

WILEY

VOLUME 13
SEPTEMBER
2016

3

79 824

SeeTec
An OnSSI Company

MAGAZINE FOR SAFETY AND SECURITY

GIT

SECURITY
EMEA

Security for Europe's
First Private
Business Park
(see p. 54)



Safe City

Fire Protection

Videomanagement

Stadium Security

Access Management

SECURITY ESSEN 2016

COVER: ASSA ABLOY
CLIQ LOCKING SYSTEMS:
HIGH-END MICROELECTRONICS,
PROGRAMMABLE KEYS AND
CYLINDERS

WILEY



Innovation, integrity and trust.

Innovation through experience
is at the forefront of what we do.

With over 35 years global fire detection experience in the design and manufacture of innovative fire detection devices, Apollo Fire Detectors are committed to producing trusted and reliable products.

Products are designed, built and tested to the highest British and international standards so you can rely upon Apollo fire detection products **to protect lives and property worldwide.**

Visit us on stand 3B14
Security Essen - Essen, Germany
27th-30th September

www.apollo-fire.co.uk



apollo

Access to the Future

There were times when the security market was dominated by the developments taking place in the video surveillance segment. The move to IP video surveillance, the introduction of high resolution cameras and new camera functionalities were the talk of the day. In contrast to this vivid market, access control was something that was looked at as a closed shop for specialists. The market was very fragmented with dozens of different proprietary systems that could do everything except to communicate or even work together with other systems.

That has changed dramatically. Some market leaders for video surveillance find it hard to reach the audience with thrilling marketing messages. The market has become mature. It is the access control market that rules the security world today. Integrated building management systems, system operability, new connectivity features, mobile access solutions and electronic locks are only some access control related topics that will dominate the discussions in the security industry during the next months. When you go through this issue you will find a lot of information about access control solutions.

Another indicator for the growing importance of access control is the acquisition strategy of leading market players. End of August Vanderbilt announced that the company has entered into an agreement to acquire Access Control Technology in Dublin. The purchase was another step to enhance Vanderbilt's strategic expansion plans for strengthening its access control business.

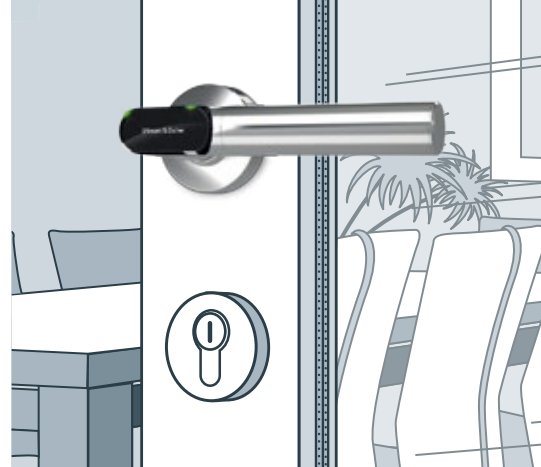


Are you going to Security Essen end of September? If yes, you may want to have a closer look at the show preview in this issue and the many articles with a reference to the show. Further information can be found on GIT SECURITY's newly launched Microsite about the exhibition Security Essen 2016. Please feel free to visit and learn all about the fair and important topics around the show (www.git-security.com/security-essen-2016). Furthermore our team would be more than delighted to see you at our stand in Hall 2.0, Stand 2E07. Feel free to visit our stand and have a chat with the sales and the editorial team.

The latest issues of our magazines and a selection of Wiley books and publications will be available. On the first day of the show you are invited to attend the GIT SECURITY AWARD Ceremony, at 17:00. We will serve food and drinks.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team



UZ

AWARD-WINNING VARIETY

Elegant stainless steel design meets modern technology – recipient of several awards from experts in Europe!



Visit us on the trade fairs!
Security, Messe Essen
27th – 30th September 2016
Expoprotection, Paris
7th – 9th November 2016

Uhlmann & Zacher

contact@uundz.de

www.UundZ.de





36 COVER STORY
The Key Issue
 Assa Abloy Provide Flexible Access Management with Programmable Keys and Cylinders



12 SAFE CITIES
Safe City Integrated
 How standards Can Boost Future Interoperability



22 COMMUNITY IS KEY
Building Partner Eco Systems to Meet Systems Integrator and End-customer Requirements

MANAGEMENT

SECURITY

12 SAFE CITIES
Safe City Integrated
 How standards Can Boost Future Interoperability

20 VIDEO SURVEILLANCE
Partner of Choice
 Edwardian Hotels London Confirms Single Source Supply Relationship with Hanwha Techwin

28 EVENT
Security Essen Preview

14 SECURITY MANAGEMENT
Remote Live Viewing
 Digital Barriers Developed Video Transmission Technology

24 VIDEO MANAGEMENT
The Bottom Line of VMS
 5 Things to Check when Choosing Video Analytics

34 ACCESS CONTROL
Digital Locking Systems
 SimonsVoss at Security 2016

18 SECURITY CENTER
Cybersecurity, Privacy, Authentication and End-to-End Encryption

26 CONTROL ROOM
Lights On
 Eyevis Helps Energy Provider Carroll EMC Control Their Network

38 Open Approach to Standardisation
 OSS Association Paves the Way to New Opportunities for the Access Control Market

22 COMMUNITY IS KEY
Building Partner Eco Systems to Meet Systems Integrator and End-customer Requirements

27 EVENTS
International Events
 Messe Frankfurt Holds an Extensive Portfolio of Safety and Security Events

40 One Mission, One System
 Secure Multiapplication Access Control Solution for French Bank

16 CRISIS MANAGEMENT
Virtual Crisis Training
 Crisis – Training Tool for Airport Security Management

50 Look – No Wires
 Real-time Access Control

36 COVER STORY
The Key Issue
 Assa Abloy Provide Flexible Access Management with Programmable Keys and Cylinders

44 KEY MANAGEMENT
Get your Keys Together
 Key Management System's Ergonomic Design Delivers Practical Benefits

46 SECURITY MANAGEMENT
When the Going Gets Tough
 Rugby Football Union Stadium Implements Upgrades and Unifies Security



38 Open Approach to Standardisation
OSS Association Paves the Way to New Opportunities for the Access Control Market

SECURITY

- 48** **STADIUM SECURITY**
On the Ball
Bosch and Benfica Integrate the Stadium of the Future
- 52** **VIDEO SURVEILLANCE**
Faites vos jeux
An Unusually Large Full IP Surveillance System
- 54** **Oh là là!**
Europe's First Private Business Park, Paris Nord 2, has Created an Even More Secure Working Environment
- 56** **Seeing into the Past**
An IP Video Solution to Protect People and Premises
- 58** **SECURITY FOR RETAIL**
Catch Shoplifters Red-handed
Thermal Cameras are Effective Tools to Prevent Retail Theft
- 60** **WIRELESS SURVEILLANCE**
Crescent Moon Setting
Dahua Solves Complex Wireless Requirements in Durrat Al Bahrain
- 62** **PERIMETER PROTECTION**
Solid as a Rock
Perimeter Protection Group's Prize-winning Wedge Barrier is Crash Tested

FIRE PROTECTION

- 64** **FIRE DETECTION**
Hot Stuff
Wagner Shows its Fire Detection, Prevention, Extinguishing and Risk Management Technology at Security Essen 2016
- 66** **Protecting Our History by Learning from the Past**
An Intelligent Approach to Fire Safety in Historical Buildings and Museums
- 70** **FIRE PROTECTION**
Mind the Step
Kentec Safeguards Escalators at New Kings Cross St. Pancras Underground Station

SECTIONS

- 06** News
- 32** Security Products
- 65** Fire Protection Products
- 72** BusinessPartner
- 75** Company Index / Imprint

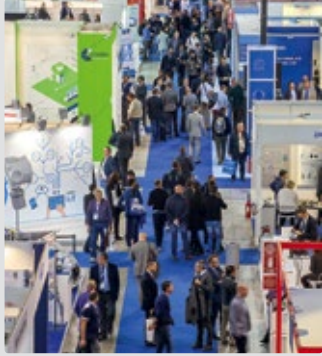


Welcome to the knowledge age. Wiley builds on its 200-year heritage by partnering with universities, businesses, research institutions, societies and individuals to develop digital content, learning, assessment and certification tools. Wiley continues to share and deliver the answers to the world's challenges helping you to further your mission.



Sicurezza Safety and Security Show

Spurred on by constant technological innovation and growing demand at both the public and private level, the Italian security industry continues to take a positive direction. In 2015, the industry saw growth in overall turnover of 4.5% (2014 saw a similar variation of +4.9%) equal to 2,150 million Euro (source: ANIE Sicurezza). After having maintained stability during the crisis years, the various sectors today show great vitality and are ripe for development. Among the major drivers are the demand for innovative solutions in the domestic market and the growing opening up in the international market. Against this background, the next edition of Sicurezza - the international show dedicated to security and fire prevention being organized by Fiera Milano from 15 to 17 November 2017 – is already shaping up to be an event of great interest that will bring together the technological offerings of many leading brands from Italy and abroad. Some that have confirmed include Axel, Ceia, Hikvision, Jablotron, Milestone, and Venitem while other important names such as Risco, Came, Sicurit Alarmitalia and UTC Fire and Security are returning. Sicurezza has continued to take on the challenges of a market in constant change, starting from the spread of IP to the ever-growing integration between physical and logical security. The show leads us further in the evolution of security, focusing on customized solutions for every area of application which, in a world that is ever more interconnected, extends all the way to the IoT (Internet of Things), going beyond the confines between physical security and IT security. For this reason, the 2017 edition is opening up to new industries that are ever more linked to the changing world of security: from cyber security to the Internet of Things, from drones to fire prevention (detection as well as extinguishing fires), all the way to building automation and smart buildings. To optimize buyers' time at the show, Sicurezza will once again make the Expo Matching Program (EMP) available. This business networking platform brings together exhibitors and the top hosted buyers directly at the show, after both parties have had the opportunity to carefully study each other's profiles.



www.sicurezza.it

Tyco Security Products Acquires Innometriks

Tyco Security Products announced it has acquired substantially all of the assets of Innometriks and 2DogsStudios, developers of high assurance readers, software and mobile solutions for FIPS-201 (Federal Information Processing Standard) smart card credentials. This acquisition strengthens Tyco Security Products' position in the federal market by adding the Innometriks team's open, seamless high-assurance solution integrated directly into Tyco Security Products' Software House C-CURE 9000 access control and security management ecosystem, as well as enabling the ability to integrate with systems from other manufacturers. This is achieved with an open architecture that moves government credential authentication directly into the physical access panel, and leveraging OSDP (Open Supervised Device Protocol) capable readers.

www.tycosecurityproducts.com

Hanwha Invests in Customer Service

Hanwha Techwin Europe (formerly Samsung Techwin) has announced an expansion of its Customer Satisfaction Team. In addition to investing in technicians based locally in countries across Europe, the company has also recruited a team of multilingual technicians and logistics experts who have been highly trained to provide advice on all products within the Hanwha Techwin range of video surveillance solutions. "We know that having innovative, feature rich cameras, recorders and software that can provide installers and systems integrators with a competitive edge, is not enough," said Bob (H.Y.) Hwang Ph.D., Managing Director, Hanwha Techwin Europe. "... We also have to offer outstanding pre and post sales support services. This includes efficient fulfillment of orders, RMAs and repairs, as well as offering hotline telephone support for any customer who needs a rapid response to a technical query." A facility in Holland is the company's main European warehouse, provides a base for their multilingual team of technicians and also houses a repair centre, which is enabling consistent fulfillment of its commitment to a five-day turnaround on repairs if a fault develops. This is complemented by an Advanced Replacement service which is designed to provide installers with the assurance that they can reinstate a video surveillance system at the earliest opportunity.



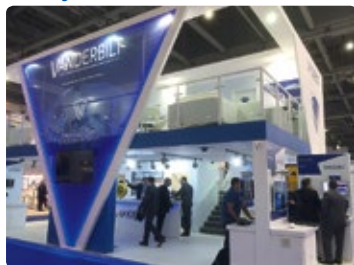
Bob Hwang, Managing Director, Hanwha Techwin Europe

Security Essen: Hall 2.0, Booth 2D06

www.hanwha-security.eu

Vanderbilt Aims High at Security Essen 2016

Vanderbilt will attend Security Essen for the first time this year, and will be exhibiting the latest developments across all three of its product ranges – access control, intruder detection and video surveillance – on stand B33 in Hall 3. Since its acquisition of Security Products from Siemens 15 months ago, a combination of its global reach, independent structure and technical expertise helps to explain Vanderbilt's prolific growth over that time. On centre stage at Security Essen the company will feature Aliro 2 – the latest generation of their access control solution suitable for small to medium sized commercial applications. It supports, as standard, 64 doors and 5,000 users and, with additional software licenses, the system can be increased up to 1,024 wired doors, 1,024 wireless doors and 25,000 users. The SPC intrusion panel, Magic motion detector range and color range of SPC Compact Keypads will also be featured on the stand.



Security Essen: Hall 3.0, Booth 3B33

www.vanderbiltindustries.com

Veracity V2 to Drive Up ANPR Value

4Sight Imaging, the UK-based provider of automated number plate recognition (ANPR) imaging, has developed new vehicle monitoring technologies enabling faster identification of suspect vehicles. The Veracity V2 will include high-definition (HD) features for license plate color and country recognition to enable highly accurate monitoring and management of real-time data in scenarios ranging from counter terrorism and international law enforcement to commercial parking and private security. The new features maximize the amount of high-quality data captured at the point of reading the license plate and include vehicle color, license plate color, country of registration, identity of the state, region or province where the vehicle is registered and the direction of travel.



www.4sightimaging.com

City of Fort Myers Selects Siklu for City-Wide Video Surveillance System



Siklu announced it was selected to provide a wireless connectivity solution to ensure flawless streaming for a city-wide surveillance system in downtown Fort Myers, Fla. Siklu's capacity-rich radios connect a range of Axis Communications multisensory 4K and advanced high definition PTZ cameras and an advanced video management system from IPVideo Corp., which have been strategically deployed throughout the city to monitor pedestrian and vehicular traffic. The city of Fort Myers, Fla., decided to install the surveillance system following a shooting during Zombicon, a zombie-themed art and music festival, held in October of 2015. A+ Technology & Security Solutions, based in Bay Shore, N.Y., completed the whole trailblazing system in just three weeks to meet the city's deadline to ensure that the new video surveillance system in place would be in place for its New Year's Eve celebrations.

www.siklu.com

Messe Frankfurt Middle East: Intersec Goes Saudi Arabia

Jeddah, Saudi Arabia: Intersec, international trade fair for security, safety, and fire protection, is making its debut in Saudi Arabia, offering global suppliers direct access to the Kingdom's vast market where security spending continues to rise. Organised by Messe Frankfurt Middle East in partnership with Al-Harithy Company for Exhibitions (ACE Group), the inaugural edition of Intersec Saudi Arabia will take place from 2-4 May 2017 at the Jeddah Center for Forum and Events. It's the latest of 12 Messe Frankfurt-organised trade fairs and events dedicated to the worldwide safety and security sector, and the second in the Middle East after the Group's flagship show – Intersec in Dubai. The three-day event will feature more than 125 exhibitors from 20 countries, and targets buyers from a Saudi market where, according to US consultancy Homeland Security Research, spending on security-related products is estimated to reach US\$15.4 billion by 2018. The industry response has been impressive so far; 18 Launch Partners have already confirmed their participation at the annual showcase, including Axis Communications, Bristol Fire Engineering – Corodex, CP Plus, Dahua Technology, dorma + kaba, Draeger, Genetec, Harco Group, HID Global, Hikvision, Milestone, NAFFCO, Nedap, Nitin Group of companies, Pelco by Schneider Electric, Promise Technology, Smiths Detection, and the British Security Industry Association (BSIA).



www.intersecexpo.com



They see the big city.

You see the big picture, with integrated safety and security solutions.

Bosch empowers you to build a safer and more secure world. With practical solutions that work in concert to give you peace of mind, no matter how big your requirements are.

Find out more at boschsecurity.com



Martin Jones is Moxa Europe's New General Manager

As of July 1st, 2016, Moxa Europe has a new General Manager. Martin Jones is an experienced Manager who has his roots in the UK. As newly appointed General Manager for Europe, Martin Jones is proud to have been given the opportunity to continue Moxa's tradition of knowledge and culture transfer in the future. He is responsible for more than 60 professionals across Europe. Today, Moxa Europe is seen as a market leader in Rail, as well as in many other market segments – for example Transportation, Power, Factory Automation and Marine. Martin Jones will continue to make sure Moxa constantly adapts to the needs of their customers: "The world is getting ever more connected with more and more devices being attached to each other. In the industrial environment, this trend is called the Industrial Internet of Things (IIOT). Our mission will be to capture the needs of this technology revolution and ensure that our Go to Market models of selected vertical markets, distribution channels and added services are aligned to fuel sustainable future growth, with the goal to become a recognized market leader in the IIOT business, just as in our other focus markets."



www.moxa.com

Edesix & Genetec Announced Integration Relationship

Edesix has announced its relationship agreement with Genetec. The integration relationship will enable Edesix BWCs, and associated VideoManager software, to integrate seamlessly with Genetec Security Center, which will offer streamlined wearable security management, support and storage for city-wide surveillance and law enforcement. Users of Security Center will be able to automatically view live video and audio captured on an Edesix VideoBadge bodyworn camera. Edesix's Open API's will also allow storage of high-definition video, either in VideoManager or Security Center, for maximum flexibility and control of storage. Features currently found within the Edesix solution, such as RFID touch-assign, video encryption and evidence sharing, will be accessible through the Genetec system, allowing for effective large-scale deployment and estate management.



Security Essen: Hall 2.0, Booth 2B30

www.genetec.com

Euralarm Annual Report 2015/2016

Euralarm has released its Annual Report 2015-2016. The report features in-depth information on the association and the markets it represents, based on a study published by the European Commission on the 'Development of statistical data on the European Security and Technological Industrial Base'. Thanks to Euralarm, the electronic fire safety and security industry's voice is stronger than ever, sustained by the increasing strategic and economic importance of the sector for the EU. Statistics mentioned in the Euralarm Annual Report 2015-2016 notably relate to the current state of the production, workforce and size of the industry, its strengths and weaknesses. In terms of manufacturing, Euralarm members' industrial base represents 35% of their activities. Finally, an internal Euralarm estimate establishes that in 60 years, its members' fire alarm systems alone have saved approximately 100.000 lives.



www.euralarm.org

Barco: New One Campus Headquarter in Belgium

Barco looks to the future with confidence: They cut the ribbon to officially open their brand-new headquarters in Belgium. Located at the Beneluxpark in Kortrijk, the 230,000 m² 'One Campus' is a true landmark for the region – an all-glass, circular building surrounded by green spaces and connected to three other state-of-the-art Barco facilities. The campus will not only be the new home to Barco's 1,250 Belgian employees but will also serve as an open house for customers, partners, foreign colleagues and other stakeholders. One Campus marks also a new way of working, centered around dialogue, collaboration and, consequently, innovation. Barco is convinced that its new operating base will be of great support in the future evolution of the company. From 1 June onwards, all 1,250 Belgian Barco employees start working at the new One Campus.

www.barco.com/en

Idis and Videor Sign Distribution Agreement

Idis Total Solution extends the DACH distributor's offering with high performance surveillance. Idis and Videor E.Hartig have signed a strategic partnership that sees the leading video-security, broadcast and image processing distributor offering the IDIS Total Solution throughout the German speaking markets of Deutschland, Austria and Switzerland (DACH). Under the partnership agreement, Videor combines its 40-year track record and extensive industry knowledge, with dedicated and expert Idis sales and technical support for its extensive customer base across the DACH region. James Min, General Manager, EMEA Business Development Team at Idis, added: "We're particularly excited to announce this partnership with Videor at IFSEC with all the buzz going on around the show. The DACH market and Idis recognise Videor's extensive surveillance expertise twinned with a very customer-centric support model."



Security Essen: Hall 2.0, Booth 2D06

www.idisglobal.com

PSIM Innovation

Siemens Building Technologies Division has added Siveillance Viewpoint for Physical Security Information Management (PSIM) to its security portfolio. It is the first offering of its kind to combine danger management and select command and control functions in an integrated platform. This software allows security personnel to respond quickly and efficiently to incidents, especially in complex infrastructures such as industrial production facilities. By combining fire safety and security disciplines into one platform, Siveillance Viewpoint exceeds the capabilities of traditional danger management systems. Due to the fact that the software offers advanced workflows, it helps operators make the right decisions when an alarm is triggered, even in highly stressful situations.

www.siemens.com/buildingtechnologies

Dahua Series Integrate with Milestone XProtect VMS

Dahua Technology announced that all ranges of new smart thermal network cameras are integrated with the Milestone XProtect Video Management Software. All Dahua smart thermal network camera series adopted a sensor that makes them capable of detecting tiny differences in temperature, achieving higher detection accuracy and operating in complete darkness and adverse weather conditions. Meanwhile, the cameras combined intelligence, efficiency and high performance such as smart detection, smart analysis, smart perception, smart tracking and smart control. The thermal network cameras which can integrate with Milestone XProtect Video Management Software include thermal hybrid PTZ camera, hybrid speed dome camera, thermal bullet camera and thermal dome camera.

Security Essen: Hall 2.0, Booth 2A06

www.dahuasecurity.com

Mid-sized Company Recognition for Dallmeier

The Regensburg-based video security company Dallmeier has once again been awarded the ‚Bavaria’s Best 50‘ accolade for its success. “We feel strongly linked to the economic area of Eastern Bavaria, not least because of our long-standing cooperation with a network of local suppliers, contributing to the regional as well as the state economy”, says Dieter Dallmeier. The jury specifically looks at the areas of sales growth and workforce expansion. The company previously received the accolade in 2004 and 2005.

www.dallmeier.com

Aiphone’s IX Intercom System Integrated with Lenel OnGuard

Aiphone’s IX network intercom system has been successfully integrated with the Lenel OnGuard security management software platform. The Aiphone IX system provides users with a scalable communication and security system which offers the opportunity to mix and match a large number of door intercom and master stations, to match specific project requirements. Integration with the Intercom module of Lenel OnGuard



means that users can place calls to door stations via the OnGuard Map View or Status Tree. They can also access a wide range of other features and functions of the IX system via the OnGuard graphical user interface. These include visibility of calls made, ended and unanswered, paging, door release, status reports and system health checks.

www.aiphone.co.uk

Siemens European Building Technologies Company of the Year

Consulting firm Frost & Sullivan has honored the Siemens Building Technologies Division with its 2015 European Building Technologies Company of the Year Award, recognizing its outstanding services and solutions. Peter Hallberg, Head of BT Region Europe North, accepted the award in London on June 29, 2016 from Aroop Zutshi, Global President and Managing Partner at Frost & Sullivan. Explaining their decision, the experts at Frost & Sullivan emphasized Siemens’ leading role in driving developments for the entire industry: “In the building technologies industry, Siemens has demonstrated exemplary performance focused, above all, on customer-oriented innovation,” said Zutshi. The Siemens Building Technologies Division’s claim as an innovative market leader for safe, energy-efficient and environmentally friendly buildings and infrastructures is underpinned by a comprehensive solutions and service portfolio.



www.siemens.com/buildingtechnologies

VERTICAL MARKETS

- Oil&Gas
- Transportation
- Government
- Military

Visit us at

IP NATIVE
TECHNOLOGY

security
essen 2016

27-30 September
Hall 2.0 - Booth 2C20

AVANTGARDE™
THE IP IR BEAM BARRIER

URNS YOUR SECURITY INTO PREVENTION

SICURIT
PERIMETER PROTECTION SYSTEMS

www.sicurit.com



MADE IN ITALY

Hanwha Techwin Europe recruits Video Management Expert

Christopher Whitting has been appointed by Hanwha Techwin Europe as Business Development Manager for its Smart Security Manager (SSM) Enterprise software platform. Christopher has had a highly successful sales career within the electronic security sector spanning 20 years, during which he has been a founding partner of CNL, the UK Sales Manager at Bosch, Business Development Manager for Sony and most recently, the Country Manager UK and Ireland for Milestone. "SSM Enterprise fulfils Hanwha Techwin's ambition to become an end-to-end video surveillance solutions provider and I am very much looking forward to putting my knowledge of IP network platforms and integrated solutions to good use, in order to raise market awareness of the capabilities of this powerful and versatile video management software platform," said Christopher. "I will be working closely with colleagues throughout Europe to identify projects where SSM Enterprise can help end-users achieve maximum benefit from their security systems."



Christopher Whitting,
Business Development
Manager for Smart
Security Manager (SSM)

Security Essen: Hall 2.0, Booth 2D06

www.hanwhatechwin.com,

Teleste: Upgrade and Expansion for Paris Police Video Surveillance

Teleste announced that it will deliver its s-vmx video management solution to upgrade and expand the video surveillance system of the Paris police authorities in France. The deployment will consist of video management hardware and software combined with engineering and support services. The order represents a new phase in Teleste's service offering to the Paris Prefecture de Police and Iris, the contractual partner operating and managing the system, in the scope of a public private partnership running until 2026. Teleste's video security system was recently in use in France to promote public safety during the UEFA 2016 football championship. The new deliveries will support a system upgrade to full HD video surveillance. In addition, they will support expanding the coverage of the Paris region's video security system to incorporate several tens of thousands of cameras, including integrating the metro video surveillance system and video security system of the French national railway company, SNCF.

www.teleste.com

Metro Line Five Tianjin

Another Metro line has been equipped with the CCTV system in Tianjin Metro Line Five. SD encoder, decoder, Ipsan and VMS were deployed to provide direct video streams for the police. Encoder and NVRs for mobile surveillance system were built at the same time. Ultimately, more vehicle cameras were added later on. Uniview covered 28 stations, 1 vehicle depot, 1 parking lot, 1 control center and more than 124 carriages with more than 1500 cameras. Every carriage was equipped with two encoders and one NVR. Over all, a whole Uniview solution was installed which included encoder/decoder, Ipsan and platform.



www.uniview.com

ONVIF Hosts 14th Developers' Plugfest in London

With multiple testings of ONVIF conformant products, the Developers' Plugfest included interoperability testing for all six ONVIF profiles, including Profiles Q and A, which are both scheduled for final release in 2016, and Profile T, ONVIF's newest profile for video that is currently in development. Engineers from ONVIF member companies gathered at the closed member event earlier this month to test their products' interoperability with other ONVIF Profile-conformant products. In addition to Profile interoperability tests, all ONVIF clients had one hour of testing using ONVIF's Client Test Tool Clinic, and also had the opportunity to discuss with Test Tool developers any issues that arose during conformance testing.



www.onvif.org

Uniview: Equipment for two Metro Lines Metro Line in Guangzhou

Guangzhou Metro line six adopted Uniview's digital coding CCTV system, which is the first digital coding system used in Guangzhou metro system. Uniview's CCTV system meets important demands such as system expansion and centralized review. More than 1100 IP cameras were installed which covered 32 stations. Uniview's camera series, Ipsan, has many functions such as raid 6, hot spare, 4M storage stream, 30 days' storage time and 2000TB storage.

sg.uniview.com

Nedap's Response to Risk of Digital Attacks on Access Control Systems

Nedap's new end-to-end security solution offers digital protection for access control by unifying best practices from both IT and physical security. Until now, the latest best practices protecting IT systems from digital threat haven't been used for physical access control systems. It's an oversight that's leaving many companies vulnerable to cyber-attacks. Nedap and AET Europe have worked together to overcome this by developing Aeos end-to-end security. Taking a forward-thinking new approach, they've combined the best practices of both IT and physical security – all in one access control system. In Aeos end-to-end security, Nedap and AET Europe have combined the IT principles of encryption and strong authentication. This ensures storage in every element of Aeos is secure, as is communication between all elements.

Security Essen: Hall 3.0, Booth 3D12

www.nedapsecurity.com

Ideagen acquire Covalent Software Ltd

Ideagen acquired Covalent Software Ltd in a £3.6m deal. Formed in 2003, Covalent is one of the UK's leading cloud performance and governance management software vendors. It provides Corporate & Employee Performance Management and Governance, Compliance and Risk Management software solutions to both public and private sector organisations including the financial services market. Based in Taunton, Somerset, Covalent currently employs 37 staff and has approximately 200 customers. The acquisition from Covalent founder Peter McHugh and venture capital Investor Technology Venture Partners LLP is expected to be immediately earnings enhancing. Ideagen currently has over 250 staff based around the UK, the US and Dubai not including its global network of partners. The acquisition of Covalent will enhance Ideagen's workforce to over 300, expanding Ideagen's Research & Development, support and sales functions.

www.ideagen.com

EET acquires French Distributor Agix

With the acquisition of Agix Distribution, which is EET Europarts' eighth acquisition this year, the company is well on the way to boost its expansion also in Southern Europe. Agix Distribution was established in 1983, and is today one of the leading Axis distributors in France. The company has specialized in providing IP-surveillance solutions for professional installers and integrators. The product range includes network cameras, NVRs, software, servers and IR-Lighting, as well as technical training and product support. CEO at EET Group, John Thomas, says: "Agix Distribution has a strong position in the French market, distributing quality products to professional surveillance customers, so it is a perfect match for EET Europarts. Additionally the acquisition will further enhance EET Europarts' longstanding cooperation with Axis Communications, the market leader in network video. All in all we look very much forward to be adding more business and new competences to our Surveillance & Security division, and at the same time bring even more highly skilled employees from Agix Distribution into our French organization." Agix Distribution has a loyal customer base, and merging the two companies will strengthen the value proposition to Surveillance & Security customers in France, with regards to products and assortment, as well as with regards to service and customer support. <https://de.eetgroup.com>

OnSSI and Bosch Expand Partnership

OnSSI is expanding its technology partnership with Bosch Security Systems to enable integration between Ocularis 5 Video Management System (VMS) and the new Flexidome IP panoramic cameras. "The combination of Bosch cameras and IP devices with OnSSI's Ocularis video and event management platform provides our customers with the advanced capabilities they need to get the most out of their video surveillance applications," said Mulli Diamant, VP of International Business Development, OnSSI. "Additionally, by

Aiphone Expand Into New UK headquarters

Aiphone, vendor for communication solutions, has moved to larger premises in White City, London. "Having earlier this year underscored our commitment to the UK by opening a local office, we very quickly outgrew our previous offices," said Wyatt Taylor, Sales Manager of Aiphone UK Ltd. "Our new premises in White City, which enables us to combine our office and warehouse facilities under one roof, will allow us to continue to expand our operations in the UK. "We have seen a significant increase in sales over recent months which we have achieved in partnership with our recently established nationwide network of distributors. Our new facilities in White City will provide our administration, sales and technical support teams with an excellent environment to provide all our customers with the highest levels of pre and post sales support. Equally important, the move to larger premises has given us the opportunity to build a state-of-the-art demonstration room and first class training facilities." www.aiphone.co.uk



Wyatt Taylor,
Sales Manager of
Aiphone UK Ltd.

integrating Flexidome IP panoramic cameras with Ocularis, we are also able to provide installers and systems integrators with powerful new solutions they can use to address a greater variety of video applications." Flexidome IP panoramic cameras provide a complete 180- or 360-degree overview of an area in a single view. Ocularis performs dewarping on the streams to eliminate video distortion caused by the cameras' fisheye lenses to produce highly detailed images. www.onssi.com

Detect ■ Recognize ■ Analyze

Is she a known suspect?

When/where did she enter?

Is this VIP Mia Clark?

How often was she here this month?

FaceVACS-VideoScan C5

The face recognition camera built-in face detection and tracking technology for optimal image quality



Premier face recognition technology for real-time video surveillance and recorded media investigation

See it in action at Security Essen, stand A20!



SAFE CITIES

Safe City Integrated

How Standards Can Boost Future Interoperability

Cities require the most complex and interconnected physical security systems. Municipal, federal and even national collaboration is necessary. Per Björkdahl, Chairman of the ONVIF Steering Committee, discusses the development of safe cities in the present and reflects on what is yet to come.

Most people today who live in cities, particularly large ones, have become accustomed to a relatively high level of general and public surveillance, whether it is the police patrolling the streets, cameras in shopping malls or intelligent security solutions deployed in public transportation systems. Many feel that as long as these systems benefit them as citizens and keep them safe, general surveillance can be accepted and people feel safer as a result. It has become part of the fabric of 21st century life for many.

Most of us value individual safety, especially in cities. Physical security systems are capable of delivering exactly that to citizens, though the management and operation of these systems can be challenging at times. Cities today often use video management systems or other platforms to view camera footage, protect citizens and property, analyse incidents, evaluate security and help them determine appropriate responses to events such as natural disasters, disruptions to transportation and other municipal services - and other threats to public safety. They may also use intrusion, access control, building automation and fire detection

systems in their management of a city's security, in conjunction with video surveillance.

Cities implementing this connected security approach have been dubbed 'safe cities'. Most safe cities share a common infrastructure and operate using sensors and/or cameras over a shared municipal network. Using these sensors and the data from many different devices synthesised through one interface, government officials and law enforcement are afforded a total, holistic view of a city's security.

Integrating the Many Parts of a Safe City

The integration of all of these systems enables a municipality to manage its security comprehensively and from a single point of view from the command center. If, for an example, there is a leak in a water main, the city's command center can quickly review video footage from a camera positioned at the leak's physical location, check access control data to see why and how the gate to the water main was opened and determine who the last employee at the restricted area was. At the same time, the command center can use cameras

on the street to monitor street flooding and assess damage to surrounding areas.

There are operational challenges that accompany the many systems included in a safe city deployment. Interoperability continues to present one of the greatest challenges, particularly with video management systems, video recording devices and cameras. The most common scenario is that municipalities have several different management systems for city operations that were created by different manufacturers, each with proprietary interfaces for integration. In order to connect its different systems together, cities often end up employing a "build once and maintain forever" approach, in which the continuing cost for integration of the city's systems becomes prohibitively expensive.

In a world where technology and features change quickly, the 'build once and maintain forever' scenario is not practical or attractive, as it severely limits an end user's ability to try new technology and/or different vendor's products and requires a substantial financial commitment to those specific manufacturers and proprietary interfaces. Another approach that some end users and

integrators take is to deploy products from a single manufacturer in order to facilitate system-wide integration. However, this approach can also have an undesirable result: it stifles an end user's ability to add new products from other vendors and locks an end user into a long-term commitment with the manufacturer.

Enter Standards

This is where the need for robust and well-defined standards comes into play, particularly for video surveillance, which is most commonly at the heart of safe city deployments. Standards, such as those from ONVIF, an industry alliance that offers standardised interface specifications for video security systems and physical access control systems and provides the common link between disparate components of these systems. Designed specifically to overcome the challenges in multi-vendor environments, ONVIF's common interface facilitates communication between technologies from different manufacturers and fosters an interoperable system environment where system components can be used interchangeably, as long as the devices conform to the ONVIF specification.

Since 2008, when ONVIF was founded, the organisation has published a number of specifications and profiles for effective integration of devices and clients in the physical security industry. For video security systems, ONVIF has released Profile S for video streaming and Profile G for storage and playback. Profile Q, which simplifies installation of ONVIF conformant video and access control clients and devices, was released in August of this year.

In a safe city scenario, much of the recorded video from video security systems is used to conduct post-event forensic investigations, where operators analyse a specific incident or series of incidents and determine suitable actions, which often requires coordination with local, county, state and sometimes federal law enforcement officials. Video clips are exported to provide authorities identification of suspects or for evidentiary purposes during prosecution.

The challenge in a multi-vendor environment is that authorities often receive exported video material in a multitude of formats with a multitude of players for playback. Here, a standardised approach for both file format and associated players, which ONVIF's specification provides, increases the efficiency of the process and also adds the potential of including meta data in exported materials and reports, which determines the exact time and location of the recorded incident. ONVIF has also released an export file format specification that outlines a defined format for effective export of recorded material and forensics. These specifications together make it possible not only to integrate devices in multi-vendor video security system deployments in safe city environments, but offer an effective common export file format that can streamline a post-event investigation where authorities are trying to react as quickly as possible to apprehend suspects or to diffuse an ongoing situation.

Other standards organisations outside the physical security industry have identified the need for standards in effective Safe City deployments, such as the International Electrotechnical Commission (IEC) and Institute of Electrical and Electronics Engineers (IEEE). IEC has initiated a Systems Evaluation Group – Smart Cities, SEG 1, a group that will evaluate relevant works and propose a standardisation roadmap for smart cities, a term often used synonymously with safe cities. The group will also provide a mapping of closely related activities in cooperation with the International Organisation for Standardisation (ISO) and other organisations, going forward.

ONVIF has been working with the IEC on standards for the physical security industry for several years. In 2013, the IEC included an ONVIF specification in its IEC 62676 standard for Video Surveillance Systems, the first international standard for video surveillance systems to be established. The ONVIF specification for video, which defines video transmission protocols for communication between network video clients and video transmitter devices, is based on Web Services and is referenced in IEC 62676 Part 2-3.

This year, IEC will include an additional ONVIF specification in an IEC standard, this time with ONVIF's specification for Electronic Access Control, in the IEC 60839-11 System and components requirements standard for Alarm and Electronic Security Systems, based on Web Services. The specification includes minimum functionality, performance and testing methods for electronic access control systems and components used for physical access. The inclusion of ONVIF's specification in the two standards mentioned above indicates a steady continuity in the use of standards in the industry.

ONVIF Members' Safe City Solutions

Several ONVIF members are using ONVIF's specifications in the large-scale deployment of video surveillance systems. Two of these, Meyertech and Huawei, have used ONVIF prominently in safe city deployments in large cities.

In 2014, ONVIF member company Meyertech helped the city of York, U.K., to deploy a safe city solution for the city's public spaces and transportation system. Using a Meyertech video management software and information management software, the city was able to integrate IP cameras with the many legacy systems for its York Travel and Control Centre command center. The city's control room monitors more than 150 cameras from different manufacturers in the city and city representatives say the new system has had an immediate impact on crime rates. The integration of legacy and new IP cameras with the new VMS, which interfaced with the information management software, was made possible through ONVIF's video specification.

Another ONVIF member, Huawei, is considered a leader in smart city solutions. Huawei has deployed smart city solutions in Nairobi, Kenya, and in China in the cities of Nanjing and Shanghai.

Huawei's video management system was used in the Shanghai project as part of the Chinese Ministry of Public Security's safe cities construction initiative. One of the key challenges of the project was to integrate old and new technology. Huawei's VMS used ONVIF to integrate the cameras from manufacturers Dahua, Haikang, Axis, Sony and other brands.

A Multi-discipline Physical Security Standard?

At present, physical security's role in safe cities is primarily through video surveillance, a key part of safe city deployments. Physical security is also playing a substantive role in the Internet of Things' evolution. ONVIF's vision is that all physical security systems will eventually have the same interfaces for interoperability, and is dedicated to facilitating the work of its members in developing a multi-discipline standard. Such an all-encompassing interface would provide a comprehensive approach to interoperability that would satisfy the core elements of video surveillance, access control and other essential operations of a safe city command center.

Because safe city deployments and the Internet of Things concept operate on the same principles of connecting disparate systems and devices together, a multi-discipline physical security standard would no doubt also play a role in the further development of the Internet of Things. Many of those in the technology industry at large see standards as an important component in both safe cities and the IoT. The IEEE (the Institute of Electrical and Electronics Engineers) is already working on IoT standards for technology-based industries and some even predict that we may see global IoT standards in place by the end of this year. If an IoT standard is developed, this will likely have an influence on safe city deployments.

As standards and industries collaborate even further than they already have and establish minimum interoperability standards together, the need for a multi-discipline physical security standard may present itself. A day will come when it makes the most sense to do so, rather than creating proprietary multi-discipline systems. We're not at that point yet, as an industry, but a multi-discipline physical security standard is certainly somewhere on the proverbial horizon.



Author

Per Björkdahl,
ONVIF Steering Committee Chair

CONTACT ONVIF

San Ramon, USA

Tel.: +1 928.395.6773

info@onvif.org · www.onvif.org



SECURITY MANAGEMENT

Remote Live Viewing

Digital Barriers Developed Video Transmission Technology

Video surveillance for the protection of citizens needs to be cost-effective as well as comprehensive and have the flexibility to meet new and changing requirements. Digital Barriers' remote live viewing and camera control are an intelligent response.

Local authorities face a difficult challenge juggling budget cuts with a responsibility to work with police to keep the streets safe and reduce levels of crime.

Digital Barriers can provide a fully adaptable wireless surveillance system within minutes.

The compact Minicams weigh 6kg, can be quickly attached to most street furniture, and moved around to follow crime or high-risk locations as they arise in an urban area.

Cost Effective and Flexible

The installation of CCTV in public places is expensive, while the ongoing expense represents a massive commitment.

However, there is no need to dig up a road or wait for cabling with Digital Barriers' Minicams as they operate wirelessly. The low-voltage version can even use the same power source as the traffic light or lamp post it is attached to. Their mobility and ease of use make them ideal for dealing with sporting events, protest marches, sudden high-risk situations or areas where there is anti-social behaviour. Other uses include monitoring traffic and enforcing licensing laws outside nightclubs and pubs.

The Minicams use EdgeVis Live, Digital Barriers' TVI video transmission technology. It was specifically developed to overcome the problems of streaming over congested and low bandwidth wireless networks. EdgeVis Live enables secure monitoring where communications are either limited or cost prohibitive to install.

What Technology Offers

A remote live viewing and camera control deliver an intelligent response, allowing control rooms or mobile security units on the ground to respond to suspicious activity immediately. They transmit data over 4G/3G/GPRS/Wi-Fi/Satellite connections at bandwidths as low as 9kbps. The end-to-end AES256 encryption secures the system fully. Compared to other standard-based H.264 systems, the costs produced by data can be kept under control when using around 60% less bandwidth.

Further cost savings can be made if the Minicam is within range of a Wi-Fi hot-spot. The pan-tilt-zoom camera, for example, is remotely controlled and can be operated by a mobile phone, while each unit has a built-in recorder so video can be downloaded quickly via Wi-Fi for closer examination.

Edge-based recording will store high-quality video footage for approximately 31 days. There is no need to stream video continuously to a control room for recording; streaming is on-demand, reducing volume and cost of data transmission.

Minicams are ideal for plugging gaps inexpensively. They can be incorporated into an existing surveillance system, regardless of whether the existing infrastructure or control centre is using an analogue or digital network, as the video feeds can be integrated into existing VMS systems such as Milestone, Synectics, Icomply, Meyertech and Genetec.

The Minicams and EdgeVis Live technology help the police stay one step ahead of criminals and terrorists by giving officers access to real-time images whenever and wherever they need it.

CONTACT

Digital Barriers

London, United Kingdom
Tel.: +44 203 553 5888
info@digitalbarriers.com
www.digitalbarriers.com

Subscribe to innovation.

The world is changing in diverse and divergent ways. At Genetec, we understand that, which is why our software is designed to evolve with you. It transforms from a single product to a comprehensive, unified platform, seamlessly. It adapts to how you want to build your security infrastructure, be it on-premises or in the cloud, by perpetual license, and now also by subscription. Whether you're a compact café or an expansive enterprise, a successful security platform is one that is ready for change – just like you.

Visit us at Security Essen, stand 2B30
or genetec.com/subscribe

CRISIS MANAGEMENT

Virtual Crisis Training

Crisis – Training Tool for Airport Security Management

Good preparation is everything. This is especially true in the critical areas of safety and security. In order to be ready for an emergency, regular training is indispensable. The Crisis training tool was developed for this complex task.

The events in Paris have again demonstrated, in a terrible way, that crisis situations can occur totally without warning. In order to be as prepared as possible for such extreme cases, local safety and security personnel must train regularly. Especially in large buildings such as airports, training sessions and simulations of large-scale crisis events have always been extremely costly and required great effort, which meant that although they could be held regularly, they were often spaced very far apart.

The larger crisis scenario to be simulated, the greater effort required for a realistic exercise. In addition to safety and security personnel, a sufficient number of extras are needed to take on the various roles – from passers-by, to mildly or severely injured victims, to dangerous attackers. Added to this is all of the equipment for safety and security personnel and a large number of props. This enormous effort in terms of personnel, time, and money is further exacerbated by the temporary shutdown of the training area.

The Crisis Training Tool

A team consisting of ANA-Aeroporto de Lisboa (LIS), Vinci Concessions, the Middlesex University London, and Serious Games software company XVR has therefore developed the Crisis (Critical

Incident management training System using an Interactive Simulated environment) management training tool, which can represent any conceivable crisis or emergency situation using virtual simulation. While previous programs still had severe limitations and were able to depict events from only one perspective, for example, the new tool helps safety and security forces to train under realistic conditions. The virtual training enriches regularly scheduled practical training sessions in a unique way: it allows complex crisis situations to be simulated at shorter intervals, which would be inconceivable for a real-life simulation. At the same time, shutdown of the facility, real materials, and props are no longer needed, and the responsible parties can cut out the need for extras.

Cinema-tested 3D graphics for greater security

The Crisis virtual environment is based on the 3Ds Max graphics and animation program (previously also 3D Studio Max), which was used in hit films such as "Avatar" and "2012". The program is able to recreate true-to-life buildings, vehicles, and persons. Due to its flexible programming, any desired environment can be simulated in detail on the computer. This means that virtual training takes place at exactly the location where the

practice is needed, such as a particular airport, a factory building, or a previously selected section of the motorway. The number of 3D models that can be depicted is limited only by the hardware used. The more modern and powerful the hardware, the more complex and extensive the simulation can be. Even notebooks are sufficient to use the tool.

Each user sits at his own machine, such as a laptop or desktop PC, and is connected to the other participants via a headset. Each participant is thus first and foremost responsible for himself and can act independently in order to solve the task successfully, however, it is essential that the entire team works together in the virtual environment, provides cover and support for each other, and develops joint solutions.

The overall effort required for live exercises drops significantly due to the simulation produced on the computer. When the virtual reconstruction is available for the first time, the scenarios can be modified and trained repeatedly until the team is in perfect tune with each other. "The immense effort required by the previous methodology significantly limited the frequency of large-scale emergency exercises. With Crisis, however, we are able to play through comparably complex scenarios much more frequently," says Ricardo Patela, Crisis Project Manager, ANA-Aeroporto de Lisboa Portela.



The training tool can be used for crisis trainings at airports

Unpredictability means realism

It is very hard to predict how an emergency or crisis situation will develop. But the unexpected is exactly what defines the work of emergency responders, who must always be able to change gear quickly in order to react to sudden changes. The main scenario – a severe accident or a terrorist attack – does need to be defined in Crisis prior to starting the program, but during the simulation the actions of the participants continuously change the program parameters and thus the situation. The scenario therefore does not proceed linearly according to a continually repeated schema. Rather, it reacts realistically to whatever the users do or fail to do. A supervisor can provide an additional “surprise effect” by generating new, unexpected events during the exercise, which the participants have not prepared for, but need to respond to appropriately. For example, a second fire may break out while a first fire is being fought. This means cooperatively solving unpredictable problems instead of acting according to the book.

Evaluation across the greatest possible bandwidth

Developing solutions together is the critical advantage of teamwork. Because various companies and administrations need to communicate in a crisis situation, cooperation is essential. But not all cooperation leads to equally good results. In order to identify sources of error and to develop solution approaches for the future, extensive evaluation must be carried out. “Even the best team needs to keep working on itself in order to prevent errors,” says Ricardo Patela. Due to lack of data, the ability to analyse conventional exercises after the fact is limited. If a long time passes between the training and evaluation – which can be several months for extensive security training – the participants may no longer retain the events in their current memory.

The computer-based Crisis tool, however, continuously collects data about relevant decisions during a training session, which can be accessed immediately as needed. Evaluations of individuals and groups thus take place currently, within

a short time. This is a clear benefit to participants and supervisors alike: the extensive body of data material and rapid access to it allow teams to focus on collecting knowledge and experience, which also increases the abilities of problem diagnostics, planning, and team coordination instead of simply practicing predefined sequences. Theory and practice thus merge with each other much better.

Successful in practical applications

The benefits offered by the Crisis management training tool have already been successfully tested in practice. In June 2013, the development team used the program for exercises at the Lisbon airport. Two scenarios were played through: the first case involved a situation of maximum terror alert due to information about a planned attack. In the second case, an unusual object was discovered, triggering evacuation of the airport. During the evacuation, an explosion occurred with several dead and injured victims, and radioactive material was also detected.

The safety and security teams that participated at the time evaluated the training session and the effect of exercise very positively, especially praising the ability to act from one’s own perspective, which simultaneously led to better teamwork. “Besides the economic value added, we were also impressed by the capability for differentiated error analysis, in comparison with conventional training methods,” says Ricardo Patela in summary.

Authors

Marta Teixeira, Marketing,
ANA-Aeroporto de Lisboa Portela (LIS)
Duarte Gouveia, Technical Manager,
ANA-Aeroporto de Lisboa Portela (LIS)

CONTACT

VINCI Airports
Lisbon, Portugal
RPatela@ana.pt

Access controlled...
Future secured.

Automatic Systems is a world leader in the automation of secure entrance control.

The company has been designing and manufacturing pedestrian, vehicle and passenger access systems for over 45 years.

Come and meet us!
Hall 3.0 / Booth 3A72

www.automatic-systems.com

SECURITY MANAGEMENT

Security Center

Cyber Security, Privacy, Authentication and End-to-End Encryption

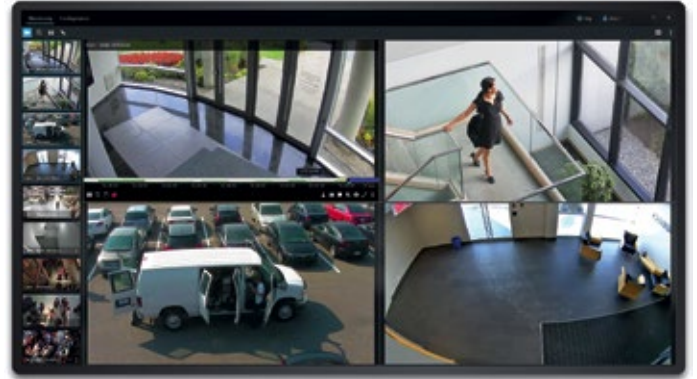
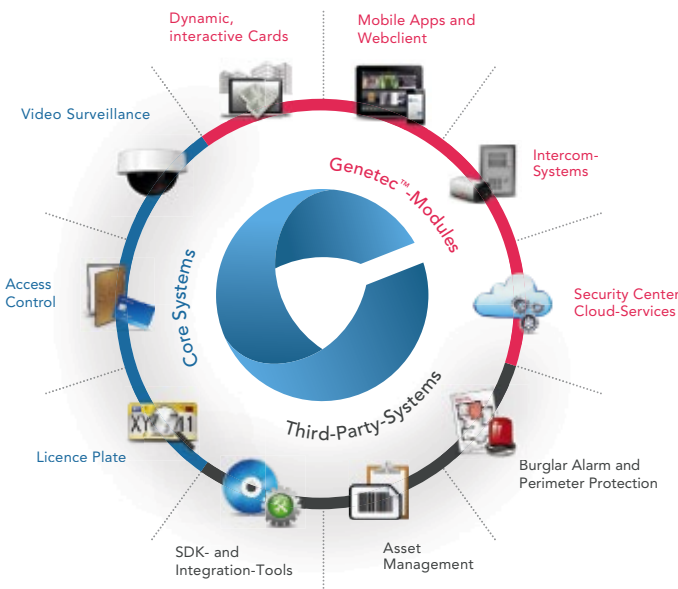
This year, Genetec will continue to lead the discussion on cyber security and the 'Security of Security' hardening via authentication, encryption, and privacy with its end-users, integrators, industry consultants, and broad ecosystem of camera, hardware and software partners. At Security in Essen, visitors will have the opportunity to discuss this topics with Genetec's experts at stand 2B30 in hall 2.0.

Security Center 5.5

At Security Essen, Genetec will showcase its latest version of Security Center, the company's unified IP security platform that combines access control, video surveillance, ALPR, and SIP communications features. Security Center 5.5 offers a new disaster recovery mode, enhanced levels of encryption and authentication focused on cybersecurity, supporting its 'Security of Security' measures with end-to-end encryption via secure real-time transport protocol (SRTP) including multicast environments, augmented video archiving and export management capabilities, and new choices for supported access control hardware. With innovative capabilities designed to help organizations better secure their sites, version 5.5 gives administrators greater control and protection of their security infrastructure.

New Operational Decision Support Software

Genetec plans to unveil a new decision support system designed to offer new levels of situational intelligence, visualization, and superior incident management. This new system will work in conjunction with Security Center to simplify an operator's tasks and decision-making process during routine activities and adverse situations. This new solution will address the operational needs of larger, multi-site deployments found in transportation, factories, government



facilities and higher education institutions by giving operators full control during the entire management cycle of incidents.

By intelligently qualifying incoming data from thousands of sensors and security devices, events, and alarms, this new solution will offer greater situational intelligence that exposes the true nature of events. Working with this greater insight and data, security personnel will be better equipped to handle day-to-day tasks and threats. The new Genetec decision support system will additionally feature post-incident capabilities, including sophisticated reporting and system auditing to ensure both internal and external compliance, when needed.

Latest Version of AutoVu

Genetec will feature the latest version of its AutoVu automatic license plate recognition (ALPR) solutions, highlighting the newest tools for law enforcement and parking. Along with the latest generation of Sharp and SharpX ALPR camera hardware on display, visitors to the Genetec booth will be able to learn about AutoVu Managed Services, a turnkey, cloud-based solution that allows parking customers to outsource their IT hardware management requirements to Genetec. Parking end-users will be able to get a demo of Genetec Free-Flow, a new module that helps increase parking efficiency by providing real-time inventory of illegally parked vehicles and expired parking permissions in monitored parking lots.

Camera, Hardware and Software Partners: A Growing Ecosystem

Each year the Genetec ecosystem of partners grows to support more edge devices and sensors, storage and support hardware and custom software applications, giving end-users unmatched flexibility and choice. This year on the Security Essen stand, Genetec is pleased to host.

CONTACT

Genetec Europe

Paris, France

Tel.: +33 1 727 125 93

www.genetec.com/solutions/all-products

www.genetec.com

I
magine
a new 32x
telezoom lens with
2 megapixels resolution for
excellent Full HD quality across the entire
zoom range and imagine it to be smaller and smaller and smaller



Visit us in Essen, Security
September 27-30, 2016
Hall 2.0 Booth A37

The new Fujinon lenses for 1/1.8" and 2/3"



With their compact size, Full HD images, large sensor formats, built-in fog filter and both analogue and serial control, the two 32x zoom lenses fit in various housings and are versatile for long-range surveillance applications even in low light and bad weather. Scan for more or visit www.fujifilm.eu/fujinon Fujinon. To see more is to know more.

VIDEO SURVEILLANCE

Partner of Choice

Edwardian Hotels London Confirms Single Source Supply Relationship with Hanwha Techwin

Three years after negotiating a single source supply relationship which resulted in all of its luxury hotels being equipped with Samsung branded video surveillance solutions, Edwardian Hotels London has confirmed that it intends to continue to entrust Hanwha Techwin Europe to fulfill all its requirements for IP network cameras and video recording devices.

Edwardian Hotels London collection of hotels include, 11 Radisson Blu Edwardian hotels ranging in style from bijou boutique to large-scale five star luxury establishments. The company also owns The May Fair hotel. Tucked away in London's luxury quarter in Mayfair, this has 400 beautifully crafted bedrooms, including twelve of the capital's most spectacular suites, a luxurious spa and a 201-seat screening room. A new 350 bedroom hotel in Leicester Square, London, is currently under construction.

"The safety of guests and staff is always on the top of the list of our priorities and so we are constantly reviewing the effectiveness of the video surveillance systems in operation at each of our hotels," said Mohamed Elsebahy, Group CCTV Manager for Edwardian Hotels London. "As and when it has been appropriate to do so, we have not hesitated to invest in the latest camera and video recording technologies."

Research & Development

Mohamed Elsebahy built an R&D facility at the company's Heathrow hotel where, with the help of Technology Consultant Nick Kalsi, he tested a wide range of cameras from Hanwha Techwin Eu-

rope and other manufacturers. "We have been very pleased with both the performance of the products and the quality of the support we have received from Hanwha over the last three years," said Mohamed Elsebahy. "The video surveillance system at our Heathrow hotel has even been complimented by local police officers. They have told us that they regard the system as the most reliable of all that are installed at the many hotels on the A4 strip and that they always have confidence in the system's ability to provide them with high quality video evidence.

"I nevertheless have to be certain that Edwardian Hotels London achieves maximum ROI from their investment in video surveillance systems. The R&D facility has given us the opportunity to evaluate the price/performance ratio of the latest generation of the company's high definition Wisenet cameras, alongside cameras manufactured by some of their competitors. But our evaluation criteria were not just about the features and functions of the cameras and recorders. It was important also to take into account the total cost of ownership, and so reliability, warranties and the level of technical support provided by the manufacturer were other important factors that we took into consideration."

Evidential Quality

The evaluations resulted in Mohamed Elsebahy and Nick Kalsi establishing that they could achieve the objective of capturing evidence grade, high definition images 24/7 in all locations throughout the various hotels with just three different types of Wisenet III IP network-based 2 Megapixel Full HD cameras. These were the SNV-6084 vandal-resistant dome, the Lite SND-L6013R IR dome and the Lite SNO-L6083R weatherproof network IR bullet camera which is equipped with a varifocal lens.

"The lighting conditions in public areas of the hotels such as the bars and reception can vary considerably depending on the time of day," said Nick Kalsi. "The Wisenet cameras' ability to generate high quality images even when the Lux levels are low, and in the case of two of the models that have built-in IR LED illumination even in total darkness, makes them ideal for many different types of environments within the hotels."

There are approximately 1,100 cameras currently installed throughout the Edwardian Hotels London estate. The majority of these are older generation cameras which are being replaced with SNV-6084, SND-L6013R and SNO-L6083R models as and when various areas of the hotels are up-



graded. The compact SND-L6013R dome is proving particularly popular with Edwardian Hotels London's design team from an aesthetic point of view.

On Record

The images captured by the IP network cameras are being recorded on SRN-1673S 16-channel NVRs which are equipped with a built-in PoE+ switch. This device was an attractive option for Mohamed Elsebahy and Nick Kalsi as it offers the opportunity to significantly reduce installation costs by negating the need for the provision of separate power supplies and switches. PoE+ functionality means that the SRN-1673S provides sufficient power for any ONVIF compliant PoE+ camera, including speed domes and domes with heaters.

Nick Kalsi is overseeing a program which will see Cat 6 cabling installed at all the hotels in order to achieve maximum advantage for the high definition IP cameras. "Migrating to an IP network based system will allow Mohamed Elsebahy and other authorized colleagues to be able to access live or recorded images captured by any of the cameras from any location on the network," said Nick.

"If they wish to, they also have the ability to remotely view activity on their smartphones or

tablets via the ipolis mobile app. The good news is that we have been able to continue to use Smart-viewer video management software which our control room operators are familiar with and find easy to use. It is a significant benefit that it supports our older generation cameras as well as the new Wisenet models.

"Our decision to continue to work closely with a single manufacturer has many benefits which include receiving expert, objective advice on the correct camera model for every location," said Mohamed Elsebahy. "We will shortly be seeking further advice from them on how we can best take advantage of the Open Platform technology built into their WisenetIII cameras. For example, having access to data captured by a people-counting app running on a camera could provide us with valuable information on how many people have entered the bar areas of our hotels and when."

CONTACT

Hanwha Techwin Europe
Weybridge, United Kingdom
Tel.: +44 1932 82 6700
www.hanwha-security.eu



SECURITY
ESSEN 2016
HALL 11
STAND 11C12

SmartHandle Designed to impress

The SmartHandle door fitting now impresses with its integrated Door-Monitoring function. Doors left ajar? Forced open? DoorMonitoring will immediately alert you of such events, allowing a rapid response.

- Such intelligence and style don't go unnoticed – honoured with the German Design Award Gold 2016.
- Manufactured in our production and logistics centre in Osterfeld: superior German-made quality.

Tel.: +49-89-99228-0 | www.simons-voss.com

SECURITY MANAGEMENT

Community Is Key

Building Partner Eco Systems to Meet Systems Integrator and End-customer Requirements

The world of video surveillance is changing and Video Management Software (VMS) market leader Milestone Systems is changing with it. The key to success now is thinking beyond its XProtect VMS and NVR product suites, to act as a catalyst for the building of multiple communities of partners, which together offer end-to-end solutions to customers around the world. As the IP video world matures, and more IT vendors join the party, adding value by helping build complete and future-proof solutions, becomes increasingly important.

Milestone has always had a strategy of technological and cultural openness – enabling a wide range of vendors to integrate with its software. The company sees this strategy as key to consistently outperforming the VMS market so that over the last 10 years it has maintained a Compound Annual Growth Rate (CAGR) of 26%, as against overall average VMS market growth of 20% (Source: IHS Research). In 2015 Milestone grew by nearly 32%. However, to continue to outperform and move from a linear to an exponential growth path, it needs to focus harder on building its partner community. This is why the company's strapline has changed from the 'open platform company' to 'open platform community'.

Building the Community Is the Central Focus Now.

As the VMS global market leader, its solution partners know that Milestone's equipment works well. But what they need to know now is how easily it can be integrated into the thousands of video analytics, access control, smart building, smart city, traffic monitoring and other vertical sector-specific software and hardware offerings that are out there.

Milestone offers a sophisticated open Application Programming Interface (API) and multiple Software Development Kits (SDKs) to enable vendors to hard wire their technology into XProtect. But over the last year, Milestone has been stepping up its commitment to both systems integration (SI) partners and vendor solution partners.

What does this mean in terms of concrete developments which partners might recognise? Firstly, Milestone is forming up to five deep-level integration-based partnerships with vendor solution partners each month today. For example at IFSEC this year, Milestone unveiled a partnership with server and PC giant Dell, which will see enterprise-sized security systems being 'road-tested' in Dell's advanced testing facilities around Europe. Dell's IP Video Platform Design and Calibration lab located at its Customer Solution Centre in Limerick, now becomes a vital new resource for Milestone to provide their UK & Ireland-based customers and integrators with validated and benchmarked solutions. Simultaneously, Dell will be working with Milestone to optimise its servers for

use with certain-sized systems to make the server configuration process for video management that much easier for SIs.

Expectations and Results

By the end of 2017, Milestone is expecting to put on at least 120 more of these sorts of strategic partnerships with IT, physical security and analytics vendors. It already has more than 400 such integrations in place. The workload to create these includes programming unique SDKs to ensure that vendor solutions work well together and wrapping documentation around these kits to make developers and decision-maker adoption and usage easier. It also works with vendor partners to ensure their technology is optimised for use with XProtect.

The results are already showing in numbers of new SDKs being requested and written and the number of SDK downloads happening which Milestone notes has risen from around 100 per month to more than twice that figure over the last year.

Video Surveillance Is the Base, Access Control Booms

Trine Voss, Head of Solutions Partner Program, Milestone Systems, explains: "Better still is that fact that 75 of those downloads are new unique users today. We think existing partners are collectively downloading a further 150 per month now. Download activity is growing month on month."

Milestone has also been looking more closely at the processes and workload associated with vendor integrations. It now focuses hard on working to its strengths of improving SDK documentation and front-end User Interfaces (UIs), within XProtect Smart Client and Milestone Mobile (its platform for displaying video on smart devices) for example. While vendor partners are asked to focus their resources on making sure their software is working optimally with XProtect.

It has gone further by accelerating commitment to testing and certifying solutions to give SIs and end-customers more peace of mind that Milestone certified systems can work well together. The majority of the testing and accreditation work today is with access control software and hardware offerings and video analytics software. However it is anticipating increased demand for smart building and building management systems integrations with XProtect and is preparing the ground for this emerging trend.

There is a boom ongoing in IP-based access control which Milestone is well placed to take advantage of because of its early roll out of the Milestone Access Control Module (ACM) which provides a platform for integration of a wide range of access control offerings already. Much of the innovation going on right now revolves around tightening integration between access control and IP video.

Integration Work

Milestone is already seeing IP access control-IP video integrations being put in successfully across

the UK. Milestone Platinum Channel Partner NW Systems Group recently integrated a pure IP video and IP access control systems for Liverpool-based transport-on-demand innovator Cabfind. This install saw Axis network cameras and door controllers, combined with Imron access control software and Milestone XProtect Express VMS using Milestone Access Control Module and XProtect Smart Client.

The results have been very positive as Michael Luddington, CFO at Cabfind explains: "As well as delivering a highly streamlined access control and surveillance system in our headquarters today, NW Systems has developed a fully networked system which is capable of being expanded as we strive for further efficiencies. For example, we may extend the use of the door control system, enabling it to double as a Time & Attendance system to help us better manage our people going forward."

Another install, this time in San Lucido in southern Italy, shows the potential for Milestone XProtect to sit at the heart of a community of vendors and integrators delivering Smart City projects. Although much of this integration work lies in the future, the potential offered by easier integration between IP devices is being factored in quickly by customers once Phase 1 implementations have been completed. Initially the Italian city has installed 36 Axis cameras in public spaces, all linked back to XProtect Express. They are using Smart Client to view these cameras centrally as well as Milestone Mobile to view live and recorded images on the move.

But it is the future story which looks even more interesting. San Lucido is considering integrating XProtect with new traffic classification software to help spot and clear traffic jams quicker. It is also planning to integrate a new IP audio speaker system, complete with tourist information panels, to improve the experience for tourists coming to the city in larger numbers.

As XProtect integrations between a wider range of IP devices are improved, and more examples emerge of the benefits of linking previously disparate systems, we will see an acceleration in adoption.

Networking Solves Problems

Thomas Lausten, VP EMEA, Milestone Systems explains working in the community: "The real change for us is that previously we were building 1:1 relationships with vendors that did not necessarily deliver finished solutions to the end-customer. Almost all projects today involve at least three vendors' systems so we see it as our job to make sure multiple eco-systems of products work well together and that any weak links are strengthened. We want to put the power of multiple partnerships we are now building to work in order to design and deliver a fully integrated solution for the end-customer. By working together more closely with more vendors and involving our integration partners more actively, we stand a much greater chance of winning projects which then go live and prove ROI (Return on Investment) faster."

Milestone has noticed that the UK market, that was late to the IP video party, relative to some other markets with less legacy product deployed, is now moving rapidly towards a 50/50 tipping point in which new and upgrade surveillance system requests are nearly always either IP or hybrid (IP & analogue). Trine Voss again: "This has meant that UK IP video integrators are now seeing very strong demand for their networking skills. For the CCTV installation traditionalists it is adapt or die time. There is a great deal of upskilling going on. Pretty soon this will be followed by consolidation."

It also means that IT vendors like Dell are taking a genuine interest in commanding a larger share of the overall video storage market which brings them into the security market more actively now. It is inevitable that as IT market-thinking is impregnating what was a fairly 'closed' CCTV world until recently. So-called 'disruptive' changes are not far behind.

Milestone is positioning itself at the very heart of inevitable market change, offering to provide the relationship and technology 'glue' to stick a wide range of physical security and business operational systems together with IP video systems. It wants to ensure that its SI partners can more easily build Milestone-based systems which prove their worth, not merely to the security manager but increasingly to the head of IT and other C-level executives.



Authors

Thomas Lausten, VP EMEA



Trine Voss,
Head of Solution Partner
Program of Milestone Systems

CONTACT

Milestone Systems A/S

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

VIDEO MANAGEMENT

The Bottom Line of VMS

5 Things to Check when Choosing Video Analytics

Video analytics is an ever evolving domain. New technologies and advanced solutions, usually referred to as next generation video analytics or simply – video analysis, enable users to do much more with this amazing data source. Video analysis search applications have an exciting promise and great potential benefits, how do we make sure we choose the right application for our needs?

Here are five simple checks that can help in this assessment:

Search scenarios – what are the scenarios that do you need to address? Does the solution cover all your real life search scenarios?

- Can you search for a suspect based on a verbal description?
- Can you search for a suspect based on a photo (taken from a mobile phone for example)?
- How fast can you trigger the search based on an image you see right now in your video footage?

Bottom line – search can take many forms and your application should be flexible enough to accommodate them all.

Compatibility with your infrastructure – will it work with all your cameras? Will it overload your existing hardware and software?

- Which resolution is required in order to perform well?
- Will it work outdoor as well as indoor?
- Do you need to replace cameras to a newer model?
- Do you need to change the version of your VMS?
- Do you need more servers? Or replace the existing?

Bottom line – you should evaluate the entire impact on your hardware and software, check if a suggested solution is agnostic to camera types and evaluate how costly a replacement might be, should one be needed.

Usability – how easy is it to use your search results for real life response? How fast can this translate into action?

You have found your suspect and can now see his latest footage! Great – now what?

- Do you know where his image was taken?
- Do you see it on a map or other visual display?

- How fast can you identify which are the rest of the near-by cameras?
- Can you easily direct field personnel to find him if needed?
- Can you understand the suspect's route and project where he might be heading to next?

Bottom line – the way to make immediate and effective use of a successful video suspect search (or “person search”) is to be able to understand all those elements at a glance and be able to share it with the field, this can be done, for example, by seeing search results on a map.

Accuracy – in certain situations, many people in the crowd are dressed the same. Can you still get an accurate result?

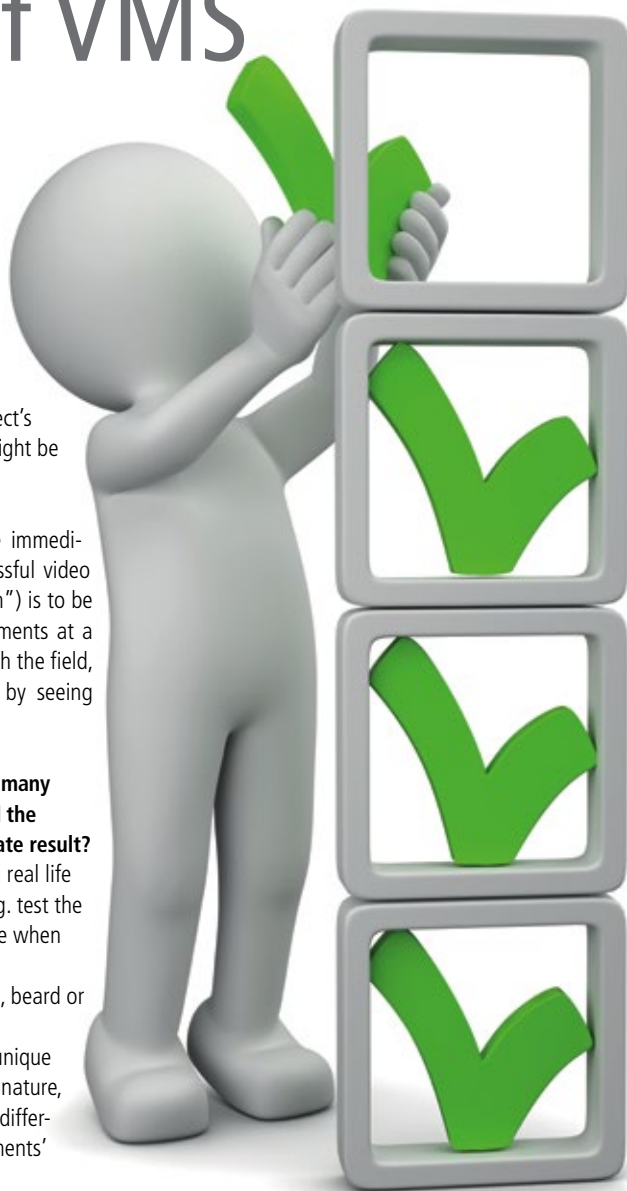
- Make sure you are conducting real life tests of real life challenges, e.g. test the scene at a business conference when many are wearing dark suits
- Can you include items like hat, beard or bag to the search criteria?
- Can your system account for unique traits of the suspect's body signature, such as contrast between the different clothing elements, or garments' patterns and textures?

Bottom line – when conducting a dry test run don't get tempted to search for the obvious “red shirt”, try to see if less “unique” appearances also get detected with high success rates.

Performance – are you confident in the performance you are going to get?

- How fast is the response time of the application in real life situations? Seconds? Minutes?
- Does it fit a scenario with average volumes of people in the scene or will it handle also extreme cases? (e.g. thousands of people per minute)
- Was your solution installed in similar environments in terms of traffic (people passing through relevant areas in any given time)?
- Can you get a successful reference from similar installations in a similar environment?

Bottom line – if you want to create an impactful positive change on your security operation, make



© fotomek - Fotolia.com

sure that you get to see how well your daily needs will be addressed, based on proved experience of other similar clients, with the video analytics search applications you are examining.

Video Analysis works, and can be instrumental when you need to find something or someone fast. If you take the time to check what you really need and appropriately assess the solution you are evaluating, you have greater chances of finding the solution that truly makes an impact.



Author
Erez Goldstein, Qognify



SIEMENS

Ingenuity for life



Siveillance Viewpoint – PSIM redefined

Optimize your safety and security technology
to create a complete picture, provide full
control and master every incident.

Security is of growing strategic importance to companies around the globe. Siemens enables security that means business by taking a completely new approach to Physical Security Information Management (PSIM). Offering the first solution which has removed complexity while fusing danger management and command and control functions for:

- Fully georeferenced system intelligence
- Advanced alarm correlation and workflows
- Interactive visualization with Multi-View

The new way forward to boost system intelligence and operator efficiency for advanced security – Siveillance Viewpoint™.

[siemens.com/siveillance-viewpoint](https://www.siemens.com/siveillance-viewpoint)

CONTROL ROOM

Lights On

Eyevis Helps Energy Provider Carroll EMC Control Their Network

Carroll Electric Membership Corporation (EMC) is a not-for-profit, consumer-owned business that distributes electricity to about 49,000 residential, commercial and industrial customers in areas including Carroll, Haralson, Heard, Paulding, Polk, Troup and Floyd counties in western Georgia. The association was founded in 1936 and, as a co-operative, embodies a business philosophy of operating at the lowest possible cost for its members, who each have a share in ownership.

The energy provider has a system which covers approximately 5,300 miles of power lines with 25 distribution substations, distributing more than 1 billion kilowatt-hours of electricity annually to almost 50,000 customers. Its new control room features a video wall made up of four Eyevis 70-inch EC-70-LHD-1000 LED-lit DLP rear projection cubes with Full-HD Resolution as well as a netPIX 4900 video wall controller and eyeCON video wall management software.

The 24/7 control room is helping US energy provider Carroll EMC to monitor and maintain power supplies to homes right across Georgia. The project, which included overcoming significant design challenges, is one of an increasing number completed by the company's North America branch that

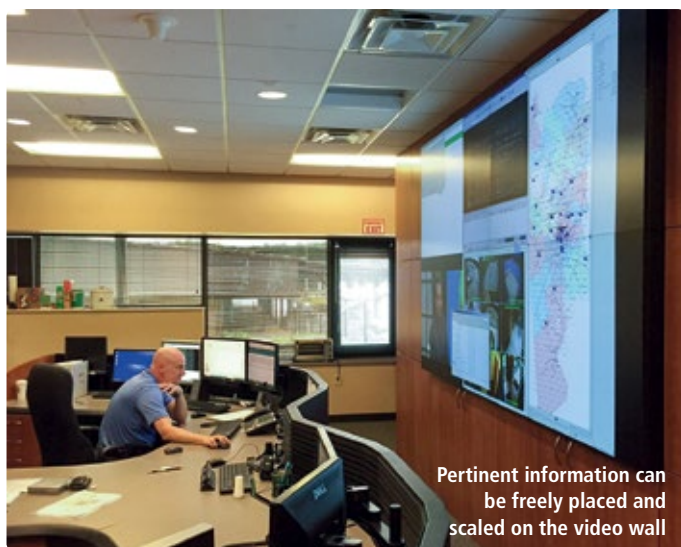
utilizes Eyevis technology and counts on its reliability, ideal for control room applications.

Rear Projection Cubes Run 24/7

LED-lit Digital Light Processing (DLP) rear projection cubes are invulnerable to prolonged presentation of static content, and the DLP cubes with their minimal gap have an outstanding long LED lifetime of up to 80,000 hours. Each of the four cubes here provides native Full HD resolution (1920×1080 pixels) in 16:9 aspect ratio and was especially designed for applications which require reliable 24/7 operation. The combination of the supplier's own netPIX controller and eyeCON wall management software that run the system enables the display of any source signal in any size and position on the video wall. This ensures all necessary information is presented to the operators in an adequate manner.

Change Out

James Layton, Manager of System Engineering at Carroll EMC: "We selected Eyevis as their product range coupled with their technical knowledge was instrumental in our selection process. They overcame the complicated design challenge of using the existing framework with the new cubes to deliver a fully working, high quality solution in a demanding timescale." Lee Baxter, Sales Manager for Eyevis, North America, said: "Keeping the lights on for the people of western Georgia involves the continuous monitoring of thousands of miles of power lines and numerous substations and we are delighted that Carroll EMC has chosen the reliability and efficiency of our video wall technology for this project."



Pertinent information can be freely placed and scaled on the video wall

CONTACT

Eyevis, Reutlingen, Germany

Tel.: + 49 7121 433030 · info@eyevis.de · www.eyevis.de

EVENTS

International Events

Messe Frankfurt Holds an Extensive Portfolio of Safety and Security Events

In the expanding international market for civil safety and security, a total of eleven events means Messe Frankfurt ranks high among the world's fair and congress organizers. Under the Intersec and Secutech brand names, the fair and exhibition company holds events in Germany, Asia, the Middle East, Russia, South America and East Africa and brings the suppliers and customers in the most dynamic growth markets of the safety and security sector together.



The latest addition to this portfolio is Intersec Saudi Arabia, which will be held as an offshoot of Intersec in Dubai for the first time in Jeddah next May. "Saudi Arabia is one of the world's most attractive markets for the safety and security business because the Kingdom is doing everything possible to secure its borders and to protect the vital petrochemical and public infrastructure", says Wolfgang Marzin, President and CEO of Messe Frankfurt. The echo from the sector has been impressive: 18 market players, including Germany's Smiths Detection, HID Global, CP Plus

and Dräger, have already confirmed they will be taking part in the first Intersec Saudi Arabia.

Discussion Forum

For the German safety and security sector, Intersec Forum – the conference for networked safety and security technology – is an important date in the 2017 calendar of events. To be held in Frankfurt am Main on 16 and 17 March next year, the Forum will look at tomorrow's safety and security technology within the framework of building automation, technical planning, equipment and instal-

lation. Intersec Forum 2017 has been conceived as a concurrent event with ISH – the world's leading trade fair. The Bathroom Experience, Building, Energy, Air-conditioning Technology, Renewable Energies.

CONTACT

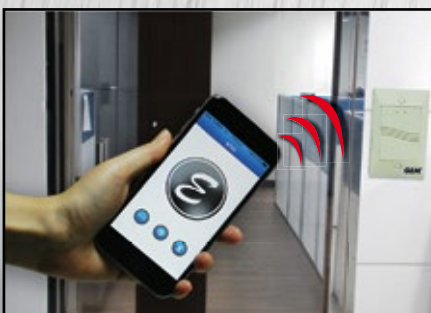
Messe Frankfurt Exhibition

Frankfurt, Germany

Tel.: +49 69 7575 0

info@messefrankfurt.com

www.intersec-forum.messefrankfurt.com



GEM S-Access

Bluetooth Access Control Reader



Proximity Reader

**Your Phone
is Your Key!**



EVENT

Security Essen Preview



The biannual event Security Essen is well-known for its importance in the security industry. Fire prevention combined with other security topics are all to be found under the roof of Security Essen as they once again open their gates from September 27th to 30th.

In numbers that means: 1,045 exhibitors from about 40 nations welcome 40,000 visitors from 110 countries.

Security Essen once again presents thematic areas of the exhibition as six cornerstones:

- **Fire Prevention:** One of the top themes of the exhibition is fire prevention. 2016 it will be even bigger: predominantly in the area of constructional fire prevention. There will also be a larger focus on live demonstrations. In addition closer collaborations with fire prevention associations and guided tours are planned. The whole topic will be displayed in Hall 1, 3.
- **IT Security:** The Internet of Things and Industry 4.0 with increasing networking and the exchange of large amounts of data, security requirements are also increasing. Always at the cutting edge Security Essen provides a stage for new security solutions from the IT industry. Current issues like economic security and critical infrastructure protection find their place at security Essen. Find it in Hall 7.
- **Mechanical security systems:** Within the framework of complex system solutions this core sector moves with times in terms of market developments. In 2016 a strong focus on integrated solutions for anti-burglar protection will be placed and can be found in Hall 5, 10, 11 and 12.
- **Electronic security systems:** Video surveillance based on "behavioral recognition systems" is the subject of enormous interest for the political and economic sphere. There is a large market potential for intelligent cameras.
- **Services:** Security Essen provides information regarding current, critical topics such as global travel security. The associations BDGW and BDSW will be returning in 2016 with a wide range of events right from the outset including a session with a committee of technical experts, presentation of the 'safety chain' and demonstration of the 'cash cycle'. All can be found in Hall 6.
- **Perimeter security:** An ever-greater focus is being placed on active and passive perimeter security. This involves the protection of companies and high security areas such as embassies airports. Topics concerning perimeter security will be located in Hall 3,4.



Must See's and Go To's at Security Essen

Exhibitor Forum in Hall 7: Many exhibitors will present, demo and discuss important topics. Further information about speakers and timetable will follow soon.

- Young innovative ventures Hall 5: Don't miss the best startup's joint booths, which are sponsored by the Ministry of Economy and Energy.
- Security Research Area in Hall 5: Companies and Institutes show their newest projects in research and development.
- Special show for Safety, Security and Service Hall 6: After the great success of recent years, the industry get-together of mid-sized companies will be much bigger this year. All notable security service providers will show their faces again.
- Topic of Global Travel Security Hall 6/Transition Hall 8: How do you evaluate risks and protect your employees in foreign countries? You can find the answers here.
- Security Forum: At the Security Forum of 2014, there was a nonstop program with over 90 expert presentations - for beginners and experts equally. Federations, manufacturers and practitioners show a short introduction into the field of security. Speakers discuss classical topics as well as electronic and mechanical security technology, fire prevention, services, CCTV, IT-security and access control. The full program will be available soon.

Microsite Security Essen 2016

„Enter the World of Security“ is the main theme of GIT SECURITY's newly launched Microsite about the exhibition Security Essen 2016. Please feel free to visit and learn all about the fair and important topics around that.

With editorial content all about Security Essen 2016 – news, trends, background info and products – this Microsite provides information in advance to the exhibition.

Theme Tours

Another unique feature of the Microsite Security Essen 2016 is the topic Theme Tours. We guide visitors (as per article) through the exhibition



under the heading of a specific topic. So, we give insight on that topic and also suggest certain companies to visit at the exhibition that fit for each tour.

There are five Theme Tours: Access Control, Anti-Burglary Protection, Video Surveillance, Perimeter Protection and Fire Protection.

These Tours are set up as continuously evolving articles – that means, we create more detail on each tour before and throughout the exhibition. With the GIT SECURITY Theme Tours visitors navigate through the exhibition where they can talk to the experts directly at the booths.

News

Booth events and exhibition news are also being provided on the microsite next to product news. Check out which booth events are taking place and don't hesitate to visit the GIT SICHERHEIT/SECURITY (Hall 2.0, Stand 2E07) stand.

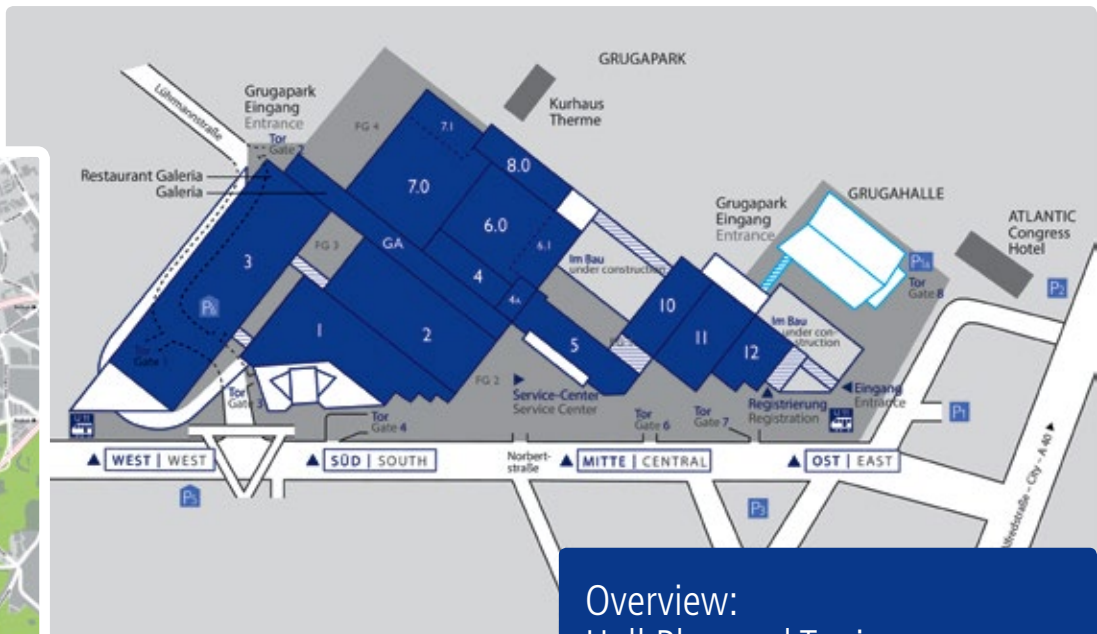
Around the Exhibition

There is also practical information provided on the microsite. Any troubles with your journey? Take a look at our travel suggestions.



[www.git-security.com/
security-essen-2016](http://www.git-security.com/security-essen-2016)





Overview: Hall Plan and Topics

To provide you with a solid impression about the fairground, we listed the halls and their themes below.

Location based

- Gallery – Access Control, Alarm Systems
- Hall 1 – Fire Prevention, Fire Alarm-systems, Smoke- and Gasdetection
- Hall 2 – Video Surveillance, Italian Pavilion
- Hall 3 – Fire prevention, Open-air Site Security, System Provider, British and American Pavilio
- Hall 4 – Open-air Ground Security, Perimeter Security, Video Surveillance
- Hall 5 – Electronic and mechanical security systems, Access Control, Shared Booths: Young Innovative Companies, Security Research
- Hall 6 – Services, Special Vehicles and Equipment, Shared Booth: Global Travel Security
- Hall 7 – IT-Security, Video Surveillance, Chinese and Taiwanese Pavilion
- Hall 8 – Video Surveillance, Chinese, Korean, Taiwanese Pavilion
- Hall 10 – Electronic and mechanical security systems
- Hall 11 – Electronic and mechanical security systems
- Hall 12 – Electronic and mechanical security systems

Topic Based:

- Fire Prevention – Hall 1/3
- Mechatronic Security Systems – Hall 5/10/11/12
- Services – Hall 6
- IT-Security – Hall 7
- Electronic Security Systems – Hall 2/7/8/GA
- Open-air Site Security – Hall 3/4

Check the Dates

Tuesday, 27.09.: Day of Apprenticeship and in-service training

On the first exhibition day, students, lateral entrants and pupils can catch up on apprenticeships and career prospects in the security industry. In the past years, several hundred students took the opportunity to get in contact with security experts.



Wednesday, 28.09.: Expert Congress Networked Security / Industry 4.0

It's a first for the Security Essen to have a congress about networked security

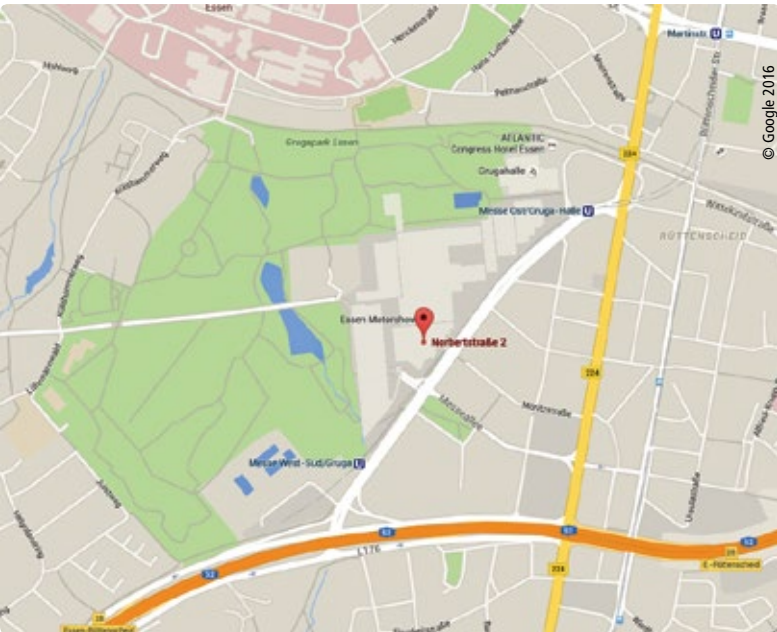
- Experts speak about Industry 4.0, increasing networking and growing demands for security
- Professionals from the Fraunhofer Institute for Applied and Integrated Security as well as from Berliner Institute of Computer Science show scenarios for possible digital attacks and do a risk assessment
- Practical oriented examples concerning Industry 4.0 and networked security round off the program
- On top of that, a forum is held right next to the IT-exhibitors. Compact presentations give information to visitors about security solutions.

CCwest:

Another premiere: Experts and scientists inform you about Industry 4.0 and show practical examples.

Thursday, 29.09.: Day of Fire Prevention

Outdoor area: experience spectacular live demonstrations and thrilling presentations and discussions on the out-door areas.



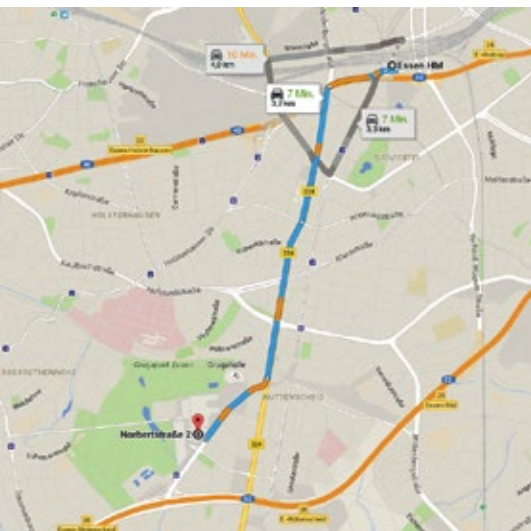
Arrivals

By Car

You can reach Messe Essen quickly and easily by car via the Rhine-Ruhr motorways A52, A3, A40 and A42. Ample parking facilities are available next to the fairground. From there, you can reach the fairground comfortably either by an easy walk or by taking the fair shuttle bus.

Address for navigation systems: Norbertstraße 2, 45131 Essen

Please bear in mind that there is a marked inner low emission zone. Within the marked zone, a driving ban has been imposed on all motor vehicles bearing a red pollution badge or no pollution badge.



By Train

The central station of Essen is a railway junction for more than 120 daily ICE, InterCity, EuroCity and inter-regional connections in all directions. From there, you can reach Messe Essen in only 5 minutes by underground railway, Line U 11.

The cooperation package deal from Messe Essen and Deutsche Bahn (German Federal Railways) offers you relaxed, comfortable travel to the fair.

Your long-distance travel to and from the fair by German Federal Railways on an event ticket is powered by 100% green electricity. The energy required for your trip is procured exclusively from European sources of renewable energy.

The price for your event return ticket to Essen is:

- 2nd class 99 Euros
- 1st class 159 Euros

At the Airport

To the fair by Airport Express

On all trade fair days, the Airport Express bus departs every 30 minutes between 7:45 a.m. and 6:45 p.m. from the Arrivals level in front of the hall, Terminal A/B bus station 1. The trip takes about 20 minutes.

Stop at the Düsseldorf Airport: Arrival level Terminal A in front of the hall at exit C.

- Return journey: € 25.00
- One-way: € 15.00



New Video Engine Release Increases Performance

G-Core, Geutebruck's video engine, starts the second half of the year with a new release. The associated performance increase of High Speed MOS also further improves ease of use. Searches for movement in a defined image area are noticeably more efficient with the new release. There are also improvements to the camera range: 4K and fisheye cameras in the company's E3 series can now be operated in secure HTTPS mode using encryption, and significantly more third-party cameras are supported. The issue of security against manipulation of exported video images is addressed by a range of formats receiving an authentication key by default, so they can be checked for authenticity with G-View.



Security Essen: Hall 2.0, Booth 2C38

www.geutebrueck.com

Mobotix Wins Patent Challenge Again

On request by Mobotix Corp to review US Patent No. 6,975,220, the US Patent and Trademark Office (USPTO) ruled that the main claims of the patent are invalid and will be canceled. In 2013, the digital video surveillance patent had been asserted in lawsuits filed by Texas-based Comcam International against Mobotix and several other companies. Documentation on the Mobotix M1 camera published at CeBIT in 2000 as well as third-party documents show that patent claims an invention that was already publicly known. Mobotix petitioned the USPTO to do an 'inter partes review' of Comcam's patent. It issued a decision in April, finding virtually all of the claims are un-patentable. Mobotix considers it objectionable to bring an infringement action based on overly broad patent claims that should have never been issued. „We will defend ourselves vigorously against such claims and request 'inter partes review' to challenge and cancel them,“ says Dr. Tristan Haage, CEO at Mobotix Corp.

Security Essen: Hall 1.0, Booth 1B10

www.mobotix.us

Compact 50-inch 4K LCD Display

German digital display specialist eyevis has added a compact 50-inch version to their range of professional 4K/UHD LCD screens. The EYE-LCD-5000-QHD extends the six product line-up from 50 inch up to 98 inch displays with four times Full-HD resolution of 3840x2160 pixels. All displays have been especially developed for use in professional applications. A robust mechanical design makes them suitable for control rooms, conference and training rooms, digital signage or broadcast and installation both in landscape and portrait orientation.



Security Essen: Hall 1.0, Booth 1B22

www.eyevis.de

High-speed Goods Railway Gate

A fully cantilevered Entraquick II quick-folding gate in trackless design from Wego has now been installed at Thyssen Krupp Rasselstein in Rhineland-Palatinate, Germany's only tinplate manufacturer. With around 2,400 employees, the company supplies approx. 400 customers in 80 countries. The company needed a railway-compliant gate solution to secure the rail goods entrance with very high opening and closing speeds. The gate is also linked to the on-site axle counter system. It is particularly stable, doesn't require an additional floor lock in the closed position and no run back area is required.

Security Essen: Hall 3.0, Booth 3C72

www.perimeterprotection.net

German Brand Award 2016

Simons Voss, a manufacturer of electronic locks and a brand of Allegion, is the winner of this year's German Brand Award 2016. The German Design Council - the representative of international design and brand activities in Germany for over 60 years - honored the digital locking systems specialist's 'exceptional brand management' with the sector's 'Best Product and Company Brand' in the Building and Elements category. The award ceremony took place during a Gala event in Berlin in June. Nicole Huffer, head of marketing communications at Simons Voss said, „We have not only carried out pioneering technological work with our digital locking systems, but also always pursued the aim of realizing a keyless world with user-friendly, well-designed locking systems. To achieve this, we have established appealing product design and simple operation of our digital locking systems as core elements of our brand. We are extremely pleased about the recognition that the German Brand Award 2016 gives us.“



Security Essen: Hall 11, Booth 11C12

www.simons-voss.com

Range of Zoom Lenses in Essen



This year's booth of Fujifilm Europe at Security Essen focuses on the great variety of the company's zoom lenses. Among the highlights on the booth are the Full HD zoom lens series with 32x and 60x optical magnification, to be seen in live demonstrations. To respond to increasing market demands for color images even in low light, the lenses are designed for large sensor sizes of 1/1.8" and 2/3". The 60x telezoom lens series D60x16.7 and FH60x20 feature 2 megapixel Full HD resolution and cover a focal length range of 16.7 – 1000 mm and 20 – 1200mm respectively on 2/3" sensors.

Security Essen: Hall 2.0, Booth 2A37

www.fujifilm.eu

Video Management Solutions Experience

Seetec will be presenting video management applications for a wide range of areas and industries at this year's Security trade fair in Essen. The new Seetec Cayuga R9 product version will be presented to customers and partners in realistic themed areas. The company will demonstrate typical video solutions in the themed areas of industry, transportation, logistics, retail, finance and correctional facilities/prisons at their 100 m² booth 2D11 in Hall 2. Mobile systems such as body cams and drones will be on show alongside logistics solutions aimed at forwarding companies and parcel service providers.



Security Essen: Hall 2.0, Booth 2D11

www.seetec-video.com



New Horizons

GIT SECURITY and GIT SICHERHEIT at the Wiley Stand

Our team would be more than delighted to see as many visitors and exhibitors as possible at our stand in hall 2.0, stand 2E07. Feel free to visit us and have a chat with the sales and the editorial team. Take a look at the latest issues of GIT SECURITY and GIT SICHERHEIT and a selection of Wiley books and publications.

GIT SECURITY AWARD, Happy Hour and Prices

Come and visit our stand for the GIT SECURITY AWARD Ceremony, GIT Happy Hour and win a price draw: Tuesday, September 27th, at 5pm.

**Tuesday, September 27th,
5–6pm, Hall 2.0 / 2E07:**

Readers, customers and partners are welcome to witness the GIT SECURITY AWARD ceremony. The GIT SECURITY AWARD winners have gone through a tough jury of security experts. Ten finalists have been nominated for each of the five categories. After that, the readers of GIT SECURITY and GIT SICHERHEIT had their chance to vote for the top three, which will be awarded in a ceremony at the Wiley stand. Come and find out which the top three products of the year are. On top of all that, we will serve you a traditional Alsatian beverage and appetizer: cidre and tarte flambée.

**Thursday, September 29th
5pm, Hall 2.0 / 2E07:**

Join the Wiley Happy Hour – With cidre and tarte flambée, authors, clients and readers are invited to have snacks and drinks. Enjoy some relaxing time after a hard day at the show together with our team.

Price Draw: Take a closer look at our Newsletter registration. You might be one of the lucky winners of the price draw: First price is a safety driving training.



High Security in Focus at Security Essen 2016



27th - 30th September 2016
Hall 3 . Booth 3C72
Messe Essen



ACCESS CONTROL

Digital Locking Systems

SimonsVoss at Security 2016

Simons Voss, a manufacturer of electronic locking systems and an Allegion company, will once again be demonstrating its digital locking systems at the Security event in Essen. Visitors can expect to see the latest developments of the continuously optimized 3060 locking and access control system. The company will also be launching its 3062 digital Smart Handle with door monitoring function and the 3063 Smart Relay 3 advanced universal control unit. Not one to miss is the intelligent SME Mobile Key solution as an online variant and the very latest developments from the Smart Intego integrated access control product.

An elegant and ergonomically designed door fitting that can manage access for up to 64,000 users, the 3062 digital Smart Handle now has three integrated sensors that constantly check the status of the door and report their results in realtime to the access control system. This equates to an ultra-compact door monitoring system. There is never any doubt about whether a door is opened or closed, locked or unlocked and the fitting will report any exceeded time limits or forced opening of the door. It is easy to install as no cables, drilling or exchanging of locks is required.

The 3063 Smart Relay 3 Advanced establishes a virtual connection to all locks within a building. The user no longer needs to link each individual locking device to the central control centre via a router as all locking devices can be connected to one virtual network. Controller and reader can be operated with active and passive media

(transponders as well as Mifare Desfire and Mifare Plus). Other systems such as elevators, machines, locker systems, etc. can be integrated into the network via the Smart Output module.

Mobile Key Now Also Online

Small and medium-sized enterprises who want to exchange their traditional keys for digital transponders can opt for the Mobile Key. The system caters for up to 20 doors and 100 users and can be very easily configured by using a free app. The online extension for the system means that all components of the locking system are directly connected to the server via a Smart Bridge so authorizations can be changed virtually in realtime.

Key4friends is a further function of the system intended to cover short-term access needs. People can be granted time-limited access by sending the

access codes to their smart phone (Android or iOS). They just need to download an app for the process to be complete.

Smart Intego for Complex Access Control

This is a solution for the integration of smart locking and access components in existing and complex security systems of all sizes. Its components - locking cylinder, handle, pincode terminal and gateway node - are seamlessly connected to even the most complex building security systems.

CONTACT

SimonsVoss Technologies

Unterfoehring, Germany

Tel.: +49 899 922 8200

marketing@simons-voss.com

www.simons-voss.com

Security Products

Solution Unveiled

Integrated security manufacturer TDSi enjoyed a 21% increase over 2015 in new visitors at the recent IFSEC International 2016 event at ExCeL London, which the company partially attributes to the unveiling of its new Gardis online security solution, an ONVIF Profile A and C compliant platform. John Davies, TDSi's MD, commented „We have seen a 21% increase in individual visitors as well as an impressive 38% increase in those from overseas export markets. We believe this not only shows a strong interest in cloud-based security systems, but also shows the UK and international markets are thriving.“

www.tdsi.co.uk

Invisible Barrier

Absolute Pro is a high security, IP based and modular dual technology barrier that combines a bi-directional IR beam with optical synchronization and microwave technologies within one unit. Developed for long range outdoor surveillance (up to 200m coverage between transmitter and receiver unit) for high risk areas located in critical environments, the active barrier is still able to maintain security during thick fog, heavy rain, strong snowfalls and sandstorms. The system provides a high reliability of intruder detection with minimum false alarms and can be custom designed to any height and component array suiting each individual security requirement.

www.sicurit.com

Stadium of the Future

„The Stadium of the Future should offer the ultimate game experience, while ensuring that everyone is safe at all times“ says José Pedro Ribeiro, Infrastructure and Operations Manager at Estadio da Luz, the home of Benfica Lisbon soccer team. Based on a standardized platform, the Building Integration System (BIS) installed there can easily integrate equipment sensor data, analytics and important new technology from Bosch or a third party. Using a single, all-in-one screen interface, stadium operators can monitor equipment performance, fire alarms, intrusion alarms, access controls, video and sound systems.

Security Essen: Hall 2.0, Booth 2D06 www.boschsecurity.com

64 Channel NVR

This autumn, Idis will add a new powerful NVR to its series, the DR-8364D. The 64-channel, Full HD recorder offers high H.265/H.264 dual codec performance and features the company's Smart Failover technology. Providing users with cost-effective and worry-free surveillance, this powerful new NVR is particularly suited to large enterprise customers.

Security Essen: Hall 2.0, Booth 2D06 www.idisglobal.com

Innovative PSIM Portfolio Element

Siemens Building Technologies Division has added Siveillance Viewpoint for Physical Security Information Management (PSIM) to its security portfolio. The open and flexible integration platform combines danger management and select command and control functions, giving a clear and structured overview of events as well as of the entire detector landscape. It allows security personnel to respond quickly and efficiently to incidents, especially in complex infrastructures such as industrial production facilities, by combining fire safety and security disciplines into one platform. Using georeferencing, the system intelligence allows individual detectors to be localized in three-dimensional space for full situational awareness and control.

www.siemens.com

Global trade fairs and events Security.Safety.Fire.

intersec

Dubai, UAE

secutech

Taipei, Taiwan

intersec

SAUDI ARABIA

Jeddah, Saudi Arabia

secutech

INDIA

Mumbai, India

intersec

BUENOS AIRES

Buenos Aires, Argentina

secutech

VIETNAM

Hanoi, Vietnam

intersec

forum

Frankfurt am Main,
Germany

secutech

THAILAND

Bangkok, Thailand

innosecure

Düsseldorf, Germany

SEGURIEXPO

BUENOS AIRES

Buenos Aires, Argentina



Moscow, Russia



Nairobi, Kenya

safety-security.messefrankfurt.com





COVER STORY

The Key Issue

Assa Abloy Provide Flexible Access Management with Programmable Keys and Cylinders

The world today presents an array of threats to any site's security: an employee could copy a key without authorization; a contractor might lose their keys over a weekend; a power outage can temporarily compromise a building management system or a data center may experience an unwanted breach of its physical security. These are all clear and present risks to any secure premises, yet all of them can be minimized. Assa Abloy helps counter these risks with their Cliq technology.

Cliq is a mechatronic locking system that combines mechanical and electronic security in a broad range of key-operated cylinders. Physical security is maximized with a range of tamper-resistant mechanical cylinders and the Cliq technology adds an extra layer of encrypted electronic security on top. The cylinders can protect more than just doors: the range include locks for gates, cabinets, cupboards, elevators, machines, gates and many outdoor areas. Hardened steel padlocks with high IP ratings are designed to work outdoors in the harshest climatic conditions.

Mike Urwin, Scunthorpe Hospital's clinical director of pharmacy and medicine management has

implemented Cliq locks at Northern Lincolnshire and Goole NHS Foundation Trust to protect drug and medicine cabinets and is very happy with the benefits they bring. Lost keys are quickly and simply de-authorized by a system administrator. In the words of Mats Fagerström, chief security officer at another customer, Helsingin Energia: "If someone goes out on a Saturday night and loses a key, it is not a risk to us anymore." Dave Richmond, Director of Housing, Asset Management and Neighborhoods at Rotherham Council where Cliq locks secure vacant public housing between tenancies, says "The system speeded up our operations and made sure we could be confident about the secu-

rity of our properties. This system has enabled us to have more control over our keys."

Now and Then

In any setting, every system key and cylinder is programmable by an administrator using the associated web-based software that makes it simple to manage access rights, to enable and disable keys and to customize access schedules, either on-site or on-the-go using several kinds of programming devices. Lost keys are quickly and simply de-authorized by a system administrator. Fine-grained permission schedules and audit-trails, right down to the individual door or locking point, can be set



CLIQ makes flexible access management easy



Fast, easy standard battery replacement in the key – no need for tools



Web-based software delivers hassle-free access and workflow management

for every employee or contractor. Every key can be programmed to permit entry only at pre-set times – during working hours from Monday to Friday perhaps, or after hours for cleaning staff.

Cliq technology also reduces operating costs due to its simple wire-free installation. Power to operate the microelectronics inside a cylinder

comes from a standard lithium-ion battery inside the key. The enhanced security can be obtained as a new installation or retro-fitted to existing mechanical locks. Assa Abloy sells and supports Cliq locking technology worldwide under several brands, including Ikon, Abloy, Mul-T-Lock, Assa, Vachette and Keso.

CONTACT

Assa Abloy Digital Access Solutions

London, United Kingdom

Tel.: +49 30 8106 2970

thomas.schulz@assaabloy.com

www.assaabloy.com

more info at www.PRO-4-PRO.com/security

Security Products

New North German Branch Office



Dallmeier, the provider of network-based video security technology, develops and manufactures all its products at its HQ in Regensburg, Germany. The company has now opened a branch office in Schneverdingen, near Hamburg, Bremen and Hanover, to strengthen its presence in the north of Germany. Besides offices and meeting rooms, there is also a modern solutions and developments showroom where customer presentations, training events and workshops can be held. The offices are in the triplus IT system house, a Dallmeier project partner. Gerhard Hinrichs, MD, sees a very optimistic future: „We are very glad to welcome such an outstanding manufacturer to our site, and I have no doubt that both of our companies will benefit immensely from the synergistic effects.“

www.dallmeier.com

Smart, Smarter, Door Monitoring

Simons Voss has enhanced its Smart Handle door fitting for their 3060 digital locking and access control system with intelligent door monitoring. This is integrated into the fitting and ensures that door status is clear at all times: open or closed; secured or not. The contactless system communicates with identification media via the integrated reader, information being continuously transmitted wirelessly to the digital locking and access control system control panel and raising the alert when a door is open for longer than it should be or if someone tries to force open a door. The fastening screw sensor checks whether the door is open or closed, while the deadbolt sensor verifies whether the door is locked or not. The internal handle contact sensor establishes whether the handle may be used from the inside, ensuring that there is no forced entry from the outside.

Security Essen: Hall 11, Booth 11C12



www.simons-voss.com



ACCESS CONTROL

Open Approach to Standardisation

OSS Association Paves the Way to New Opportunities for the Access Control Market

The physical security industry has a long history of making do with proprietary systems. This has led to today's challenges of dealing with incompatible legacy systems, wasted investments and great difficulties anticipating future security requirements. The Open Security Standard (OSS) Association strongly believes that the way forward, and the only way to guarantee on going compliancy, scalability and extended platform lifecycles, is to establish open industry standards.

The Open Security Standards Association's main goal is to develop standardised protocols, components and encoding for the access control market and its associated hardware and software. Its first initiative, for example, was to develop the OSS Standard Offline, which allows offline locks to be incorporated into access control systems more easily.

OSS has attracted membership from leading manufacturers, including Assa Abloy, Nedap, Uhlmann & Zacher, dorma+kaba, xPlan, primion, Islog, CEStronics and UniTecnic – all of which recognise the great value of open security standards for the industry and its customers.

We talked to them about the association and what they believe it will achieve. The first thing we wanted to know was what made them found or join the OSS Association. Which trends in the security market, and especially access control, prompted them to take action?

A Growing Desire for Freedom

Co-founder Nedap has seen the demand for wireless locks grow significantly due to them being easy and cost-effective to install. "But", says Jeroen Harmsen, marketing director at Nedap, manufacturer of access control systems, "as companies expand, the management of wireless locks becomes more and more complex. That's when integrating wireless locks into access control management systems becomes crucial. Also, vendor lock-in is no longer accepted. Companies want the

convenience and freedom to choose with no worries about integrations."

Hartmut Beckmann, director of sales and business development at Uhlmann & Zacher, agrees that customers are increasingly looking for more flexibility. He says: "A growing trend in access control is the use of electronic locks. And, for big customers in particular, standards are important to allow more flexibility. In the CCTV market standards are already common, and this will happen in access control."

Assa Abloy also believes that the move towards open standards is similar to the shift seen in the CCTV market, but is progressing at a faster pace. The company's EMEA Aperio product manager, Matthias Weiss, says: "To allow access control software providers to be more flexible in enabling the interoperation of offline locks, we decided to drive open standards forward and become a founder of the OSS Association."

Giving Customers Clear Choices

IslogG has noticed that security's becoming increasingly more important to companies and they're looking for mix and match options that suit their needs at any given time. CEO Lionel Moerel says: "Customers don't buy a 'black box' security package anymore – they want the tools, hardware and knowledge to create their own systems. We joined the OSS Association because we believe standardisation is the foundation for enabling that."

Friedhelm Ulm, product manager at CEStronics, senses the drive for freedom too. He says: "Large companies no longer want to be tied to a single manufacturer for access control devices. They want to be able to select the best suppliers based on price, performance and quality."

At xPlan, OSS compatibility has already become mandatory as a way of streamlining development. Its managing director Ray Phillips explains: "As an access control system manufacturer, we've seen lots of vendors entering the market with proprietary solutions for offline access control. Developing and supporting several offline variations is expensive and can cause confusion among dealers and end users. The OSS Association's great work has allowed us to insist that vendors' locking devices are compliant with the OSS Offline Standard."

Everybody Wins

When it comes to what manufacturers and end users will achieve by backing the OSS Association, the answer is simple for Assa Abloy. "Supporting the OSS Standard Offline is a win-win for both manufacturers and customers," says Matthias Weiss. "Customers get a much broader choice and manufacturers get access to the widest possible market for their best products."

Jeroen Harmsen at Nedap adds: "Customers will be able to select the product that best fulfils their current needs for the best price. And if their needs change, it'll be easy to switch to another



Jeroen Harmsen, Business Development Manager at Nedap



Hartmut Beckmann, Director of sales and business development at Uhlmann & Zacher



Matthias Weiss, EMEA Aperio product manager at Assa Abloy



Lionel Moerel, CEO at Islog



Friedhelm Ulm, Product manager at CEStronics



Eric Beaudru, Director at UniTecnic

product without facing high integration costs, or unwillingness from suppliers to integrate products.”

Assa Abloy agrees that flexibility and investment protection are the main drivers from a customer point of view. And believes that the fact big players are joining the OSS Association is sending a positive message to the market and customers.

xPlan and Islog also recognise that standardisation has the practical benefit of reducing development time and costs as well as increasing interoperability. And xPlan feels it will allow the industry to provide much more unified information to system integrators and end users about the options for offline access control.

Friedhelm Ulm of CEStronics picks up on this view, saying: “We believe that standardisation in access control will facilitate product comparison and lead to a clearer positioning of products.” While Weiss at Assa Abloy adds: “Standardisation helps to drive innovation, product reliability and better competition. Standards also give customers more trust in the technologies they’re using.”

Card-based Benefits

IT security provider Islog is taking the benefits of the association’s work beyond physical access control. It’s made its card personalisation software DataWriter compliant with the OSS Offline Standard to enable customers to extend its offline use to the logical access control market.

And xPLAN picks up on another practical benefit relating to cards – an offline system based on

open standards not only allows a single system to incorporate locking hardware from a range of manufacturers, it uses less space on the card.

Are there Any Drawbacks?

There are clearly a whole raft of benefits to be gained by standardising products for the access control market. From, as Nedap says, “offering end customers the ultimate freedom of choice” to preventing vendor lock-in, improving efficiency and reducing the time it takes to get products to market. But are their downsides to standardisation?

Harmsen at Nedap says, “Standardisation could potentially compromise functionality or affect the uniqueness of products or solutions. But standards exist in favour of end customers and should reflect the most relevant market demand. We believe the benefits of standardisation easily outstrip the drawbacks. The OSS Standard Offline is subject to continuous development, and the association’s members are all industry-leading manufacturers of compatible products. So support for valuable functionality will always be guaranteed.”

primion thinks that one answer to this problem could be for all products to comply with the OSS Offline Standard, but to allow for non-compliant, customer-specific functions to be added. These functions could then be incorporated in the standard if the OSS Association approves them.

Having implemented a number of offline card schemes using the OSS Standard Offline, xPlan believes there aren’t any significant compromises.

“It’s already superior in terms of flexibility when compared to other OEM solutions available to us,” says Phillips. “In general, we feel it offers a more efficient use of card space and greater granularity in terms of access provisioning when compared to other options.”

Eric Beaudru, director at UniTecnic agrees: “The OSS Offline Standard is well thought through thanks to great work from key industry players.”

Future Improvements and Backward Compatibility

However effective the OSS Offline Standard is already, it’s clear it’s only the beginning. Uhlmann & Zacher, Assa Abloy, primion and other members all talk enthusiastically about continuous development of the standard to ensure it remains fit for purpose.

Weiss at Assa Abloy confirms: “The new offline standard is based on the accumulated knowledge of many leading access control providers, and we just don’t see any downsides at the moment. But we remain vigilant. The standard will be enhanced in the future, when necessary, and always with the objective of retaining backwards compatibility.”

CONTACT

OSS Association
www.oss-association.com



ACCESS CONTROL

One Mission, One System

Secure Multi-application Access Control Solution for French Bank

Banque Populaire Provençale et Corse (BPPC) is a regional bank which operates in the Bouches-du-Rhône and Vaucluse départements of south-eastern France and on Corsica. It is part of the Banque Populaire et Caisse d'Épargne group. It currently has 1000 staff, over 90 branches, 190,000 customers, including 77,000 companies. In May 2015, BPPC's management board unveiled its new 11,300 square meter head office – Pythéas Prado – located in the heart of Marseille on the famous Avenue du Prado. STid and integrator Unicacces were selected by BPPC to provide a secure multi-application access control solution.

BPPC wanted to implement an access control system, not only to ensure a level of security consistent with its brand image, but also to have a single multi-application card and centralize security management. In addition to a multi-application card, BPPC was looking for RFID card readers to secure access to the building and its parking lot. The main selection criteria were as follows: Sturdy and vandal-resistant (IK09 minimum): resistant to physical attack for external access control, in particular on Avenue du Prado, which is a busy street. To develop the project, the Security Department worked in close collaboration

with integrator Unicacces, which provided consulting and a solution that perfectly meets BPPC specifications.

"We needed an access control system, to secure the Head Office, manage the flow of hundreds of staff and to integrate all our applications into a single system", says BPPC Security Manager, Isabelle Bianco. "The multi-application card means that our applications can be managed using a single device, simplifying the multiple uses in day-to-day activities. This reduces the number of physical keys and considerably reduces the associated risks – losing them, forgetting them, malfunctions etc."

Solution: Use of a Single Multi-application Card

The collaborative STid & Unicacces solution, with Architect readers, UHF systems and dual frequency cards, has been adopted to meet all these demanding criteria. BPPC wanted to implement an access control system, using a secure solution to operate all business services that require identification with a single device that would not only provide physical access, but also be used for purchases from vending machines and storage of personal data etc.

The BPPC Security Department has implemented a secure access control system based on dual-fre-



Headquarters of Banque
Populaire Provençale et
Corse in Marseille, France

quency 13.56 MHz Mifare & UHF STid cards to centralize all applications onto a single device. Mifare technologies make it possible to integrate numerous applications, while providing a flexible and dynamic memory management solution. The card, combined with several dozen readers, is used daily for physical access, payment in the cafeteria, purchases from vending machines and access to shared resources (such as printers) and secure cabinets etc.

Improved, Centralized, and Well-managed Security

With this in mind, BPPC installed about forty upgradeable Architect readers to secure and manage flows for all sensitive areas: external doors, elevators, internal ground floor doors, Kaba access gates, server and IT rooms etc. These High Security readers are combined with URC systems, high-performance long-distance UHF readers, to secure and control access to the parking lot. These ensure reliable identification of vehicle drivers on successive entries, while providing more convenient reading distances.

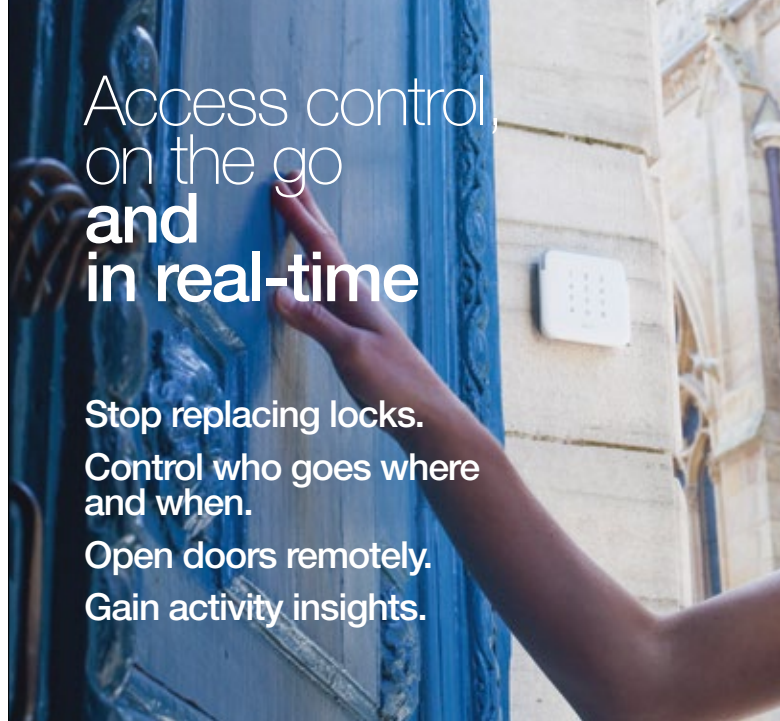
In order to facilitate access management and reduce overhead, a Bodet access control system is used to centralize management of people flow, various profiles and uses, access authorizations based on time slots, and maintenance operations etc.

"We manage significant flows of people, such as staff, visitors and maintenance workers, so it was crucial to create fully secure zoning," comments Isabelle Bianco.

Installation of Vandal-resistant Readers

"As it was crucial to install sturdy readers in the high traffic areas around the building, the Design Firm based its decision on the video highlighting the resistance of STid readers to validate the performance of the Architect range," confided the BPPC Security Manager.

STid readers are IK10 and IP65 rated, and designed to withstand acts of vandalism: fire, impact, and liquids. Their sturdy design provides high resistance in high traffic environments subject to extreme conditions (bad weather, sea air, pollution, large temperature swings etc.). To enhance security, Architect readers



Access control on the go and in real-time

- Stop replacing locks.
- Control who goes where and when.
- Open doors remotely.
- Gain activity insights.

SALTO \ KS

Keys as a Service

Incorporating SALTO's proven reliability and stability in cloud-based access control, SALTO KS - Keys as a Service - offers a solution that every business is looking for with vastly better functionality and performance than is possible with a traditional solution.

SALTO KS provides a flexible access control management system that requires no software installation or the added expense of a fully-wired electronic product. All that is needed is an online device with an Internet connection.

www.saltoks.com



SALTO inspired access



In particular on Avenue du Prado, a busy street, sturdy and vandal-resistant readers were installed



Aesthetics and design: the readers must seamlessly blend into their environment

are fitted with an accelerometer-based tamper detection system to protect sensitive data.

Enhancing Brand Image

The card reader was chosen not just for the level of security; integration into the environment was also an essential selection criterion. The new Pythéas Head Office is a bright, aesthetic, modern building. As the only visible part of the system, it was crucial for STid to offer readers that blend seamlessly into their environment, matching BPPC colors. The architects and Security Department were immediately won over by its design and customization options (color of LEDs, printed logo, casing color or stylish trim etc.).

Results

BPPC thereby offers its staff the highest levels of security without compromising their user experience when accessing the various secure areas. The RFID solution offer many options for the management of everyday functions and applications. "While simplifying and optimizing the management of our 500 users, it provides the opportunity to enhance our security based on our current requirements and to be ready for our future needs" adds Isabelle Bianco.

Implementation of an RFID access control system enables BPPC to launch a multi-application

system while remaining in control of access and flow management.

BPPC is also pleased with the Architect card readers, which fulfil their objectives of being sturdy with a stylish design. As vehicles of our brand image, they blend seamlessly into the Pythéas Head Office, cleverly combining modernity and understated style. A key challenge for a company like BPPC is to successfully manage diverse resources, security levels and staff mobility. However, it must not neglect its image by installing readers that miss the bar in terms of aesthetics and security. The solutions that we offer can meet all current and future requirements," concludes STid CEO, Vincent Dupart.

CONTACT

STid

Greasque, France

Tel.: +33 4 42 12 60 60

info@stid.com · www.stid.com

UK SECURITY EXPO 2016 THE GLOBAL SECURITY DESIGN | SECURE | RESPOND SHOWCASE
30 NOV – 1 DEC 2016, OLYMPIA LONDON

HM Government
INCORPORATING
TRANSPORT SECURITY EXPO

The UK's Flagship Event for a Global End-User Security Audience

- 8000+ visitors from the public and private sector
- 250+ exhibitors showcasing the latest security solutions
- Live response demonstrations and technology workshops
- 6 CPD certified free to attend conferences

"There's been a strong desire from Government for a number of years, starting during my time as Security Minister, for the UK to host a blockbuster security show welcoming a global top-level audience to London. And, here it is, UK Security Expo supported by HM Government.
Former Security Minister, Admiral Lord West



FREE TO ATTEND REGISTER NOW

DESIGN | SECURE | RESPOND

www.uksecurityexpo.com/git

Retail iVMS Solution Launched

Hikvision has launched Blazer Express, an easy-to-use intelligent video management software (iVMS) station, designed specifically for small to medium-sized retail surveillance applications. Catering for up to 16 or 32 network surveillance cameras and with a pre-installed operating system, it supplies live, playback and alarm camera viewing functionality via its user-friendly interface, enabling easy location of relevant video footage via multiple video search options. An on-screen E-map permits per camera related live video, playback and alarm activated events to be directly accessed. It comes as standard with automatic number plate recognition (ANPR). The product has a pluggable mSATA design for convenient system maintenance.



Security Essen: Hall 2.0, Booth 2A34

www.hikvision.com

Vanderbilt's new Eventys CCTV Range



Designed to meet the need for a cost effective solution that doesn't compromise on functionality and ease of use, Eventys offers more than you need for less than you think. The Eventys range offers variants of up to H.264+ IP compression efficiency and optimised codec technology, alongside two network video recorders (NVRs). With a simple set up procedure, these products offer outstanding functionality and

flexibility, and are perfect for small to medium sized installations. The Eventys IP cameras feature 1.3MP to 2MP resolution with both fixed and varifocal lens options. Powering and connecting the cameras is a simple and straightforward exercise thanks to the use of Power over Ethernet (PoE). This is coupled with automatic IP address allocation, along with auto-device detection and connection, making Eventys truly plug and play. The two NVRs are equipped with features commonly found on more expensive devices. A built in PoE switcher is standard on both four or eight channel variants that support live view, storage, and playback with up to 6MP resolution. One-touch record triggering, multiple recording types and instant playback for assigned channel during multi-channel display mode combine to offer reliable recording and review.

Security Essen: Hall 3.0, Booth 3B33

www.vanderbiltindustries.com

Cameras With H.265 Compression and Bandwidth Efficiency Technology

The 24 camera models in the Wisenet Q series from Hanwha have innovative features such as H.265 compression and Wisestream, a complementary compression technology which dynamically controls encoding, balancing quality and compression according to movement in the image. Bandwidth efficiency can be improved by up to 75% compared to current H.264 technology. IR illumination is provided as standard on the 2MP and 4MP Full HD versions, and the cameras also feature defocus detection, 'Hallway' view and lens distortion correction.



Security Essen: Hall 2.0, Booth 2D06

www.hanwha-security.eu

Mini-Dome Camera 360° Real-Time



The Flir Quasar Hemispheric mini-dome camera provides an immersive, 360° real-time and forensic experience using United VMS. With an indoor/outdoor vandal-resistant housing – coupled with two-way audio, IR illumination and I/O interface – the Quasar Hemispheric camera is fully featured to address a wide range of applications. The camera supports user-customized views and digital presets without affecting the recording of the complete 360° view, making it the ideal choice for full coverage, panoramic video surveillance.

Security Essen: Hall 2.0, Booth 2D14 www.flir.eu/home

www.GIT-SECURITY.com

Solutions that impress

Our best products are now even better

Our locking systems and products are always developed with the intention of continuous optimisation and provision of upgrades and extensions. This applies for our electronic and mechanical access management systems, as well as our smart home solutions. At Security 2016 we will show you how the very best can be made even better.



winkhaus.com



Join us:
Stand 10B04, Hall 10

KEY MANAGEMENT

Get Your Keys Together

Key Management System's Ergonomic Design Delivers Practical Benefits

By developing an automated key control system, Morse Watchmans brought about four main principles of ergonomic design – all encompassed by testing and observing said system.

As early as the 18th century the workplace has been studied as it relates to the worker. Fast forward to the 21st century and the principle is still being studied, but now under the broader name of ergonomics. The word ergonomics originates from the Greek word *ergos* (work) and *nomos* (natural laws). In an ergonomic workplace, tasks and tools are designed to fit individual capabilities and limitations, so people can do their jobs with greater comfort and convenience, and without being injured. More broadly, ergonomics can be applied to optimize larger systems like resource management, work design, human-machine interfaces, etc. within the organization (hence the term “organizational ergonomics”).

When Morse Watchmans was first making its way into the security industry with an automated key control and management system, ergonomics was fundamental to its design. They studied how people of all shapes and sizes would use the device to make sure the display was properly positioned for correct viewing; that actual key access was swift and unencumbered; and when two or more cabinets were installed that the door openings were uniform.

Four Main Principles of Ergonomic Design

These particular findings, along with a multitude of other tests and studies, were used to develop a key control system that encompasses four main principles of ergonomic design; those being safety, ease of use, productivity/performance and aesthetics. Following are the benefits of smart key control systems that align with these ergonomic design principles.

Safety – It goes without saying, but misplaced keys and lost assets can compromise the safety of the individual. To this end, a vandal-resistant cabinet design helps security personnel to ensure that important keys are safe from unauthorized access, while stainless steel locking rings add to key security by deterring tampering. The design is complemented by an on-board alarm system that will resonate if the cabinet itself is tampered with or if incorrect codes are repeatedly entered. Access to the cabinets and to individual keys is controlled at all times, and every key is accounted for. When networked, a firewall and AES256 encryption technology for data exchanged between the cabinet and the server help protect the system and the organization's assets.

Ease of Use – On the physical level, security key cabinets are designed to offer the flexibility needed for installation at almost any height that allows for the user to easily reach the cabinet and interact with it. A slanted console provides a natural viewing angle and makes it easier to swipe a card or use fingerprint identification to access the key cabinet. Once the cabinet is opened, the requested key location is illuminated so the user can easily identify it. Both larger touch screens and audio prompts help make the interaction faster and more convenient and can help improve productivity.

Productivity / Performance – Keys are attached to a fob that features an identification microchip and a stainless steel locking ring. The security key fob fits into a cabinet key slot and, critically, automatically records all access activity. No more time spent manually recording key activity. The recorded data lets authorized users more easily determine who has keys out and when they are scheduled

to be returned; meanwhile, instant email or text alerts reduce the burden on management even further, letting them know an overdue key or when it has been returned. And of course, key inventory systems with integrated tracking can help prevent lost keys and reduce vulnerabilities – not to mention wasted time and user frustration.

Aesthetics – The aesthetically pleasing key cabinet with its visual display of organized key placement is far more appealing than a messy box of keys. Cabinets are designed for horizontal or vertical placement and multiple units can be precisely installed to maintain a professional appearance. System maintenance is also considered in the design, which allows servicing of the unit to be accomplished with minimal disruption and/or disassembly.

These and other benefits of key inventory systems are cumulative, helping make life easier for users, while also supporting the company's activities and reducing the risk of losses. All of this is welcome news for the business itself – who says good design can't support good economics?

Author

Fernando Pires,
VP Sales and Marketing, Morse Watchmans

CONTACT

Morse Watchmans

Oxford, Connecticut, USA

Tel.: +1 203 264 4949

www.morsewatchmans.com

“Cash-in-transit services
are my business.
And G&D delivers
my peace of mind
and flexibility.”



Creating Confidence. In the cash processing operations performed by cash-in-transit companies, security, speed and efficiency are key. Our one-stop range of high efficiency automated cash center solutions enable you to achieve the service standards your customers want. And our tailored engineering, service, and support packages deliver the assistance you need in your cash management operations. From compact desktop counters to full-scale cash centers, we streamline your efficiency. www.gi-de.com



Giesecke & Devrient
Creating Confidence.



Twickenham Stadium, home of England's test rugby matches

SECURITY MANAGEMENT

When the Going Gets Tough

Rugby Football Union Stadium Implements Upgrades and Unifies Security

Located in South West London, Twickenham Stadium is home of the Rugby Football Union (RFU) and with an 82,500 seating capacity is the second largest stadium in the United Kingdom, and fourth largest in Europe. The venue hosts all of England's home test rugby matches and many other high-profile rugby events and concerts for renowned international artists.

In fact, it was the nomination to host the Rugby World Cup in 2015 which prompted Twickenham stadium to undergo a full site assessment. After a thorough evaluation, Twickenham decided that it was time to modernise its video and access control systems. The stadium's security team needed improved functionality and non-proprietary systems which would allow for inhibited growth. They also wanted reliable video quality to facilitate the identification of any suspects and clearer detail of what was happening in the stadium environment.

Search for the Right Solution

Under the direction of Phil Parker, Head of Security at RFU, Twickenham was looking for a security

platform that would be feature-rich yet easy for operators to use. "I didn't want to restrict the RFU to one single vendor, so an open platform was vital. More importantly, we wanted to move away from having to switch between different pieces of software. I wanted to make the lives of my operators easier by having all of our systems under one platform," explained Parker.

After a market tender, the Twickenham team narrowed down the bids to only those that met the criteria and then held meetings with each integrator. The buying team watched demos, researched the market, and met with security solution vendors. Twickenham also met with vendor customers who were operating each solution. Af-

ter spending a considerable amount of time and energy investigating each solution, the team was confident in their final decision – choosing Vindex Systems, a market-leading systems integrator, and their proposal for Genetec Security Center. Security Center is a unified security platform that enables the combination of video surveillance, access control, automatic number plate recognition technology and other key systems within one intuitive solution.

"With each step in the buying process, the decision became easier," explains Parker. "We were blown away by some of the platform's capabilities, and were impressed with the level of integration with other systems. We felt confident that if an in-



The stadium is the second largest stadium in the UK

Interesting new technology came onto the market, Genetec would ensure that we would be able to access its capabilities. That was one of the biggest selling points for our team."

Implementing Unified Security One Phase at a Time

With the World Cup fast approaching, Twickenham planned a phased implementation. The first objective was getting the existing video surveillance system converted over to the Genetec platform. There are currently 110 cameras being managed by the Omnicast IP video surveillance system of Security Center. The flexibility of the system allowed Twickenham to keep most of their analogue cameras by using IP encoders, and also to add some new Axis Communication network PTZ dome (AXIS Q60) and 360-degree cameras (AXIS M3007) to expand coverage around the stadium. Re-using equipment saved the stadium significant deployment time and costs.

Shortly after installing the new security platform, the Twickenham security team spotted two men trying to add bank card scanners to a nearby ATM located outside of the property. They were able to inform the banks and the police, provide high-resolution video as evidence, and help mitigate fraud which would likely have affected visitors to their stadium. "From a review perspective, the quality of the video has been far superior to what we had previously. We can pull up video, magnify part of the frame, and dig deeper into a scene, which gives us a much better perspective," says Parker.

10 doors were also added onto the Synergis access control system of Security Center. Phase

two will include a full transition from the existing access control system over to the unified platform. Twickenham also unified a Digital Barriers analytics system within Security Center, adding virtual tripwires along the fenced perimeter.

"With Security Center, our operators are better equipped to handle potential security breaches. If someone tries to climb the fence, or open a door, our operators know about it immediately. They also don't have to monitor a variety of different applications like before. The system alarms and the associated video comes through one platform which makes the whole response process more efficient," says Parker.

Intuitive Features Heighten Operator Confidence

Operators navigate the 82,500-seat stadium using a layout of their venue through Plan Manager. This map interface within Security Center enables them to quickly locate cameras, respond to alarms and check door statuses. According to Parker, this feature adds to the platform's ease of use, "Some systems are so complicated that it limits your workforce's ability to be both confident and efficient. When you are running the operations of a stadium, that's unacceptable. Security Center is a very intuitive platform that empowers our operators to make better decisions."

On match day at Twickenham stadium, security operators work from two different control rooms. The Threat Level Management feature within Security Center has been programmed for match-day activity, presenting operators with the specific tools required to monitor the crowded stadium and respond to events. Beyond securing the venue,

operators also monitor crowd flow through the stadium and identify any operational issues such as long queues or required clean-ups.

While it is just the beginning, the RFU is thrilled with the progress at Twickenham Stadium. "I can't recommend Vindex Systems and Genetec highly enough. Both companies have been very responsive in helping us migrate our technology. They have an open-minded, friendly and helpful approach, which has been quite refreshing. We look forward to completing the phases of implementation so that we can use Security Center to its full potential," concluded Parker.

CONTACT

Genetec Europe

Paris, France

Tel.: +33 1 727 125 93

www.genetec.com/solutions/all-products

www.genetec.com

Digital Barriers

London, United Kingdom

Tel.: +44 207 940 47 46

info@digitalbarriers.com

www.digitalbarriers.com

Axis Communications

Lund, Sweden

Tel.: +46 46 272 0

www.axis.com



STADIUM SECURITY

On the Ball

Bosch and Benfica Integrate the Stadium of the Future

Home to Lisbon's world-renowned soccer team and training academy, the Estadio da Luz stadium is a beacon to 14 million fans from around the world, welcoming 65,000 spectators and thousands of personnel at a single match. Keeping all of those people safe without interfering with the spirit of the game requires continual evaluation and development.

What is the Stadium of the Future?

"The stadium of the future should offer the ultimate game experience, while ensuring that everyone is safe at all times. Bosch is helping us to meet this challenge, by providing us with a coherent technology solution. Our operators can monitor the cameras, access and alarms, and play crystal-clear game audio or emergency messages using just one screen interface. It makes it easier to keep everything up and running while we keep people safe" says José Pedro Ribeiro, Infrastructure and Operations Manager.

Future Proofing

Technology is progressing rapidly through the Internet of Things (IoT), as sensors and data increasingly connect the physical and virtual worlds. That is why the Bosch Building Integration System (BIS) is future-proofed. Based on a standardized platform, it can easily integrate equipment sensor data, analytics and important new technology from Bosch or a third party. Using a single, all-in-one screen interface, stadium operators can monitor equipment performance, fire alarms, intrusion alarms, access controls, video and sound systems.

Operators can play separate messages or background music simultaneously for selected audio zones, or pre-record messages to play automatically, activated by alarms or events. In emergencies, op-



erators can monitor live video feedback, at the same time using a microphone and speakers to help guide people safely out of the building. The single screen also increases situational awareness and operator efficiency and allows for a faster emergency response. Bosch panoramic cameras add another level of safety in halls and corridors by leaving no blind

spots. This makes it faster and easier for security operators to monitor high-traffic areas.

Stadium Partners

Mr. Ribeiro says, "We look forward to more developments, such as video stitching, finer analytics and the integration of elevators and other equipment into the BIS. We chose Bosch as our partner because they not only have central support and dedicated development teams, but their local people also meet with us regularly. They make sure we can take full advantage of the IoT and they help us minimize costs by integrating our third-party equipment. We will continue to rely on them to help us make our Estadio da Luz a real Stadium of the Future."

CONTACT

Bosch Security Systems

Grasbrunn, Germany
Tel.: +49 89 62 90 0
info.service@de.bosch.com
www.boschsecurity.com

Siquira: New PTZ for Traffic

Siquira introduces its new TrafficPTZ Ultimo, a pan tilt zoom camera that is optimised to meet today's ever changing mobility market and the daily traffic and infrastructure demands. Unique to this camera is its embedded processing, which allows third party application software, e.g. analytics, to run on it. This is an all IP camera with a robust design that features fast and accurate positioning. Plus low latency, no backlash, large zoom lens and easy installation. This intelligent camera responds automatically to information from road-side sensors like loops and radars, intelligent traffic systems and, when allowed, information from the Internet. When other systems sound the alarm, the Siquira TrafficPTZ Ultimo will position itself automatically to view the situation. It then sends its video feed to the Traffic Centre with an alert. This process can be tailored to meet the actual, desired application needs. The TrafficPTZ Ultimo does not require constant monitoring by an operator, thereby reducing the workload for operators during rush hour traffic.



www.siquira.com

No More Blind Spots

With Flexidome IP panoramic cameras from Bosch, storeowners will never miss anything again. The Flexidome IP panoramic 7000 MP indoor camera offers a full 180-degree or 360-degree overview of a particular area with 12 megapixel sensor resolution at 30 frames per second combined with a fish-eye lens. For indoor and outdoor applications, the Flexidome IP panoramic 5000 MP offers the smallest 360-degree dome design available on the market combining a five megapixel sensor resolution at 15 frames per second with a fish-eye lens. Both camera models ensure a complete overview in a single image without blind spots and the easy capture of moving objects, significantly improving the performance of retail video surveillance solutions. Combined with the Video Security Client software, the user can select up to six different viewing modes. The Flexidome IP panoramic 7000 MP camera features a full suite of on-board intelligent video analytics to ensure that operators are alerted when needed and relevant information is delivered most efficiently both live and in retrospect.



Security Esen: Hall 2.0, Booth 2D06

www.boschsecurity.com

TOUCH . IDENTIFY . CONTROL



MOBILE SOLUTIONS
NFC & BLUETOOTH®
MOBILE ACCESS CONTROL

Smart range of access control readers for people and vehicle identification



First upgradable high security access control readers



UHF Automatic Vehicle Identification



ATEX & IECEx readers



www.stid.com



Alternatively card and PIN combinations can secure specific rooms

Real-time security has long been the biggest challenge for an access control system. People are always on the move, and the environment is subject to constant change. Every site has its own challenges and requirements, from the protection of files and documents to restricting access to sensitive areas in a medical center or having real-time information about employee movements around a complex company. The Smartair Pro Wireless Online system meets the challenge and reports on everything that's happening in a building – who enters, where and when – in real time.

ACCESS CONTROL

Look – No Wires

Real-time Access Control from Assa Abloy brands

The wireless online solution is an intelligent access control system that uses bi-directional encrypted radio frequency communication to upgrade security and convenience for all building users. The system has a simple but effective architecture consisting of four key elements: door and wall devices with wireless electronic escutcheons, cylinders and wall readers that can be installed at any type of exterior or interior door or access point. Its battery-powered door devices communicate with the central control system via TCP/IP radio hubs. Each can connect up to 30 access points at a distance of up to 30 meters.

The Smartair administration software is an intuitive management tool that provides flexibility and real-time control, accessible also from a secure portal that works inside almost any standard web browser. System administrators can open secure doors from anywhere, configure a user's access rights remotely or obtain real-time audit trails for any access point in the organization through a PC or web client. The management software puts administrators in control of a site from multiple devices, from anywhere and at any time.

Facility managers can change access rights or time-zones instantly, unlock or lock a door remotely with a click or receive e-mail alerts when a device's battery is low, when there's an attempted intrusion or where doors have been left open. System security is provided by end-to-end encryption from server to

door as well as stand-alone operative devices that work even during a network breakdown.

All Ways In

The system also has smart access features with components to fit all types of doors and access points. There are battery-powered escutcheons and cylinders to fit wood, glass and fire-resistant doors, emergency exits, barriers and elevators. These locks maximize energy efficiency, having only a low energy consumption that ultimately saves the business money.

From a user perspective, the system has smart features for staff and visitors. Employees can use the Smartair app to open doors instantly from an iOS, Android or Windows smartphone. There are multiple credentials to match various user needs, including cards, tags and bracelets as well as the Smartair app itself. Credentials can be multi-use too, such as for local cashless payment. Smartair supports all major RFID technologies, including iclass by HID, Mifare Classic, Desfire and Skidata. The system also supports card, PIN and card+PIN multi-authentication for an extra layer of security. Expansion or upgrade of an existing installation can be carried out cost-effectively anytime, bringing new doors or users into an existing Smartair system. Assa Abloy sells and supports SmartAir worldwide under several brands, including TESA, Mul-T-Lock, Assa, JPM, Ruko, Trioving, Keso and Corni .



◀Keypad, fobs cards or even the SmartAir app can be combined as required to open the wireless devices

CONTACT

Assa Abloy Digital and Access Solutions
 London, United Kingdom
 Tel.: +49 30 8106 2970
 www.assaabloy.com

CUSTOMIZE.

Access and power integration

TROVE™

Our Trove™ access and power integration solution lets you easily combine Altronix power with access controllers and accessories available from the industry's leading manufacturers. A variety of backplanes offer a wide range of scalable access and power configurations. This solution simplifies board layout and wire management, while reducing installation and labor costs. Customize your access control with Trove.



Trove supports these leading manufacturers:



SOFTWARE HOUSE

All registered trademarks are property of their respective owners.



More than just power.™

altronix.com • 1.888.258.7669

MADE IN THE USA

VIDEO SURVEILLANCE

Faites vos jeux

An Unusually Large Full IP Surveillance System



Glamor, excitement and fun! Melco Crown Entertainment (MCE) has set a new milestone in Macau with Studio City, an entertainment, hostelry and shopping complex of immense proportions. It is a mega-entertainment resort, unparalleled anywhere in the world. The all-pervading theme of the resort is film and cinema. The Hollywood-inspired resort offers excitement of every conceivable kind, not just in the glamorous casino with its countless gaming tables and staggering jackpots, but also in the many other cinema-themed attractions. An opulent hotel with 1,600 guest rooms, an international collection of restaurants and a New York and Hollywood-themed shopping street with world-famous designer labels offer are accompanied by the highest figure-eight Ferris wheel on the planet. Dallmeier has installed an extremely large casino video system there, involving several thousand IP cameras that deliver full HD image quality throughout.

Studio City now joins the company's customer list, which already includes other casinos in the Melco Crown Entertainment Group – the City of Dreams in Macau, the City of Dreams in Manila and the Altira Macau. We posed Leroy Daniel, Executive Director MCE, Surveillance Operations, a few questions about the challenges and unique features of this video security system.

GIT SECURITY: Leroy, what are the special features of the video security system in Studio City?

Leroy Daniel: This video surveillance system is the world's first 100% end-to-end IP full HD system of this size, scale and complexity within the casino industry. The ability to adjust camera settings via global configuration down-the-line, for example, means less time on ladders and less disruption to our business. We also have the ability to customize high and low level interfaces directly to all our business revenue streams and associated systems.

Dallmeier has developed a special camera for you ...

Leroy Daniel: That's correct. Pit-View is a small HD 1080P camera which we specifically requested Dallmeier to produce in order to meet our needs. It has been successfully integrated into all our gaming table scoreboards, finally bringing surveillance cameras out of the ceiling and down to patron level providing better views of the gaming action – much to the satisfaction of internal stakeholders, not to mention the Gaming Regulator and Law Enforcement – for irrefutable evidence of occurrences and/or illegal acts.

What were the main reasons for choosing this supplier?

Leroy Daniel: First and foremost, the casino industry is by nature the most demanding surveillance system application in the world today. Even airports, prisons, shopping centers, universities, military facilities or city surveillance do not have the same high concentration of cameras per square meter as you will find in a casino property, nor the real-time demands of individual users. Very few systems can seamlessly meet such a high level of demand in all aspects, let alone as a full IP system. The high image quality of the Dallmeier cameras also influenced our decision: the full-HD PTZ and fixed cameras perform with an extraordinary resolution and excellent zoom functionality. Definition of details is absolutely critical in casino surveillance and can make the difference in a case or incident.

What exactly is monitored with this video system?

Leroy Daniel: We monitor every aspect of the entire Studio City integrated resort: gaming areas, retail boulevards, hotel towers, entertainment venues, Heart-of-House, cash areas and vaults, points-of-sale, the car parks, high security areas, the external perimeter and all the public areas. More than 6,000 full HD network cameras are recorded, and standby and failover servers ensure the highest possible availability of all data.

What was the biggest challenge in this project?

Leroy Daniel: The biggest challenge for us was the design complexity of the property, both in terms of the master plan but also of the ceiling design and fixtures. The challenges come when other ceiling infrastructure such as lighting elements, fire systems, ventilation, design features, public announcement and sound system all end up in the same place where you need to place cameras. Designers tend to set priority on Form over Function, whereas operations people lean towards Function over Form. There is, however, a balance of function and form that can be achieved through close collaboration with architects and designers, whereby the Dallmeier IP cameras that run on CAT-6 cabling and emit very little heat can be aesthetically integrated into or within ceiling design fixtures or



Leroy Daniel (Executive Director, Melco Crown Surveillance Operations), Damian Phillips, Kevin Iek and Roberto Leong in the surveillance operations center

chandeliers ... we have achieved this quite successfully.

What is the concept for your control room?

Leroy Daniel: Our Surveillance Operations Center is designed with functionality and ergonomics in mind, with the understanding that we achieve results through the eyes of our surveillance operators. So giving them a work space that can provide a high-performance results-orientated environment with the highest level of HCI (Human Computer Interaction) and intuitiveness was very important. The operator intuitiveness and user-friendliness of the video management, the Dallmeier Semy system, also falls in line with this philosophy. The on-shift management team are embedded in the heart of the operation with either direct or peripheral line of sight to all monitoring stations. The managing support staff can flow and circulate around and behind consoles with ease, providing the necessary guidance, coaching and performance management.

You mentioned interfaces ... What integrations have been realized and what is the added value for you?

Leroy Daniel: Some of the key integrations that enhance our ability to protect the business are the customized development of high-level interfacing to our core systems around the property. They include the gaming machines, intelligent gaming shoe, points-of-sale, security access control, the intruder detection system and RFID gaming chips.

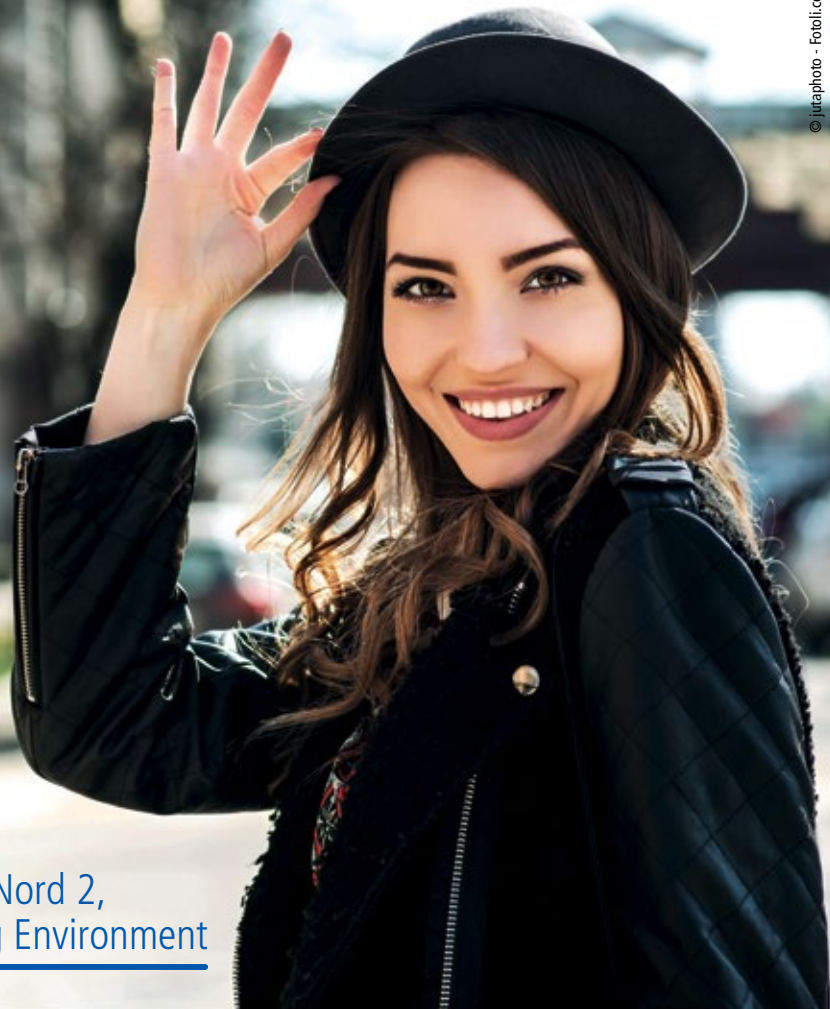
This brings the convergence of video and data or events directly to our operators in real-time and bookmarked for click-and-play or made available for post investigation, analysis or export analysis of trends and anomalies. Additionally, direct interfaces to the security system allow immediate on-screen display of the cameras associated with or near to any alarmed event, enabling effective and rapid detection, assessment and dispatch of response teams with situational awareness.

Leroy, are you satisfied with your choice?

Leroy Daniel: We can clearly see Dallmeier's ongoing research and development dedicated to the product in this holistic video solution. We are highly satisfied with the system and with both the unconditional regional and global technical support from Dallmeier.

CONTACT

Dallmeier electronic
 Regensburg, Germany
 Tel: +49 9418 7000
 info@dallmeier.com
 www.dallmeier.com



VIDEO SURVEILLANCE

Oh là là!

Europe's First Private Business Park, Paris Nord 2, has Created an Even More Secure Working Environment

The Paris Nord 2 business park prides itself on the resources it offers, and with good reason. Spread over some 300 hectares – the equivalent of 420 football pitches – its premises are home to 550 companies, employing in excess of 20,000 personnel. In addition to its 265 office buildings, the area also serves as a location for numerous warehouses, car parks, restaurants and hotels. Aside from the wide variety of resources offered by the business complex which opened in 1981, it is also notable for the video surveillance equipment it has put in place to ensure a secure working environment.

In the past, the business park's management team primarily relied on security personnel and a small number of surveillance cameras to provide the best possible level of security. Despite this, over time the site increasingly became the target of vandalism in public and private spaces, as well as falling victim to the theft of and willful damage to parked vehicles. In the end, the management team took the decision to install a state-of-the-art video surveillance system, serving not only as a preventative measure and a deterrent, but also as a tool for assisting police with their inquiries. The intention was for the system to maintain a 24/7 view of critical points across the extensive site. From the operator's perspective, it was also essential to have a continuous recording facility that would make it possible to find out exactly what had happened when incidents occurred. The system had to be flexible and easy to handle, and it had to reduce the workload for staff on site, thus keeping costs down.

Compared to current industry standards, the video system that was already in place had a limited capacity and range of functions, making the

system unsuitable for fulfilling the additional requirements that the operator now had. However, it was the system's lack of ability to expand through the addition of more cameras that posed the most significant problem. Despite the Paris Nord 2 business park gaining an increasingly higher profile, attracting more and more companies to its premises, the surveillance system technology had simply stagnated. With this in mind, the management team tasked Informatique Nord 2 – an independent IT system vendor – with finding and implementing a new video surveillance system.

Scalable

After a brief period of examining the bids submitted for the job, as well as a trial run involving several suppliers, it was Seetec that came out on top. Thanks to its modular system concept, the IP-based Seetec Cayuga video management software made exactly the right impression. Packed with a range of modules and features that can be docked onto the core software, it provides a customizable, scalable solution that is able to grow effortlessly with customers' needs over time. The approach

taken by the German manufacturer – with its own local branch in the greater Paris region – is not tied to any specific platform or manufacturer, enabling it to provide a product that is tailor-made for the customer and a one-stop solution that caters to all kinds of requirements.

The project became a reality in less than a year, with additional functions adopted from the company's extensive Cayuga range making it possible for the system to go above and beyond the requirements it had originally been asked to meet. In addition to straightforward recording and playback of video streams, image data can be combined with the customer's procedures using functions such as license plate recognition, video analysis and an access control Interface. An additional benefit, for example, is that the Seetec LPR module is being used at four lanes providing access to one of the car parks in Paris Nord 2, detecting all incoming and outgoing vehicles and registering them in a database. This means that security personnel always know exactly who is currently on the premises, and provides quick answers in cases of damage or theft.

Full-coverage surveillance for interior and exterior areas as well as car parks takes place from Paris Nord 2's security control center. When choosing the surveillance cameras, Informatique Nord 2 opted for hardware provided by Swedish manufacturer Axis Communications. More than 100 cameras have been installed across the entire premises, providing the security team with a 24/7 view of the images they capture on a large-screen system in the control center. This provides a detailed view of what is happening on the site. The Display Agent function allows the large-screen system to be controlled from a standard client workstation. In the event of an alarm, control center employees are able to assess the situation quickly and prioritize the actions that need to be taken on site, ensuring security staff are deployed in a way that is resource-efficient.



© GIE Paris Nord 2, Parc Leade

The extensive site – now well covered by video surveillance – extends over 300 hectares

Convicted

The security system has delivered results that have surpassed the management team's expectations. Thanks to the recorded video footage, it has been possible to shed light on both minor and major offenses and to convict those responsible. Given the business park operator's positive experience of using the video system, plans have already been put in place to install more cameras designed specifically for night surveillance and to make use of additional modules and interfaces.

One aim, for example, is to use the provider's access control interface in order to control who is allowed to enter the premises and buildings. A system like this would keep staff constantly aware of incidents, such as unauthorized persons in office buildings. Daniel Fournier, project manager and CEO of Informatique Nord 2, is delighted with the success the project has brought: „We are working closely with the relevant authorities and are

all committed to ensuring a pleasant working environment for tenants and users alike. Seetec Cayuga is helping us every step of the way.“

CONTACT

Seetec

Bruchsal, Germany

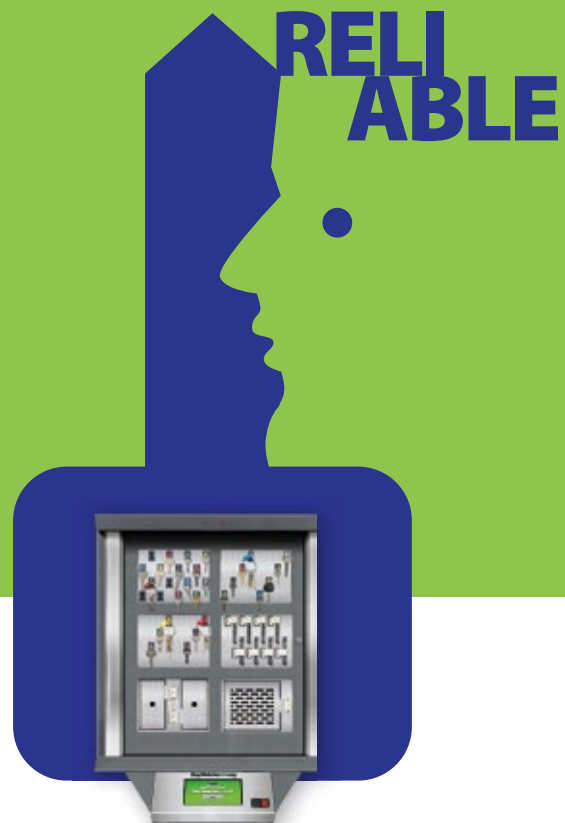
Tel: +49 7251 92900

info@seetec.de · www.seetec-video.com

The best in key management performance and value.

Our KeyWatcher systems are packed with features and capabilities, expertly engineered to protect, control and track your keys. We invented key management, and we just keep making it better for you.

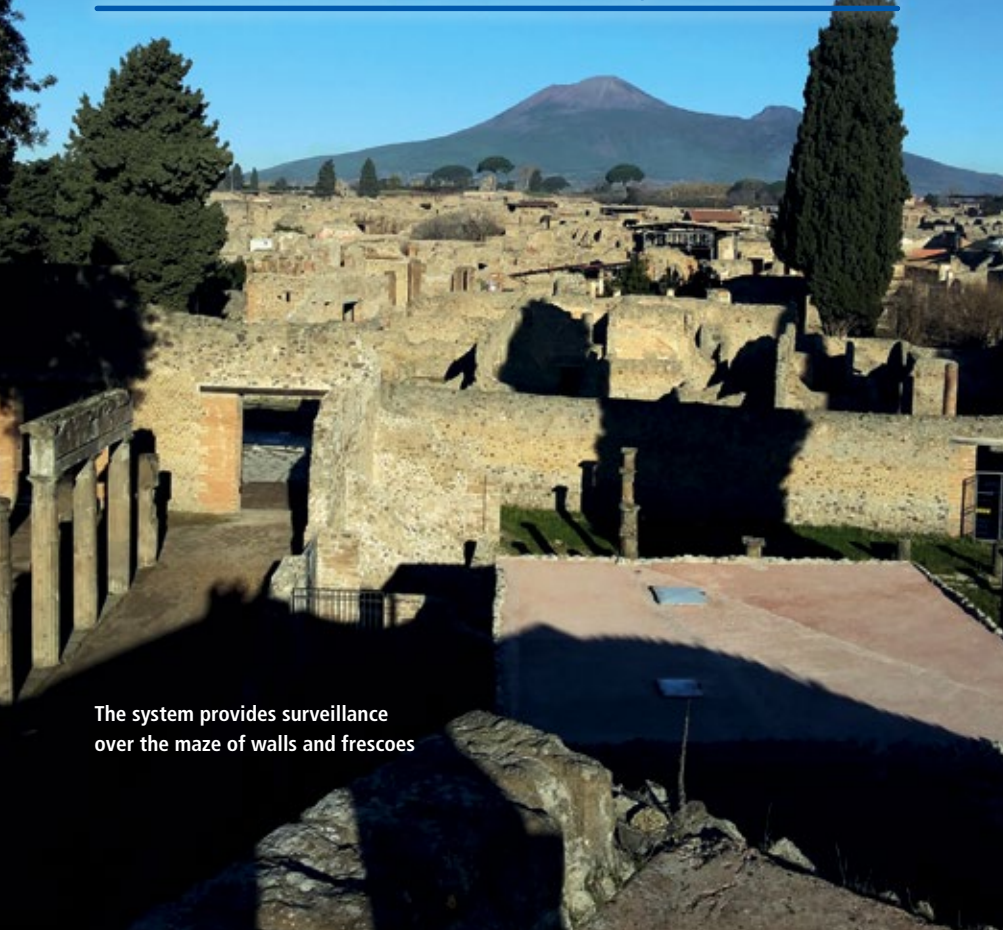
Visit morsewatchmans.com to learn more



Product door not shown in image. Fingerprint reader optional.

Seeing into the Past

An IP Video Solution to Protect People and Premises



The system provides surveillance over the maze of walls and frescoes

Pompeii is the world-famous ancient Roman city near modern Naples which sometimes receives as many as 15,000 tourists in a single day – a number second only to the Coliseum. To protect the extraordinarily well-preserved artifacts and decorated surfaces and to prevent potential damage, over 380 Mobotix dual-dome cameras have now been installed at the inner heart of this archaeological site.

The need to install a video security system was born of the Great Pompeii project, an undertaking ordered by the Italian Government for the purpose of reinforcing the effectiveness of the conservation, prevention, maintenance, and restoration in the archaeological area of Pompeii. The archaeological site sends frequent reports of graffiti, scratches and the defacing of walls and frescoes of the Roman Domus villas, which are at the heart of the site. These acts of vandalism are carried out by tourists with their pens and fingernails when they somehow intentionally manage to stay within the walls even after the site is closed to the public.

The Italian Mobotix partner Metoda had no doubt about the best solution to offer to the Pompeii Authority for the implementation of the video surveillance project. „Mobotix easily satisfied the requirements of the bid for tenders“, explains Cesare Gonnelli, General Manager of Metoda. The company won the tender especially because of the high image quality and the decentralized system topology, which results in less network infrastructure and a reduction of the overall system costs.



The control room analyzes event-activated images arriving over the fiber network

Built for Outdoors

The protection of the World Heritage Site of Pompeii is just one example of a successful deployment of the manufacturer's outdoor cameras worldwide. These are made in Germany in accordance with the highest quality standards and tested in operation from -30 °C up to +60 °C. Currently Mobotix offers an extension of the manufacturer warranty from two to four years for all outdoor models until the end of September 2016. A professional VMS and video analysis are part of the system and free of charge without any license fees. Software updates are also free via download, prolonging the potential working life of the hardware and thereby providing a high return on investment.

CONTACT

Mobotix

Langmeil, Germany

Tel.: +49 6302 98160

www.mobotix.com

marketing@mobotix.com

MegaVideo Flex Compact IP Camera Series



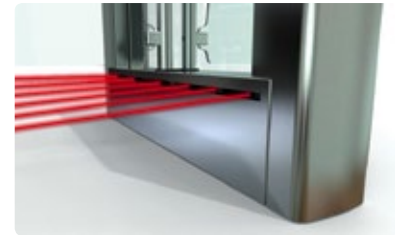
The MegaVideo Flex IP camera series by Arecont offers a cost-effective security solution for installations that require a more flexible and compact design than other professional security cameras deliver. Due to its small footprint, the MegaVideo Flex easily fits into a wide range of areas and settings. It is ideal for inconspicuous surveillance applications or for use in equipment such as in ATMs (automated teller machines) and other tight spaces while delivering megapixel (MP) high definition video. The stylish indoor/outdoor camera series features a choice of 1.2MP, 1080p, 3MP, and 5MP resolution models. MegaVideo Flex is a true day/night camera that is ideal for applications with variable lighting conditions regardless of time of day. NightView technology in the 1.2MP model ensures coverage in areas where little light is present. Applications with bright or over-saturated lighting conditions can be addressed with models that include Wide Dynamic Range (WDR).

Security Essen: Hall 2.0, Booth 2A22

www.arecontvision.com

Automatic Systems: Diras Technology for Latest Pedestrian Products

Automatic Systems has incorporated the Diras technology into its latest pedestrian products: SlimLane security entrance lanes and FirstLane security turnstiles. This highly advanced technology makes Automatic Systems products



the best in class for electronic detection. The Diras detection system consists of a high-density matrix of infrared transmitter and receiver photocell beams. It follows the users' progression through the gate as well as ensuring their safety during opening and closing of the obstacles. Moreover, it detects fraud attempts (such as tailgating) and recognises different passage scenarios. Thanks to its multi-directional infrared beam matrix (beams every 22, 5 mm) and its predictive algorithms, this innovative technology allows the system to analyse and anticipate the size, position, speed and direction of the user in the lane. Moreover, the detection system filters anything that may cause interference, obstruct or fall into the lane passage and which is not a security threat (such as arm movement, hand luggage etc.). This reduces the probabilities of alarms being sounded unnecessary.

Security Essen: Hall 3.0, Booth 3A72

www.automatic-systems.com



PORTABLE PROTECTION

Garrett's multi-zone PD-6500i metal detector, equipped with optional caster set and 10-hour battery module, enables full mobility and rapid deployment.

Its versatile programs allow it to be used in any security environment: mass transit, sports arenas, campus security, loss prevention, courts, prisons, and more.



SUPER SCANNER V®
Hand-Held Metal Detector



Performance. Protection. Dependability. Since 1964.



MADE IN THE USA



ISO 9001 CERTIFIED

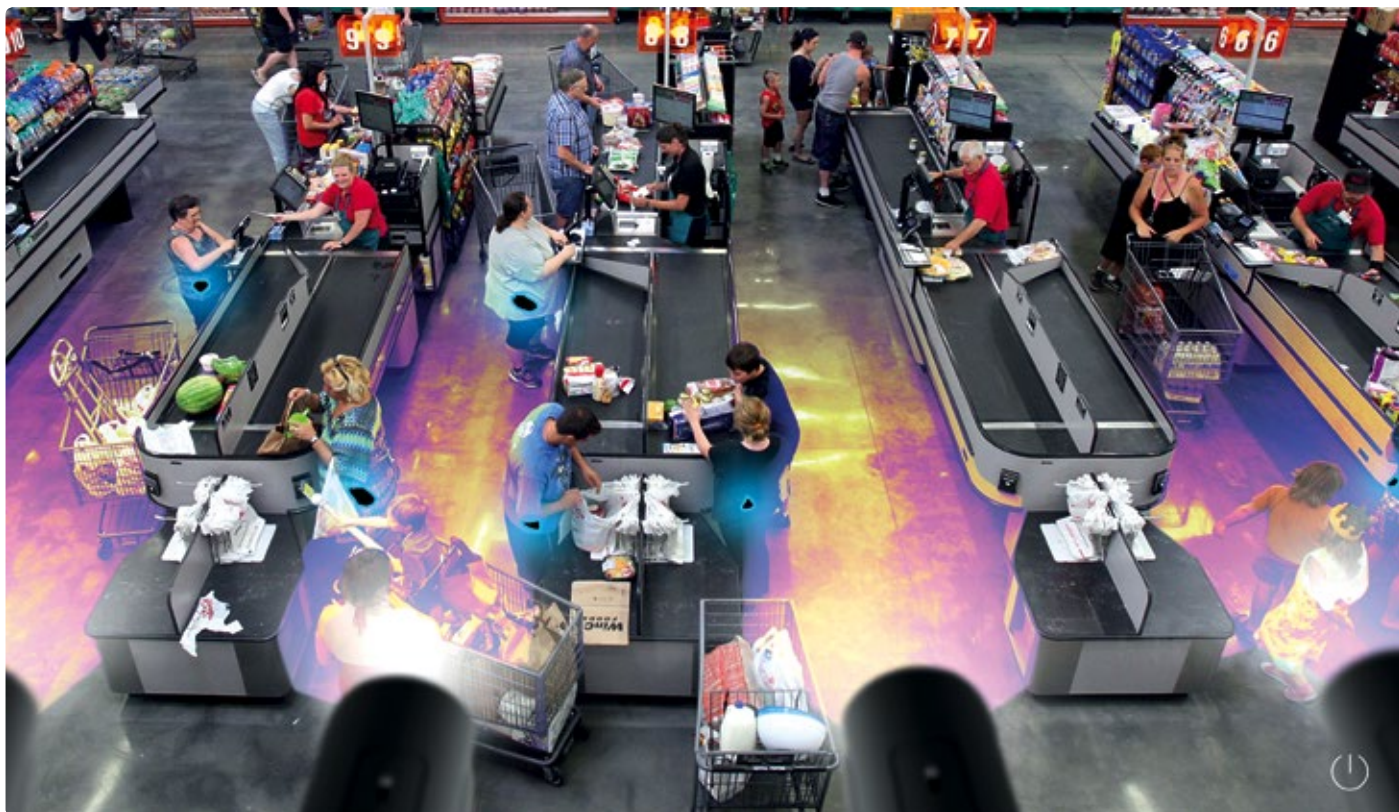


GSA Contract Holder

GARRETT
METAL DETECTORS

garrett.com

Toll Free: 800.234.6151 (U.S. & Canada)



SECURITY FOR RETAIL

Catch Shoplifters Red-handed

Thermal Cameras are Effective Tools to Prevent Retail Theft

If it's up to Nexo Group, shoplifters have to fear a new tool in the battle against theft: thermal imaging. Based on thermal images provided by Flir's FC-Series R radiometric camera, Nexo Group's xPredator system identifies suspicious heat patterns on shop visitors that could indicate the presence of hidden, stolen products.

As a grocery store or supermarket owner, it is very hard to fight theft. Shoplifting and retail theft may not seem like a major deal, but to the small business fighting for survival, it has a big impact on the bottom line. One of the most vulnerable areas for shoplifting for a supermarket is the fresh food department. But also frozen meat, poultry and seafood, cheeses and beverages, and other liquid products, are very popular among shoplifters.

Fighting Shoplifting

Swiss security technology provider Nexo Group SA has been focusing on the problem of shoplifting for many years by creating innovative solutions that help business owners prevent loss of their inventory. "Shoplifting is a reflection of the economic crisis that is hurting more and more businesses," says Alessio Bua, Business Developer at

Nexo Group. "Preventing shoplifting and managing inventory shrinkage is one of the few areas in which improvements can be made."



The new FC Series helps to catch shoplifters

Nexo was founded by security-focused entrepreneurs from an array of top security companies and leading professionals in the thermographic industry. The company provides a wide range of security solutions to meet the specific needs of businesses worldwide, as well as high-tech thermographic products for individual customers.

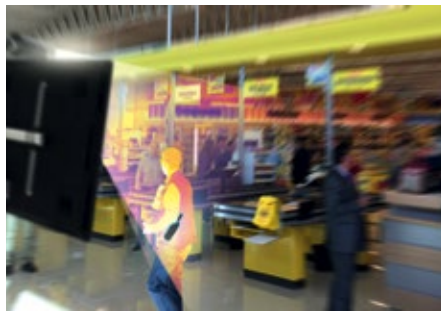
In order to fight shoplifting, business owners have a number of tools at their disposal, including two-way mirrors, CCTV cameras, convex wall mirrors, and detectives posing as customers. For the best result, these surveillance devices need to be properly placed and monitored. A disadvantage however is that these tools are most effective when the shoplifter is caught red-handed. Once the shoplifter has concealed the stolen product in his or her clothing or bag, it is very hard to see whether something has been stolen.



Real Vision



Nexo System



Suspicious heat patterns on shop visitors can indicate the presence of hidden, stolen products

Heat Catches the Thief

In order to tackle this problem, Nexo Group collaborated with Italian security research & development company Sefitalia, to develop an innovative anti-theft solution, called xPredator, especially focused on the retail and food sectors. xPredator makes use of a thermal imaging camera from Flir and smart Thermal Visual Tracking (TVT) software created and developed by Nexo to detect stolen goods that are hidden under clothing.

"xPredator works on the principle of heat energy coming off the environment and looks for heat differences between the stolen goods and the rest of the human body," says Alessio Bua. "It gives retailers the ability to very accurately identify stolen goods from supermarkets and deter shoplifters who with complete nonchalance hide cheese, ham, canned tuna and even high-quality whiskey and vodka bottles in bags or pants and even in coolers."

Reduce Losses up to 60%

Whenever a significant heat difference or pattern is detected, an alarm is generated and displayed on a monitor, which can be checked by an operator and stored for evidence. Unlike shop detectives who have to physically search the shoplifter for stolen goods, xPredator works in a non-contact mode to see what is hidden underneath the clothing. Since xPredator uses temperature distribution as a means of detection, the detection of cold or frozen goods will be most effective, and according to Sefitalia, the ROI of this investment can amount to a 60% reduction of stolen goods.

"Nexo's innovation can be configured to be mounted in fixed locations and can be easily implemented in any existing environment," says Alessio Bua. "An operator can control areas that need to be explored and monitor the situation in order to take action where necessary. Retailers now have the ability to do much more than simply keeping an eye on thieves."

Radiometric Camera

Nexo opted for the Flir FC-Series R thermal imaging camera to be integrated in the xPredator system. The FC-Series R features on-board, non-contact temperature measurement capabilities and provides eye-catching image detail. In addition, the FC-Series R camera provides reliable detection and flexible alarming options by email, web and mobile apps, edge image storage, digital outputs, or VMS event notifications.

"We had already used the Flir A-Series cameras in an earlier version of the xPredator system and were convinced of the quality of Flir thermal imaging cameras," says Alessio Bua. "With the introduction of the Flir FC-Series R, we found another cost-effective solution that was able to meet our strict quality requirements. We were especially convinced of the FC-Series R's high resolution, rich color palettes and high sensitivity."

CONTACT

Flir Commercial Systems

Meer, Belgium

Tel.: +32 3665 5100

flir@flir.com · www.flir.com/security

REC

50.000€

Saved!

With this image.
How?



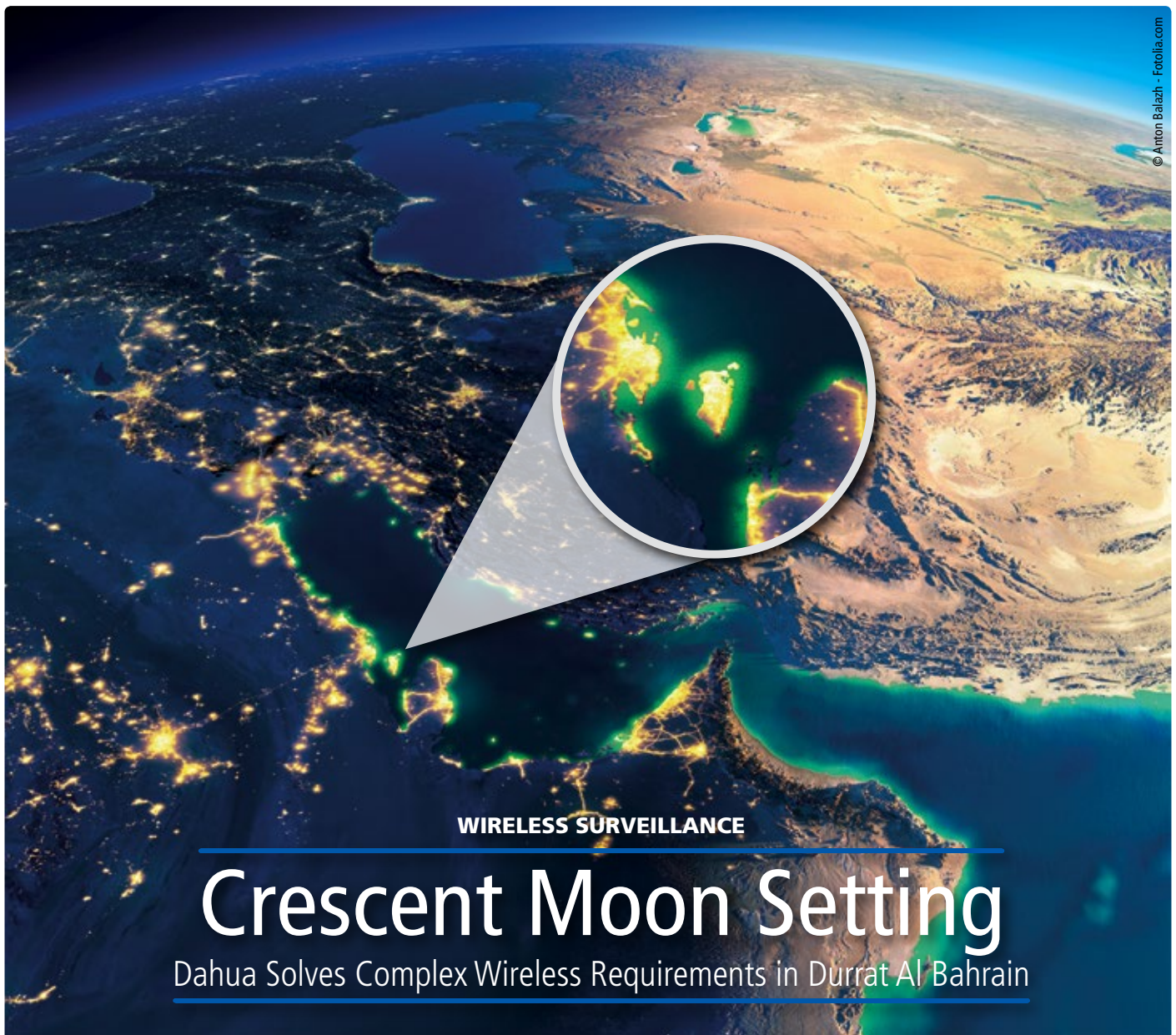
find out more:
www.geutebrueck.com/50.000

Find us at



Stand 2C38

01:13:08.00



© Anton Balazh - Fotolia.com

WIRELESS SURVEILLANCE

Crescent Moon Setting

Dahua Solves Complex Wireless Requirements in Durrat Al Bahrain

Luxury, Persian Gulf, Durrat Al Bahrain: Surveillance coverage on and around an artificial, crescent-shaped luxury island chain has to meet special requirements. Dahua Technology applied wireless solutions to provide extensive surveillance coverage.

Surroundings

Durrat Al Bahrain is a luxury artificial island chain in the south of Bahrain, featuring a total of 15 large islands that hold an 18-hole golf course, marina, restaurants and shops, and over 1000 villas in a 21 km² (13 mi²) area. As the area became more popular and drew increasing numbers of tourists, the resort owner needed a high-security surveillance solution that would cover all main areas, including points of access and the holiday villas.

Absolute Electronic Technology, the local system integrator, previously cooperated with Dahua and once again called on Dahua to solve this complex surveillance issue for the island chain. Dahua provided a number of weather-resistant HD Network cameras and video transmitters, as well as high-speed, HD DVRs as part of this customized solution.

Challenge:

An important condition while implementing this solution was that, since Durrat Al Bahrain is an island chain, traditional wired or simple wireless transmission methods would not suffice to support live video feeds over the large remote area. Instead, an innovative solution was required in order to ensure reliable long-range wireless video transmission throughout the area.

With numerous five-star hotels, a golf course, 12 bridges, and a marina, along with complex land and villa configurations on the crescent-shaped man-made islands, camera setups needed to be versatile, covering a large field of view to guarantee the safety of island tourists and workers while being discreet so as to preserve the luxurious nature of the island's design. Cameras not only needed to support wireless transmission, but also

withstand various outdoor conditions such as rain, storms, and relatively hot summer temperatures.

Solution:

In order to supply high-quality, wireless video feeds over the entire resort, Dahua employed a comprehensive solution entailing the use of 5.2GHz WLAN AP wireless HD camera products and the versatile, long-range 5.8GHz Wireless Video Transmission Device (PFM881). High-speed preview and playback digital video recorders (DVR) were also integrated into this solution, allowing workers to view live video feeds in up to 4K resolution, while supporting the recording of video onto high-capacity HDDs.

Multiple 5.8GHz Wireless Video Transmission Devices (PFM880/881) were installed, ensuring full live HD video transmission. The 3-5km range of

the video transmission device ensures that live HD video feeds from the HD Network Cameras can be sent throughout the islands, thus cutting down on network infrastructure costs while resolving the issue of high-security coverage in remote areas.

Other enhanced features this product offers include:

- Durable design can withstand outdoor temperatures of -30 °C to 70 °C
- Wireless transmission range of up to 5km
- Up to 300Mbps transmission speeds
- Support for anti-lightning interference to radio frequencies of up to 15KV ESD
- Auto reboot support
- 5GHz mode supports frequencies from 4920 – 6100MHz
- 802.1x authentication support, guaranteeing device access security
- Multi-channel (5M/10M/20M/40M) support, reducing interference and improving signal penetration capabilities

The main camera used in this project was the 2MP Full HD Network IR Bullet Camera (IPC-HFW2220R-Z). Its enhanced wireless transmission abilities and high-quality image ensure complete coverage. In order to protect against versatile weather conditions, namely rain and seawater, Dahua enclosed the connections for each HD network camera in its Waterproof Junction Box (PFA135).

- Key features of the 2MP Full HD Network IR Bullet Camera include:
- F1.4 aperture and infrared sensors with 30m range for optimal low-light / night recording
- 25/30fps@1080P for high-quality video
- Micro SD Card slot with support for up to 128GB of expandable memory
- 30 – 98 degree angle of view

Multiple 2MP Full HD Network Vandal-Proof IR Wedge Dome Cameras (IPC-HDBW4220F) were also installed, which feature:

- H.264&MJPEG triple-stream encoding, which saves disk space while ensuring quality
- 25/30fps@1080P for high-quality video
- IR sensors with max range of 20m
- Supports multiple user monitoring
- Support for tripwire, intrusion, scene change, and face detection Smart Detection methods
- IK10 vandal resistance rating

32 Channel Super 4K Network Video Recorders (NVR608-32-4K) were installed to collect the various HD video feeds sent wirelessly from transmitters. Along with being able to record and playback 4K video, the recorders also feature:

- Up to 32 channel IP camera input
- Up to 384Mbps incoming bandwidth
- H.264H/H.264/MJPEG compression
- 8 SATA III ports, with support for up to 48TB of HDD storage
- VGA/HDMI display output support

Other essential products include:

- 16/32CH 1U 16PoE Network Video Recorder (NVR4216/32-16P)
- 4/8/16CH Tribird 720P-Lite Compact 1U HDCVI DVR (HCVR4108HS-S2)
- Network Speed Dome (SD63230S-HN)
- Network Mini PTZ Dome (SD29204S-GN)
- 8-Port PoE Switch (PFS3110-8P-96)
- 1.3 Megapixel HD Ultra-smart Network Pinhole Camera (IPC-HUM8101)
- 2Megapixel 1080P Vandal-proof IR HDCVI Mini Dome Camera, 1200 Series (HAC-HDBW1200E)
- DC Power Supply (PFM321)
- Pole Mount Bracket (PFA150)

Results

The wireless network infrastructure used in this solution significantly improved the efficiency in placing surveillance around the islands. HD Network cameras guarantee top-level security due to high quality recording and advanced wireless live video transmission and playback. Project manager Ian Bessly gave his feedback on the results of this project, stating:

“Thanks to Dahua advanced wireless transmission solution and all kinds of HD dome and fixed camera, which completely solve the challenge of network infrastructure shortage and meet our customer’s requirements. It’s also a great experience working with Dahua staff. Hope we will have more profound cooperation in the future”, says Ian Bessley, Project Manager, Absolute Electronic Technology

Dahua Sales Manager, Tom Wu commented on the results of the project:

“It’s been a long time since we last cooperated with Absolute Electronic Technology, and we appreciate having this opportunity to be their partner in this project. With Dahua’s advanced wireless transmission technology and unparalleled image quality, we have succeeded in bringing a full HD, full coverage surveillance system to our client.”

As a result of this wireless solution, multiple types of cameras cover the island chain, which send feeds through long-range wireless transmitters to multiple HD DVR recorders. Because the recorders are more centralized and less devices and components are required in a wireless setup, the entire system was able to be implemented at a lower cost than other traditional configurations. Tourists at Durrat Al Bahrain can enjoy their safer holiday.

CONTACT

Zhejiang Dahua Technology Co., Ltd
Hangzhou, China
www.dahuasecurity.com



security essen
27.09. - 30.09.2016
Halle 1.0, Stand 1B22



PERFECT VISUAL SOLUTIONS

EYEVIS NEW SLIM REAR PROJECTION CUBES
SLIMMEST REAR PROJECTION CUBES IN THE WORLD

With the lowest depth of all DLP® rear-projection cubes on the market, eyevis SLIM-Cubes are the ideal solution for professional video wall installations in control rooms.

Super-slim, wall-mountable and easy to service:

- Lowest installation depth from only 432mm for the 50inch Full-HD version
- Reliable LED-lit projection technology
- Designed for continuous 24/7 operation
- Space-saving installation: direct-to-wall and wall-mountable
- Full front and rear serviceability

© eyevis GmbH | Hundsschleierstrasse 23 | 72766 Reutlingen | Germany | Tel.: +49 (0) 7121 43303-0 | Fax: +49 (0) 7121 4 3303-22 | www.eyevis.com | info@eyevis.de

PERIMETER PROTECTION

Solid as a Rock

Perimeter Protection Group's Prize-winning Wedge Barrier is Crash Tested



Government Security News (GSN) announced that the wedge barrier won the "Best Fencing, Gates, & Barriers" award in the perimeter protection category of their Airport, Seaport, & Border program.

GSN is a security magazine with a monthly print edition that serves a BPA-audited circulation of 35.000 qualified recipients in the fields of physical, IT and homeland security. This audience includes federal, state and local officials, as well as integrators, contractors and suppliers who are similarly involved in homeland security.

This time it is the 7th year of saluting the top leaders in new technologies and innovative security strategies. "This is a highly targeted program," said lead judge Chuck Brooks, "dealing with very serious national and international threats in land, sea and air that are in the news

every day. The vendor companies and government agencies working in airport, seaport, rail and border security and participating in this program are cutting edge leaders both nationally and internationally."

PPG's distributor equipped the elkosta Wedge II with their own self-contained, proven and ultra-reliable control and hydraulic system in accordance with all relevant UL safety and testing regulations for the USA. This combination is perfectly tailored for the US market. Furthermore, it perfectly matches the perimeter protection demands of international airports, ports, borders, government agencies, military, petrochemical, server farms, and utilities.

Elkosta's pioneering wedge barrier has passed not one, but three crash certifications! It is the first of its kind to be crash tested as per the new ASTM

F2656/F2656M-15 standard. Moreover, it is the only product on the high security market which has successfully proven its impact resistance in compliance with all three major and internationally renowned standards, i.e. IWA 14-1, PAS 68 and ASTM F2656.

Last but not least it's the only one of its kind outside the USA which has been crash-tested in minimum and maximum width configurations, thereby in turn validating the assumed impact resistance for all intermediate sizes.

CONTACT

Perimeter Protection Germany

Salzkotten, Germany
Tel.: +49 5258 500 70
info@elkosta.com
www.elkosta.com



Bildunterschrift ►

Vicon Announces Availability of IQeye 9 Series of Cameras

Vicon Industries announced that the IQeye 9 series box camera will be available this summer and Vicon is accepting pre-orders. The new IQeye 9 Series also has increased processing power to effectively run analytics and VMS applications at the edge. Powerful features: This modular camera offers true day/night capability and either a motorized varifocal lens or quick install or CS-mount versions for ultimate flexibility. Increased processing power: With on-camera storage and true day/night capability, these cameras are available in H.264 with up to 5MP resolution. IQzip technology compresses bandwidth thereby allowing additional storage capacity. Standards-based: Both ONVIF and PSIA compliant, the IQeye 9 Series works seamlessly with all leading NVRs and video management software (VMS) providers. Embedded Vicon Analytics: The IQeye 9 series will feature in the next software release free, edge-based analytics that seamlessly integrates into ViconNet VMS and alerts are generated without the need of an analytics server.



www.vicon-security.com

Wisenet People Counting and Heatmap Cameras

The technology partnership established between Hanwha Techwin Europe and Facit has led to the launch of new Wisenet Heatmap and People Counting cameras. Each camera is supplied with a pre-loaded Facit Application that can be put to work straight out of the box.

■ Wisenet Heatmap Camera

The Wisenet SNV-6013/FHM Heatmap camera is able to provide accurate, real-time information about customer in-store behaviour. It does so by displaying hotspots within a store to indicate customer buying patterns, including dwell times. A time-lapse feature adds to the camera's ability to provide valuable business intelligence, such as identifying any areas of a store where there might be low activity in order to assist with product placement decisions.

■ People Counting

The Wisenet SND-6084/FPC bi-directional people counting camera offer retailers the opportunity to measure store efficiency between footfall and actual sales. They also identify the busiest days, times and seasons, helping manage peaks and troughs of customer flow at checkouts.

Security Essen: Hall 2.0, Booth 2D06

www.hanwha-security.eu

Video Management Centre VMC-2 with Touch Screen



With the VMC-2 Dallmeier offers a new Video Management Centre with touch screen for the convenient and intuitive control of video systems. The Video Management Centre VMC-2 stands out due to its ergonomic and intelligent design. It is made up of a touch screen, a joystick and a jog-shuttle. The individual components

are modular and flexible, i.e. they are freely positionable and thus ideally suited for both left- and right-handed operators. Moreover, it is possible to use the components independently as stand-alone devices. The VMC-2 is compatible with SeMSy III video management systems and is DIN EN 50130-4 compliant.

www.dallmeier.com

Auto-aligning Beam Detector

Apollo Fire Detectors is pleased to announce the introduction of its intelligent auto-aligning beam detector, designed to detect smoke in large open areas such as warehouses, churches and sports centres. It is compatible with the new Coreprotocol digital and existing Apollo XP95 and Discovery communication protocols and can be installed with up to two detector heads per controller. The device comprises a ground level loop-powered controller and detector head with an operating range of 8m-50m with a receiver and alignment motor in the same housing.

Security Essen: Hall 3.0, Booth 3B14

www.apollo-fire.co.uk



PANOMERA® multifocal sensor technology

Stop looking in the wrong direction

There are thousands of PTZ cameras in use today, however when video recorded evidence is required they are often found to be looking in the wrong direction.

Similarly there are hundreds of thousands of static cameras that might be looking in the right direction, however when reviewed and a digital zoom function is used, the images are too pixelated to get any relevant evidence.

With the multifocal sensor technology from Dallmeier these issues have been eradicated. With Panomera®, a huge area can be displayed with a completely new resolution quality, in real time and at high frame rates of up to 30 fps. Live or playback, Panomera® is never "looking in the wrong direction"!





'Visions Become Reality' is the slogan under which Wagner will be exhibiting at Security Essen from 27-30 September 2016. The company's stand at the important security and fire protection trade fair will feature innovative, future-safe fire prevention solutions, including air sampling smoke detectors, extinguishing technology, fire prevention and fire risk management. New developments draw upon the company's forty years of experience in systems manufacturing, as well as the expertise of its in-house Research and Development department.

FIRE DETECTION

Hot Stuff

Wagner Will Show its Fire Detection, Prevention, Extinguishing and Risk Management Technology at Security Essen 2016

Wagner developed its first air sampling smoke detector incorporating the high-power light source optical detection method in 1997 to ensure the earliest possible smoke detection. The company is among the technological innovators in highly sensitive, false alarm-proof air sampling smoke detectors. Marketed under the Titanus brand, their broad, modular range of products has a solution for almost any situation. At this year's Security event, the company will be unveiling the Titanus Fusion, a new all-rounder that combines Logicsens smoke development patterning and Pipeguard air flow monitoring. The air sampling smoke detector can even be used in dusty environments and is accurate to temperatures as low as -30 °C. It can monitor areas up to 3,200 m² in size and is available in sensitivity levels of 0.5, 0.1, and 0.015 % LT/m.

Also new this year is the Titanus Multisens, a pioneering system designed for areas where specific deceptive phenomena (such as cigarette smoke, theatrical fog or dust) can trigger false alarms. The self-teaching air sampling smoke detector can tell the difference between false alarms and real fires. Visitors to the company's stand can experience the multi-dimensional optical detection system live in fire experiments.

As early as 1994, Wagner became Germany's first VdS-approved provider (by the Association of Property Insurers) to market solutions using nitrogen as a naturally inert extinguishing agent. At



Security Essen, they will be presenting their latest development in this direction: on-site refilling of extinguishing cylinders using nitrogen generated from the ambient air. Nitrogen is the primary component of our atmosphere, comprising 78% vol. of the air we breathe, so it can be generated cost-efficiently anywhere as needed. The nitrogen extinguishing system remains continuously available in a backup function, and the technology eliminates the need for laborious cylinder replacement work.

Combustion Suppression

Around 500 dedicated employees at 18 locations contribute research and development, service,

project planning and plant engineering work to help the manufacturer realize customized fire prevention systems. Their approach of employing nitrogen as an extinguishing agent gave rise to another product: the Oxyreduct active fire prevention system. "My idea was to alter the atmosphere in protected areas from the very beginning, to make it extremely difficult or impossible for fires to start," explains Managing Director, Dipl. Ing. Werner Wagner. "It all stemmed from the fact that our customers fear fires more than anything."

The introduction of this new technology at the end of the 1990s marked a move to active fire prevention rather than reactive extinguishing solutions. Back then, it was a revolutionary vision; today, it is a standard solution in libraries, museums, the warehousing and logistics sector and IT centers. Wagner's exhibit at Security Essen will feature the latest generation of Oxyreduct models: the powerful, modular P-Line for larger protection areas and the noise-optimized, M-Line for modular nitrogen generation at rates of 10-90 m³/h.

CONTACT

Wagner Group

Langenhagen, Germany

Tel.: +49 511 97383 0

info@wagner.de · www.wagner.eu

Cognitec: Advanced Video Investigation Tools

The video screening and analytics technology from Cognitec, FaceVacs-VideoScan, allows users to perform complex searches on persons appearing in real-time camera streams and stored media files. The 5.3 product version introduces a user-friendly interface to quickly import sets of video and image files and then carry out detailed investigations. For example, security and law enforcement agents can upload videos recorded at a specific location and time to track possible participants in a crime. Users can find a person enrolled in an image database or search for an unknown person and locate their appearances in multiple videos. Person searches can also make use of filters that specify age



ranges, gender, ethnicity and glasses. As a component of the FaceVacs-VideoScan product, Cognitec offers a highly specialized IP video camera with built-in face detection and tracking technology. The camera provides optimal image quality for real-time face recognition, even under challenging conditions, while requiring low computing hardware and bandwidth resources. Cognitec will introduce the product version at IFSEC International in London and show live demonstrations of the software and camera in booth B600. In July, visitors to the Security Expo in Melbourne can see the technology in booth F42.

Security Essen: Hall 4.0, Booth 4A20

www.cognitec.com

Pedestrian and Vehicle Barriers

Automatic Systems will present a selection from its large range of equipment dedicated to pedestrian and vehicle access control at the forthcoming Security Essen in September. The versatile Slimlane speed lane is now available with end-post extensions to integrate token acceptors, card and barcode readers and lift destination controllers. Also on show will be the Smartlane 900 high pedestrian throughput security turnstile, the Clearlock cylindrical security booths for sensitive sites, the Parkplus range of IP connected intelligent parking barriers and the BL 229 universal barrier for traffic management, parking, industrial sites and even toll roads. The RB series of discrete and elegant automatic rising bollards will also feature at stand A72 in Hall 3.

Security Essen: Hall 3.0, Booth 3A72
www.automatic-systems.com

Small Integrated Door Monitoring System

Simons Voss, an electronic lock manufacturer and brand of Allegion, has enhanced its Smarthandle door fitting for the 3060 digital locking and access control system. Intelligent door monitoring now allows doors to be monitored 24 hours a day, showing whether the door is open or closed, the lock secured or not. It uses a contactless system to communicate with identification media via the reader integrated into the fitting. The internal handle contact sensor ensures that there is no forced entry from the outside and that no connected alarm system has been triggered.

Security Essen: Hall 11, Booth 11C12
www.simons-voss.com

FITTED FOR YOUR ENVIRONMENT.

Successfully integrate your security systems with SeeTec.



www.seetecvideo.com

Today, it is hard to find a project where integration isn't right at the top of the agenda. At SeeTec, we have developed innovative video management solutions that set the standard for connectivity. Thanks to intelligent interfaces and an open system architecture, security systems as well as all kinds of hardware and software components can be integrated quickly and efficiently into existing ecosystems. The result: more flexibility, efficiency, and sustainability.

See Your Business with Fresh Eyes



Linear smoke detectors were installed in parts of the Polish Maritime Museum in Gdansk

FIRE DETECTION

Protecting Our History by Learning from the Past

An Intelligent Approach to Fire Safety in Historical Buildings and Museums

Put simply, fire is probably the single most obvious common threat to the fabric and contents of sites that represent our cultural heritage. We all hope to learn from the historical buildings and museums that are all around us and much effort goes into conserving them. However, one thing that life has taught us is that while a fire in an ordinary building might sometimes cost a great deal of money to rectify, the loss of irreplaceable works of art or the damage to historically significant sites are things that often cannot be put right. As the current custodians of these historic buildings, artifacts and all the works of art contained within our galleries, museums, stately homes, churches, castles and palaces, it is our duty to take care of them so that they can be enjoyed by generations to come.

Often it is the building or site itself that is of notable, historical significance. Perhaps an important event took place there that changed the course of history and the lives of local people forever. Or perhaps the building shows the way of life of times gone by – the architecture, the building methods, the quality of the craftsmanship. In instances such as these, it is the protection of the building itself that is of prime concern. In other cases, such as our municipal galleries and museums, it is the many paintings, sculptures, artifacts and objets d'art that must be defended against the ravages of smoke and flame. Often it is both. However, one factor which is more important than all of these considerations when it comes to installing the most suitable fire protection systems possible – the protection of human life.

Human Life Is Always the First Priority

Museums and galleries need to provide the best possible around-the-clock fire protection for the site and the people using it. It is vital to minimize the likelihood of fire by the elimination of major risks and careful management of those risks that cannot be eliminated. This usually involves the implementation of not only the appropriate infrastructure of fire detection, alarming, evacuation and extinguishing systems, but also the requisite management of staff training, fire drills, as well as the strict adherence to maintenance schedules and the observing of all fire-safety regulations.

Recently designed and constructed museums and galleries – like all modern buildings – should be designed to comply with all current national legislation in order to provide the maximum protection of all their occupants against fire at all

times of night and day. In the event of a fire, all the people within the building should be alerted to the danger and able to quickly and calmly exit the premises through a clear, well planned and safe exit route. These modern galleries and museums will be designed with compartmentalization to contain any spreading of fire. They will also probably feature: state-of-the-art fire detection and alarming equipment; smoke control ventilation; multiple, well signposted emergency exit routes; and extinguishing systems appropriate to the objects that are being protected.

However, it is generally estimated that less than 20% of galleries and museums around the world are this kind of modern building. Many works of art and items of historical, artistic or natural significance are usually housed in older civic buildings or institutions and these older

buildings are naturally made with the traditional, easily combustible materials in common use at the time of their construction. Adapting existing older buildings to provide such comprehensive cover is often a difficult undertaking.

The Challenges

The potential impact of fire on items and sites of historic importance is, ironically, not a new thing. Loss of historically significant documents and artifacts has happened throughout recorded time - ever since the fire which reputedly destroyed the Library of Alexandria, one of the largest and most significant libraries of the ancient world. More recently many fires such as those at the Quebec Armory in Canada and Windsor Castle in England - the largest inhabited castle in the world and one of the official residences of the British monarch - have caused major damage to the buildings and the artifacts they housed.

Often, the electrical systems within historical buildings do not comply with today's safety standards and consequently are an inherent danger themselves, but sometimes it is simply the negligent and careless use of electrical equipment and appliances that can be shown to be the cause of many outbreaks. This includes heating equipment, spotlights, hot-plates, toasters and coffee-makers left switched on, or welding, soldering or brazing work taking place during renovation projects. The spread of any resulting fire and the extent of the damage caused are often exacerbated by the traditional construction methods and standards relevant to the period in which the building was constructed. Adverse factors facilitating the spread of smoke and flames might include: open and ill-fitting doors; thin walls; structural discontinuities; unknown wall and floor voids; unstopped ventilation and service routes; undivided roof voids and the general lack of compartmentalization.

Protection of People and Assets

Providing optimal fire protection for both the people and the property itself is often at odds with the conservationist ideals of minimal intervention regarding the structure and aesthetics of any building of historic importance. The challenge for providers of fire protection is to find the balance between safeguarding life and maintaining the historical authenticity of the site. The need to preserve the aesthetic look and feel of the site is a challenge in itself. Retaining the integrity of irreplaceable interior architectural details such as wall decorations, stucco ceilings and frescoes, is vital. Finding the optimum solution is the key to providing an effective fire safety concept for each building.

Museums and galleries often have large exhibition rooms with high ceilings. In these instances, the deceptive phenomena that sometimes occur in other locations - such as steam, dust or smoke from sources other than a fire - are generally unlikely to be present. But the large volumes of air in these rooms will cause the concentration of any genuine fire-related aerosol to be greatly diluted and more difficult to detect as a result. Such



Tettng Castle relies on a wireless fire alarm system.

a situation calls for a proactive detection system with high sensitivity - a term which perfectly sums up ASD (Aspirating Smoke Detection) technology. ASD systems ensure reliable fire detection in demanding application areas and, combined with innovative extinguishing systems that cause no damage to the priceless, irreplaceable, sensitive items being protected, are often the ideal solution.

Being very sensitive to the lowest concentrations of smoke, ASD provides the earliest possible detection of the outbreak of fire. It works by drawing air to be sampled in a detection chamber through a large number of small holes in a network of concealed pipework that can be made practically invisible to the naked eye. In highly ornate locations, such as the artistically decorated ceilings and walls of churches, cathedrals, theatres and libraries, ASD can provide what is effectively invisible fire detection with the pipework hidden in roof voids to detect smoke early and reliably, well before active flaming breaks out. In this type of application, characterized by high ceilings and large open areas, smoke stratification will occur, mainly because smoke from a small fire lacks the heat and subsequently the thermal buoyancy to reach mounted beam type or conventional detectors located high on the ceiling. ASD uses innovative optical dual wavelength technology to detect the earliest signs of combustion, whilst ensuring good immunity to those deceptive phenomena. Doing so enables detection of smaller airborne particles as produced in the earliest stages of overheating or as found in open fires. By determining the size and concentration of the airborne particles, aspirating smoke detectors are able to differentiate between smoke and dust and steam particles. As a result, they offer the highest detection reliability, preventing the downtime and loss of income caused by false alarms. To meet the requirements of challenging environments, the detectors have a programmable sensitivity range so that not even the most demanding conditions will provoke a false alarm.

The main priority in some historical buildings however, is often the need to minimize the impact of the detection system on the decor, aesthetics and the structure of the building, both during the initial installation work and during any subsequent maintenance. Where ASD would therefore prove unsuitable, other intelligent solutions need to be considered - such as a combination of wireless and linear smoke detectors - which is specifically suited to the needs of protecting buildings and items of historical or cultural value.

Maximum Protection With Wireless Technology

Needing no cable, radio fire detection is the ideal solution for rooms or buildings with aesthetic or architectural restrictions as well as temporary installations. As the technology is wireless, devices can be quickly positioned and repositioned. This facilitates planning, reduces the costs of installation and offers a high level of freedom and flexibility should room or building usage change at any time. Solutions are available which use mesh technology, along with detectors to eliminate false alarms and still provide early detection. Mesh technology is especially helpful in overcoming obstacles like the very thick walls which are typical of historical buildings or when setting up large wireless networks.

Detectors with two optical and two heat sensors are more reliable than conventional wireless smoke detectors. The capacity to adapt to the appropriate environmental conditions is also important - from 'Clean' to 'Harsh', for example - by choosing an application-specific parameter set. Technology can interpret and evaluate signals in real time, dynamically adapting the selected parameters. This means the detector is immune to those deceptive phenomena such as steam, dust or even the special effects sometimes used in theaters.

Such a wireless fire alarm system has recently been installed to protect and preserve the histori-

cally valuable interior of Tettng Castle, the state residence of the Counts of Montfort-Tettng in Germany's Upper Swabia region, filled with impressive art and stuccowork from the 18th century. The Castle features spectacular Baroque interiors which are still among the finest in the region. Thanks to the intelligent and safe wireless technology, the original building structure remained untouched and the solution was installed quickly without interfering with the museum's opening hours.

Alarming and Evacuation Measures

If a fire should break out, it is essential that all staff and visitors are promptly and efficiently made aware of the fact. These types of attraction will often have many hundreds of visitors and must usually fulfill special requirements with regard to alarming and evacuation in the event of a fire. Those places with such large numbers of visitors will need bells and alarms with a higher noise level but should also be equipped with optical alarms or beacons and sounders for the hard of hearing and partially sighted. The obvious purpose of the acoustic and visual alarms is to warn both visitors and staff of the hazardous situation that is potentially developing. It also signals the need for trained staff to take their place in order to coordinate the evacuation and help all visitors who are probably unaware of the planned escape routes and emergency exits, to exit the building safely. In some cases, the alarm will also call some specially trained staff to investigate the cause of the alarm and possibly tackle the fire with the appropriate hand-held extinguishers if they can do so without endangering themselves and others. Alarms intended for in-house staff should always be generated without delay in order to allow the cause of the alarm to be investigated as quickly as possible. Members of staff may be alerted without activating the main alarm to investigate whether the fire is small enough to be tackled without disruption to visitors and normal business activities unless absolutely necessary. Staff may be contacted by pager, mobile phone, the app on a smart phone, a local, discreet audible alarm or even a silent or coded alarm.

At the very least, a basic system will activate the installed alarms and transmit a signal to the local fire department and emergency services. More sophisticated solutions may include a dedicated voice alarm system providing clear and concise information through calm, pre-recorded vocal messages to assist a speedy evacuation and to prevent panic.

Extinguishing

Whatever systems or solutions are put in place, the possibility of a fire gaining hold will always be present. The high fire load of these buildings, along with the difficulties of ensuring effective compartmentalization, means that a fire can soon gain hold if it is not stopped in its early stages. The provision of an adequate number of hand-held extinguishers in the appropriate areas to be



The ASD pipework can be made practically invisible, therefore it can be also used for artistically decorated ceilings.

operated by staff or competent visitors in the earliest stages of an outbreak is essential. Intervention by municipal firefighting forces might prevent the total destruction of the building itself but the amount of water used from high-pressure hoses during the rescue process sometimes results in as much water damage to important artifacts and works of art as that caused by the fire and smoke. The installation of an automatic extinguishing system is the obvious answer to this problem but so many sites of historical and cultural interest simply have not taken this important step.

There are, of course, various different forms of automatic extinguishing solutions, the suitability of which largely depends on the application itself. In general exhibition areas, water sprinkler systems and water mist systems are mostly used for their effectiveness, high reliability, their simple and robust technology, low maintenance costs and the usual plentiful supply of water. The use of sprinkler systems is primarily intended to protect the fabric of the buildings and prevent their collapse. The sprinklers can effectively suppress and extinguish fires in the early stages of combustion, but their main purpose is to control the fire and cool the building structure in order to allow firefighters to tackle any real blaze by reducing smoke and dangerous gases and lowering the internal temperature. However, the installation of sprinkler systems, common in modern buildings and often required by local building regulations in many countries, can substantially reduce the insurance premiums for many premises. However, this is often frowned upon in historical buildings and museums by conservationists. The installation procedure can be quite invasive and should only be undertaken where architectural or interior decor sensitivity is not an issue.

In archive rooms and closed storage vaults where historic or artistic items are housed, gas

systems or those using a combination of inert gas and water are widely employed. Inert gas systems are particularly suitable for rooms that contain sensitive objects or equipment where water cannot be used. However, an alarm must be sounded before the release of the extinguishing gases – which suffocate the fire by depriving it of the oxygen needed for combustion - to alert people of the imminent flooding of the area. Unique systems using a combination of gas and water admix release nitrogen gas to reduce the concentration of oxygen in a room and effectively extinguish detected fires, rapidly and reliably.

An Intelligent Approach to Fire Safety in historical buildings and museums

The protection of historical buildings, galleries, museums, theatres, libraries and other buildings of cultural interest from fire is unlike that required by most other types of building. They generally comprise many different types of room: large display rooms with high ceilings; archive rooms and storage vaults housing different types of important objects and documents; electrical plant rooms in which power supply equipment, control systems, security systems and computer servers are accommodated; kitchens that cater for large numbers of visitors and staff daily represent a potential fire hazard; special function rooms used for receptions, parties, weddings and conferences. These areas can all be considered as relatively critical zones due to the difficulties in detecting the early stages of combustion or the variety of ignition sources. Simple compliance with the relevant minimum legislation does not always provide comprehensive protection from the damaging effects of fire, smoke – and the high-pressure water used by firefighters to suppress their spread – especially in terms of protecting the valuable assets and irreplaceable historic artifacts and works of art.

The Polish Maritime Museum in Gdansk in Poland is a good example of how a fire protection system can be tailored to meet the specific needs of a given application. The main building, the Granaries on Ołowianka Island, was built in the late Middle Ages and now hosts extensive exhibitions of original historical objects, stored on both a permanent and temporary basis with thousands of visitors each year. Linear smoke detectors were installed in the two-level exhibition halls and the

atria, along with loop-powered sounder beacons to ensure fast and safe evacuation.



Author
Markus Späni, Principal Expert Application – Siemens Building Technologies

CONTACT

Siemens, Building Technologies Division
Zug, Switzerland
Tel.: +41 41 724 24 24
www.siemens.com/buildingtechnologies

Fire Detectors and Loop Protocol

Apollo Fire Detectors, specialists in the design and manufacture of fire detection products, will be showcasing their comprehensive range of products on stand 3B14 at Security Essen. The new Soteria range is designed to improve detection, reduce false alarms and deliver improved reliability. The detectors have been extensively tested by the Apollo in-house testing team. The company's enhanced protocol, named Coreprotocol, for fire loop communication gives greater control and more loop power. It builds on the established capabilities of XP95 and Discovery, with forward and backwards compatibility, and can manage a significantly increased number of devices.

Security Essen: Hall 3.0, Booth 3B14

www.apollo-fire.co.uk

Supply of Brand Rex Fire Detection Cables

Linesense Fire Detection is a newly formed company dedicated specifically to providing "continuity of supply" for the established Linear Heat Detection (LHD) cable from Brand Rex. The LHD cable production started in 1978 and in the past six years alone, more than six million metres have been installed in a broad variety of fire detection applications around the world. The Linesense cables are Factory Mutual (FM) approved and are available in a wide range of alarm temperatures to provide early warning of overheating. They can be supplied "cut to length" to customer requirements from 100 metres up to 1,000 metres.

Panasonic: Drone Finder Technology

Panasonic Business is developing drone finding technology that can help mitigate the threat of drone accidents and terrorism. Research by Oxford Research Group, describes the threat of high street drones as 'a game changer in the wrong hands', the Group's report The Hostile Use of Drones by Non-State Actors Against British Targets goes on to say, 'drones will be used as simple, affordable and effective airborne improvised explosive devices'. A prototype of Panasonic's drone finder was on show at IFSEC 2016. The technology provides detection of the drone, which is seen as the starting point in order to control the drone. Using 32 array microphones and a Pan Tilt Zoom CCTV camera, each sensor can detect a drone at distances of up to 300m through a 150 field of view. The drone finder analyses neighbouring noises to eliminate them from the detection.

Security Essen: Hall 2.0, Booth 2B46

www.panasonic.com

Apollo: Intelligent Auto-aligning Beam Detector

Apollo Fire Detectors announces the introduction of its new Intelligent Auto-Aligning Beam Detector, designed for detecting smoke in large open areas such as warehouses, churches and sports centres. The new Intelligent Beam Detector is compatible with CoreProtocol, the new Apollo digital communication protocol. Additionally, the device is backwards compatible with existing Apollo XP95 and Discovery protocols and can be installed with up to two detector heads per controller, thus saving on installation time and costs. The device comprises of a ground level Loop-Powered Controller and detector head with an operating range of 8m-50m with a receiver and an alignment motor in the same housing for quick and simple installation, an optional additional detector head can be connected to the controller. The detector automatically compensates for environmental effects on the beam signal by a combination of drift compensation and motorised realignment of the beam.

Security Essen: Hall 3.0, Booth 3B14

www.apollo-fire.co.uk

Dahua: Analog-to-HD Solution

Dahua announced the release of HDVI 3.0, its next-generation analog-to-HD video surveillance solution. HDVI, also known as high definition composite video interface technology, is technology developed and introduced by Dahua in November 2012 to address an industry need. Since then it has become a standard for HD-over-coaxial-cable video transmission that allows reliable, cost-effective long-distance HD transmission, offering powerful performance and functionality. Dahua HDVI3.0 technology includes full compatibility with a wide range of industry platforms and technologies, higher video resolutions such as ultra HD and 4K, as well as intelligent functions equal to those in IP systems.



Security Essen: Hall 2.0, Booth 2A06

www.dahuasecurity.com





By Appointment to
Her Majesty The Queen
Supplier of Fire Detection Equipment
Kentec Electronics Ltd, Dartford



Kentec
Electronics Ltd

**Will proudly be exhibiting again at
Security Essen in 2016**

**Visit Stand 1A 03 to see our
comprehensive range of Fire Control Panels**

**To arrange a meeting, please contact
marketingmail@kentec.co.uk**

**For our full range of products visit
www.kentec.co.uk**

Life Safety System Specialists



FIRE PROTECTION

Mind the Step

Kentec Safeguards Escalators at New Kings Cross St. Pancras Underground Station

The Northern Ticket Hall at London's King's Cross St. Pancras Underground Station includes 10 new escalators, installed to provide access to the Victoria and Piccadilly Tube lines.

The installation of a fully developed Escalator Water Suppression System (EWSS), a bespoke system from Kentec Electronics Ltd., incorporates the latest developments in linear detection cable. The system is designed to give a greater degree of control over the sprinkler system as it allows sprinkler activation to be more localised, whilst providing a fire safe environment and minimising service disruption from false alarms.

In this latest version of the King's Cross EWSS, Kentec has played a principal role in integrating the Listec linear heat detection interface to an addressable control system for ease of configurability.

This reliable and robust Kentec control system has been used extensively in London Underground stations including Moorgate, Bank, Embankment, Holborn, Bond Street, St Pauls and Shepherds Bush.

It is a reputation that sees Kentec life safety systems installed, for example, as the predominant technology platform on the London Underground system, in Royal Palaces, Parliaments, National Museums and Heritage Sites.

The Taktis product range of fire alarm control solutions combines latest hardware and software to produce a control and indication system ►

Research and Development

At the heart of this reputation is constantly innovative research and development, wholly managed and operated in-house by fire industry specialists adeptly responsive to the demands of global

markets, and adaptable to customer feedback that drives the company's desire to develop and deliver the most effective products.

The company's Taktis range is an example of this desire to advance the boundaries of fire tech-





Kentec's team of dedicated trainers who provide customers with product training both onsite and offsite, UK and overseas

nology. Defined by the rapid emergence of internet connectivity and its integration to intelligent buildings, the company's all-new Taktis product range of fire alarm control solutions combines the very latest hardware and software to produce a control and indication system that's powerful and sophisticated, yet simple to use and understand, with the flexible configurability to realize many essential control and indication applications, with direct integration into intelligent buildings.

It is the fire industry demands for quality and functionality, in addition to meeting the wider market standards in the fire industry that Kentec endeavours to exceed. The company conducts its own in-house, robust, pre-release valuation and validation testing to ensure compliant reliability and safety. Likewise, the company's new computerised Intuitive Production Planning System, tailored specifically to customer needs, is achieving giant strides in flow rate, factory planning, quality and product volume, to supply the demand that is continually increasing. A new barcoding system to track the parts and assembly at each manufacturing stage also underpins Kentec's long-term aims to optimize volume manufacturing and grow the company to achieve wider industry recognition as a key global supplier of fire panels.

Dedicated Customer Support and Training

Having worked closely with national and international customers and end users for 30 years, Kentec has the experience and expertise to develop simple-to-use, easy to set-up fire control panels that save commissioning engineers valuable time and allow end users to have full confidence in the safety systems they have selected.

As part of Kentec's customer care the company offers sector-leading technical support facilities and a dedicated team of highly trained personnel providing direct telephone assistance; this is backed up by regular technical e-mail bulletins. Kentec also has a team of dedicated trainers who provide customers with product training both onsite and offsite, UK and overseas. The success of this customer care programme can be measured by the recent addition of new training facilities to cater for greater customer demand.

CONTACT

Kentec Electronics Ltd
 Dartford, United Kingdom
 Tel.: +44 1322 222 121
www.kentec.co.uk

WILEY

ONE SITE FITS ALL

WWW.PRO-4-PRO.COM



CLEAR
 STRUCTURE
 OPTIMIZED FOR
 MOBILE DEVICES
 MODERN
 DESIGN

PRO-4-PRO.com
PRODUCTS
FOR PROFESSIONALS
The Unique Database for
Vertical B2B Markets.



Security Management



Security Management



Schille Informationssysteme GmbH
Goseriede 4 · D-30159 Hannover
Tel. +49(0)511/542244-0 · Fax +49(0)511/542244-22
info@schille.com · www.schille.com
Facility and building management and security technology, fault and hazard management systems, OPC development, video surveillance systems

Facility Security



SimonsVoss Technologies GmbH
Feringastr. 4 · D-85774 Unterföhring
Tel. +49(0)89/99228-180 · Fax +49(0)89/99228-222
marketing@simons-voss.de · www.simons-voss.de
Digital locking and organisation systems with optional access control and time recording

Security Management



Advancis Software & Services GmbH
Monzastraße 1 · D-63225 Langen
Tel.: +49 (6103) 80735-0 · Fax: +49 (6103) 80735-11
info@advancis.de · www.advancis.de
WinGuard – Integral system for security and building management, control and visualization, alarm management, video management, communication

Security Management



NSC Sicherheitstechnik GmbH
Lange Wand 3 · D-33719 Bielefeld
Tel. +49(0)521/13629-0 · Fax +49(0)521/13629-29
info@nsc-sicherheit.de · www.nsc-sicherheit.de
Access Control, CCTV, Fire Alarms, Intruder Alarms

Facility Security



Walter Wurster GmbH
Heckenrosenstraße 38-40
D-70771 Leinfelden-Echterdingen
Tel. +49 (0) 711/949 62-0
kontakt@wurster-online.de · www.wurster-online.de
Money handover systems fire resistant up to F90 and bullet resistant up to FB7, cash trays, cash-drawers and facade counters to pass through money, valuables, documents and for installation in high-security areas, banks, petrol-stations, pharmacies, sports – and cultural sites indoors and outdoors.

Security Management

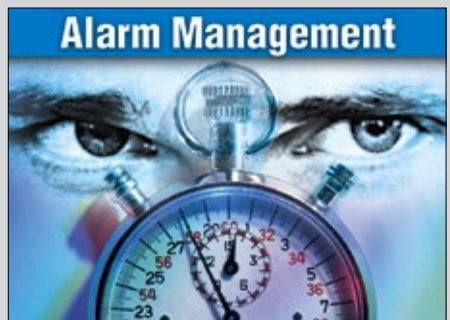


deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification; biometric verification; guard tour systems; storing and management of keys and valuables

Facility Security



Alarm Management




Security Management



LevelOne is a trademark of Digital Data Group

Digital Data Communications GmbH
Zeche-Norm-Straße 25 · D-44319 Dortmund
Tel. +49 (0) 231-9075-222 · Fax +49 (0) 231-9075-184
sales@level-one.de · www.level-one.de
LevelOne provides full service – even when it comes to security: A broad range of high quality IP-products, combined with expertise in projects, assure reliable security solutions in all dimensions.

Facility Security



deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification; biometric verification; guard tour systems; storing and management of keys and valuables

Alarm Management




ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5 · D-86444 Affing
Tel. +49(0)8207/95990-0
Fax +49(0)8207/95990-100
info.de@abus-sc.com · www.abus.com
ABUS Security-Center is a manufacturer of innovative alarm systems, video surveillance systems, door intercom systems and detectors. As a member of the ABUS Group, the company is specialised both in industry-specific security requirements as well as the demands which private users have.

Security Management



Funkwerk video systeme GmbH
Thomas-Mann-Str. 50 · D-90471 Nürnberg
Tel. +49(0)911/75884-558
Fax +49(0)911/75884-220
info@funkwerk-vs.de · www.cctv-systeme.com
CCTV, system solution, system integration, video monitoring security, building management

Facility Security



Dictator Technik GmbH
Gutenbergstr. 9 · D-86356 Neusäß
Tel. +49(0)821/24673-0 · Fax +49(0)821/24673-90
info@dictator.de · www.dictator.de
Drive units, hold open systems and smoke detectors, door control solutions

Alarm Management



ATRAL-SECAL GmbH
Service Daitem
Thaddenstr. 4 · D-69469 Weinheim
Tel. +49(0)6201/6005-0 · Fax +49(0)6201/6005-15
info@daitem.de · www.daitem.de
Radio-controlled burglary alarm systems, radio-controlled fire warning devices, distribution via security suppliers

Security Management



Nedap Security Management
Parallelweg 2 · NL-7141 DC GROENLO
Tel.: +31 (0) 544 471 666
info@nedapsecurity.com · www.nedapsecurity.com
Nedap security systems are used by millions of people at banks, airports, hospitals, government offices and industry services all over the world.

Facility Security



GEZE GmbH
Reinhold-Vöster-Str. 21-29 · D-71229 Leonberg
Tel. +49(0)7152/203-0 · Fax +49(0)7152/203-310
info.de@geze.com · www.geze.com
Automatic door systems, security systems, security locks

Alarm Management



Digisound Electronic GmbH
Oststraße 54 · D-22844 Norderstedt
Tel. +49(0)40/526869-0 · Fax +49(0)40/526869-13
contact@digisound.de · www.digisound.de
Acoustic buzzers, piezo-electric sounders, electronic beacons, speakers, and transducers

Alarm Management



TAS
SICHERHEITS-UND
KOMMUNIKATIONSTECHNIK

TAS Telefonbau
A. Schwabe GmbH & Co. KG
Langmaar 25 · D-41238 Mönchengladbach
Tel. +49 (0) 2166 858 0 · Fax: +49 (0) 2166 858 150
info@tas.de · www.tas.de
Manufacture and development of: alarm and conference units, VoIP- or ISDN emergency technology, alarm transmission systems

Video Technology



DEKOM
VIDEO SECURITY & NETWORK GMBH

Your reliable partner and provider of professional network video products in Germany & Austria

DEKOM Video Security & Network GmbH
Hoheluftchaussee 108 · 20253 Hamburg
Tel. +49 (0) 40 4711213 - 0 · Fax Tel. +49 (0) 40 4711213 - 33
info@dekom-security.de
www.dekom-security.de · www.divicro.de

Video Technology



SANTEC

SANTEC BW AG
An der Strusbek 31 · 22926 Ahrensburg · Germany
Tel. +49 4102 4798 0 · Fax +49 4102 4798 10
info@santec-video.com · www.santec-video.com
Video monitoring technology · Video-over-IP
Outdoor IR sensors · Planning and Services

Video Technology



Eyevis GmbH
Hundschleestr. 23 · D-72766 Reutlingen
Tel. +49(0)7121/43303-0 · Fax +49(0)7121/43303-22
info@eyevis.de · www.eyevis.de
Large surface displays of security information in control rooms

Video Technology



SeeTec
An OnSSI Company

SeeTec GmbH
Werner-von-Siemens-Str. 2-6 · D-76646 Bruchsal
Tel. +49 (0) 7251 9290-0 · Fax +49 (0) 7251/9290-815
info@seetec.de · www.seetec.de
SeeTec GmbH is a leading provider of Video Management Software in Europe. Since 2000 SeeTec has been developing and selling software solutions for security applications.

Video Technology



VICON

Vicon Deutschland GmbH
Gutenbergstraße 1 · D-23611 Bad Schwartau
Tel. +49(0)451/81189027 · Fax +49(0)451/1602029
desales@vicon-security.com · www.vicon-security.de
Vicon is one of the worldwide leading independent manufacturers and full-range supplier of IP based video security solutions.

Video Technology



ABUS
Security Tech Germany

ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5 · D-86444 Affing
Tel. +49(0)8207/95990-0
Fax +49(0)8207/95990-100
info.de@abus-sc.com · www.abus.com
ABUS Security-Center is a manufacturer of innovative alarm systems, video surveillance systems, door intercom systems and detectors. As a member of the ABUS Group, the company is specialised both in industry-specific security requirements as well as the demands which private users have.

Be Part of the Section



GIT BUSINESSPARTNER
The Purchasing Section for direct contact

Just send a mail to
heiko.baumgartner@wiley.com

We will be glad to advise you!

Video Technology



AXIS
COMMUNICATIONS

Axis Communications GmbH
Adalperstraße 86 · D-85737 Ismaning
Tel. +49 (0)89/35 88 17 0 · Fax +49 (0)89/35 88 17 269
info-de@axis.com · www.axis.com
Network video equipment – the AXIS IP-Surveillance allows remote access video management

Video Technology



logiware

logiware gmbh
Alfred-Mozer-Str. 51 · D-48527 Nordhorn
Tel. 05921/7139920 · Fax 05921/7139929
info@logiware.de · www.go1984.de
Software, video transmission systems, security, video, video surveillance systems, digital video surveillance, networking

Time + Access



cichon+STOLBERG
cryptins

Cichon+Stolberg GmbH
Wankelstraße 47-49, 50996 Köln
Tel. +49(0)2236/397-200 · Fax +49(0)2236/61144
info@cryptin.de · www.cryptin.de
Operational data collection, time recording, access control

Video Technology



CBC GROUP
CBC (Europe) GmbH

CBC (Europe) GmbH
Hansaallee 191 · D-40549 Düsseldorf
Tel. +49(0)211/530670 · Fax +49(0)211/53067180
info@cbc-europe.com · www.cbc-europe.com
Video monitoring components – e.g. cameras, lenses, screens, monitoring technologies, DVR, NVR.

Video Technology



lunaHD
High Definition Video

www.luna-hd.de

Time + Access



Dallmeier

Dallmeier electronic GmbH & Co. KG
Cranachweg 1 · 93051 Regensburg
Tel. +49(0)941/8700-0 · Fax +49(0)941/8700-180
info@dallmeier.com · www.dallmeier.com
Video security technology made in Germany: multifocal sensor technology Panomera®, IP cameras, recording servers, intelligent video analysis, video management software

Video Technology



MONACOR INTERNATIONAL

MONACOR INTERNATIONAL
Zum Falsch 36 · 28307 Bremen
Tel. +49(0)421/4865-0 · Fax +49(0)421/488415
info@monacor.de · www.monacor.com
Video monitoring components and systems

Time + Access



deister electronic

deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info.de@deister.com · www.deister.com
access control; vehicle identification; biometric verification; guard tour systems; storing and management of keys and valuables

Time + Access



FEIG ELECTRONIC GMBH
Lange Straße 4 · 35781 Weillburg
Tel. +49(0)6471/3109-44 · Fax +49(0)6471/3109-99
obid@feig.de · www.feig.de
Electronic locking systems, identification, access control, access road control

Time + Access



GANTNER Electronic GmbH
Montafonerstraße 8 · A-6780 Schruns
Tel. +43 5556 73784-542 · Fax +43 5556 73784-8000
info@gantner.com · www.gantner.com
access control solutions/biometrics, time management, data capture, locking systems

Time + Access



ISGUS GmbH
Oberdorfstr. 18-22
78054 Villingen-Schwenningen
Tel. +49(0)7720/393-0 · +49(0)7720/393-184
info@isgus.de · www.isgus.de
Time Recording, Access Control, Plant Data Collection, Staff Planning

Time + Access



PCS Systemtechnik GmbH
Pfälzer-Wald-Straße 36 · 81539 München
Tel. +49(0)89/68004-550 · Fax +49(0)89/68004-555
intus@pcs.com · www.pcs.com
time recording, access control, BDE/MDE, biometric, video, SAP, Vein Scanner

Time + Access



phg Peter Hengstler GmbH + Co. KG
Dauchinger Str. 12 · D-78652 Deißlingen
Tel. +49(0)7420/89-0 · Fax +49(0)7420/89-59
datentechnik@phg.de · www.phg.de
RFID components for access control, timekeeping, factory data collection, canteen data, leisure applications, surface-mounted devices, flush-mounting components, biometrics, identification media and accessories

Time + Access



primion Technology AG
Steinbeisstraße 2-4 · D-72510 Stetten a.K.M.
Tel. +49(0)7573/952-0 · Fax +49(0)7573/92034
info@primion.de · www.primion.de
Time management, access control and management, staff deployment planning, graphic alarm management, SAP communications solutions, pass and ID card production, Biometrics

Fire Protection



Fire Protection



Ei Electronics®
fire + gas detection
Ei Electronics
Shannon Industrial Estate
Shannon, Co. Clare · Ireland, V14 H020
Tel. 00 353 61 471277 · Fax 00 353 61 471053/471140
enquiries@eieletronics.ie · www.eieletronics.com
smoke alarms, heat alarms, carbonmonoxide alarms, RF systems, interfaces, deaf alarms, remote controls, AudioLINK

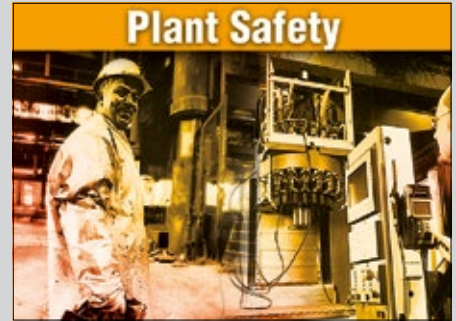
Fire Protection



WAGNER Group GmbH
Schleswigstraße 1-5 · 30853 Langenhagen
Tel. +49(0)511/97383-0 · Fax +49(0)511/97383-140
info@wagner.de · www.wagner.de

Hamburg · Berlin · Leipzig · Hannover · Köln
Mülheim/R. · Frankfurt/Main · Stuttgart · München

fire suppression, fire prevention, very early fire detection, fire protection for server racks



Plant Safety

Plant Safety



Pepperl+Fuchs GmbH
Lilienthalstraße 200 · 68307 Mannheim
Tel. 0621/776-1111 · Fax 0621/776-27-1111
fa-info@de.pepperl-fuchs.com
www.pepperl-fuchs.com
Security sensors, inductive, capacitive, opto-electronic and ultrasonic sensors, vision sensors, identification systems, interface modules

Be Part of the Section



Just send a mail to
heiko.baumgartner@wiley.com

We will be glad to advise you!

Fire Protection



by Honeywell

Novar GmbH a Honeywell Company

Dieselstraße 2 · D-41469 Neuss
Tel.: +49(0)2131/40615-600
Fax: +49(0)2131/40615-60
info@esser-systems.com · www.esser-systems.com
Fire Alarm systems, voice alarm systems, emergency lighting systems, security systems

Fire Protection



Ihr Partner für Brandschutz

Hekatron Vertriebs GmbH
Brühlmatten 9 · 79295 Sulzburg
Tel. +49(0)7634/500-0 · Fax +49(0)7634/6419
info@hekatron.de · www.hekatron.de
Fire alarm systems, Smoke switch systems, Smoke alarms, Safety linkage systems

Fire Protection



Kidde Deutschland GmbH
Harkortstraße 3 · 40880 Ratingen
Tel. +49(0)2102/5790-0 · Fax +49(0)2102/5790-109
info@kidde.de · www.kidde.de
Fire detection and extinguishing technology · high sensitive smoke detection · fire protection systems for server cabinets and IT rooms.

IMPRINT

Published by

Wiley-VCH Verlag GmbH & Co. KGaA
A Company of John Wiley & Sons, Inc
Boschstrasse 12 · 69469 Weinheim · GERMANY
Tel.: +49 (0) 6201 606-0 · Fax: +49 (0) 6201 606-791
info@gitverlag.com · www.gitverlag.com

Managing Directors

- Sabine Steinbach
- Philip Carpenter

Publishing Directors

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

- Steffen Ebert
Tel.: +49 (0) 6201/606-709
steffen.ebert@wiley.com

Sales Managers

- Regina Berg-Jauernig
Tel.: +49 (0) 6201/606-704
regina.berg-jauernig@wiley.com
- Dr. Katina Leondaris
Tel.: +49 (0) 6201/606-734
katina.leondaris@wiley.com
- Sebastian Reinhart
Tel.: +49 (0) 6201/606-744
sebastian.reinhart@wiley.com
- Dr. Michael Leising
Tel.: +49 (0) 36 03/89 31 12
- Manfred Höring
Tel.: +49 (0)61 59/50 55

Wiley GIT Reader Service

65341 Eltville / Germany
Tel.: +49 6123 9238 246
Fax: +49 6123 9238 244
E-Mail: WileyGIT@vuservice.de
Our service is available for you from
Monday to Friday 8 am – 5 pm CET

Editorial

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

Editorial Assistant

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

Production

- Jörg Stenger
- Andi Kettenbach (Layout)
- Elli Palzer (Lithography)
- Claudia Vogel (Sales Administrator)

European Representatives

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

Bank Account

J.P. Morgan AG, Frankfurt
Account No.: 6161517443
Routing No.: 501 108 00
BIC: CHAS DE FX
IBAN: DE55501108006161517443

GIT SECURITY is published 4 times per year.

Subscription 2016

4 issues 53.00 €, single copy 15.70 € plus postage. Pupils and Students receive a discount of 50 % at sight of a valid certificate. Subscription orders valid until cancelled, notices 6 weeks before end of the year. Subscription orders can be revoked within 1 week in writing. Dispatch complaints are possible only within 4 weeks after publishing date.

The publishing house is granted the exclusive right, with regard to space, time and content to use the works/ editorial contributions in unchanged or edited form for any and all purposes any number of times itself, or to transfer the rights for the use of other organizations in which it holds partnership interests, as well as to third parties. This right of use relates to print as well as electronic media, including the Internet, as well as databases/ data carriers of any kind.

All names, symbols etc. mentioned and/or printed in this issue may be registered trademarks of their respective owners.

Print run: 20,000

Cover Page Layout

Elli Palzer · elke.palzer@wiley.com

Printed by

pva Druck und Mediendienstleistungen GmbH
D-76829 Landau/Pfalz

Printed in Germany

ISSN 2190-4367

Company Index

Aiphone	9, 11
Altronix	51
Apollo	63, 69, Inside Front Cover
Arecont Vision	57
Assa Abloy	35, 36, 50, Front Cover
Automatic System	17, 57, 65
Barco	8
Bosch	7, 35, 48, 49
Chief	24
Cognitec	11, 65
Dahua	8, 60, 69
Dallmeier	9, 52, 63
Digital Barriers	14
Euralarm	8
Eyevis	26, 32, 61
FAI	6
Flir	43, 58
Fujifilm	19, 32
Garrett Metal Detectors	57
Genetec	8, 15, 18, 46
Geutebruck	32, 37, 59
Gianni	27
Giesecke & Devrient	45
Hanwha Techwin	6, 10, 20, 43, 63
Hikvision	43
Ideagen	10
Idis	35
Kentec	69, 70
Linesense	69
Messe Essen	28
Messe Frankfurt	7, 27, 35
Milestone	22
Mobotix	32, 56
Morse Watchmans	44, 55
Moxa	8
Nedap	10
Nineteen Events	42
OnSSI	11
ONVIF	10, 12
Panasonic	69
Perimeter Protection	33, 62
PSM&W	16
Salto	41
SeeTec	32, 54, 65, Title Corner
Securit	9, 35
Siemens	8, 9, 25, 35, 66
Siklu	7
SimonsVoss	21, 32, 34, 37, 65
Sigura	49
STid	40, 49
Teleste	10
Tyco	6
Uhlmann & Zacher	3
Uniview	10
Vanderbilt	6, 43, Outside Back Cover
Veracity	6
Vicon	63
Videor	8
Wagner	64
Wego	32
Winkhaus	43



A new level of protection

INTRUSION DETECTION
ACCESS CONTROL
CCTV



VANDERBILT

You can count on the largest global independent security manufacturer to offer full protection whenever you need it. Know that you are in safe hands with our 30 years' experience, innovative and reliable products and complete technical and commercial support.

By working with an independent business you will benefit from a team who responds quickly and flexibly, whatever situation we face.

www.vanderbiltindustries.com



Hall 3, Stand B33



@Vanderbilt_Sec



Vanderbilt International