

However, a large portion of today's Spanish market is still de facto analog-based and people are not yet familiar with IP solutions, as network setup is not as easy as for analog systems. Dahua's local distributor in Spain, Iptecno Videovigilancia, and Working Security, a local system integrator, persuaded the mall executives to embrace IP technology and a Dahua IP system was finally chosen after rounds of competition.

The team made a reconnaissance mission to find out where to best deploy cameras before implementation as their strategic placement could effectively prevent thefts, deter crimes as well as increase customer safety. The mall executives took not only product performance but also camera design, disk capacity, ease of use, maintenance and other factors into account. Dahua's SD6982A-HN, SD6582A-HN, 2-megapixel IR bullet IPC-HFW3200SP and 2-megapixel eyeball dome IPC-HDW2100P cameras and the NVR models NVR5832 and NVR5208-P were selected for the job. These have the features to meet the needs of both indoor and outdoor usage in public open areas, entrances and exits, at cashier's desks in stores and parking lots and are also vandal-proof to resist any malicious damage attempts.

The 2-megapixel speed dome is built around Dahua's in-house block camera that renders clear and crisp images and its IR distance reaches up to 100 meters. This ensures wide range vision under poor-lighting conditions. The PoE NVR that has been installed supports 8-channel 1080P playback. It also supports dual-stream recording, which is the recording of the real-time main stream and the extra stream of all IP cameras at the same time.

Every corner is covered

Vandal-resistant cameras are essential

Expecting the Churn

"IP business is growing slowly in Spain because of the economic turmoil," said Jordi Bassa, General Manager of Iptecno Videovigilancia. "It is important to have an IP system at a competitive price and Dahua has the kind of products which meet the market demands. With the implementation of this project we do hope it will lead us to become a successful IP system provider." Jaime González from Working Security added: "We are happy to be involved in this project and expect to have further cooperation with Dahua and Iptecno to install and commission more HD IP projects in Spain."

"I learned from Iptecno that there are many public places using conventional systems in Spain," said Elmer Zhang, Sales Director for Europe at Dahua Technology. "This offers great potential for IP and, in this project in particular, the end-user experiences the benefits from IP. We are also enhancing our cooperation and trust with Iptecno to better provide the right IP solution and services for the Spanish market."

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www.seetec.eu

SeeTec

BRANCH FOCUS HOTELS

Risk-Free Gambling

A Dallmeier Video Surveillance Solution for a Mixed Environment

The Mardi Gras Casino & Resort is located only minutes from picturesque Cross Lanes in Charleston, West Virginia. As the name says, the entire casino runs under the "carnival and Mardi Gras" theme and on 90,000 square feet (over 8,000 m²) of floor space, passionate gamblers will find over 1,200 slot machines, 24 poker tables and 31 gaming tables with Blackjack, Roulette, craps and more. The various restaurants and bars have something to suit every taste, from quick snacks between games to luxurious gourmet dinners. And anyone looking for relaxation after a long, exciting night in the casino can rest in one of the 150 deluxe rooms and suites of the elegant Mardi Gras West Virginia Hotel. The very special highlight is a dog racetrack on which several live races with first-class greyhounds take place every week. In short: it is a huge facility that has to be reliably monitored to guarantee the guests' safety at all times.

The video surveillance system in use at the Mardi Gras Casino & Resort, which was supplied by Dallmeier, represents cutting-edge technology. The video specialists together with their national systems integrator North American Video (NAV) were responsible for the planning and installation of the CCTV system and specified a modern IP system with high-resolution HD cameras into which the existing analog fixed and PTZ cameras could be smoothly integrated. The cameras cover not only the different casino and hotel areas, but also the dog track.

"The unusually high image quality and attention to detail provided by the cameras even under the difficult lighting conditions of the casino area was one of our main reasons for selecting Dallmeier products," explained Chris Batog, Surveillance Director. Fixed dome cameras and movable PTZ cameras from the Domera series are installed in the casino. These are modular, high-speed PTZ, high-resolution network cameras with 10x optical zoom and auto-focus that supply full high-definition video with 30 fps up to 1080p.

Large But Intuitive

The images taken by the surveillance cameras are recorded on several servers of the DMX 2400 Smatrix model, a video IP appliance with up to 24 video channels and an integrated storage system with up to eight hard disks. The low power requirement of max. 125W makes substantial savings in energy costs possible for the casino. It also allows for multicast audio and video streaming through the Semsy III video management system which provides easy management of different video and audio streams and their live presentation and recording at any point in a linked system. Employees can easily and intuitively operate the complete video system via the graphic user interfaces into which the site maps of the Mardi Gras Casino & Resort have been integrated.

An additional advantage of the system is its scalability – Semsy can be expanded as needed and is flexible, for example to integrate additional cameras or monitors into the network at a later date.

Since installing the system in September of 2011, the Dallmeier surveillance system has been operating to the complete satisfaction of the customer. Chris Batog confirms, "Not only was the support during the planning and installation phases exemplary, the after-sales care is fantastic too. Our contact person is always available to answer questions and provide updates."

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Megapixel Non-Endless PTZ Camera

JVC has demonstrated its VN-H557U Megapixel Non-Endless PTZ Camera with Super Lolux HD technology at ISC West. The camera delivers a useful combination of HD image quality, color reproduction and low light performance with day/night operation. The unit's two megapixel image sensor is augmented with a 10x optical zoom lens with a focal range of 6.3 to 63.3mm and 10x digital zoom to deliver a total 100x zoom capability. It combines optical imaging technologies with innovative internal processing. Super Lolux HD technology provides color sensitivity of only 0.4 lux enabling day/night operation in full color. The camera is estimated to deliver an average MTBF of 30,000 hours.

www.jvc.com

Improved VMS Functionality

The RC-P, RC-I, RC-C, RC-L and RC-E Ocularis recorders from Onssi can be combined into a single VMS/PSIM system and an NVR framework supports Axis ACC Camera NVRs. A patent pending critical camera failover function ensures that vital regions remain under surveillance. Access Control Framework provides integration with the A1001 Network Door Controller via the Entry Manager module and allows critical video and access control data to be displayed side-by-side on the platform, as opposed to viewing associated video with text overlays. There is audit logging to document the history of operator actions where required. **www.onssi.com**

32-Channel Network Video Recorder

The video surveillance specialist Abus has extended its existing range of network, HD-SDI and analog video surveillance devices with a 32-channel network video recorder (NVR). Recording and management of video streams can be done at up to 320Mbit/s (160Mbit/s in/160Mbit/s out). Four different visual signals indicate whether the NVR is recording, has an active schedule, is ready for operation or if there is a malfunction. Each of the camera selection buttons shows whether a camera is connected and if the channel is recording. Up to eight SATA HDDs can be connected and the company's own central monitoring software helps time management with centralized control of multiple sites. **www.abus.com**

Dome Camera Range Expanded with 3MP Model

With 2,048x1,536 pixels resolution, the Vicon Roughneck fixed dome camera offers high-definition surveillance and corresponding high video quality. The model range features a vandal-resistant, compact casing (IP66, IK10), specifically designed for indoor or outdoor applications in the hardest environments where discreet and compact solutions are required. The 3MP model supports day/night functionality for clear video even under low light conditions and wide dynamic range for better visibility of objects in dark and light areas of a scene. This dome camera is available in two versions, with and without IR LEDs. **www.vicon-security.com**

Customizable NVRs Availability Extended

Milestone's Husky series of network video recorders (NVR) will be available in Q2 2014 in EMEA and Q3 in Asia/Pacific regions. Systems can be customized for a single location flower shop or multi-site installation, with over 50 preconfigured options available. The M10 is a small fanless device for entry-level surveillance with up to eight cameras; the M30 is for workstations with comprehensive surveillance needs, supporting up to 20 cameras; the M50 is a feature-rich rack-mounted solution for advanced installations with sophisticated security needs and up to 80 cameras. All have automatic device discovery with configuration wizards. License keys are pre-activated. The open platform supports over 3,000 camera models from more than 100 manufacturers and is compatible with ONVIF and PSIA compliant devices. Third-party integrations add yet more features to the M30 and M50 models.

www.milestonesys.com

UTP/CAT5e Long Range Ethernet Adapter Kits

Altronix, a manufacturer of low voltage power supplies and transmission solutions for the electronic security industry, is introducing the Pace Long Range Ethernet Adapters. The 1PRMT makes it possible to upgrade surveillance and security systems with IP cameras and edge devices using existing or legacy infrastructure at distances greater than 100m (328ft) without repeaters. It is PoE/PoE+ compliant and transmits data at 100m bps full duplex over CAT5e or higher cable up to 500m (1,640ft), and up to 150m (500ft) over single twisted pair (UTP). "Deploying edge devices further from the head-end without compromising performance or having to use repeaters provides numerous installation, budgetary and security advantages," said Alan Forman, the company's President. **www.altronix.com**

Release 7.6 Enhances Controls, Scalability and Security

Additional functionality in Vidsys 7.6 provides enhanced functionality, increased operating efficiency and an expanded suite of product security tools and features. It provides more systemic user-defined flexibilities and a host of customization options that include detailed configuration tools, improved visual enhancements, variable settings and expanded search capabilities. Administrators have more granular options for setting and controlling password protocols. Operating efficiencies include expanded options for device controls and access privileges, enhanced scalability to handle massive spikes of data usage, core tools for reduction of server loads, advanced mapping capabilities for faster and higher refresh of screens and comprehensive device layering on maps for enhanced visualization for operators. **www.vidsys.com**

VIDEO SURVEILLANCE

Bathed in Safety

Hungarian Spa in Hajdúszoboszló Enhances Its Security with a Vivotek Surveillance Solution

Hajdúszoboszló, a small town in Hungary, has been well known for its thermal spring with healing powers since the 1920s. The Hungarospa offers a variety of facilities such as medical spas, open-air baths, aqua parks and an aqua-palace to international tourists. In order to create a safer and more comfortable environment for them, the management hired Satrax, a system integrator in Hungary and Vivotek local distributor Alphasonic in January 2013 to upgrade the surveillance system at HungaroSpa by installing 173 network cameras.

For the center of the swimming pool (a 50 m x 50 m area), Vivotek's innovative and award-winning Panoramic PTZ solution was installed. Incorporating the company's latest 5-Megapixel fisheye fixed dome network cameras and the most recently launched full HD speed dome network camera, the solution provides a 180° panoramic view or 360° surround view without blind spots. This makes it an ideal solution for monitoring open areas such as the swimming pool and its surroundings. Panoramic PTZ offers wide coverage and can be used to monitor elderly tourists and emergency situations.

A variety of other cameras were also installed; specifically the IP8332 was installed at entrances, outdoor swimming pools and indoor spa pools because of its day/night function, weatherproof casing and tamper detection features. IP8335H cameras, which feature an HD WDR CMOS sensor for use in challenging lighting conditions, were installed at outdoor swimming pools that also open at night. IP7361 cameras were installed at outdoor swimming pools, entrances and spa pools in the block. The latter is a high-end 2-megapixel network bullet camera with high resolution and a combination of outdoor-specific features such as concealed wiring to prevent tampering. Additionally, the auto-iris capability can protect the lens from damage by direct sunlight.

FD8136 cameras were installed at entrances and exits. As the world's smallest network fixed dome camera, this model has a megapixel sensor enabling a viewing resolution of 1280x800 at 30 fps. The FD8134, an easy-to-use fixed dome network camera specifically designed for indoor security applications, was installed in the entrances to the indoor dressing rooms (where the ceiling is about 2.6m high). IP8131 cameras were installed for the control center room where 2 operators constantly monitor the whole scene. These are compact cube cameras designed for indoor surveillance. Activities around the control center room, such as intrusion or vandalism, can be monitored.

Server Service

Operators can monitor live video while off-site by using Vivotek's iViewer, a smart phone application. The spa was already equipped with several analog cameras. However, as the requirement for security increased, a more advanced and comprehensive network surveillance system became necessary. Vivotek's VS8100 video server was therefore adopted to connect to the existing analog cameras, which the client wished to continue using, and performs the function of integrating these analog devices into the digital surveillance system. VAST, the central management software, was also implemented. It is designed to support hundreds of cameras and stations in a hierarchical system structure for easy and efficient monitoring, recording, playback and event trigger management.

Steve Ma, Vivotek's Executive VP commented, "We are proud to present an innovative panoramic PTZ to our clients. The entire surveillance network made possible by the advanced cameras and servers developed by our R&D team will guarantee 100% high-quality images for the spa management. We hope tourists from all around the world will be able to have safe and enjoyable vacations in this Vivotek-equipped environment."

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Updated Identity and Access Management Package

Over the last year, Quantum Secure, a provider of enterprise software to streamline physical identity and access management across multiple systems, has experienced rapid adoption of its Physical Identity & Access Management (PIAM) technology. The upgraded PIAM product suite, SAFE Version 4.8, delivers more functionality, further empowering organizations to manage and control their physical identities (employees, contractors and visitors) and their related physical access permissions within a risk-based paradigm. The PIAM product suite centrally manages physical identities and access across diverse physical and IT security systems, ensuring physical access governance and compliance.

www.quantumsecure.com

HD Perimeter Camera

Bosch Security Systems has introduced the DINION IP imager 9000 HD camera. This is especially designed for perimeter protection and the surveillance of critical infrastructures, such as power plants and water treatment facilities, which require robust and reliable IP video surveillance solutions that pro-actively guard the property's fences day and night, regardless of weather and lighting conditions. The camera has an extremely rugged design and built-in active infrared lighting to withstand harsh weather condition and penetrate darkness. It captures high levels of detail through the company's intelligent auto exposure feature, irrespective of disturbing backlight or front light, while keeping the network burden low by applying intelligent dynamic image noise reduction that significantly reduces the data bit rates and storage requirements.

ipp.boschsecurity.com

Two SDI Displays

A supplier of security and surveillance displays, AG Neovo has introduced the HX-32 and HX-42 1,920x1,080 Full HD, LED-backlit monitors. They come with SDI loop-through capability that ensures their delivery of images faithful to the original signals. Both displays support 3Gb/s, 1.5Gb/s HD, and SD SDI video input. Besides receiving megapixel images directly from HD-SDI devices without signal interruption or video delay, they also accept up to eight channels of 48kHz audio. Neo V optical glass technology protects the two displays and both feature an image enhancer (3D Comb Filter/Deinterlace/Noise Reduction). An Ecosmart sensor automatically detects ambient lighting and adjusts display brightness to optimize energy efficiency, while a temperature sensor prevents overheating.

www.agneovo.com

Enhanced Access Control Functionality

CEM Systems has released version 6.8 of its AC2000, AC2000 Airport and AC2000 Lite integrated access control and security management software. This offers additional features that increase the performance and improve the functionality of the access control system. Andrew Fulton, Senior Director of Global Sales said, "This release brings intelligence to the edge with the emerald touch screen access terminal, allowing businesses to improve efficiency by accessing applications directly and securely over the Internet and at the door." Enhancements include an Entry Checklist Mode that displays questions that users must answer correctly before the door will open. For example, on a construction site, "Are you wearing a hard hat and a high visibility vest?" If the employee answers "No", the door will not open. This enables a business to enforce its Health and Safety policy at the edge of their access control system.

www.cemsys.com

Camera Management Software Release

Axis Camera Station is a complete video monitoring and recording solution for small and mid-size installations. Release 4.0 combines easy installation and an improved intuitive user interface with powerful features for effective investigation and high-definition identification. It includes a setup wizard with automatic camera discovery which guides the user through every step of the configuration process. This allows for the system to be up and running within minutes. The GUI has been redesigned with focus on ease-of-use and intuitive operations for key areas such as live view navigation, event configuration and video investigation. By simply defining an area of interest, the user can search through vast amounts of high definition video in just seconds for quick investigation and retrieval of evidence.

www.axis.com

Built-In Display Processing

Eyevis a manufacturer of visualization solutions, has integrated the ONVIF Profile S standard into the IP decoder boards of its IPD series, Eyecon Metawall 2.0 and the recently introduced series of intelligent EPU LCD displays. The IPD-32HQ board is able to decode two ultra HD signals, 16 HD signals or 32 D1 signals simultaneously. Both it and its little brother the IPD32 support flexible individual codecs as well as customized systems. The EPU displays can be connected directly to a network with standard network cables – all image processing takes place in the display – allowing the construction and operation of virtually unlimited video walls and display installations on the basis of standard IP networks.

www.eyevis.de

HD-SDI Camera With Zoom

Far more than just a transmission technology, HD-SDI stands for sharp video surveillance images in HD quality at full frame rates, transmitted uncompressed via coaxial cable. Abus has now added the TVHD51000 day/night 1,080p zoom camera to its HD-SDI range, with a comprehensive range of accessories available. It delivers full HD resolution and, in conjunction with a HD-SDI recorder, can be integrated easily in an existing CCTV infrastructure. The camera is quick to install because existing, intact coaxial cables can be reused and knowledge of IP is not required.

www.abus.com

Graphic Controller Processing Boost

With improved i/o cards and a Switch-Fabric-Backplane, the Netpix 4900 makes input and output processing of 4K/ultra HD signals and the transmission of audio via HDMI possible, coping with the growing requirements and complex tasks for AV technology in control and conference rooms. At the heart of large scale video installations, it generates a coherent desktop interface out of single outputs that can be used to present network data, video and graphic sources. All input signals, also those with different resolutions with non-rectangular arrangement, can be moved, scaled and placed freely on the video wall. Various modes for display modules with thin bezels, for edge overlaps and for portrait and landscape presentation underline the flexibility of the controller.

www.eyevis.de

Multiple Video Wall Controller

Eyevis Eyecon Metawall 2.0 is a flexible software-based system for signal transmission and the control of video walls and single displays. Several video walls and single displays can be interconnected to a single user interface above the limit of one graphics controller. In addition to graphics controllers of the Netpix series, this also supports the intelligent EPU displays. input signals are transferred via a standard IP network, Internet or cloud and are extracted from the network by graphics controllers or intelligent displays, depending on the installation at hand. Management, scaling and assignment of all input signals are controlled through the software, which visualizes all sources on a desktop surface and in this way allows for the uncomplicated distribution of the signals to the individual reproducers. Every eyeprocessing unit takes over the function of a split controller which is integrated in the display. Using this technology, several EPU displays are grouped to serve as one large split controller. This system is redundant and thus, guarantees highest availability. Since both intelligent displays with direct control as well as video wall displays that are controlled through graphics controllers can be integrated, system designers have much increased flexibility. All components can be combined with each other as needed. The operation of graphics controllers, for instance, especially makes sense for control rooms with SCADA applications. The company offers the units in three different configurations. Depending on the performance of the different versions, the EPUs are able to process and display one, four or eight full HD signals.

www.eyevis.de

Thermal Surveillance Cameras

Geutebruck's professional IP thermal cameras are designed for unobtrusive video surveillance or video motion detection in total darkness, mist or smoke. With lenses ranging from 7.5mm to 35mm, horizontal fields of view from 40° to 9°, and frame rates from 9 to 30fps, the G-Cam/PTHC camera series includes a model for increasing the accuracy and reliability of video analytics-based systems. It also includes one for providing very early intruder detection by revealing people at up to 1,450m and vehicles at up to 3,400m. All variants use uncooled Vox microbolometer image capture with a resolution of 320x240 pixels. Their special image contrast enhancement feature ensures that razor sharp b/w pictures with excellent contrast are provided. Additionally, the company's specialist security H264CCTV compression format delivers video with smooth fluid motion at all speeds and replay modes, without jumps, jerks or other evidential gaps. All cameras are IEEE.3af compliant PoE and are ONVIF compatible. As Jan Schwager, Geutebruck's Product Strategy and Support Manager, puts it: "This camera range enables us to include thermal imaging within the single source solutions that we offer to our partners and customers. Being fully compatible with our other products makes these cameras highly suitable for operation together with our G-Tect/VMX video analysis, and results in exceptional detection accuracy with significantly reduced material and installation costs."

www.geutebrueck.com

Low Light Battle

Hikvision is providing further opportunities for ultra low-light surveillance with the launch of its DS-2CD-6026FHWD Darkfighter network camera. This utilizes their ultra low-light MP lens and is designed specifically to capture sharp color and monochrome images in extreme, low-light conditions. The result is sharp color images down to 0.002 Lux and B/W to 0.0002 Lux. The camera features a two megapixel, 1/2 inch progressive scan CMOS image sensor. Together with a 120dB wide dynamic range and the manufacturer's 3D digital noise reduction technology, the camera is able to stream video in full 1,080p HD at 60fps, which results in latency-free clear images day and night. A defog feature is also incorporated to noticeably improve image clarity in poor weather conditions, such as rain or fog.

www.hikvision.com

Combined Access Control and Surveillance

Avigilon acquired Redcloud Security in May 2013, adding an innovative line of physical and virtual access control solutions to their product portfolio. The fruit of the business operations and products integration is the introduction of Access Control Manager (ACM) 5.0. This combines high-definition video surveillance and access control, seamlessly integrating identity management and video surveillance across IT and logical security systems. The re-designed user interface allows users to simply and easily manage multiple sites from a single location, even if they're spread around the globe. ACM provides scalability and flexibility for systems requiring only a few readers, or thousands. ACM Virtual is purpose-built for users that have already migrated their IT operations to a shared IT infrastructure and want to leverage the power of virtual machines.

www.avigilon.com

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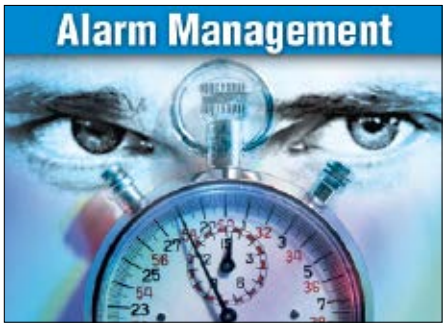

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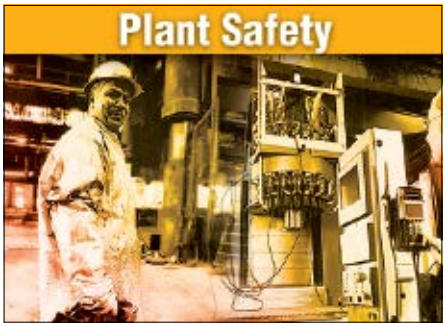

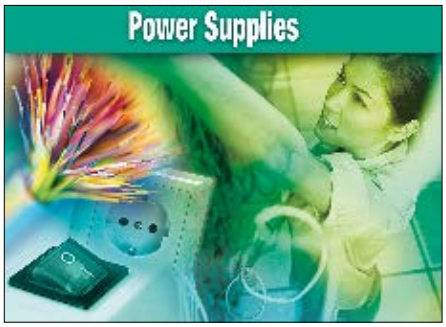

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