

WILEY

VOLUME 15
JUNE
2018

2

79 824

GIT

MAGAZINE FOR SAFETY AND SECURITY

SECURITY
EMEA

EMEA

HID

Four things you need to know about
GDPR and HID Mobile Access – see page 63



Security for Airports

Fire Detection

Video Surveillance

IFSEC 2018

Corporate Security

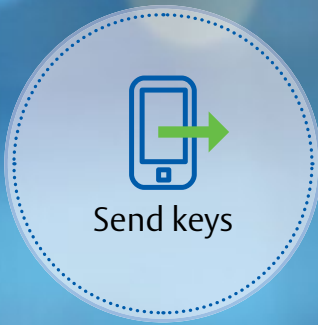
Storage Special

**COVER: MOBOTIX
BEYOND HUMAN VISION**



WILEY

Openow™: the smartest mobile solution for access control!



The SMARTair® App to open doors that offers flexibility, confort and security to every business.



Visit: www.tesa.es/discoverwireless



ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions



Information is the Basis of Innovation

When you work for a scientific publisher like Wiley it is within your DNA to assume that research work and spreading the news about research results and innovation is the answer to most business challenges.

So maybe it is confirmation bias, the tendency to search for and interpret information in a way that confirms preexisting beliefs, when I was happy to read the answers from Michael Schmidt, Head of Group Security and Chief Security Officer at Volkswagen, to our questions. In the interview on page 16, he was asked how important the knowledge about technologies like perimeter protection and video surveillance are for him. He told us that they are extremely important. From his point of view, the knowledge and the information about innovative products and technologies are nothing less than the foundation of modern building security. Modern plant security must be based on all relevant innovations and for this reason, Volkswagen's security staff reviews publications and trade fairs while also working with research teams.

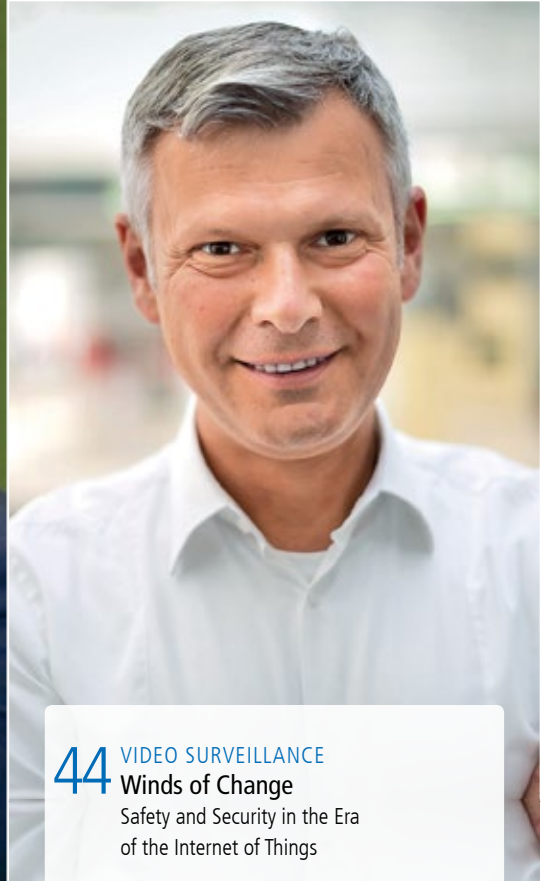
We see it as our goal to inform our readers not only on technology and product innovation but also about the background of the companies that act in our industry. In two interviews with industry leaders Arecont and Mobotix we explain their new strategies and provide you with information you may want to consider in your buying decision.

I think reading this issue of GIT SECURITY is a convenient way to get relevant information and visiting the upcoming trade fairs like IFSEC and Security Essen is another option you have. On page 14 you can see what IFSEC and Firex have to offer and if you attend the shows please make sure to visit our stand G502 in London.

We do support product innovation also in another way, the GIT SECURITY AWARD. The award is going into the next round now. If you have a look at the great selection of products our jury has chosen for you on page 20 following, you will recognize that it is a tough decision to choose one product in each category. The voting tool is ready on www.security-award.com so please take some time and make your choice. You can vote until August, 24th, you have one vote per category and by voting, you automatically take part in the prize draw to win an SLR camera.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team



42 COVER STORY
Beyond Human Vision
 Mobotix Opens Up for Partnership
 and Gets Fit for the Future

16 CORPORATE SECURITY
"Be Prepared"
 A Conversation with Michael Schmidt, Head
 of Corporate Security at Volkswagen Group

44 VIDEO SURVEILLANCE
Winds of Change
 Safety and Security in the Era
 of the Internet of Things

MANAGEMENT

FIRE PROTECTION

SECURITY

14 EVENT
News from London East End
 Ifsec International 2018 Show Preview

16 CORPORATE SECURITY
"Be Prepared"
 A Conversation with Michael Schmidt, Head
 of Corporate Security at Volkswagen Group

36 FIRE DETECTION
High Variety
 Complex Fire Detection Technology at the
 Chedi Andermatt Luxury Hotel

38 On Air
 Taking Fire Protection to the Next Level at
 Slovenia's Public Broadcast Institution

40 Pianissimo
 Wagner's Air Sampling Smoke Detectors
 Disappear into the Ceiling

42 COVER STORY
Beyond Human Vision
 Mobotix Opens Up for Partnership
 and Gets Fit for the Future

44 VIDEO SURVEILLANCE
Winds of Change
 Safety and Security in the Era of the Internet
 of Things

48 NEW SHORES
GIT SECURITY's
Interview with Arecont
 Vision on their Portfolio Shift

50 SECURITY FOR BANKING
Bank Robbing – A Dying Profession
 Hikvision's Security Solutions for the
 Banking Sector

54 PERIMETER PROTECTION
The Ins and Outs of Airport
Access Control
 Security Solutions for Airport Traffic
 Analyzed by PPG

56 SPECIAL FOCUS AIRPORTS
Airport Check
 A Collection of Airport Security Solutions



20 GIT SECURITY AWARD
 The Finalists Are Chosen



48 **New Shores**
GIT SECURITY's Interview with Arecont
Vision on their Portfolio Shift

58 **ACCESS CONTROL**
Keys or Access Control?
Why Not Both?

Combining the Advantages of
Mechanical and Electronic Keys and
Locks into One System

60 **Not Only Cool**
Mobile Keys and Mobile Technology Add
Value to Access Control

62 **Pin It!**
The Access Control System Manufacturer
SimonsVoss Has Extended its 'Baby' System

63 **GDPR**
Walk the Walk
Four Things You Need to Know about
GDPR and HID Mobile Access

SPECIAL SECTION STORAGE

64 **Basics of Storage**
DVRs, NVRs and Cloud Storage
Explained by GIT SECURITY

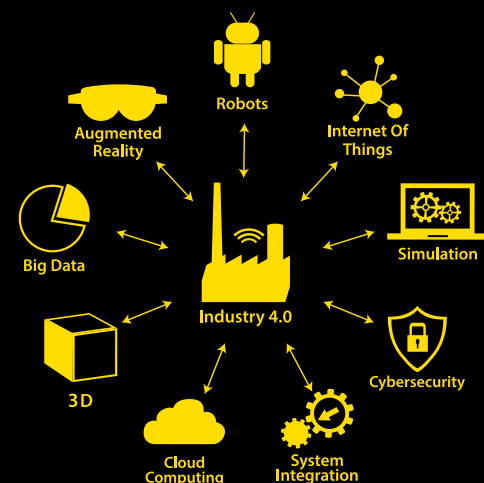
66 **Data Boom**
Growing Data Sources and the boom
of the surveillance industry

SECTIONS

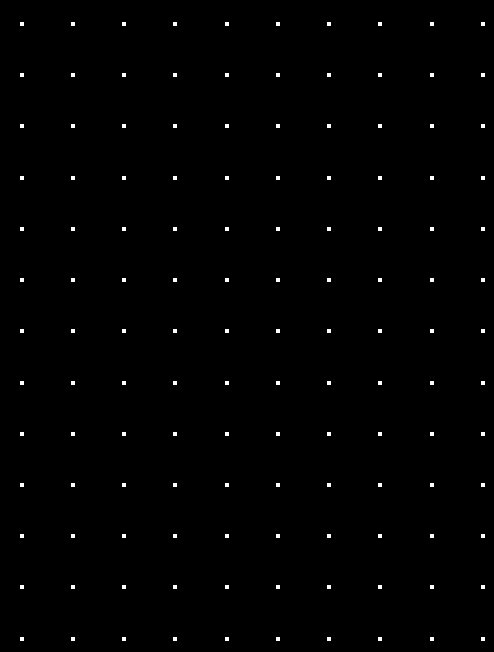
- 06** News
- 39** Fire Protection Products
- 47, 53, 65, 68**
Security Products
- 71** BusinessPartner
- 74** Company Index / Imprint
- 75** Off the Record

GEUTEBRÜCK

Not connected to the IoT?
Please wait a moment –
Geutebrück is happy to
connect you!



More than
150 interfaces
available



Security Essen 2018 Focuses on Digitalization and Networking



This year's edition of the global fair for civil security will focus on innovative, digital subjects more strongly than ever before. The Advisory Board for Security Essen was recently able to see confirmation of this as the fair management presented the realignment of the fair, the renting level and the comprehensive supporting program to them. The unanimous tenor: the experts – including managing directors of renowned companies in the security sector as well as associations – see Security Essen 2018 as being optimally positioned. Due to advancing digitalization, cyber crime is regarded as one of the greatest dangers in the 21st century – opportunities to transfer knowledge and to exchange experience are becoming all the more important. Security Essen from September 25 to 28 will take place in the modernized halls at Messe Essen for the first time and this has made a complete restructuring of the fair possible. The event will be divided into six subject areas, giving optimum orientation for exhibitors and placing of trade visitors. „Because the Cyber Security and Economic Security areas are becoming ever stronger, we have deliberately decided to give them their own hall in a prominent place at the East entrance to the fair site,” said Oliver P. Kuhrt, CEO of Messe Essen.



The refocusing will be accompanied by a new, attention-grabbing supporting program. For example, the Federal Office for Information Security and the Federal Association for Security Technology will stage the Cyber Security Conference, which will be tailored to users and be convenient and quick to reach within the fair. And the Discussion Circle on Internal Security will take place with participants from the police, sciences, judiciary and politics, as well as from local authorities and the security industry. Some exhibitors will also design a large special show area in Hall 8 entitled „The Public Security Forum” in which live scenarios for the protection of public spaces will be shown. The realignment is proving Security Essen right: the booking rate is already above the high level of the preceding event. The Fair Advisory Board showed that it was very satisfied with this development. Norbert Schaaf, Chairman of the Advisory Board and simultaneously also the Chairman of the Board of BHE Federal Association for Security Technology commented: „We are expressly supporting the new positioning of Security Essen. The strict hall allocation, the stronger alignment to future subjects and the sector-specific supporting program will make the fair the meeting place for decision takers from all fields of security in 2018.” This realignment is also reflected in the line-up of the Fair Advisory Board itself. For the first time in its history, Security Essen has appointed not only representatives of associations but also entrepreneurs to this body. „In this way, we are moving much closer to the industry. It is important to us to constantly be in close and direct dialogue and thus be able to accommodate the wishes of our exhibitors and visitors even better and quicker,” said Oliver P. Kuhrt, CEO of Messe Essen.

www.messe-essen.de

Cyoss Acquires Majority Stake in Radarservices



CYOSS, an ESG Group Company, has acquired a majority stake in the cyber security company Radarservices, and ESG thus continues its course of growth and expansion. The alliance between the two companies brings together Germany's specialist for data analytics, IT and OT security with a European technology company in the field of cyber risk detection and response. With locations in Europe, USA, Middle East, Asia and Australia, the two companies provide customers in 170 countries with an integrated portfolio comprising consulting, testing, detection and response as well as training in cyber security and integrated big data services. 617 petabytes of data, 74 trillion events and 917 million vulnerability items are analyzed and an average of 2.9 million incidents are identified in Europe's largest cyber defense center in Vienna. The Cyber Simulation and Training Center in Munich uses realistic simulations of cyber attacks on an IT infrastructure to train IT security experts. Special courses for employees and managers increase awareness for IT security risks. A holistic approach, in-house developed technology and comprehensive portfolio protect the values of the European economy and society. The previous majority shareholders and founders of Radarservices continue to be responsible for the company's successful development.

www.radarservices.com

Evva Strengthens its Digital Services Division

Executive Vice President / CDO of the new Digital Services Division of Evva Sicherheitstechnologie is Gunther Glawar. He says, „I am very pleased to help progress the Digital-Offensive of an almost 100 year old and successful traditional family firm. Digitalization, and especially in the field of security technology, offers many opportunities. The main focus of my work will be to develop these opportunities further for our customers, but also to continue to optimize company-internal company processes through Digital Services.”

www.evva.com



Konica Minolta Allocates Initial € 1.5 Million to Technology Development by Mobotix

Mobotix and Konica Minolta have entered into a technology development agreement in which Mobotix's hardware and software technologies will be further developed with a view to creating innovative solutions for applications in areas such as smart cities, healthcare, process optimization and other sectors. Under the agreement, Konica Minolta will allocate an initial amount of 1.5 million Euro to Mobotix's technology development. In the context of a distribution partnership, Konica Minolta has already deployed Mobotix cameras in Japan, China and France at production facilities, distribution centers and in vehicles for security and surveillance, production process monitoring and other applications. Konica Minolta has also assigned significant sales staff to focus on promoting the use of Mobotix technology through end-customers and channel partners.

www.mobotix.com

Dahua Academy to be Launched in DACH Region

Dahua Technology, a video surveillance solution provider, established Dahua Academy to provide localized services as well as relevant knowledge and skills to partners and clients globally. This has been functioning well in numerous countries on different continents. Now DACH (Germany, Austria and Switzerland) is expecting to have its own Dahua Academy in May 2018. The training program run by Dahua Academy, covering theoretical knowledge and practical operation, has three major objectives: firstly it enables trainees to learn of the full range of Dahua products and to select products according to requirements; secondly, it informs about general solutions in the industry and provides the basic ability to design solutions for different needs; thirdly, it helps to master basic abilities to install, debug and operate the full range of Dahua products. www.dahuasecurity.com



Moxa Joins Civil Infrastructure Platform Project

The Civil Infrastructure Platform (CIP) project, which aims to provide a base layer of industrial grade open source software components, tools and methods to enable long-term management of critical systems, today announced that Moxa has joined as a Silver Member. The move helps Moxa, an edge-to-cloud connectivity solution provider to strengthen its commitment to building smarter factories and cities on an inter-operable open source platform that is secure, reliable and sustainable. Urs Gleim, CIP Governing Board Chair, said „Moxa brings extensive experience in industrial innovation that will be a welcome addition to the CIP members as we work together to create a better future of our communities.“ www.cip-project.org

High Quality Fire Detection at FIREX

Apollo Fire Detectors will be showcasing its latest products at FIREX on stand A325. Apollo will be demonstrating its latest addition to the Soteria range – Soteria Dimension, a chamberless, flush-fitting optical detector that combines functionality and style. Designed to fit perfectly in locations with the most demanding aesthetic needs, SOTERIA Dimension uses new optical sensing technology in a ‘virtual sensing chamber’. The new device is also available in two variants, the standard and Soteria Dimension Specialist. The Specialist detector encompasses all the technology seen within the standard device, but also features an anti-ligature metal faceplate and tamper-resistant screws. It has been tested and approved for anti-ligature certification to TS001 and meets the requirements of the UK Ministry of Justice specification STD/E/SPEC/038. The result is a detector with greater resilience against interference or damage, and is therefore suitable for use in high-risk areas, such as prisons, custodial suites and healthcare establishments. www.apollo-fire.co.uk

Technology Alliance of Pelco and IBM

Pelco by Schneider Electric announced a technology alliance with IBM to create “Pelco Analytics Powered by IBM.” The collaboration seamlessly integrates IBM’s deep learning analytics into Pelco’s video management system (VMS), leveraging data from video footage to quickly identify and respond to potential risks or opportunities. The analytics can quickly analyze huge volumes of archived video to identify people and objects of interest, dramatically decreasing the time needed for video forensic analyses. In addition, the solution identifies patterns of movement and behavior that help cities and enterprises mitigate risk and lower operational costs through improved processes and better policy enforcement. www.pelco.com

www.GIT-SECURITY.com

Access control, on-the-go and in real-time

IFSEC
INTERNATIONAL
19-21 JUNE 2018
EXCEL LONDON UK

BOOTH
G100

SALTO \ KS

Keys as a Service

Stop replacing locks

Control who goes where and when

Send keys directly to smartphone users

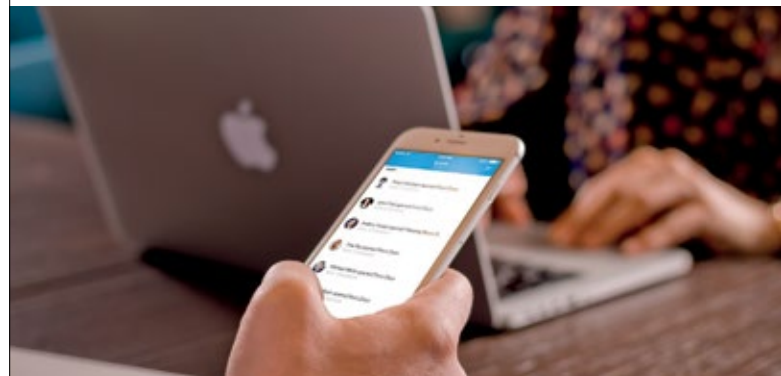
Open doors remotely

Gain activity insights

Incorporating SALTO's proven reliability and stability in cloud-based access control, SALTO KS - Keys as a Service - 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

SALTO SYSTEMS: Arkotz 9, Polígono Lanbarren 20180 Oiarzun - Spain
www.saltosystems.com

Hikvision 2017 Annual Report

Hikvision has published its annual report for 2017. This shows a 31.22 percent growth in overall revenues, with sales revenue up from RMB 31.93 billion in 2016 to RMB 41.91 billion in 2017. Collectively, the figures demonstrate an increase in operating profits of 26.77 percent. Hikvision was able to achieve these impressive financial results due to a number of factors. These include optimized R&D systems and processes, development of solutions for vertical industry sectors, and customization of solutions in line with changing market needs. Improved product delivery capabilities and strengthened sales and service networks have also contributed to the company's success in 2017. In addition to major investments in R&D, Hikvision is setting up a three-layered service system, with a global customer service center, regional customer service departments in branch offices, and authorized Hikvision customer service stations. www.hikvision.com



Avigilon Launches UK Demo and Training Facility

Avigilon recently announced the opening of its new demonstration and training facility in Windsor, Berkshire to support end users and integrators. Located just steps from the historic Windsor Castle and River Thames, the new facility will provide world-class resources and hands-on support for those in the region, including live demos of Avigilon's latest products, solutions and technologies and the benefits they offer to installers and end-users. Additionally, from this UK-based facility, participants will have access to other demo sites across Avigilon's global network. "We're excited to officially open our new UK demonstration and training facility here in Windsor," said Paul Such, Vice President, EMEA. "Continual training is a key focus for Avigilon and we're proud to provide our UK-based partners with a new, state-of-the-art training facility where they can receive the tools and interactive support they need to ensure their success." www.avigilon.com

ASIS Europe 2018 Review

ASIS International is receiving positive feedback from participants at ASIS Europe 2018 – From Risk to Resilience, which took place on 18–20 April in Rotterdam, The Netherlands. The event attracted 775 registrants from 52 countries. Attendees spanned the full range of established and aspiring security leaders, from the Chief Security Officers of global tech giants, CISOs and Regional Security Directors, a variety of security, risk management and investigations specialists, through to early career professionals and security management students at local universities. As well as expert presentations and panels, presentation formats included roundtable workshops and interactive sessions with live polling to enhance the learning experience. Throughout the event, attendees navigated a broad sweep of risks – from the malicious use of the latest emerging technologies to the dangers of low tech attacks, particularly on soft targets in public spaces. Other topics explored included the human factor and the insider threat, and ever-present responsibilities like travel risk management and duty of care. On the exhibit floor, innovations ranged from the latest integrated access control and surveillance technology, to self-learning cyber defenses, and mass communications platforms. Knowledge driven solutions were also strongly represented, from intelligence and risk analysis, to executive protection, and workforce training programmes. www.securityexpo.asisonline.org



Data Technology Building Blocks

The contactless and non-contact OEM read and read/write components from phg are used by many established system integrators in the identification technology, access control, time registration and BDE sectors, amongst others. As standard products in the data technology sector often do not correspond to special customer needs, phg made it its objective to develop and implement special solutions in close collaboration with customers. The development and production know-how and high vertical integration is advantageous because the company is able to provide variety from one source. This means that all marketable RFID systems are immediately available and development time and development costs can be saved while design variations, different colors and various interfaces with the right connection technology can still be incorporated. www.phg.de

Arktis Opens UK Office as Requirement for Nuclear Detection Grows

Nuclear radiation detection specialist Arktis Radiation Detectors has expanded its worldwide network by opening a new office in the UK at Tewkesbury, Gloucestershire. The office will build upon existing locations in Europe and the US and reflects the growing market for Arktis' next generation, plug and play detection systems that detect and identify radioactive and nuclear materials. The company has been regularly funded by the most renowned advanced research and development agencies worldwide, such as the US Defense Advanced Research Projects Agency (DARPA). Arktis will make increasing base of the UK supply chain, providing new opportunities for UK firms to build upon their nuclear detection business. In addition, Arktis has joined the Aerospace, Defence, Security and Space industry body (ADS), where it plans to contribute to the organisation's CBRN Special Interest Group, and is in discussions to extend and form new links with UK academia. Its systems are particularly suited to airports, maritime ports and areas of high population density and can be used in static and mobile mode to detect nuclear materials. Arktis' systems already have applications in the seaport and airport environment and are under trial to fill a potential requirement at major transport hubs throughout the US. www.arktis-detectors.com



Double Award Success for Idis Camera Technology

Idis's H.265 IR PTZ surveillance camera has achieved the rare distinction of winning two of Germany's top international design accolades. The innovative camera has scooped both a 2018 international iF Design Award and the Red Dot 'seal of quality' Award. The annual iF Design Awards is a globally-recognised prize, which this year attracted 6402 entries from 54 countries. Idis's double winning entry, the H.265 IR DC-S3883HRX model, provides clearer images using an 8MP Auto Focus lens and is equipped with high-powered IR LED for motion detection and image analysis of objects at up to 200 meters at night. With its sleek, ergonomic construction the camera's horizontally placed lens and IR are designed to reduce camera height and prevent diffuse reflection during tilt moving. This design feature improves usability with notably smooth movement of the lens head. Idis's winning network PTZ also features a 31x AF optical zoom lens (f=6.5 - 202mm) delivering 4K UHD (3840 x 2160) resolution, as well as two-way audio, built-in heater and PoE. In addition, it incorporates Idis Intelligent Codec and MAT (motion adaptive transmission) technology, which delivers savings of up to 90 percent on storage and bandwidth, depending on the scene and resolution. www.idisglobal.com

SeeTec Opens Sales Office in Italy

Founded in 1996 and employing more than 100 people in many European countries, SeeTec has now opened a sales office for Italy in Milan. Andreas Beerbaum, Managing Director, underlines the importance of the Italian market for the company: „Italy is one of the leading economies in Europe and therefore has an enormous potential for growth. We have generated a growing demand for our solutions over the past few years, resulting in a solid project base in the country, which legitimates the foundation of a local office.“ Luigi Portaluri, Country Manager Italy, sheds a light on the strategy for the Italian market: „As in other countries, we are cooperating closely with local distribution partners and integrators. Our portfolio extends beyond the scope of traditional security solutions, supporting customers’ business processes with video technology and providing added value.“



www.seetec-video.com

Motorola Solutions Completes Acquisition of Avigilon

Avigilon announced that Motorola Solutions has completed the previously announced acquisition of all issued and outstanding common shares of Avigilon. Motorola Solutions through its wholly owned subsidiary, Motorola Solutions Canada Holdings Inc., acquired 44,617,813 Avigilon shares for cash consideration of CAD\$27.00 per share. This, together with net debt, represents a total enterprise value of approximately USD\$1.0 billion. The Avigilon shares are expected to be delisted from the Toronto Stock Exchange effective as of the close of trading on or about April 2, 2018, and Avigilon will apply to cease to be a reporting issuer in all provinces of Canada. www.avigilon.com

Public Address and Emergency Voice Evacuation System for Helsinki Metro

The Helsinki Metro is the major transit hub in Finland’s largest metropolitan region and the world’s northernmost metro system. Every year, 63 million passengers rely on the safe and efficient Helsinki Regional Transport Authority (HSL) rail system. Since November 2017, the Helsinki Metro reaches even further. A massive expansion project, the Länsimetro (“Western Metro”) extension, has added 14 kilometers of track and eight brand-new metro stops reaching all the way to the town of Espoo. When it came to adding public address and emergency voice evacuation on such a massive scale, Helsinki Metro chose the world’s first fully digital system: Bosch Praesideo. Known for its scalability, high level of redundancy, interference-free audio, and operational versatility, Praesideo is installed in more than 20,000 applications worldwide; including the pre-existing Helsinki Metro network. With its unique optical network, Praesideo proved the perfect solution to extend the system and integrate the Länsimetros 5,580 new loudspeakers, which are installed in twelve colors and 14 different speaker designs to match the state-of-the-art interior aesthetic. Because every one of the eight new metro stations features a unique architectural design and different building materials, it took extra measures to ensure uniform audio quality. Construction is already underway for Stage 2 of Länsimetro to add seven kilometers of new track and full-circle passenger security powered by Bosch Praesideo by the year 2020.



www.boschsecurity.com

Get the best performance and value for key and asset management.

Our KeyWatcher and RFID-powered AssetWatcher systems are packed with features and capabilities, expertly engineered to protect, control and track your keys and assets.

It’s more of our outside-the-box thinking – that you’ll find right inside the box.

To learn more visit morsewatchmans.com


**MORSE
WATCHMANS**
think inside the box.



Product door not shown in image. Fingerprint reader optional.

Intersec Saudi Arabia 2018



Intersec Saudi Arabia is organised by Messe Frankfurt Middle East in partnership with Saudi-based and ACE Group, and is officially backed by the Saudi Ministry of Health and the Saudi Safety & Security Department. The annual showcase also featured a three-day security and fire safety conference programme, bringing together key stakeholders, regulators, government authorities, solution providers and end-users to discuss strategies and collaborative approaches for the Kingdom's security, safety and fire protection industries. Ahmed Pauwels, CEO of Messe Frankfurt Middle East, said prior to the event: "The launch edition of Intersec Saudi Arabia in 2017 was an unprecedented success, and we're expecting a similar response from exhibitors and trade visitors alike for this second edition. With more than 170 exhibitors from 25 countries, and an expected turnout of 6,000-plus visitors, Intersec Saudi Arabia 2018 will once again be at the forefront of the latest technologies and solutions dedicated to meet the demand of the Middle East's largest security, safety, and fire protection market." Intersec Saudi Arabia 2018 covers the key product groups of Commercial Security, Information Security, Perimeter & Physical Security, Homeland Security & Policing, Fire & Rescue, and Safety & Health. The annual three-day event is one of nine 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, UAE. The 2nd edition of Intersec Saudi Arabia took place from 24-26 April 2018 at the Jeddah Center for Forums & Events.

www.intersec-ksa.com

Wavestore appoints Regional Sales Manager for North UK & Ireland

Wavestore, has further strengthened its sales team with the appointment of Neil Gardner as Regional Sales Manager for the North UK and Ireland. Reporting to Simon Shawley, Wavestore's Sales Director, Neil will provide local support for distribution partners and system integrator partners by helping them to capitalise on the increased demand for the company's open platform Linux based VMS. Neil has worked within the electronic security industry since 2005 and was previously Regional Sales Manager for Avigilon. "The appointment of Neil reflects our commitment to provide professional, field-based sales support throughout North UK and Ireland," said Simon Shawley. "Neil's sales and technical expertise will certainly be put to good use as part of our efforts to provide system integrators with a competitive edge and help them win new projects whenever a future proof and easy to implement VMS solution is required."



www.wavestore.com

Dahua Technology 2017 Annual Report

Dahua Technology has just released its 2017 annual report, which reports substantial growth in the past year as well as a promising outlook. According to this report, Dahua's revenues reached RMB 18.84 billion in 2017, indicating a year-on-year growth of 41.38 percent. Meanwhile, the net profit attributable to shareholders of the company amounted to RMB 2.37 billion, indicating a year-on-year growth of 30.33 percent. "We have plenty of reasons to believe in an even brighter future," Mr. Fu Liquan, Chairman of Dahua, said, "Indeed, the overall economic environment is turning better. The market is getting more diversified, calling for better tailored and smarter solutions, through which I believe Dahua's core competency will be further highlighted." Dahua's many security products and solutions powered by big data, AI and IoT, such as smart city, intelligent building, machine vision, industrial drones and newly launched Lechange products, will bring new business opportunities to the company as well as greater benefits to customers.

www.dahuasecurity.com

Hochiki Europe Protects Students from False Alarms

For many students, the prospect of moving away from home and living alone for the first time can be daunting. Thanks to Hochiki Europe and NSC Sicherheitstechnik, students living at two sophisticated accommodation developments in Germany have one less thing to worry about when it comes to fire safety.



The new developments are eight stories high and capable of accommodating 239 residents at each location. Both named The Flag, they provide a flexible, smart city living space for students in Frankfurt and Munich, and feature premium fire detection and alarm equipment supplied by Hochiki Europe. One challenge that arose when specifying the life safety solutions for The Flag was the complexity of the sites. The nature of the buildings called for compliance with European EN standards including EN 54 Fire Detection and Fire Alarm Systems. It was also imperative that products selected offered optimum reliability to safeguard the well-being of occupants and limit the risk of false alarms. As well as being reliable, the products had to help keep running costs down across the sites, without compromising quality. Using products that offer enhanced energy efficiency credentials was therefore essential. To address these challenges, Hochiki Europe's German-based systems partner, NSC Sicherheitstechnik, worked with building owners to identify and provide a range of life safety solutions for the two sites. This included a Solution F1 18 loop fire alarm system with 800 multi-sensor detectors, which incorporate both smoke and thermal elements, and 925 base sounders.

www.hochikieurope.com

Kidde Engineered Systems Debuts New Life Safety Solutions

The mass notification and life safety solutions provider Kidde Engineered Systems exhibited recently at the ISC West Conference in Las Vegas, Nevada. The company introduced its new FX Series, VM Series and VS Series panels. The FX Series features both conventional and intelligent models for small to mid-sized buildings. The VM and VS Series are ideal for mid-to large-sized buildings and both platforms offer high performance and flexibility for installation. These solutions are key components to strengthen communications and emergency plans. In addition, the fire panels are designed to work with existing platforms to enhance the overall life safety requirement for any building structure.

www.kidde.com

TROVE™

ACCESS & POWER INTEGRATION

by



Altronix®



TROVE®
SAVES TIME & LABOR
...MAXIMIZING PROFITS

- Easily combine Altronix® power and accessories with access controllers from the industry's leading manufacturers
- Trove enclosures with removable backplanes allow you to configure, layout and test prior to on-site installation
- Efficient, scalable designs for optimum performance and seamless integration
- Pre-assembled kits available in various configurations further reduce overall costs

Security for Ultra-Modern Suzhou Center



The venerable city of Suzhou, just west of Shanghai, is famed as a Venice of the Far East, with canals, bridges, formal gardens and classical architecture. But in keeping with its modern, bustling population of nearly 11 million, the city has added some avant-garde. One of the newest showpieces is the ultra-modern Suzhou Center, a 1.1 million square meters waterfront complex of shopping malls, office buildings, residential towers and a sumptuous hotel. The Center, opened in November 2017, ambitiously aims to become one of China's top international business hubs. How fitting, then, that the Center's security system is also avant-garde. It comes from Bosch, and it provides video surveillance, intrusion alarm, access control and public address systems. Over 3,200 Bosch HD cameras secure every aspect of Suzhou Center, covering the full range of operational security needs from surveillance to tracking. High-level surveillance is ensured through fixed Dinion and Flexdome IP cameras as well as Autodome IP pan, tilt and zoom (PTZ) cameras. If an object is detected, the camera's Intelligent Tracking feature is triggered based on a predefined alarm rule or manually by a simple click. Eight Bosch Video Management Systems (BVMS) integrate all 3,200 Flexidome, Dinion and Autodome IP cameras for central management by the main control center. Intrusion detection is managed by seven DS7400 Intrusion Panels that have over 200 sensors. Each of these can be programmed for up to eight areas and are programmable by local keypad or remotely. Access control is handled by two installations of Bosch's Access Professional Edition (APE). APE controls doors, making sure only authorized personnel can enter restricted areas. It also exchanges information regarding door control and door status with the other security systems. For public address and evacuation instruction, Bosch has supplied a Praesideo system with over 5,000 ceiling and cabinet speakers that are broken into over 80 zones and managed from two control centers. Thanks to its superb sound quality, the Praesideo system also provides background music in the public areas of the Suzhou Center. www.boschsecurity.com

Siklu Partners with Genetec

Siklu announced that it has signed a Technology Partnership Agreement with Genetec. This arrangement will greatly expand both companies' reach to security integrators and cities globally. The technology integration between these solutions ensures the information received from video surveillance cameras, and transported on Siklu's mmWave radios, support a clear, jitter-free video stream. The purpose of the agreement is to offer a complete best-of-breed solution for integrated security applications – a combination that has proven success in the past by the two companies in a number of video surveillance projects, including the City of New York; Wichita, Kansas; Bethlehem, Pennsylvania; and the Super Bowl LIVE event in Houston, Texas. Solutions supported in the partnership include Siklu's mmWave line of 60, 70/80 GHz radios, which are considered to be the leading enterprise wireless solution for security networks, especially when fiber is not an option. The combined technologies will enable cities and system integrators to connect as many HD or 4K surveillance cameras as needed to the Genetec security management system. www.genetec.com / www.siklu.com

Hanwha Teams up with Robe Lighting

Robe Lighting has teamed up video surveillance experts Hanwha Techwin to offer a 'Smart Light' solution for stage performance and TV studio applications. Robe Lighting employs over 600 people at its manufacturing facility in the Czech Republic and more than 100 people at its subsidiaries around the World. Its lighting solutions, which are exported via a worldwide distributor network, are used in concert halls, theatres and clubs, as well as at open area events in over 100 countries. "Our BMFL FollowSpot is already extremely popular with directors, DJs and lighting engineers as it produces an astounding 250,000 lux at 5 metres and has a wide range zoom of 5° to 45° with precise focusing to ensure performers are always well lit," said Pavel Nmec, Global Marketing Manager for Robe Lighting. "With the option to mount an integrated Wisenet SNZ-6320 camera manufactured by Hanwha Techwin onto the head of the BMFL FollowSpot, operators are now able to take advantage of our Smart Light solution to view live or review recorded high definition images of exactly what the light is focused on."



www.hanwha-security.eu

Milestone Systems appoints new Vice President for EMEA

Milestone Systems announces its new Vice President for EMEA, Malou Moustén Dyhr Toft, who also becomes member of Milestone Systems' Extended Leadership Team. She will be responsible for the whole EMEA region, the EMEA sales operation, the EMEA Custom Development and Support and will focus on further strengthening the EMEA partner community of distributors, installers, solutions partners and camera manufacturers. "I'm very excited to join Milestone Systems and I look forward to being part of this forward-looking and innovative company. The concept of openness and community is a profound part of Milestone Systems' DNA and is undoubtedly one of the reasons why we will be leading the disruption that will change the security industry in the years to come," Malou Moustén Dyhr Toft says.



www.milestonesys.com

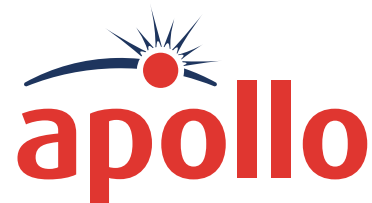
Johnson Controls Acquires Smartvue

Johnson Controls has announced that it has acquired Smartvue, an IoT and video provider which empowers cloud video surveillance and IoT video services. The addition of the Smartvue cloud-based video platform will enhance Johnson Controls' offering of an end-to-end, smart cloud-based solution that can provide superior business data and intelligence to customers and added value to partners. Nashville-based Smartvue's global video surveillance and IoT video cloud platform is supported today in 140 countries and serves customers such as telcos, cable companies, security firms, storage providers, device manufacturers, and other organizations. The platform supports IoT technologies that enable secure video on almost any device to connect with a robust global cloud, accessed through an intuitive interface. Smartvue boasts an intellectual property portfolio, including more than 800 granted utility patent claims from its nearly 20-year history.



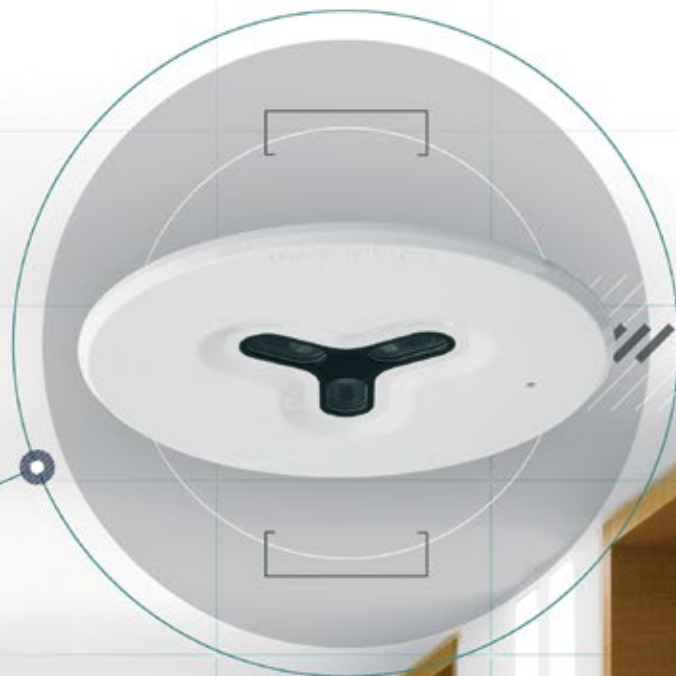
www.johnsoncontrols.com

SOTERIA[®] DIMENSION



DETECTION > REFINED

A UNIQUE, FLUSH-FITTING OPTICAL SMOKE DETECTOR DESIGNED FOR AESTHETICALLY DEMANDING AND HIGH-RISK ENVIRONMENTS.



Visit us at

FIREX
INTERNATIONAL

19-21 JUNE 2018
EXCEL LONDON UK

Stand
A325

www.apollo-fire.co.uk



LONDON

EVENT

News from London East End

IFSEC International 2018 Show Preview

Security is the world's most critical challenge and IFSEC International is here to drive global safety. It is here to innovate, inspire and transform professionals, products and places. The global security landscape has shifted. 2017 saw attacks take on new shapes, become more insidious and more intrusive. In order to keep pace with these ever-evolving threats, Ifsec is evolving too – with a change directed by IFSEC's customers. The show takes place from 19th – 21st June 2018 at ExCeL London.

2018 marks the beginning of Ifsec's evolution, with three carefully curated days designed to give answers to the security questions keeping the industry up at night. Ifsec's unparalleled seminar programme is a testament to this.

Ifsec Keynote Arena

New to 2018 and in partnership with City Forum and London First, the Ifsec Keynote Arena will welcome leading security strategists from government, academia and industry to drive and reflect on topics around 'Securing The Open Society of 2030'. By taking a pivotal role in leadership and attracting a world-class calibre of speakers, this feature sets a new standard for security events around the world.

The brand new Keynote Arena will also connect visitors to inspirational global learnings from industry pioneers, including Christian Horner, Team Principal of Aston Martin Red Bull Racing and Frank Gardner, the only British journalist permanently assigned to cover the 'War on Terror' as they tackle today's biggest security questions across CCTV, cyber criminality and emerging threats.

Connecting Physical Security and IT

Also new to 2018: The Converged Security Centre, brought to you by Vidsys, which complements the

show's focus on the convergence between physical security and IT, striving to help understand the role as an installer, integrator and end user. Powered by the pioneering architects of Converged Security and Information Management, this will feature a range of simulations and case studies detailing the capabilities of a fully converged security system.

Ifsec is evolving and is designed to deliver the message that security is critical in today's society. Security professionals around the world are asking to be shown their way around the future of integrated security, and Ifsec 2018 has been built around this request. Following extensive research, Ifsec's focus is expanding to encompass the growing convergence between physical and cyber security.

Attack Testing and Drone Zone

The Borders and Infrastructure Expo is home to the heart of dedicated areas: The Future of Security Theatre, the Drone Zone, the BRE Global/LPCB Attack Testing Zone. Collectively, Borders & Infrastructure Expo focuses on products, solutions and learnings for large scale security issues faced by border control, critical national infrastructure, transport, healthcare and key strategic assets. Watch expert technicians from LPCB/BRE put perimeter and protection solutions to the test in a series of real-life attacks, live on the Ifsec show floor. Witness LPCB accredited fencing, shutters,

doors and covers tested against non-certified alternatives and see how they fair. Back for its third year, the Drone Zone is larger than ever before. Exhibitors with drone and anti-drone technology will be once again brought into a dedicated area of Ifsec to showcase their high-quality UAV products. It is a unique chance to see the live application of UAVs and better understand how they can help you protect your business and play a critical part of contemporary security management.

'Show me How' Demonstrations

In response to the pleas of the global security industry, Ifsec 2018 will show how to install the latest kit, show you what it does and show you what it takes to maintain it. Ifsec will show how everybody can take advantage of emerging opportunities and which vendors to trust. A vital part of this is the 'Show me how' demonstrations: Whenever a designated technician or enabler is wearing a Show Me How badge, visitors can expect a detailed explanation of a product. Ifsec will bridge the knowledge gap, and take the lead on demonstrating the latest technology. Make real-world sense of products through hands-on demonstrations.

The Global Security Conversation

Ifsec International is also introducing the Government Pavilion, new for 2018. The Government

Pavilion adds further momentum to the show's mission to host the global security conversation. In connecting the wider security industry to governmental bodies in such a way, Ifsec acts as the vessel of communication, driving and reflecting on critical industry movements whilst providing leading bodies with the platform they need to share their expertise and answer the questions security professionals have about the changing security landscape.

Education and Seminars

The Ifsec International security seminar and conference programme has been drastically revamped for 2018. As a direct result of their extensive customer insight, Ifsec have designed the education programme to fully reflect the requirements and anxieties of the audience.

City Forum and London First will also co-host security summits and masterclasses at Ifsec 2018. To secure a place at one of the security summits visitors will need to book their ticket in advance. With a catalogue of world-class speakers, the two half-day security summits add further authoritative impetus to Europe's largest annual security trade show.

Introduced to give security strategists a focused opportunity to hear and debate a formidable range of subjects, the half day summits take place on Wednesday 20th June and Thursday 21st June in the gallery suites between 9:45am to

1:00pm, away from the exhibition floor and will focus on the following key themes:

- Wednesday 20th June 2018: Thinking through the impacts of the Fourth Industrial Revolution – humans, machines and data
- Thursday 21st of June 2018: Smart safe cities, people and resilience

Speaker's Corner

An extension of 'Show Me How', the dynamic Speaker's Corner is where solution providers showcase their most cutting-edge products in 10-minute time slots, followed by interactive Q&A sessions.

The Future of Security Training Theatre

This is a rare chance to sit down and be taught by experts in essential CPD accredited presentations. The Future of Security Theatre will help you learn exactly how to make sense of the future – and how to capitalise on the emerging possibilities that come with it.

Engineers of Tomorrow

The Engineers of Tomorrow competition, which sees young engineers and apprentices compete against each other in a live installation challenge, returns to Ifsec International for its 20th year. This year the competition is taking a further step towards tackling the growing engineering skills gap

by adding a live installation challenge for fire apprentices, as well as for those from the security sector, following a successful trial in 2017. The competition will pit more than 60 young engineers – working in teams of two – against each other. Heat winners will be invited to the Security & Fire Excellence Awards in November 2018, where an overall winner will be announced and claim a £1,000 prize.

Other Shows

IFSEC International will run alongside five co-located shows: Firex International, Facilities Show, Safety and Health Expo, Field Service Management Expo, Professional Clothing Show. Fire safety is at the forefront of everyone's minds and is a priority in the national agenda following the tragic fires witnessed in 2017. Firex International welcomes over 17,000 fire safety professionals from across the globe to share best practice and remain up to date on changes in legislation. Watch live demos and understand the latest life safety solutions, and hear from industry leaders under one roof, over three days.

CONTACT

UBM EMEA

London, United Kingdom

Tel.: +44 20 7921 5000

www.ifsec.events/international/GIT

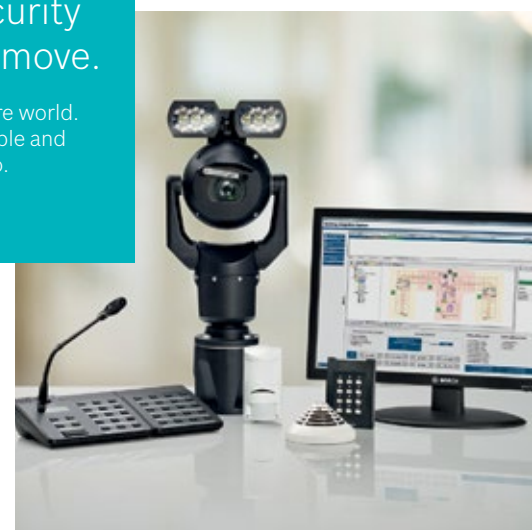


Travelers just see an airport.

You see reliable safety and security innovations for a world on the move.

Bosch empowers you to build a safer and more secure world. With an integrated portfolio designed to protect people and assets, no matter where they are, or where they go to.

Find out more at boschsecurity.com



BOSCH
Invented for life

CORPORATE SECURITY

"Be Prepared"

A Conversation with Michael Schmidt, Head of Corporate Security at Volkswagen Group



The Volkswagen Group with its headquarters in Wolfsburg, Germany is one of the world's leading manufacturers of automobiles and commercial vehicles and the largest carmaker in Europe. The group comprises twelve brands from seven European countries: Volkswagen Passenger Cars, Audi, SEAT, Škoda, Bentley, Bugatti, Lamborghini, Porsche, Ducati, Volkswagen Commercial Vehicles, Scania, MAN and VW Financial Services. The Group operates 120 production plants in 20 European countries and a further 11 countries in the Americas, Asia and Africa. Every weekday, 626,715 employees worldwide produce around 43,000 vehicles. Heiner Jerofsky from GIT SECURITY speaks to Michael Schmidt, Head of Group Security and Chief Security Officer, about his global security management strategy, experiences and goals.

GIT SECURITY: Mr. Schmidt, you are one of the most experienced German security chiefs, as well as a university lecturer, consultant and member of various security organisations. So far, you are also the only security chief to have held this position in three different DAX companies. In recognition of your services, you were made a Liveryman of the City of London in 2008 and presented with a lifetime achievement award by ASIS Germany in 2017. It's an impressive track record. Do you have a recipe for success?

Michael Schmidt: During my career, I have been presented with major challenges and trusted by people with a great deal of responsibility. I consider myself highly fortunate. It has given me and the experts who I have worked with, in various roles, an opportunity to continue to grow in my work. There is no such thing as a recipe for success. This would also be the wrong way to approach things. In this profession, it's important to be a master

of your trade and adapt with flexibility to different situations. It's all about being prepared and adapting to the modus operandi and what motivates the perpetrators. Understanding people is crucial when it comes to security, as is the ability to exclude taboos from your thinking. It may seem surprising but it was as a young police officer that I learned the basic skills of my profession, which I have used again and again in different ways. I'm extremely grateful for this – and for the recognition that I have achieved within the sector.

For which roles and tasks are you responsible at the global Volkswagen Group?

Michael Schmidt: Group Security manages the strategic themes of building security, personal and event security, crisis management and travel security, expertise and prototype protection, as well as forensics and digital forensics. Higher-level control functions also include international coordination, reporting and security audits. I am also responsible

for managing plant security. Fire protection is an area specific to the automobile sector. This range of tasks was similar in my previous positions, including my work at Deutsche Post and RWE. It helps, of course, if you already have experience in a particular area. As a rule, I would say that 80% of security issues are identical across different companies, regardless of the sector.

How important are technologies, such as perimeter protection, video surveillance and mobile object security, at the Volkswagen premises?

Michael Schmidt: Of course, they are extremely important. All three elements are key components of building security. At its very foundations, modern plant security must be based on all relevant innovations. For this reason, we continuously review publications and trade fairs while also working with research teams. Interestingly, the Consumer Electronic Show (CES) in Las Vegas is one of the

most important trade fairs for us. It also goes without saying that we use modern perimeter security that is based on minimum security standards. We combine it with fixed and mobile video technologies. And not only in Wolfsburg. At the moment, we are working on a building, which is independently monitored by a drone and the first of its kind. It is a very important technology, but needs to be used with a sense of proportion. We worked closely with employees from the very beginning, in order to involve them in the decision-making process. We also brought in other interface partners, such as the Luftfahrtbundesamt (German Federal Aviation Office), which greatly helped make the project a success.

What experience have you gained of internal plant security as opposed to external security providers? And what does the qualification concept look like?

Michael Schmidt: The Group includes a very diversified set of companies and brands globally. Sometimes we work with external security companies (around 85% of all security staff) and sometimes our own employees. Internal staff cover the main plant security tasks in our six German plants. It's only when we have additional peaks in demand, for example, during major events or special projects (e.g. temporary security for construction sites) that we seek support from external security providers. Choosing the right security company is a hugely complex process that we are continuously working to standardise across the company. A great advantage of using our own plant security staff is, in my view, that they identify with our company. It also means we can have a direct influence on staff recruitment and development at all times. In terms of career background and qualifications, our plant security staff may have been anything from experienced former police officers to people who have moved sideways from production. We have developed our qualification programme so that it is compatible with internal and external qualifications. The programme is delivered by our internal academy. We focus on providing comprehensive basic training. Our most experienced employees, as the experts, lead training sessions themselves. This includes monitoring and controlling vehicle and goods traffic, managing visitors, providing information and prototype security, training on the access rights to the premises, as well as standards relating to controls, internal security and customer orientation. We also ensure that our employees are trained as qualified security staff (by the Industrie- und Handelskammer [German Chamber of Industry and Commerce] – IHK) and/or emergency response officers.

You have a central security office at the Wolfsburg plant. How does it interact with other plants?

Michael Schmidt: Every Volkswagen plant still has its own central security office. Last year, at the



Wolfsburg plant, we worked on a project to merge the central plant security office with the central fire protection office, in order to form an integrated central security office. In order to achieve this, we used cutting-edge technology and ergonomics. We operate it using our own specialist plant security and fire protection employees. In the future, we will provide training for security dispatchers working at the central security office. Our break-in, fire detection, communication and video technology is highly networked and runs on a central management system. Images are displayed at five individual workstations and on a monitor wall. The relevant resources are assigned to key words so that they can be used appropriately. In special cases, we work closely and with support from the government authorities, including the police and fire brigade. Each intervention is recorded in the system and logged in read-only format. Staff work in continuous shifts, providing cover 24 hours a day, 7 days a week. Based on the experience gained from the project, which incorporated existing fire and other security systems within a primary management system, we will explore and push ahead with the linking of security systems at other plants.

The crucial production sites, assembly halls, equipment and vehicle parts on the premises could be vulnerable to many different risks. How do you prevent and manage disruption and crimes, such as theft, sabotage, espionage and terrorist attacks?

Michael Schmidt: We use technical and organisational measures to do this. These range from technology-based protection of facilities using alarm systems, access control and video to human measures, such as fire protection and plant security. They may also include specialist departments, such as the internal investigation service, threat management, information and prototype security, crisis management, etc. We base all measures on risk analysis and written minimum security standards and security manuals.

Can you recommend an effective prevention model against corporate crime for other organisations?

Michael Schmidt: The most important factor in prevention is awareness. We regularly provide training on key vulnerabilities. In areas where incidents happen more often, we explain the potential consequences of dishonest or corrupt behaviour. The Compliance department supports us in this area by running campaigns. But each investigation aimed at preventing such incidents is discussed with the affected departments, so that we can also use the vulnerability analysis to rectify any issues.

Let's take the key phrase of "security compliance". How can you ensure that safety and security rules, operating instructions, alarm plans and other information on security and emergency organisation reach and are taken seriously by all the different employees and visitors?

Michael Schmidt: In practice, this is a real challenge in large organisations. Regular training and exercises are crucial to success. Globally, we have a uniform reporting system across all brands. We feed the consolidated information into the global security organisation. In this way, all safety and security managers are kept up-to-date and can implement or discuss preventive measures that others have applied within their own departments. We have developed our reporting concept over many years. I think it is extremely effective.

How important are technical systems, such as fire, panic and break-in alarms, video surveillance and access control in terms of safety and security for a Group of this size?

Michael Schmidt: They are, of course, essential. Otherwise, it would be almost impossible to achieve any protection objectives. It's also true



In 2017 Michael Schmidt received a lifetime achievement award by Asis Germany

that the best technology cannot be successful without human intervention.

Could you tell us about any particularly innovative modern security technologies?

Michael Schmidt: In my opinion, drone technology is especially important as it is future-oriented. I believe that we have a real competitive edge with our drone projects. Our prototype production facilities will be equipped with drone defence systems this year. At these sites, we can detect objects approaching by air and locate them using geolocation data. The system includes a mobile unit that can be "woken up" and activated by sensors. It means that we can bypass costly one-time solutions and tailor the concept to the situation. Plant security and the police can then be deployed to apprehend suspects. We have also constructed a mobile video unit (a Panomera camera) on an AmaroK with fuel cells. The unit can be booked for use throughout the Group and is deployed wherever it is needed. Right now, we are looking at security robots, which are already used for fire protection and plant security applications. Furthermore, we regularly participate in the annual Outstanding Security Performance Awards (OSPAs), which we consider an extremely successful initiative. The security industry celebrates independent ideas, innovations and any outstanding achievements. In 2016, we entered with three of our top ideas and innovations. We won an OPSA for one of our concept ideas and, in 2018, we will compete again with several innovative ideas. As you can see, security can also be creative.

What have been your positive or negative experiences of using drones for plant security and the advent of this new technology?

Michael Schmidt: We anticipated years ago that drones would affect us at some point. The first negative incidents with drones happened shortly afterwards. We currently record around four incidents per year and recently manage to apprehend a drone pilot. This showed that the concept works. A hugely positive side is that we coordinate all drone activities for specific purposes, including logistics, real estate, fire protection, etc. This helps us cut through the many different sales pitches and gives us a real overview of what actually works.

How important is cooperation with local police stations, considering the growing threats associated with public-private partnerships (PPPs)?

Michael Schmidt: Hugely important! You can Google a press article about this in the Wolfsburg newspapers. We operate PPPs at all levels, not just locally, but also regionally and throughout Germany. We often send representatives to authorities on work shadowing placements, as part of their career development, and regularly exchange views at events or if urgent situations arise.

Security concepts are based on current risk and threat analyses. According to your risk assessments, what are the greatest threats to your organisation and how do you personally view the current risk and threat situation?

Michael Schmidt: Take a look at the world around us today. States threaten other states; there are failed states where order disintegrates from one day to the next, coups and revolutions, radicalisation through the internet, bomb threats and explosions in apparently safe places, and jihad may seem to be at our doorsteps; we are seeing

extortion through virtual currencies like Bitcoin, thousands of hacker attacks day after day, fake news... the list goes on. In terms of security, the world that we live in is a kaleidoscope of illegality and criminality on an entirely new level. And it's not just the sheer number of incidents that is new. What concerns me is that they are now extremely widespread and perpetrated with unprecedented complexity, sophistication and technological experience; boundaries are dissolving and the environment is unstable. Above all, because organisations are subject to increasingly stringent requirements. Internationalisation, combined with duty of care considerations, means that employers are increasingly responsible for taking care of their employees - at all times and in all locations. Global liability and executive liability are becoming more and more significant. Yet we cannot expect institutional security structures to be internationalised within the foreseeable future. It is well known that security tasks traditionally undertaken by the government are gradually being transferred to the corporate world. This means that security in relation to structures, operating methods and networks needs to incorporate different spheres. Security needs have also changed for global players. The areas of activity and skills involved in corporate security must also be developed as a result. As ever, we must demonstrate that we are a business enabler. That is our *raison d'être*. It isn't enough to simply update the old corporate security policy in a linear way. An "even better and more thorough" policy will not help us to deal with the complex threats of today. Nowadays, corporate security must be strategically planned if it is to successfully protect the company's business interests. From the outside, we are seeing more cooperation and public-private partnerships between public institutions and businesses. Within the organisation, alongside the conventional partner "Revision", IT departments have become a crucial partner when it comes to handling Security 4.0 issues.

What expert advice could you give to other security managers based on your professional experience? Do you have a personal guiding principle or philosophy on the subject?

Michael Schmidt: My colleagues don't need my advice. All I can say is what's important to me and helps me. And that's the experience, opinions and support of experts in our sector and relevant partners. Call it a "network", if you will. The second aspect, as ever, is "be prepared". That's the name of the game for any security manager. It may sound trivial and simple, but it forms the fabric of our work. ■

Smart Dynamic Virtual Credentials Management Portal



New STid Mobile ID® Online Portal: Got a really tricky security policy?

Meet the challenge of matching high-security policy with intuitive access control.

STid Mobile ID® Online Portal is the first user card management portal to comply with even the most demanding policy requirements (including GDPR and PIPEDA). Easy to manage, it can both issue and revoke virtual access cards remotely and ensure data privacy and protection using recommended encryption and authentication methods.

Ultimately flexible, it's built to be compliant with the highest security standards of our clients business and it perfectly interfaces with your existing system. Just let your policy dictate where sensitive data must be stored: on your own internal server or in a secured STid cloud.

Welcome to high-security and flexibility — in a single solution.

DYNAMIQUE | EVOLUTIVE | SECURE | AGILE | FLEXIBLE | INTUITIVE

stid-security.com



GIT SECURITY AWARD

The Finalists Are Chosen

Active participation, a new category and numerous products that left our jury in awe: GIT SECURITY AWARD is entering its 13th year. The GIT SECURITY team is proud to report that the trends of the industry are reflected in the spread of products: An innovation-high can this year be reported in Category D – Access, Burglary and Perimeter Protection, as participation numbers rose above and beyond what was expected, reflecting the current trends and plethora of innovations in the access market, smart access being only one of them. In the years before, Category C – Video Security Systems (VSS) was the category with the highest number of participation.



picture similar

Win the reader prize!

With a little luck, you will soon be the owner of a prestigious digital cam. So please vote in the GIT SECURITY AWARD. Select a favourite from each of the categories A, B, C, D, E and F to take part in the draw for the camera.

After our jury chose the best of all the products in each category, it is now on you, dear readers, to vote for the top three products that will receive a GIT SECURITY AWARD 2019.

In the following, we will display all the product finalists of each category.

- A – IT-Security and Safety for Automation, Cyber Security
- B – Fire and Explosion Protection, Industrial Safety
- C – Video Security Systems (VSS)
- D – Access Control, Intruder Alarm, Perimeter Protection
- E – Safety and Security Management, Services and Solutions
- F – Special Category Smart Home

To have fair voting, companies cannot vote for their own product. Moreover, you will have to vote with your company address. Private persons are not entitled to vote and a business address is essential. Select one product in each category. You will find an overview of the finalist's products on the next page.

Vote now – voting is possible until August 24, 2018!

Voting is only possible on: www.security-award.com
There you will also find again all nominated finalists.

GIT
SECURITY
AWARD
2019
FINALISTS

WILEY



Our expert jury analyzed the products for the topic Fire Protection, Explosion Protection, and Work Safety: f.i.t.r. Lars Komrowski, TÜV Hessen, Steffen Ebert, GIT SECURITY, Bernd Saßmannshausen, Chief Security and Safety Officer of Merck, Dr. Heiko Baumgartner, GIT SECURITY, Peter Krapp, MD of ZVEI, Heiner Jerofsky, GIT SECURITY, and Andreas Heller, ZVEI



Another part of the expert jury checked the candidates for the sections safety and security management, access control, intrusion detection, perimeter protection, and video security systems – and nominated the finalists for the short list: f.i.t.r. Steffen Ebert, GIT SECURITY, Manfred Gügel, MD of Integration Company MNO, Thomas Kunz, founder of Vi2Vi, Dr. Peter Schäfer, Head of the Security Department at Merck, Consultant and Integrator, Heiko Viehweger, and Heiko Baumgartner, GIT SECURITY

Category A

IT Security and Safety for Automation, Cyber Security



ABB: AFS

AFS Contactors for Safety Applications

As part of the safety chain, AFS contactors feature a fixed auxiliary contact block (2 NC, 2 NO) in safety color with mechanically linked auxiliary contacts and mirror NC contacts as well as a protective cover and built-in surge suppression. For integration into machine tool systems, data is available through ABB tools such as Sistema or FSDT for design according to EN ISO 13849 and EN 62061. To determine the performance level (EN ISO 13849) or SIL values (EN IEC 62061), B10D values are available. In the event of a fault, the contactors react with opening times less than 30 milliseconds. They have built-in surge protection and the power consumption of their contactor coil can be cut by up to 60 percent.

Fiessler Elektronik: FMSC



Safety Controller

The FMSC safety controller, Fiessler Modular Safety Controller, from Fiessler Elektronik is characterized by a modular concept. Various master and slave devices are available for this purpose. A two-digit display for initial diagnosis and a USB port for on-line diagnosis round off the hardware profile of the FMSC safety controller. The simple and intuitive programming of the FMSC safety controller is done

using the FMSC Studio programming software with the help of drawings. Depending on the configuration, up to 204 inputs, 68 safe outputs and 85 standard outputs are available. Up to 17 axes according to PL e can be monitored.

KEB: C6 Safety

Safe System Solution

The solutions of KEB Automation offer a security architecture that is fully integrated into the automation system. The concept comprises three levels: The C6 Safety PLC can be used as a safety controller combined with the C6 Safety I/O for decentralised installations. Further devices are the KEB Drive Controllers.

The Combivert S6-A or F6-A with the fitting Safety Module offer safe motion functionality with motion-based secure monitoring directly in the drive. The third element is the KEB engineering tool Combivis studio 6. It combines parameterisation and programming of conventional, i.e. non-safety-oriented, and safety-oriented parameters, programs and functions. Function-specific wizards provide further assistance with the work. Because of its certified architecture the C6 Safety PLC complies with highest safety requirements. Real-time communication is achieved by using EtherCAT with the Safety over EtherCAT (FSoE) certified safety protocol. The decentralised structure makes a direct installation in machines possible without additional wiring at smallest space requirements. With the Safety PLC any number of FSoE slaves can be linked, including the safety I/O module or a KEB drive controller with safety module. The protocol Safety over EtherCAT provides the possibility to control all available safety functions. Furthermore reliable measurements (i.e. velocity, position) and the switching state of the safe I/O modules can be transferred to the Safety PLC.

Bernstein: SMART Safety Sensor SRF

Safety Sensor for Industry 4.0

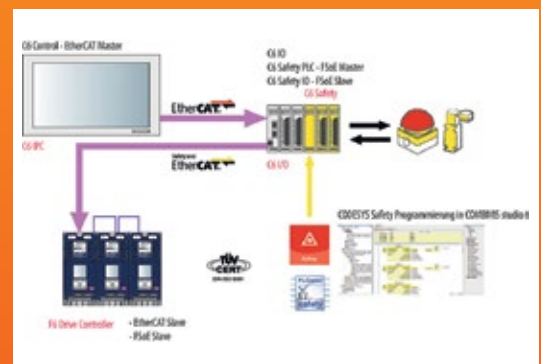
The contactless Smart Safety Sensor SRF supports the implementation of safe Smart Factories: The SRF – an abbreviation of Safety RFID – monitors moveable separating protective equipment such as flaps or doors of movable guards and protects employees from injury by shutting down or prevent the start of the machine until the separating safety device is properly closed. Particular attention is paid to the diagnostic system DCD. The system provides a large amount of data, making it available centrally. Diagnostic data is fed into the machine control system via I/O Link or alternatively displayed on a smart phone by way of NFC technology. Data collected in this manner can be used for predictive maintenance based on early fault detection. The special feature of this new development is the diagnostic system DCD. The system provides a large amount of data of each sensor, making it available centrally and flexibly as an aid to intelligent production.



Kaspersky: Threat Management and Defense

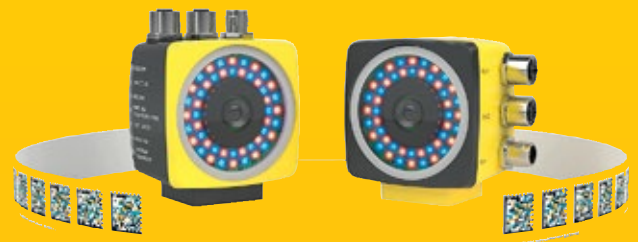
Cyber-Security Solution

Kaspersky Lab's adaptive enterprise solution, Kaspersky Threat Management and Defense [1], combines technologies and services that support the implementation of an adaptive security strategy. The platform helps security teams defend against attacks, quickly identify specific threats, respond to real-time incidents and anticipate future threats. The solution adapts to ongoing information security processes and the technical components are complemented by global threat intelligence and expert services specializing in threat hunting and incident response. This provides a unified cybersecurity approach that protects against complex threats and targeted attacks.



Leuze electronic: MLC 500**Safety Light Curtain with Smart Process Gating**

The MLC 500 safety light curtain variants with Smart Process Gating (SPG) are used for access guarding with material transport. Process control for the gating process takes place in combination with the system control. This means otherwise necessary muting sensors can be omitted. The process is controlled via two signals: the first signal is sent by the control (PLC) while the second signal is generated by the protective field itself. The temporal sequence is controlled by the light curtain. The PLC signal must be generated so that the transport material is at a distance of 200 mm or less from the light curtain when gating is initiated. MLC 530 Smart Process Gating is TÜV-certified for safety. SPG allows the system to be very compact and thus saves valuable space. Increased reliability and a diminished risk of manipulation ensure high system availability. Even pallets with uneven loads (e.g., parts on only one side or gaps between loads) are also reliably transported. The process also works regardless of the surface type of the transported goods (matte or highly reflective). Low installation and maintenance effort (simple installation, no adjustment of sensors when changing the transported goods).

**Pepperl + Fuchs: safePXV and safePGV****Positioning Systems**

Safety applications according to „SIL 3 / PL e“ require adherence to the highest safety guidelines in order to optimally protect people and machines at all times. While this level of security was previously associated with high costs and time, users can do so with the „safePXV“ and „safePGV“ positioning systems from Pepperl + Fuchs. Based on a multi-redundant technology, the manufacturer claims that this enables absolute positioning to SIL 3/PL e with a single sensor for the first time. The safePXV offers the perfect solution for linear absolute positioning; the safePGV also for the reliable navigation of driverless transport systems. The basis of the new security technology is the proven and particularly reliable combination of a 2-D read head and the DataMatrix code. However, a special tape with two overlapping DataMatrix codes in red and blue is used here. The 2-D read head is equipped with two differently colored LED rings - also in red and blue. The two-color codes combined with the two-color illumination create the unique security solution. Each individual code contains position and safety information that is made visible in red or blue by the LED illumination and can thus be read out by the camera. Therefore, the safe X position can be processed there directly, without testing and used for process control.

Patlite: NHL**Network Signal Tower**

The NHL goes beyond the scope of a classical signal tower, as the continuous Ping monitoring of the network products and the SNMP trap message support the user, for example, to avoid a server breakdown. The NHL enables the cost-effective monitoring of complex network devices and provides the interface between the user and the security technology. In addition, employee's response time is reduced, since they are informed visually, acoustically and by e-mail about an unusual event. The notification text of the automatically sent e-mail is determined individually and the information density is adapted to the recipient. The handling in daily use is intuitive, the setup is done through the web browser and the software can be updated even with remote access. The user benefits from the elegant design of the NHL, which adapts to the office environment and offers three types of mounting: on the wall, on partition walls and standing on the table.

**Pilz: SecurityBridge****Cyber Protection**

With SecurityBridge, Pilz is expanding its product range to include the area of Industrial Security. The Pilz SecurityBridge protects the connections between the programming/configuration tools and the hardware controllers from manipulation by detecting unauthorised changes to the automation project, for example. The SecurityBridge acts as a firewall. However, unlike generic firewalls, they do not need complex configuration; thanks to application-specific default settings they are easy to commission using the plug-and-play principle. As well as benefiting from the security aspect, users also enjoy higher plant availability because only the data that is necessary (authorised configuration and process data) is transmitted.



R3 Communications: EchoRing

Wireless Real-Time Communication

EchoRing is a wireless software technology designed for applications that require simultaneously time-critical performance and high robustness (packet error probability < 10⁻⁸). Based on extensive research and the introduction of massive cooperation, EchoRing enables deterministic and real-time wireless communications (down to 1ms) with a cable-like performance. Applied on standard hardware, EchoRing is cost-effective and highly flexible. The EchoRing Evaluation Kit is the first product of R3 Communications based on the EchoRing technology. It has been designed to test the technology under real industrial conditions floor.



The EchoRing approach is based on a logical token ring method. The token is also used to determine crucial information about the wireless channel. Since the token passes through each communication station of the network, the information of the channel's state is distributed among all the stations. Based on this complete knowledge of the channel, the system chooses a perfect support (or „buddy“) station for any necessary repetition of the transmission in case of failure - this technique based on spatial diversity is called „massive cooperation“. The implementation of the purely Software based approach is possible on existing standard hardware.



SSP Safety System Products: HoldX R

Safe Magnetic Interlock

The small designed magnetic interlock HoldX R combines a safe contactless RFID safety sensor with an intelligent electromagnet. With an in- and outgoing pigtail cable, up to 17 HoldX R can be connected in series. The cable is just being looped through HoldX to HoldX helping to reduce the cabling effort. The newest feature is an internal information bus that needs no special gateway, but allows you to get information and control every single unit separately. With a bluetooth interface inside, HoldX can even be connected to an app, delivering all status information and an error memory to the operator. A multi-coloured LED using pulsed signals also gives visual information to the operator. The combination of magnetic interlock and safety sensor itself is not really new. HoldX R differs from competing products with its series connections, the internal information bus and the Bluetooth interface. The series connection with in- and outgoing Pigtail-Cables up to 17 units does not need any Y-connector or similar accessories. The addressing is easily done with a manual rotary switch on the unit. This way every Unit knows which node it is.

Rohde & Schwarz Cybersecurity: TrustedGate

Security Solution for Clouds

The security solution TrustedGate combines a high-security cloud access security broker (CASB) with a data-centric encryption system to provide sufficient protection (virtual files in the cloud and original data in a location of choice). Only when downloading the document is it reassembled and decrypted. It relies on security with simultaneous usability. The solution also complies with regulations when using cloud-based systems (eg DSGVO). By monitoring the activities and notifications when security-relevant events occur, it offers audit security. Compared to traditional CASBs, TrustedGate not only values access permissions in the cloud, it also encrypts the data at the same time. This keeps your data highly secure while allowing you to work transparently in the cloud. Despite fragmentation, e.g. a secure full-text search in encrypted texts is possible. The innovative TrustedGate Office365 Encryption also ensures data leakage prevention for email attachments. By free choice of storage space, TrustedGate also contributes to cost optimization by selecting the cheaper storage space.



Trend Micro: TippingPoint Threat Protection System

Cyber Security

Trend Micro TippingPoint Threat Protection System is a platform of next generation intrusion prevention systems (NGIPS). It offers network security by protecting against known and undisclosed vulnerabilities. Attacks are detected and blocked in real-time. It uses a combination of technologies, including deep packet inspection, threat reputation, URL reputation and advanced malware analysis. Furthermore, it has access to Trend Micro's constantly updated global threat intelligence. The system is installed in-line in a network and can protect connected industrial equipment without changes to the equipment itself.

Werma Signaltechnik: KombiSIGN 72

Modular Signal Tower

With the modular signal tower KombiSign 72 there is no need to compromise, because this product combines quick installation, excellent visibility and the highest level of flexibility. Since today's signal devices not only warn, guide and protect on site, both optically and acoustically, but also communicate intelligently with each other, we rely on state-of-the-art networking technologies: our signal devices have the latest interfaces – whether IO-Link, AS-i, USB or as a wireless network – and thus enable fast, flexible and uncomplicated data exchange.



Category B

Fire and Explosion Protection, Industrial Safety

Apollo Fire Detectors: SOTERIA Dimension

Optical Smoke Detector

The Apollo Soteria Dimension is a unique, flush-fitting optical smoke detector designed for aesthetically demanding and high-risk environments. In contrast to traditional optical detectors, the chamberless design of Soteria Dimension uses new patented optical sensing technology to sense smoke outside the chamber, providing quick smoke detection, fewer false alarms and easy maintenance. Built-in proximity sensors



also detect any physical obstruction or tampering of the detector, aiding in reduced false alarms. Approved to EN54-7, the smoke detector is also available as a specialist version which has been independently certified for anti-ligature use in high-risk locations like prisons, custody suites and healthcare establishments. The combination of its metal face plate, tamper proof screws and low profiling make it less noticeable and far more resistant to interference than some traditional detectors.

Bosch Security Systems: Remote Services

Remote Diagnostics and Maintenance for Fire Alarm Systems

Bosch's Remote Services enable system integrators to monitor facilities remotely around the clock and to detect problems early so their clients benefit from quicker responses and less downtime. This IP-based solution for remote diagnostics and remote maintenance increases the reliability of fire panels and maximizes operational efficiency. Remote Services is a modular system with three components: Remote Connect can carry out programming and updates for the fire alarm panel remotely, independently of the location. Remote Maintenance collects and analyzes real-time fire system data for predictive maintenance, detecting errors before they can cause downtime or damage. Remote Alert, with its notifications in case of alarms and trouble ensures a higher transparency. Maintenance can be done much more efficiently and trouble messages and alerts will be automatically transmitted to mobile devices via SMS and email. The system integrator can optimize the preparation of maintenance calls using live data from the system and its components. The data is automatically visualized and stored on the Bosch Cloud.



Dormakaba: G-Ubivis XEA

Battery-Powered Hold-Open System

G-Ubivis XEA is a battery-powered hold-open system for securely holding open fire doors. Supplying power via a battery makes it possible not only to easily mount the system without having other crews perform preliminary work, it also allows a high degree of flexibility in the planning process because no external power connection is needed. It was designed for single-leaf doors with a leaf width of up to 1,250 millimetres. As a hold-open system it is suitable for barrier-free construction as per DIN 18040 and can be used in construction situations that should make accessibility possible. The system is especially well suited to retrofitting in buildings where no modifications to the building stock are allowed, such as heritage-protected structures. Since the G-Ubivis does not require any mains connection, no electrician is needed to connect the system.



EPG: FireAngel NG-9B

Battery-Powered Gas Detector

FireAngel NG-9B is a battery-powered gas detector, which reliably detects natural gas (methane). The sensor works with a significantly reduced power consumption. It is designed to operate with conventional lithium batteries. The alarm senses very low gas concentrations, which are below those of an ignitable gas/air mixture with a triggering threshold of 10% of the lower explosion point. The gas detector has been developed in accordance with EN 50194-1: 2009 and has intelligent test, silence and reset buttons to make it more user-friendly. The installation of the device is flexible, quick and easy and works independently of the main power supply. This device can easily be retrofitted in all buildings with a gas connection.

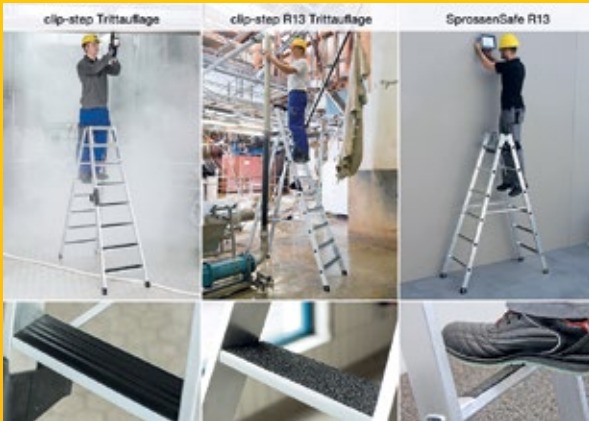


Dräger: Pac 6000

Single-Gas Detector

The disposable personal single-gas detection device, Dräger Pac 6000, measures CO, H₂S, SO₂ or O₂ reliably and precisely, even in the toughest conditions. The robust design, quick sensor response times, and a powerful battery ensure maximum safety for up to two years with virtually no maintenance required. Also it is very easy to use. The Pac 6000 is versatile thanks to its wide measurement range. For example, the CO sensor measures concentrations from 1 to 1,999 ppm, and the H₂S sensor from 0.4 to 100 ppm.





Günzburger Steigtechnik: clip-step

Non-slip Treads for Ladders

clip-step and clip-step R13 ensure a non-slip tread, increased safety, and a comfortable stand on step-ladders. clip-step is a ribbed plastic tread and optimizes the anti-slip effect up to 60%. The certified clip-step R13 tread is a plastic profile with corundum and it fulfills the demands of the highest anti-slip level R13. Therefore, safety at work in slippery and oily areas is ensured. A significant improvement of the safety at work for users of step and rung ladders was the objective and the demand for this development.



Honeywell Industrial Safety: Sensepoint XCL / XRL

Bluetooth-Enabled Fixed Gas Detector

Sensepoint XCL/XRL is a wall-mounted, Bluetooth-enabled fixed gas detector that keeps operations and employees safe while simplifying installation and maintenance through an intuitive smartphone app. The XCL version monitors for hazardous levels of one targeted gas from among a selectable range of gases and is suitable for commercial and light-industrial applications. The XRL version is certified for explosive area applications and suitable for industrial settings. It is also IP 66-rated and uses a metal enclosure to stand up to rugged use including hose-downs. The intuitive Sensepoint app guides set-up, calibration and testing, and maintenance. With new Bluetooth connectivity, a single worker can quickly carry out a range of tasks – from set-up and maintenance to reporting – from the safety of ground level. When paired with smartphone (or an intrinsically safe smartphone in explosive area applications) using a downloadable app, Sensepoint XCL/XRL allows a single worker to perform set-up, commissioning, maintenance and management of the detector from up to 10 metres away, without requiring a second worker in a control room.

SIQURA

RUGGED CAMERAS FOR CHALLENGING
CONDITIONS IN TRAFFIC AND MARINE APPLICATIONS:

TUNNELS, ROADS & RAIL | HARBORS & AIRPORTS | VESSELS & OFFSHORE

**GIT
SECURITY
AWARD
2019
FINALIST**



SMART CAMERAS WITH EMBEDDED ANALYTICS | FULLY MADE OF STAINLESS STEEL 316L
INGRESS PROTECTION IP66 AND IP67 | **DIRECT FIBER OPTICS** CONNECTIVITY AVAILABLE
MOTORIZED ZOOM BLOCKS | POE OR 24VDC POWERED

XCU-FUSION WITH OPTICAL AND THERMAL IMAGER IN ONE HOUSING
XCU-COMPACT WITH EITHER OPTICAL OR THERMAL IMAGER.

INFO@SIQURA.COM | WWW.SIQURA.COM

Helly Hansen: ICU HI VIS 3 Layer Shell Jacket

Self-lighting Safety Jacket

The safety jacket from the ICU collection offers visibility in the dark and protection in all weather conditions. With the integrated Light-Flex technology, people are even perceived without direct light and from a long distance:

A reliable, active light source made of waterproof light strips, which are powered by a rechargeable battery, improve visibility and safety in all lighting conditions. An active light source is added to the passive reflectors and thus increase the visibility, even over long distances. This makes the wearer nearly 10 times more visible, day or night. The battery will last up to 10 hours. Once battery life is up, plug it in for an easy 90-minute recharge. Even when the battery is charging, the system maintains its reflective benefits when visibility is a priority.



Säbu Morsbach: SAFE Tank Control

Walk-in Storage Container for Hazardous Substances

Safe Tank Control is a storage container for hazardous substances with a standard built-in system for the early detection of explosion hazards. By continuously measuring gas concentrations, the system is able to keep workers alert to any dangers. Counter-measures are automatically activated to lower gas concentrations or eliminate sources of ignition. In addition to increasing safety, a significant reduction in operating costs is achieved, especially when compared to other insulated and heated hazardous material containers. As soon as the gas concentration exceeds 10 percent of the lowest explosive limit of the gas-air mixture, the fan automatically switches on and a warning light on the outside of the hazardous substance container switches on. If the gas-air mixture exceeds 20 percent, the gas alarm sounds automatically and immediately interrupts the power supply to all electrical devices inside.



Siqura: XCU Fusion

Stainless-steel Dual Imager Camera

The XCU Fusion is designed to operate in harsh and aggressive environments. Typical applications are found in the heavy industry, traffic, tunnels, waterways, waste treatment and in salty marine environment. The XCU Fusion combines a full-HD ultra-low light imager with an uncooled thermal imager for both day and night vision. This camera can be used in hot climates and in extreme cold and withstand corrosive atmospheres caused by exhaust gases and salt. Vibrations, fierce wind loads, high-pressure waterjet cleaning and generally all kinds of precipitation will not be a problem.

Weiss: smalin

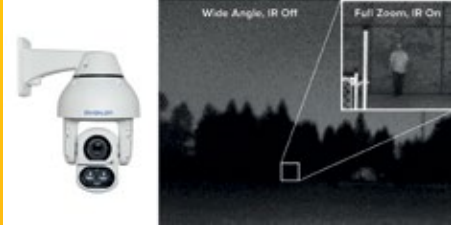
Smoke and Hazard Detector

smalin is a combined smoke, carbon monoxide and temperature detector, developed as a ceiling rose for central installation on ceiling-suspended lights. It is a canopy open to the ceiling, which can be used for almost every type of ceiling and pendant light. Thus, protective functions and design are combined with each other. Installation on the existing and mostly centrally located ceiling cable is possible in a very short time. After extensive research and development, it has been possible to produce a universal detector that meets the aesthetic requirements of the users. smalin stands for SMART ALert INSide and can be networked with smart home systems. The integrated and sealed batteries power smalin for up to 10 years.



Category C

Video Security Systems (VSS)



Avigilon: H4 IR PTZ Camera

PTZ Camera with Self-Learning Video Analytics

The Avigilon H4 IR PTZ is a high-resolution outdoor PTZ camera with a 250 meter IR illumination range that automatically adjusts the IR projection angle according to zoom and field of view, ensuring the scene is illuminated accordingly to camera zoom level. Combined with WDR, image stabilization and Avigilon's patented LightCatcher technology, this camera provides exceptional images in a wide range of applications and environments. An abrasion-resistant front lens and a built in silicone rubber wiper ensures undistorted clean images even in adverse weather conditions, making it well-suited for a range of weather and outdoor surveillance applications.

Dahua: IPC-PFW8800-A180

Multi-sensor Camera

The multi-sensor camera provides added flexibility for capturing wide area video surveillance. With four 2MP sensors working in tandem to create a comprehensive 180-degree overview, the camera can replace multiple single-sensor cameras providing a higher return on investment. Lacking IR support and vandal protection have been a limitation to traditional multi-sensor camera due to the complexity in mechanical design. The camera with customization curved bubble and separated IR setting, overcomes the limitation, making the camera suitable for installation in different situations. With starlight technology, the camera offers high quality low light image. The camera supports IP67, IK10 protection and infrared light. The multi-sensor camera features contrast, backlight compensation, white balance, and resolution control to create a crystal-clear image even in the most challenging lighting conditions.



Axis: P3717-PLE

Multi-directional Panoramic Camera

The multi-directional panoramic camera offers 8 megapixels. Its four 1080p sensors deliver up to 30fps each. The sensor heads come with a motorized varifocal lens and a removable D/N filter. Positioning along a circular track, rotation, tilt and the additional twist option make the adjustment of each sensor fully flexible. Axis Lightfinder Technology and Forensic WDR guarantee clear images, Zip-stream Technology reduces bandwidth and storage. The compact camera is protected by the patented donut-shaped Dome cover. Intelligent heat management allows for applications from -30°C to +50°C. With IP66 classification an IK09 this camera is ideal for in- and outdoor installations in industrial surrounding in all climates.



Eneo: eneo Candid

IP Camera With Separate Junction Box

The IP camera is equipped with an integrated junction solution and a Wi-Fi interface. It has a motorized varifocal lens (focal length: 2.7-12mm) and delivers a maximum video resolution of 3MP. The camera's image enhancement features BLC, HLC, D-WDR and LDC are complemented by video analytics functions such as motion detection, tampering, tripwire detection (including counting and direction detection), field detection and defog. If the camera has to rotate by 90° or 270° around its axis, for example in corridor surveillance applications, VerticalView ensures correct image display. The camera supports ONVIF Profile S and ONVIF mapping and is rated IP67.



Eizo: DuraVision FDF2304W-IP

IP Decoding Monitor

The EIZO IP monitor with integrated image enhancement allows you to connect to security cameras without a computer. It is designed for 24/7 use and boast exceptional reliability and durability. Using a computer for video surveillance can frequently prove undesirable, or even impossible due to space limitations. Thin clients and decoder boxes are often unsuitable alternatives in these cases, since they do not deliver the required performance. To address this issue, EIZO has created the IP decoding monitor, a solution that integrates the decoding and a display in a single device. High-performance, integrated hardware decoding ensures that images are displayed on the screen almost without delays.



GIT
SECURITY
AWARD
2019
FINALISTS

Flir Systems: FB Series ID

Thermal Camera with Built-In Human and Vehicle Recognition Analytics

The FB-Series ID features best-in-class thermal image detail and high performance onboard video analytics in a single and affordable bullet-type form factor ideal for perimeter intrusion detection. FB-Series ID cameras feature onboard video analytics capable of classifying human or vehicular intrusions, making them an optimal choice for monitoring commercial and industrial perimeters. Combined with FLIR's custom Automatic Gain Control (AGC) and Digital Detail Enhancement (DDE), FB-Series ID provides unmatched image contrast and sharpness, offering reliable detection and classification with minimal to no false alarms. FB-Series ID is certified for integration with major third-party video management systems, as well as FLIR United VMS.



Hikvision: iDS-2CD8426G0/F-I

Dual-lens Facial Recognition Camera

The DeepinView facial recognition camera is engineered with two lenses that enable it to deliver stereo vision of captured images. The technology captures 1080p pictures and crops facial images simultaneously. It supports detecting and capturing up to 30 faces at the same time. The face images can be stored onboard in the face library, supporting up-to 90,000 faces' storage. In general, the camera allows real-time face detection and capture, onboard face comparison and recognition, to trigger alarms immediately in case of an anomaly. Powered by Hikvision's deep learning algorithm and a high-performance GPU, the camera is able to deliver more accurate and faster results. The solution is ideal for buildings, airports, stadiums and more.



Hanwha Techwin: XND-6085

IP Camera With Varifocal Lens

The XND-6085 from Wisenet extraLUX Series is equipped with a high performance, motorised 4,1~16,4 mm varifocal lens with aperture of F0,94. The motorised varifocal low light lens offers a unique range of focal length and aperture. In combination with a 1/2 inch CMOS sensor, these features ensure superb quality color images are captured, regardless of the environment or the time of day, and without the need for IR LEDs or supplementary lighting 0.004 Lux@F0.94 (Colour), 0.0004 Lux@F0.94 (B/W). For easy installation the XND-6085 is equipped with a fully motorized camera head for pan, tilt and rotate operation locally via Wisenet Installation APP or from remote site via Browser.



Robotix: S16 Thermal

Dual-thermal camera

The flexible dual-thermal camera system is ONVIF compatible (Profile S). The stealthy S16 camera system has two unattached thermal sensor modules which is connected to the camera body by sensor cables, up to three meters long. This makes the S16 thermal system perfect for any special needs a customer's installation may call for and provides flexibility for efficient installs. The thermal sensor modules are available in two designs. Both designs offer three horizontal viewing angles and Thermal Radiometry Technology for temperature events. The system (both camera body and sensor modules) are classified to IP66 and supplied with special robust-housing.



Panasonic: WV-X8570N

4 x 4K 360-degree Multi-Sensor Camera

WV-X8570N can capture clear vehicle images in color even at night intersections of low light intensity. The four repositionable lenses minimize blind spots and flexibly correspond to intersections of various shapes and monitoring areas of cities. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. Adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased for longer recording and less storage. It also supports full data encryption streaming and is compliant to FIPS 140-2 Level 1 standards to keep video images secured.



Sony: SNC-VB770

4K Network Camera

Thanks to ultra-high sensitivity of ISO 409600, the SNC-VB770 4K network camera features top levels of minimum illumination of less than 0.004 lx - to capture exceptionally detailed 4K/30 fps color video, even at night and in similar extreme lighting environments. The SNC-VB770 4K network camera achieves this illumination by using its highly-sensitive 35 mm full-frame Exmor sensor, optimized E mount lenses to maximize the performance of the sensor, and its signal processing engine. This enables the camera to capture crisp, clear 4K/30 fps color video with much less noise in extreme low-light conditions.



Category D

Access Control, Intruder Alarm, Perimeter Protection

Abus: wAppLoxx

Access Control System

With the electronic wAppLoxx access control system from Abus, doors can be opened locally as well as globally via PC, tablet or smartphone.

An encrypted peer-to-peer connection for data transmission provides security. Changes to locking rights can be implemented in just seconds and up to 20 cylinders and 150 users can be managed. For optimum ease of use, wAppLoxx can be networked with alarm and video surveillance to form an all-encompassing security system. Home automation functions can also be integrated into this system: users can conveniently operate garage doors or lighting systems via the electronic locking cylinders and hotkeys in the app.



Assa Abloy: CLIQ Connect

Mobile Management of Locking Systems

A smartphone with the Cliq Connect app and a Cliq Connect key – that's all you need to manage an electronic eCliq locking system, at any time and while on the move. You also have the option to save all Cliq Web-Manager management software data in the cloud. When a smartphone and key are connected via Bluetooth, the new app can call up updated or time-restricted access authorisations directly from the server via the internet and load them onto the key — without the need for a long trip to company Head Quarter. For protection against attacks, all data is encrypted end-to-end during transmission. This flexible system for mobile master key system management not only speeds up work processes, but also improves protection against theft, data theft and industrial espionage.



Avigilon: Avigilon Presence Detector

Impulse Radar Device for Perimeter Protection

The Avigilon Presence Detector (APD) is a small form-factor impulse radar device, with self-learning radar analytics that scans, learns and continuously adapts to the environment. This enables it to provide extremely high accuracy in detecting the presence of a person at distances up to 9 meters (30 feet) from the sensor, even if the object is hidden or obstructed by objects such as blankets, cardboard, wood and drywall. Using sophisticated radar analytics technology, the APD helps to solve the challenge of accurate human presence detection in indoor areas where traditional devices may be limited.



CBC: Crucial Trak

Biometric Access Control System

CrucialTrak has developed and improved upon traditional constraints of biometric recognition technology by combining different biometric technologies into one solution. The Multi-Biometrics terminal is an all-in-one integration of four separate biometric technologies, used in the identification and verification process: fingerprint, facial features, iris patterns and vein patterns. The use of Multi-Biometrics takes advantage of the capabilities of each biometric technology while overcoming limitations of a single technology.



Dormakaba: SAT Cylinder

Temporary Access

The new SAT function (Secure Access Temporary) in the Kaba expert plus lock cylinder from Dormakaba has enhanced a mechanical cylinder with an important function, that provides significantly more security, flexibility and a good feeling, by providing temporary access to third parties only when wished by the proprietor. Apartment owners can quickly and simply grant restricted temporary access to third parties, by a small turn of the proprietor key. The proprietor simply retracts his key in the service position at 8 o'clock. This allows persons holding the service key, e.g. craftsmen, housekeepers or dog sitters to unlock the door. After work has been completed the service personnel lock the door again securely from the outside.





Evva: Hybrid Cylinder

Mechanical and Electrical Cylinder

AirKey and Xesar cylinders can be combined with all current, modular, mechanical Evva systems. In any case, the hybrid cylinder offers a multitude of clever solution variants for your customers to sensibly enhance your range of available Evva products. The AirKey hybrid cylinder is the smart addition to anyone who wants to stay true to the mechanics, but who wants to take advantage of the benefits of electronics. The hybrid cylinder, for example, in an entrance door of the private house, is – in contrast to a knob on the inside of the front door - not manipulated from the outside. On the outside of the front door, in turn, the electronic cylinder offers all the advantages of electronic access control.

Magnetic Autocontrol: mTripod

Tripod

For the new mTripod everything that has been done before has been put to the test. With new material, Italian design, novel illumination, comfortable handling and setup, as well as numerous safety features such as drop-arm function, impact detection as well as over-and-under-crawler detection, the new barrier not only sets visual but also technical standards. Many functions such as extensive result logging, a pulse counter and a random generator are already part of the basic functionality of the controller. Access control has changed from functional element to design object with mTripod.



Optex: Redscan RLS-2020S

Indoor and Outdoor Laser Sensor

The RLS-2020S is a compact indoor and outdoor laser sensor providing a customizable 'virtual' wall or pane with a detection area up to 20m x 20m to identify the presence of people or objects. It uses a 2D Lidar technology and will detect the size, speed and distance of the objects and capture their exact X&Y coordinates. PoE compliant, the RLS-2020S is designed for security applications such as intrusion detection, thrown object detection, ceiling/ roof and asset protection. It is integrated with all major Video Management Software and PSIM platforms to improve the reliability of video based security systems, allowing to track intruders/ objects across up to four zones.



Marshall's: Landscape Protection

Landscape Furniture Products

Marshall's anti-terror Landscape Protection products are transforming how urban planners protect public places from the threat of vehicle attacks by combining top security standards with aesthetic design. Manufactured to PAS68/69 and IWA14.1/14.2 standards – the latest Publicly Available Specification for security barriers used in hostile vehicle mitigation – these landscape furniture products are designed to stop vehicles while integrating seamlessly into the surrounding environment. The strongest specification can stop a 7.5-tonne lorry travelling at 50mph. The range of benches, planters, litter bins, cycle stands and bollards, achieved double digit growth in 2017 with demand growing across the Europe, the Middle East and the US.



Nedap: MACE Smart

Reader for Mobile Access Control

Mace Smart is the latest addition to Nedap's Mace platform; the platform that enables any access control system to use smartphones to store and present virtual access control cards.



The Mace Smart access control reader enables people to access buildings, parking facilities and event locations with their smartphone. This small reader is able to combine mobile technologies, like NFC and BLE, with conventional smartcard technology. Mace Smart supports many industry-standard communication protocols, such as Wiegand, Clock & Data and OSDP. This enables seamless integration into any existing or new access control system. Next to the reader, the Mace platform consists of a cloud solution and an app to manage and use virtual access credentials.

Paxton: Net2 Entry Premium Monitor

Door Entry Monitor

The premium monitor is an addition to the Paxton Net2 Entry door entry range. It comes with a capacitive glass touch screen and free concierge management, as well as 25 vivid background themes. Enjoy two-way video communication when used with the Net2 Entry Touch Panel. The premium monitor is compatible with Paxton's networked access control system Net2. The monitor has a host of new features including a concierge function, offering simple visitor and site management. This enables users who are busy or away to divert the monitor to reception, and if the caller is missed, enhanced call administration provides a video snapshot and event log of visitors.



Stid: Mobile ID

Mobile Access Control with Smartphone

Stid Mobile ID has been developed with RFID and Bluetooth technologies, bringing the access badge onto smartphones. It can work alongside or replace traditional access badges. The solution is so ergonomic that identification becomes instinctive for users. It offers user-friendly methods that can be tailored to use – proximity or hands-free, remote control, touch. You can now open a door, even if the device is in standby mode in your pocket or on a phone call. Our Offline and Online tools let you store data on your premises by creating locally or remotely a virtual card to users with Android phones or iPhone. It includes a free App, Architect Blue readers and programming tools. It's user-friendly, secure and easy to implement.



Senstar: LM100

Combined lighting and sensing solution

Intelligent Perimeter Lighting and Sensing Solution: Combining high performance LED lighting with accelerometer-based sensors, the Senstar LM100 is the world's first intelligent perimeter lighting and sensing solution. Detection of any fence manipulation and effective deterrence by illuminating the fence line. Developed for future requirements the LM100 saves up to 95% energy and light pollution as only activated in case of triggering compared to a permanent illumination. Designed for almost any type of fences and walls the system is very flexible through wireless communication with low cost of installation. It is an intelligent and innovative concept of combination light and sensor.



Süd-Metal: ÜLock-B Cable

Safety Lock with Thin 2-Wire-Cable

Cabled safety lock ÜLock-B Cable combined with a 2-wire cable and the I/O module EWS Eco (measurements 12,5 x 12,5cm) – a comfortable and safe access control. The innovation lies in the simplicity of the product: Wiring can be done very easily and fast due to the thin 2-wire cable. Similar products usually need a 14-wire cable. In consequence our product can be assembled extremely easily and fast (short assembly time) in contrary to others. Moreover the product gives safety concerning voltage reversal. Errors when connecting to the I/O module can be prevented and the error-proneness is very small. This fact also helps saving time because only two wires have to be connected to the I/O module. Another specialty is the long possible distance between ÜLock and I/O module (20 meters). As consequence the I/O module can be installed very flexibly.



Vanderbilt: SPC Connect

Monitor, Manage, and Maintain Panels

SPC Connect is a hosted cloud-based solution designed specifically for installers to monitor, manage, and maintain SPC panels remotely from any location. The SPC panel and Connect communicate using FlexC. This is a powerful protocol and can be used to support multiple paths such as Ethernet, GRPS, and 3G. This ensures the system is always connected. Following significant user management enhancements, SPC Connect speeds up the process of adding and configuring users. It means that the system administrator can quickly configure users to have access to their SPC system, while simultaneously saving them time and money. The push notifications for IOS devices ensure SPC Connect users are informed of new information related to their SPC system, even when the app is closed.



GIT
SECURITY
AWARD
2019
FINALISTS

Category E

Safety and Security Management, Services and Solutions



Avigilon: Unusual Motion Detection (UMD)

AI-Based Management Solution

Avigilon Unusual Motion Detection (UMD) technology is an advanced artificial intelligence (AI) technology that brings a new level of automation to surveillance, by revealing events that may have otherwise been missed. Without any predefined rules or setup, UMD technology is able to continuously learn what typical activity in a scene looks like, and then detect and flag unusual motion. UMD technology allows operators to search through large amounts of recorded video faster by automatically focusing their attention on the atypical events that may need further investigation, helping to reduce hours of work to minutes. Through AI, UMD helps users extract valuable insights from their video data, to quickly find, verify and take action on unexpected events.

Bosch Building Technologies: Praesensa

IP-based Public Address and Voice Alarm System

Praesensa is a new Public Address and Voice Alarm System for mid to large size applications. The system can be used in centralized and decentralized topologies, because it is IP-based. The intelligent power allocation technology of the multi-channel amplifiers reduces the demand for power. The system has no single point of failure because of the full network link redundancy and backup facilities. The intuitive call station interface with clear progress guidance and status feedback ensures ease-of-use for the system operator. Compliant to the highest standards, Praesensa offers full sound control per zone to satisfy the speech intelligibility requirements of business and emergency operations. Omneo IP architecture supports Dante audio networking, AES67 and AES70 protocol. No single point of failure is core to the system concept and only a few different devices are needed to fulfill all needs.



Bosch Security Systems: In-Store Analytics

Video Analytics Software for Retail

In-Store Analytics is a Software as a Service Solution. It allows the retail headquarter to collect customer traffic data from all stores to understand how customers move through and interact with the stores. Like this, retailers gain valuable insights on store traffic to improve operations, customer engagement and sales. As part of the solution, Bosch IP panoramic cameras are installed to provide high visibility of the retail floor. The cameras use on-board Intelligent Video Analytics to generate position data of shoppers' movements. This data is then sent directly to the Cloud where it is further processed. Position data is mined into performance results and visualizations that are shared with the retailer through web interfaces. What makes the solution special is its data accuracy of at least 95 percent, its scalability to cover even the largest retail stores with a high camera count and large multi-store chains and the anonymity of the position data to protect the privacy of the shoppers.

Deister Electronic: bloxx

Smart Item Management

Managing equipment and valuables usually involves a lot of effort and cost. The fully automatic and modular designed item management system bloxx developed by Deister allows you to store and manage valuables, equipment and devices securely and reliably. Different housings and modules of different sizes can be combined to store any number of devices in the same system. The system's smart software is aware of any item's movement which leads to more transparency and information regarding the actual need of equipment. This ensures higher security and efficiency at the work place.



HID: Location Services Item Management

Monitoring Solution for Locations and Objects

HID Location Services for Item Management precisely monitors the location and movement of assets and equipment across multiple locations or in a specific area, and the new HID Condition Monitoring Services provides real-time analysis of equipment performance and health. In addition, the solutions help determine the health and predict failure of motors, generators and other motorized machinery, while also leveraging its powerful policy engine to quickly identify potential issues and provide alerts so organizations can take action to reduce downtime. The new services are based on a standard Bluivision platform that enables seamless delivery without high costs. Bluetooth Low Energy (BLE) is used for precise real-time location services. The new condition monitoring services enable operations teams to move from a reactive or prescriptive stance to a more knowledge-based, predictive model that makes it possible to receive advanced warning of issues with equipment and proactively plan for scheduled maintenance based on algorithms and data analytics instead of reacting to an error at a potentially inconvenient time.



Kentix: MultiSensor-LAN

Server Room Monitoring Solution

The MultiSensor-LAN is a very simple yet complete solution for server room monitoring. It monitors IT infrastructures for 19 physical threats such as critical climate factors, fire or burglary and lays the foundation for fulfilling regulatory requirements according to BSI baseline protection and the ISO 27001. Due to the integrated web server, the configuration is set up directly on the device via a web browser. Alarms are sent immediately via e-mail including all the information required in order to react right away and, at best, avoid outages before they occur. Moreover, the MultiSensor offers an SNMP interface which allows an easy integration into most network management systems. The Kentix MultiSensor-LAN integrates 8 sensors and monitors IT infrastructures. No external software is required which saves cost and effort. The decentralized technical approach increases both the reliability and enables a very high scalability from small to large systems. IP-video cameras can also be integrated smoothly, avoiding system breaks and supplying the system administrator with alarm-synchronic data. There are no license costs.

IFSEC
INTERNATIONAL

19-21 JUNE 2018
EXCEL LONDON UK

SECURITY IS

CRITICAL

IFSEC IS ESSENTIAL

The global security challenge has never been bigger.

IFSEC International is just 4 weeks away. Discover the power of an integrated approach to security and secure your free ticket today!

www.ifsec.events/register

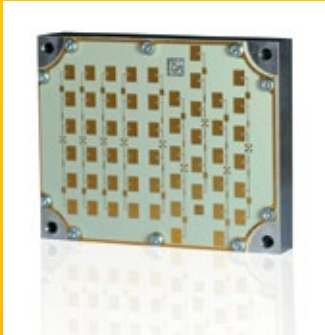
Organised by:



UBM

InnoSenT: iSYS-5010**Radar System for Security Monitoring**

The iSYS-5010 radar system optimizes video surveillance of outdoor facilities. The product was specially developed for integration in a camera system. This combination compensates the problems of video technology like poor light or weather conditions. The addition of radar technology reduces false alarms and increases the efficiency and reliability of the safety system. In addition, the use of radar technology provides anonymous information about distance, motion, angle, direction, presence or velocity of a detected object. Furthermore, the radar system allows definition of danger zones and filtering of relevant detections.

**Raytec: VARIO2 IP Hybrid****Hybrid Network Illuminator**

Vario2 IP Hybrid is an IP-enabled Hybrid Network Illuminator and represents the latest Raytec technology integrated into a single platform. It combines 4 key technologies, namely Infra-Red, White-Light, PoE and IP connectivity into a single networked package. Incorporating Platinum Elite twin-core SMT LEDs, which are individually 200 percent more powerful than previous generation LEDs, Vario2 IP Hybrid integrates all the performance of two full size illuminators (one Infra-Red and one White-Light) into one much smaller hybrid platform. With full IP addressability, it enables instant control to respond to live events, make remote adjustments, and full integration with third party devices to automatically respond to any incident, there and then, even if your site is.

**Seagate: SkyHawk AI****Hard Drive for AI-Enabled Video Surveillance Solutions**

SkyHawk AI is a video surveillance solution specifically designed for AI-enabled applications. Built on Seagate's decade-long experience in providing video-surveillance-optimized storage solutions, the HDD provides unprecedented bandwidth and computing power to manage continuous, data-intensive workloads. SkyHawk AI is ideal for compute-intensive workloads of AI workflows. High throughput and improved caching ensure low latency and excellent random read performance to quickly locate images and provide video for analysis. This eliminates latency when exchanging and processing cloud-based data. The included ImagePerfect AI firmware reliably captures high-quality, high-fidelity video while simplifying AI-enabled NVR analysis. This ensures that the information obtained by recording is not lost.

**Panasonic: WV-ASF950****Face Recognition**

WV-ASF950 offers first class face recognition performance. A deep learning face recognition engine is implemented to realize high accuracy in face recognition. From Panasonic cameras, face data is sent as meta data to the face server, which requires less server storage than sending the pure stream. With the new deep learning engine, face recognition accuracy for people who wears sunglasses and people who look down or aside is much improved (left/right $\pm 45^\circ$, up/down $\pm 30^\circ$ angle of faces). This is realized by combining multiple deep learning technologies. It also helps to recognize faces of persons when they are young (e.g. in passports). Intelligent Auto (iA) technology enables to capture and send best face images to the servers automatically. Face data itself and communication between camera, server and client is encrypted to protect privacy, so customers can comply with GDPR.

**UTC Fire & Security: UltraSync****Smart Home App**

UltraSync is the secure internet communication solution. Offering easy connectivity for quick installation. UltraSync mobile app lets users control their UltraSync Ready products from anywhere, any time. The result is safe, secure system management all from one, easy-to-use app. Intuitive actions for end users: arm and disarm their system, Receive alarm reports via push notifications and email, Geo-fencing, manage user accounts, control Z-Wave lights, locks and thermostats, Watch live streaming video and event-based clips, create temporary user codes for visitors, check system event history, create and manage scenes. When the user's system detects a breach in security, UltraSync conducts a series of responses that allow them to take quick action: Report alarms to monitoring centers, trigger event-based video clips, notify user's mobile device via push notifications or email.

Category F

Special Category Smart Home

Hekatron: Genius Port

Smart Fire Safety

The Genius Port and the free Genius Control App will inform you of alarm, status and fault messages from all existing Genius radio systems on mobile terminals – anytime and anywhere in the world. In case of an emergency this permits you, even from a distance, to react quickly, to alarm the fire brigade, to mute detectors which have not detected any smoke, and to protect lives and material assets. With the Genius Port, Genius radio systems can be integrated in smart-home systems from Digitalstrom (from June 2018) and soon also with Smartfrog. Further cooperation partners will follow within the next months.



Johnson Controls: iotega

Wireless Security and Automation Solution

This next generation wireless security and automation solution is designed to provide smarter and safer living for homes and small businesses. With built-in, industry-leading PowerG wireless technology, iotega provides a fully encrypted security system. Discrete in design, iotega includes a vanishing touch keypad, as well as an optional 7" Wi-Fi enabled touchscreen, wireless keypad arming station and flexible software app compatibility.



Ksenia Security: auxi-H

Security & Home Automation module

auxi-H is a module used not only for Security but also for Home Automation. Through a specific jumper on board it is possible to set two operating modes: one for the complete management of motorized roller shutters (with two interlocked relay outputs), the other one for the lights management (freely configurable outputs). From scenarios configured on lares 4.0, it is possible both to open or close completely the roller shutters and to set them in four different opening positions. It is possible to manage the local switches as a classic dead man's switch and also manage its complete opening and closing with a simple double-click.



Lupus: XT3

Professional Smart Home Security System

The Lupus XT3 is an innovative system for building security, video surveillance and smart home control. Without structural changes, it effectively protects against burglary, robbery, fire, water, gas and medical emergencies. It can take control of heating, lights, shutters and electrical appliances and creates transparency, via live video connection to permanently installed cameras. It manages up to 160 sensors. With over 70 smart components, Lupus offers a large assortment. The XT3 is a professional and secure system, certified with the European quality standard EN50131 grade 2.



Telenot: FBT 250

Wireless Keypad

The wireless keypad FBT 250 is a component of our wireless alarm system Telenot DSS2. The capacitive touch-operated surface and OLED display allow for comfortable and selective management of all partitions via wireless connection. A comprehensive scope of switching functions of the FBT 250 enable controlling of smart home functions as well as components of building management systems. An RFID reader with encrypted transmission and a warning device with flexible application possibilities, such as e.g. internal alarm, are also integrated. Wireless keypad FBT 250 is battery-operated and therefore allows flexibility in choosing a comfortable mounting location. The message memory of the intruder alarm control panel can be displayed at any time.



Panasonic: 1 by multi VIC

Video-Intercom System

The new video intercom system is developed for small and middle apartments, providing wiring topology for new buildings and replacements. The system provides full peace of mind due to its wide-angle lens (horizontally 170° and vertically 110°) that helps prevent unauthorized access by expanding the field-of-view. The flexible system is expandable from 2 to 32 rooms with various monitor line-up, making sure it fits the budget and purpose of the installation. Moreover, the system features both main wiring methods, bus and star wiring. The Lobby Station pursues simplicity and ease-of-use through an elegant and relaxed design.



UTC Fire & Security: ZeroWire

Smart Home Security System

ZeroWire is a wireless security and home automation system with built-in Z-Wave gateway and WiFi certified to EN 50131 Grade 2 safety classification. With 64 zones for sensors and contacts, there are sufficient monitoring points available to monitor home, practice or smaller commercial units, no matter which type, over the outside and interior. With the help of the "UltraSync" app, the Smart Home Security system can be programmed, configured and controlled, as well as communication via push message, e-mail and SMS is available. And with built-in IP cameras, live video and recordings triggered by alarms or events can be viewed and replayed as needed.





Fire detection at this Chedi hotel must be discrete yet absolutely effective

FIRE DETECTION

High Variety

Complex Fire Detection Technology at the Chedi Andermatt Luxury Hotel

The five-star deluxe Chedi Andermatt hotel has enjoyed increasing popularity since its grand opening in December 2013 and received the ‚Gault Millau Hotel of the Year‘ award in 2017. In addition to attention to detail throughout the hotel, great attention has also been paid to protecting the luxury resort against fire hazards.

The unusual interplay of Alpine chic and Asian expression that distinguishes this hotel from others was conceived by architect Jean-Michel Gathy and bears his signature. Located in the heart of the Swiss Alps over fourteen hundred meters above sea level, the many guest rooms and suites as well as four restaurants and bars and a health club required a well thought-out fire protection concept. The building technology company Alpiq Energy Services Switzerland took on the implementation of this complex task. Their long-standing partner company Novar has extensive expertise in this field and products from the traditional Esser brand were chosen for this project.

Many Variants

A large variety of fire detectors were installed in the first stage of development due to the varying requirements and environmental parameters found in the hotel, including multi-sensor detectors and multifunctional fire detectors with integrated alarms. Almost 2,500 peripheral elements are spread across 39 rings that are connected to six servers. O²T detectors were used in the underground garages area that apply the principle of scattered light with two different measuring angles. They provide two key advantages; firstly they increase the detection of smoke significantly, and secondly they reduce the false alarm rate to

a great extent as they can reliably distinguish fire smoke from other types of smoke. Through the differentiated observation and evaluation of different smoke particles, this type of detector recognizes disturbances such as water vapor, which can occur in hotel rooms during long showers or in underground garages from exhaust emissions. In order to disturb the ambiance as little as possible, the entire ground floor is also monitored comprehensively with a total of 35 aspirating smoke systems.

Against the background of reliable fire protection measures to protect against far-reaching consequential damage as well as the increasing internationalization of guests and adaptation to

higher international security standards, the demands placed on modern alarm systems have become increasingly complex. The multifunctional IQ8Quad detector addresses this by combining detection with the optical function of a flashing light, the acoustic alert of a warning sounder and a multilingual voice alarm device, all in a single housing. The additional option of wireless operation of the detector considerably simplifies subsequent integration into an existing installation.

Clearly Stated

In an emergency situation, people seldom respond to abstract alarms or purely visual signals, but react quickly and correctly to clear voice prompts. With the IQ8Quad, targeted evacuation can start at the same time as the alert. The ability to make announcements per detector in five different languages in turn allows international visitors to a building – such as in international hotels – to be reliably alerted and led out of the danger zone.

“In our hotel, we don’t just attach great importance to our exclusive ambiance and exceptional design. The safety technology also has to meet the highest requirements in order to have a good feeling at all times,” says Christian Simmen, Director of Engineering at The Chedi Andermatt. Michele Waldeck, Head of Security at Alpiq, which is responsible for the installation, adds, “It is a reassuring feeling to be able to sit back and



IQ8Quad devices combine fire detection with visual and audible evacuation alerts

relax after the complete system has been commissioned, knowing that the complex technology will run smoothly and guarantee the safety of employees and hotel guests in the event of an incident.

CONTACT

Novar

Neuss, Germany

www.esser-systems.com

Leading trade fair for security
September 25 – 28, 2018, Essen/Germany

**SECURE YOUR
BUSINESS**

Video//Perimeter Protection//Access/Mechatronics/
Mechanics/Systems//Cyber Security/Economic Security//
Services//Fire/Intrusion/Systems//

VISIT US!



www.security-essen.de

MESSE
ESSEN



FIRE DETECTION

On Air

Taking Fire Protection to the Next Level at Slovenia's Public Broadcast Institution

RTV Slovenia is the public broadcasting institution based in the capital city, Ljubljana. It produces a wide range of informative, educational and entertainment shows that promote the Slovenian way of life and encourage cultural creativity. RTV is always looking to embrace new technology – Apollo fire detection devices were first installed there by panel partner and installer Zarja Elektronika in 1994 and it was important to the national broadcaster that upgrades would include the latest technological advances in fire detection.

Apollo Fire Detectors has been active in fire protection in Slovenia for decades, with many prestigious public buildings and institutions being protected by the company's products, including the National Gallery. „As with many multi-faceted buildings, false alarms are a major problem, causing unnecessary interference with day-to-day activities and requiring the movement of large numbers of people,” commented Boris Givi, CEO, Zarja Elektronika. „We reassured RTV that the Soteria range would not only significantly reduce false alarm incidents but also satisfy their requirements for absolute reliability and an aesthetically pleasing appearance.”

The buildings where the system upgrade took place had to remain open and accessible at all times because RTV broadcasts around the clock. Zarja Elektronika's years of experience with this working situation and its familiarity with Apollo products meant that the installation team managed the challenges faced on site with resourceful efficiency. In 1994, RTV started with 87 manual

call points, 847 optical detectors, 20 heat detectors and 10 interfaces operating the Apollo XP95 protocol but, with increased sophistication, RTV now has more than 3,800 addressable elements in place, which are controlled by 19 fire control panels. The contractor has also installed two addressable Zarja NJP-400A panels, each with four loops.

False Alarms Avoided

With Zarja Elektronika responsible for the ongoing maintenance of the fire detection system across all of RTV's buildings, from studios to transmitter centers, they have a continuous program of renewal and improvement in place. Almost 350 Apollo Soteria optical and heat detectors were installed in the latest upgrade, with 350 more due to be fitted in 2018, making a total replacement of around 2,000 devices over five years. Launched in 2015, Soteria optical detectors address two of the main causes of false alarms (dust and insects) through a brand new sensing technology called Purelight and an improved smoke entry process. The inno-

vative cone is a new sensing chamber design and an alternative to the traditional chevron chamber widely used in optical smoke detectors.

Zarja Elektronika and Apollo have been working closely on a number of major development projects. „Apollo often provides new equipment for testing on site before launch and invites us to suggest modifications. We welcome the opportunity to offer new advances in fire detection products to our clients, knowing that the commitment to research and development at Apollo is first class,” concluded Roman Radej, the engineer responsible for RTV.

CONTACT

Apollo Fire Detectors

Havant, United Kingdom

Tel.: +44 2392 492412

marketing@apollo-fire.co.uk

www.apollo-fire.co.uk

Deep Packet Inspection Engine Reduces Cost and Risk

Rohde & Schwarz has recently demonstrated its deep packet inspection (DPI) that enables cyber-security vendors to strengthen their solutions and hold off hackers. Ipoque, a Rohde & Schwarz company, provides an easy-to-integrate, scalable and customizable turnkey DPI solution. The Pace 2 DPI engine delivers comprehensive network visibility, adds IP traffic analytics capabilities to network security devices and provides granular information on applications and protocols for proper classification. The engine classifies thousands of applications and protocols, extracting content and metadata regardless of whether the protocols use advanced obfuscation, port hopping techniques or encryption, and offers metrics and heuristics from IP traffic in real time. When applied to network security solutions, developers can facilitate the secure delivery of critical applications and services.

www.ipoque.com

Rise in Global Demand for Fire Resistant Solutions



Wurster trays and hatches meet fire protection standards in fire resistance classes F30 to F90. This has enabled the company to respond to a sharp rise in demand worldwide for enhanced security and safety. In particular a rise in requests for fire-resistant products has been witnessed. Not only banks but also security firms, embassies and increasingly even public authorities have a growing need to protect their premises. Pass-throughs and hand-over units can be supplied with fire resistance up to class F90 in keeping with DIN standards EN 1363-1, EN 1364-1 and DIN EN 1634-1. They also come with certified security, underscored by the seal of approval of the materials testing institute MPA Braunschweig.

www.wurster-online.de

New Fire Division

Comelit Group is introducing a new fire division at IFSEC 2018 from 19–21 June 2018 at Excel in London. It has been created to integrate with its smart security solutions, including stylish new video door entry systems, home automation and CCTV. A range of specialist fire solutions will be unveiled, including conventional and addressable panels. In the security sector, the company will be displaying its architect-designed video doorbell, Visto, presenting its ability to connect via a home WiFi network to allow homeowners to see, hear and speak with visitors at any time, or from any location via a smart phone or tablet. The firm's Mini Handsfree Wi-Fi Monitors are presented to installers as a new internal wireless upgrade to its 2-wire Simplebus system, alongside complementing Quadra and ikall metal external door entry solutions. Each solution will be present at IFSEC 2018 alongside the company's CCTV and home automation systems.

www.comelitgroup.com

Test Set for Addressable Protocol Commissioning



Apollo Fire Detectors has launched its Apollo Test Set – a portable testing device designed to help engineers across the globe with the commissioning and fault-finding of the company's devices on sites worldwide. It can interrogate and control all the units connected to the device, either as individual units or complete circuits. With a user-friendly touch screen display, the set works on all of the company's analogue addressable protocols – XP95, Discovery and Core Protocol. The main function is to guarantee

the correct loop configuration is in place before an active control panel is installed. The device can also test the diagnostics and integrity of the loop to discover earth faults and other system weaknesses. Users can download any software updates that become available.

www.apollo-fire.co.uk

In the Spotlight at SICUR 2018

Life Safety system specialists Kentec Electronics' all-new Taktis Fire fire alarm control equipokament range was center stage on Kentec's stand at Feria de Madrid for this year's SICUR 2018 International Security Safety and Fire Exhibition from 20–23 February 2018. The international show for the fire and security sector in Spain hosted other products from the company's UL Analogue Addressable and Extinguishant Fire Control ranges alongside Spanish fire and security installers Activi Seguridad y Sistemas SL – Spain's distributor for the company. Kentec sees this biannual event as „a great opportunity to demonstrate the capacity and versatility of our products and how our partnership with Activi is delivering a wide range of fire safety solutions in some of the region's most prestigious developments.”

www.kentec.co.uk

ES Detect



“A safe decision: cutting-edge technologie for conventional applications”

Frank Gegenbauer, Master Electrician



ES Detect – the plus in safety

Intelligent, non-addressable detector:

- Drift compensation
- Maximal operating time
 - Eight years instead of five
(in accordance to DIN 14675 in Germany)
- Ready for convenient maintenance
 - Detector remains on the spur
 - Monitoring of pollution, measuring values and alarm counters
 - Storage of the data
- Large selection of detector types, including multisensor

ESSER

by Honeywell

Novar GmbH a Honeywell Company
Dieselstraße 2 · 41469 Neuss · Germany
Phone: +49 2131 40615-600 · Fax: +49 2131 40615-606
Internet: www.esser-systems.com
E-Mail: info@esser-systems.com

FIRE DETECTION

Pianissimo

Wagner's Air Sampling Smoke Detectors Disappear into the Ceiling

A visit to Hamburg's Elbe Philharmonic Hall starts with a little ticket, but not necessarily with a concert ticket. A plaza ticket is enough to visit the Philharmonic Hall, whose official opening took place in January 2017, some fifteen years and three weeks after the first pen sketch was drawn up. With its 26 floors, the building is like a high-rise apartment – and the routes through it are correspondingly long. This means that the fire protection requirements are huge.

The 360-degree outdoor terrace is freely accessible to visitors, and even the route there is impressive. A more than 80-meter long escalator known as the 'Tube' links the Philharmonic Hall's ground floor entrance to its visitor deck. This is one of the longest escalators in Western Europe and was specially developed for the concert hall by the Kone company. On arriving at the Plaza, the impressive size of the concert hall becomes apparent for the first time.

Constructed atop the former Kaispeicher A building, built between 1963 and 1966 and used as a warehouse for tea, tobacco and cocoa until the 1990s, the glass, steel and wooden complex towers 110 meters into the air. The view from the outdoor terrace is simply spectacular: sitting on the banks of the Elbe River, the Elbe Philharmonic Hall is surrounded by water on three sides, near seagulls, cruise ships and the harbor. St. Michael's Church and the Elbe bridges are close by and the Speicherstadt district is but a stone's throw away. All Hamburg's landmarks are grouped together in the surrounding area yet are highly contrasting, just like the concert hall itself that was designed by the renowned Swiss architectural firm Herzog & de Meuron.

Huge Demands on the Fire Protection Solution

This is where the experience ends for normal plaza visitors, however: a concert ticket is the only way to access the concert halls and bar areas above them with their exquisite heavily wood-featured interior designs. But this is not the case for Dennis Just, Technical Manager of the Elbe Philharmonic Hall, whose

access card grants him entrance to almost any area of the building – even behind the scenes of the Elbe Philharmonic Hall, where the Wagner Group has installed its fire protection technology.

The Elbe Philharmonic Hall uses an extensive fire protection concept comprising a wide range of systems from various companies. „The building is well and safely constructed, but has an extremely complicated and nested design“, commented 38-year-old Just, who, together with his team of 22 staff, has been responsible for technology in the Elbe Philharmonic Hall and the Laeiszhalle concert hall since 2013. With 26 floors and long routes through the building, the fire protection requirements are huge. Firstly, there are structural fire protection measures such as fire doors that prevent the entire Elbe Philharmonic Hall from having to be evacuated if a fire is detected. After all, in the case of a full house, the building would contain 4,500 visitors – not to mention several hundred employees and musicians. Secondly, the overall concept includes system-based fire protection solutions, and this is where the Wagner Group and its solution come in.

The Titanus Top-Sens air sampling smoke detectors in the Silent version use active fire detection to protect around 40 rooms, including the showpiece: The Great Hall. With its acoustically sophisticated inner shell made of gypsum fiberboards ('white skin') and its freely suspended structure within the building, the concert hall is truly unique. „If the Queen Mary toots its horn out on the Elbe, you don't hear it in the Hall“, Just explained.

Sampling Technology

Titanus units were also installed in the Little Hall, foyer areas and technology areas. „Smoke detection is an extremely important matter for us“, commented the Technical Manager, who was heavily involved in the selection of the fire protection systems during the long project and construction phase. „Air sampling smoke detectors are an ideal solution for the halls. To date, the Wagner Group’s product has worked error-free“, stated Just, who also believes that no longer using point-type detectors in the exquisite foyer areas was „exactly the right decision“. Unlike point-type detectors, the sampling points of the Titanus units can be almost invisibly integrated in walls and ceilings – as per one of the architectural firm’s mandatory stipulations. When speaking to Dennis Just, his passion for fire protection and safety was extremely clear – not only because this is part of his job as Technical Manager, but also because finding the best solution for his areas of responsibility, and therefore also the Elbe Philharmonic Hall, is a matter close to his heart.

Dual Detection

The requirement to use Titanus air sampling smoke detectors for earliest smoke detection resulted from both the structural conditions and the architectural firm’s specifications that the detectors had to be installed almost invisibly. As a result, air sampling smoke detectors were the only viable option for the Great Hall as this has a height of 25 meters. Together with heat sensor cables in the floor of the auditorium, the Titanus units control a high-pressure mist extinguishing system for fire suppression. This means that if the system detects a fire, the extinguishing system’s sprinkler heads are pre-flooded; until then they are dry. If the heat cables also detect a rise in temperature in the room, the extinguishing system triggers.

The high-pressure mist extinguishing system therefore uses a two-fold safety mechanism. After all, damage to the permanently installed organ and the ‘white skin’ responsible for the good acoustics in the hall is inevitable in the case of water contact. As it is not only the Elbe Philharmonic Hall’s structural design that is complex, but also its floor plan and the interlinking systems within the scope of the fire protection concept, the fire brigade responsible for the concert hall has to conduct regular emergency drills. They are assisted by clear maps and information about the exact position of the individual components – in this case even the individual air sampling points of the Titanus system.

CONTACT

Wagner Group

Langenhagen, Germany
 Tel.: +49 511 97 383 0
 info@wagnergroup.com
 www.wagnergroup.com



Dennis Just, Technical Manager at Hamburg’s Elbe Philharmonic Hall with some of Wagner’s air sampling technology

MOBILEKEY

Your access to the **KEYLESS WORLD**

© www.simons-voss.de #keyless

Simons+Voss
technologies

The new Mobotix board: Thomas Lausten (CEO); Klaus Kiener, CFO since April 2016, and Hartmut Sprave (CTO), who joins Mobotix with a strong background in software and hardware development



COVER STORY

Beyond Human Vision

Mobotix Opens Up for Partnerships and Gets Fit for the Future

Since the start of Mobotix in 2000 the company has built a great reputation for developing innovative video systems based on German engineering. The company has always stood out by doing things differently in the market with their proprietary systems. The limitation to their proprietary system was the reason why the company struggled recently to stay ahead of the pack in a market with fierce competition. During the last 12 months, under the leadership of their new CEO Thomas Lausten, Mobotix has taken measures to restructure the company's operative units and its organization and to transform the company. At a visit to Mobotix's headquarter in Langmeil, Germany, GIT SECURITY had the opportunity to talk to their CEO Thomas Lausten, Hartmut Sprave (CTO), Christiane Kampling (Head of Marketing) and Thomas Dieregsweller, Head of Product Management, about Mobotix's plans for the future.

GIT SECURITY: Mr. Lausten, can you summarize your first year as the CEO of Mobotix in a few sentences?

Thomas Lausten: The last year has been an extremely intense time for us. I have met most of our 400 colleagues and partners globally, including the Americas, the Middle East and Australia. It was very inspiring and encouraging to see the passion of the people working for our company and to develop new plans together with our partners. Our largest Global Partner Conference ever in Langmeil was a highlight and just recently our Innovation Summit Europe in Valencia with almost 200 flagship customers and alliance and channel partners reassured me that we are on the right way to get fit for the future.

Can you outline the overall strategy for Mobotix and let us know how far you are on this way?

Thomas Lausten: We don't see ourselves as a classic manufacturer of cameras. In terms of IoT, our cameras are computers with lenses, working intelligently and with embedded storage capacities. We distinctly characterize Mobotix as a pioneering global company that is developing solutions based on the German way of engineering and approaching things as this is appreciated as being particularly innovative and of high quality. We stay with our core values and with our DNA, including our proprietary software and chips and the MxPEG Video Codec for example. It was specially developed for security applications and has

enormous advantages in times of cyberattacks and cyber threats. We will keep our original DNA but at the same time we open the company up for partners and third-party integration and we expand our scope to complementary products and a consulting and software offering.

Mr. Sprave, as the new Chief Technology Officer, can you explain what the new more open approach means for Mobotix?

Hartmut Sprave: The strategy means that we move from a closed Mobotix product universe to opening up our systems. This will enable us to enter new markets and our partners can react more flexibly to specific needs and cover a wider range of projects with our systems. We now include the H.264/ONVIF

industry standard in our products so they can fulfil customer needs and it is possible to use our cameras within third-party video management systems and integrate them more easily in projects. In the future as part of our product development we will develop interfaces together with our integration partners to make integration projects easier and to unlock the possibilities artificial intelligence offers.

The actual Mobotix camera portfolio includes indoor and outdoor camera plus thermal cameras but is far from complete. Do you plan to extend your product range?

Thomas Dieregsweiler: Yes, we are reacting to the demand from integrators and installers who often have asked for standard products when it comes to tenders where the specifications are outside of our product range. Starting in July we will have a range of best-of-breed standard components including products with moving parts like PTZ cameras, bullet and fixed-dome cameras with IR sensors and WDR features. While our core camera offering will stay the M16 series, this supplementing product range will come under the name of Mobotix Move. The first cameras we will offer under the Mobotix Move brand are bullet and fixed-dome cameras with motorized vari-focal lenses and two PTZ cameras with 30x and 40x optical zoom lenses.

Are the new Mobotix Move products manufactured in Germany?

Thomas Dieregsweiler: No, we specify, test and qualify and fully support all Mobotix Move products, but they are manufactured abroad. Our customers can be sure that we don't lose our product DNA and all products branded Mobotix Move will be delivered and supported according to the same high-quality standards our customers Mobotix products are known for.

You mentioned cyber security. What advantage do you think your products have here compared to others and isn't it a risk to open up your systems for third-party integration?

Thomas Lausten: Cyber security has become a concern changing the market's approach to video technology. Customers are asking: Where are the pictures going? Who has access to them? Mobotix cameras are very well prepared in this respect. We see many institutions replacing their products and trust in products that are constructed under German laws. We have developed the Cactus Concept that includes our measurements to increase cyber security. One part is our Cyber Protection Guide, a guideline that describes how administrators can implement secure system configurations. It explains what you need to do in order to protect your entire video infrastructure against third-party access. Opening up our proprietary technology towards other companies' systems doesn't mean that there aren't any boundaries necessary. Our proprietary software and chips remain important – they are of fundamental impor-



Christiane Kampling, the new Head of Marketing joins Mobotix after positions as Global Head of Marketing Communication at Covestro and Marketing Director at Dell in Frankfurt

tance for secure and reliable systems. This is, after all, the great heritage of Dr. Ralf Hinkel and his ideas.

Hartmut Sprave: On the technical side, to have control of our own SoC gives us an advantage when it comes to cyber security but also when we work on interface development. It is not only easier for us to develop interfaces for our own software and for the integration with third-party software and VMS, but also helps us to create artificial intelligence solutions.

What are your plans on artificial intelligence?

Hartmut Sprave: We want to increase the intelligence in the camera even further, meaning our decentralized concept, and to implement even more functionality directly into the camera. We now have a complete processor core available for this. Future software updates will enable it to perform totally new functions, such as recognizing license plates, faces or voices. There are many more ways in which we can use this resource. The additional processing power will mainly be used for the implementation of added value and additional services. For the AI development we can use Konica Minolta's resources and we must establish a cooperation with the University of Kaiserslautern close to our headquarter.

Thomas Dieregsweiler: The decentralized intelligence in our camera system is crucial for AI and makes it easier for our products to communicate with other sensors and devices in the network to help achieve solutions "beyond human vision." These solutions include reliably detecting threats by combining various sensor technologies, as well as independently initiating actions to defend against such threats. Meanwhile, the state-of-the-art data analysis function, located on the camera itself, helps users increase process efficiency and develop innovative business models.

Konica Minolta is the majority shareholder of Mobotix. What synergies can we expect in the future?



Thomas Dieregsweiler (Head of Product Management) joined Mobotix June 2017 after working for Vanderbilt International and Siemens

Thomas Lausten: Mobotix and Konica Minolta have just entered into a technology development agreement in which Mobotix's hardware and software technologies will be further developed. Konica Minolta will allocate an initial amount of 1.5 million Euro to our technology development. In the context of a distribution partnership, Konica Minolta has already deployed Mobotix cameras in Japan, China and France at production facilities, distribution centers and in vehicles for security and surveillance, production process monitoring and other applications. An additional benefit is that Konica Minolta has also assigned significant sales staff to focus on promoting the use of Mobotix technology through end-customers and their channel partners. The long-term perspective for further developments is very positive for us. We are still working independently and we have already started to realize many of our new ideas.

With the new strategy integrators and end-users that will play a bigger role in the future. How does this and the cooperation with partners affect the marketing?

Christiane Kampling: We do not sell directly to end-users but they will play a vital role for us. We want to use their feedback not only for our product development but also to help our partners. Co-marketing with our partners will be a valuable tool for us in the future. And by addressing the end-users we hope to see a pull from the market through our marketing. Our main goal is to show our value proposition and the advantages to work with Mobotix to all market participants and through the whole customer journey.

CONTACT

Mobotix

Langmeil, Germany
Tel.: +49 6302 9816 190
info@mobotix.com
www.mobotix.com



VIDEO SURVEILLANCE

Winds of Change

Safety and Security in the Era of the Internet of Things

Shopping for analogue video cameras is a real challenge today. Virtually every camera on the market is digital, be it from traditional vendors or from newcomers who never developed analogue in the first place. And while cameras have clearly led the trend towards digitization and standards-based networking in the security industry, door controllers, fire panels, public address and intrusion detection systems were not slow to follow. Digitization has been the most dramatic change in the security industry in more than a century, but the journey has only just begun. Enter the Internet of Things (IoT). Dr. Aleksandar Mitrovic of Bosch Building Technologies explains what lies ahead for manufacturers and service providers.

Connected and centrally managed security solutions are just too promising, enabling higher security levels through event correlation as well as faster and more targeted incident response. Using existing IP networks instead of proprietary communications links adds the opportunity to lower both investments and operating expenses as does central management of the entire connected solution. While most security solutions consist of networked subsystems today, the majority are still a closed solution with maybe a few external connections for remote monitoring, remote maintenance and alarming purposes. The IoT will dramatically change this situation, and it has already started to do so.

The Good and the Bad

With everything being connected to everything, new applications will arise and new risks will have to be addressed. Already today we see cloud security services being offered, which can be very efficient for small and even for larger enterprises. On the other hand we have recently seen how malware like Mirai and IoT Reaper can hold internet enabled cameras hostage and add them to a botnet designed to perform massive Distributed Denial of Service (DDoS) attacks against individual organizations or entire networks.

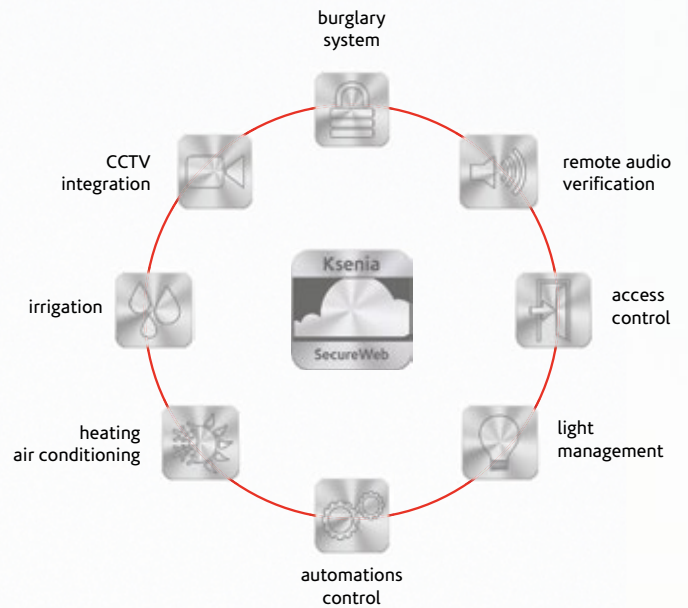
Just as it does in other industries, the Internet of Things (IoT) is rapidly transforming the way vendors of safety and security systems do business.

While today most customers look at connectivity as an enabler of the IoT, Ethernet connectors and IP stacks are really just a prerequisite – IoT is much more than just connected systems or a central management system. As Dr. Aleksandar Mitrovic, Senior Vice President Engineering at Bosch Security Systems, puts it, IoT will in essence change the entire business model in the industry, with vendors transforming from hardware suppliers to being service providers.

“While hardware quality and features are the main differentiators today, within a couple of years we will see software-based features and analytics becoming equally important”, says Dr. Mitrovic. „Software will enable new applications, and arti-

The most Innovative IoT Solution for Security and Home & Building Automation

lares 4.0



It can be programmed and managed from any mobile terminal

lares 4.0 - 16:

16 IN + 16 OUT - 6 partitions - native with Ethernet interface.
Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).
Compliant EN 50131-GRADE 3.

lares 4.0 - 40:

40 IN + 40 OUT - 12 partitions - native with Ethernet interface.
Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).
Compliant EN 50131-GRADE 3.

lares 4.0 - 40 wls:

40 IN + 40 OUT - 12 partitions - on board 868 Mhz bi-directional
Wireless interface (DPMS - Dynamic Power Management System)
and 2 KS-BUS Interfaces.
Dedicated Installer App (Ksenia Pro) and User App (lares 4.0).
Compliant EN 50131-GRADE 3

lares 4.0 - 140 wls:

up to 140 IN +140 OUT - 20 partitions - on board 868 MHz
bi-directional Ethernet and wireless interface (DPMS - Dynamic
Power Management System technology) and 2 KS-BUS. Dedicated
Installer App (Ksenia Pro) and User App (lares 4.0).
Compliant EN 50131-GRADE 3.

lares 4.0 - 644+ wls (and even more for specific project):

644 IN + 644 OUT - 30 partitions - on board 868 MHz bi-directional
Ethernet and wireless interface (DPMS - Dynamic Power
Management System technology) and 2 KS-BUS. Dedicated Installer
App (Ksenia Pro) and User App (lares 4.0).
Compliant EN 50131-GRADE 3.

ficial intelligence will allow our customers to gain deep insight into their business processes and thus to improve them. We are at the beginning here, but services like remote monitoring are already on the verge of becoming mainstream, and the first applications are publicly available that go beyond security – such as Bosch's in-store analytics solution for retailers."

Three Steps Towards IoT

From today's perspective, embracing the IoT is actually a three-step endeavor for traditional vendors of security solutions. The first step is adding connectivity to the products, and most vendors have gone a long way here. Connectivity, however, does not necessarily mean that each and every product needs to be equipped with an Ethernet or WiFi interface and a new software stack. While cameras benefit greatly from this kind of connectivity, other sensors such as fire and intrusion detectors can still do without, given they are suitably connected to IP enabled controllers, such as via an LSN (Local Security Network).

While the first step to IoT – connectivity – is mainly an engineering task which is well understood, the second becomes a bit trickier. It is about identifying business opportunities, developing applications and bringing meaningful data from the security systems into the back end to enable and support them. A good example for this could be a remote maintenance application that is fed by real time data such as the pollution level of fire detectors and can thus predict a failure before it actually occurs. If a similar application has access to all health data of a security solution and is based on appropriate algorithms, it can calculate optimized maintenance windows and reduce the number of service calls and onsite assignments. A number of such mostly cloud-based services are currently available from a variety of vendors, but there is still a long way to go to reveal the full potential of remote services.

In the third step, IoT finally opens up a completely new world for vendors of security systems. In addition to acting as a hardware vendor and being focused on real time and/or statistical data in the cloud back end, they can – and probably will have to – transform into service providers and develop a wide range of applications that can go way beyond security, with data analytics being the main enabler. Applications such as people tracking or crowd detection can still be used for safety and security purposes, but we will start to see completely new business applications based on data analysis – mainly in the retail space today, but others will certainly follow.

Most vendors sell a lot of their hardware today without even knowing which end customer their products are going to or in which application they will be used. Bosch's Dr. Mitrovic predicts: "In an IoT world, we will not only know where our products have been installed; our customers will also be able to rely on us when it comes to monitoring, managing and upgrading products across the entire lifecycle. They will also have the option to

benefit from our cloud-based analytics capabilities as an enabler of advanced business applications." The windfall profit of such a development will also be increased customer loyalty, given that privacy and data security issues are properly addressed by every vendor.

New Opportunities Come With New Challenges

So there will be lots of new business opportunities, and this is obviously good news for the established vendors. But every coin has two sides, and their challenge will be to maintain a leadership position while new players enter the market. In the telecommunications sector, the advent of Voice over IP has dramatically shown how fast newcomers can get a strong foothold in times of rapid change, while some of the former market leaders simply disappeared – even those with multi-billion businesses. As major parts of the hardware will become standards-based and more of a commodity over the next years, agile new players will be able to quickly leverage intelligent technologies and offer advanced services without even caring about the underlying hardware. This is why it will be essential for the established vendors to realize that IoT is not just a new technology that you introduce a year sooner or later than your competitor. It is actually a complete paradigm shift that will entirely change the market.

While transforming from hardware vendors to service providers, two things will be essential for every player in the security industry: data and analytics. Data are obviously the foundation of next-generation services, as can easily be seen when you look at Google, Facebook and the like. But without sophisticated analysis it will be hard, if not impossible, to leverage that data and offer customers a real benefit. This is the prime reason why Bosch includes video analytics capabilities as a built-in standard in the majority of its network camera portfolio today, as Dr. Mitrovic points out.

"However, you cannot rely on the sensors alone to offer such capabilities", says the Bosch expert, pointing at fire detectors or intrusion detection sensors. „Here you will have to implement analytics in the back-end, which will usually be cloud-based. And even with intelligent cameras, new applications will depend on correlated information from multiple devices, again requiring additional analytics in the cloud."

Room for Innovation

Data analysis opens up a wide range of new applications, and thus business opportunities, for safety and security vendors alike. Again, video-based applications such as movement analysis or crowd detection come into mind first, but think what you can do with real-life data from access control or fire detection. Predictive maintenance, based on continuous health monitoring, can save customers real money and avoid outages, but such data can also be used for applications way beyond security. Usage data from access control systems and temperature information from fire detectors

can help to optimize HVAC (Heating, Ventilation, Air Conditioning) operations and energy consumption, while video data may be perfectly suited to improve store or even airport layouts.

After introducing connectivity to our products, we are now in the process of digitizing business processes around our products, such as those described above. The next step will be to create high value ecosystems across manufacturers. „For Bosch, IoT goes beyond connectivity only. Our breadth of technology expertise in numerous fields puts us in a good position to foster cross-domain ecosystems and to operate cross-application ecosystems," Mitrovic said. „We are working together with numerous industry partners on an open, cross-domain, cross-manufacturer IoT ecosystem. The details of this platform will be covered in one of our next publications."

Privacy and Data Security Must Be Addressed

Collecting, storing and processing customer data will thus be one of the main pillars of the safety and security vendor's future business. This development will open up new opportunities, but it will also come with a new set of challenges. Privacy and data security are major concerns in the Internet of Things, and vendors who cannot guarantee that their customers' data are safe may easily disappear. Specifically, the EU's General Data Protection Regulation has set new and very strict standards here as of May 2018, with huge penalties of up to 20 million Euros or 4 % of global annual revenues arising for non-compliance.

This means that all cloud-based services will have to be secured with best-of-breed technology and that privacy and data security need to become design principles of any connected product. Hijacking of surveillance cameras, as has happened in the recent past with consumer products, is simply not an option in serious security applications. "Our mission is to use our customers' data to their benefit alone", explains Bosch's Dr. Mitrovic. "This is our ruling IoT principle, and it is a corporate policy binding all of Bosch's business areas, be it automotive, safety and security, home appliances or power tools. As we strive to anchor IoT in our DNA, the privacy and security of customer data will always be our top priority."



Aleksandar Mitrovic
– Senior Vice President Engineering,
Bosch Building Technologies

CONTACT

Bosch Security Systems
Grasbrunn, Germany
Tel.: +49 89 6290 0
www.boschsecurity.com

Easy-to-integrate Wireless Access Control

The new Aperio H100 packs the power and flexibility of wireless access control into one slim door handle. With easy retrofitting to almost any interior door and comprehensive RFID compatibility including iCLASS/ISO14443B, iCLASS SE, Seos, MIFARE Classic, Plus/EV1 and DESFire SE, the new cost-effective handle integrates with a vast range of third-party systems. Ideal for indoor office and facility doors, this model can work either within an online access control system or offline standalone. A battery fits inside the slim handle to gel with any contemporary door style. The Aperio H100 is easy to retrofit on existing doors, with no drilling and no wiring required, and any existing mechanical cylinder can still be used. The left or right-hand handle fits almost any interior door between 35mm and 80mm thick and is compatible with most common European (DIN) and Scandinavian mortise locks in wooden, steel, tubular frame or glass doors with standard lock cases.



www.assaabloy.com

Discrete 360° Panoramic Fish-Eye Camera

The Dallmeier MDF5400HD-DN is a network camera with a fish-eye lens. The high resolution of the sensor in conjunction with the latest encoder technology and sophisticated image processing together deliver image recording with 8 megapixel resolution at up to 25/30 fps. This camera is therefore well suited when an entire room has to be captured in detail with no blind spots and in real time. The rectified display of the live image and recordings from the camera is supported by a digital PTZ function from any workstation in the Semsy Video Management System. Besides PTZ, the viewing client also supports the display of one rectified 360° panoramic view or two 180° views of half the room each. The fish-eye camera consists of one ultra-compact sensor housing designed for unobtrusive fitting in suspended ceilings. It can be installed in extremely small spaces together with the separate encoder housing and operated with an external power supply or with PoE Class 0.



www.dallmeier.com

Highly Durable Lighting for Extreme Environments

All Raytec Vario2 Extreme illuminators are designed to provide extreme durability and high-performance illumination. Sometimes video surveillance needs to be installed in an extremely harsh environment, whether that is extremes of temperature, salinity, humidity, vibration or impact resistance. The Extreme illuminators are designed to support video surveillance systems operating in the most challenging environments. With a wide operating temperature range of -50° to +75°C (-58° to 167°F), they are rated IP67, IK09, Extreme Salinity, Extreme Humidity and Extreme Vibration. The illuminators use Platinum Elite SMT LED technology to deliver high power and long illumination distances. They incorporate advanced security features, an interchangeable lens system and hot-spot reduction technology to improve the performance of surveillance systems at night at distances up to 250m (820ft).



www.rayteccctv.com

www.GIT-SECURITY.com

Plug and Play Video Security Solution

Dallmeier offers Videonetbox 3 for small and medium-sized businesses (SMBs), where it is particularly important that video security solutions are easy to install and smooth to operate. The device can be configured quickly and simply as a complete video security solution for up to 16 HD video streams. It combines the SMAVIA recording and analysis software with compact, fanless, energy-efficient server hardware. Comprehensive analysis and operating functions ensure that the customer's security objectives are fulfilled even when setting up complex security solutions. The "plug-and-play" approach and low power consumption not exceeding 15 Watts reduce cost and complexity. Customers can also integrate cameras from third party manufacturers via ONVIF. Videonetbox 3 supports up to 16 HD video streams with a frame rate of up to 30 fps. Two hard disk bays provide up to 4 TB storage capacity.

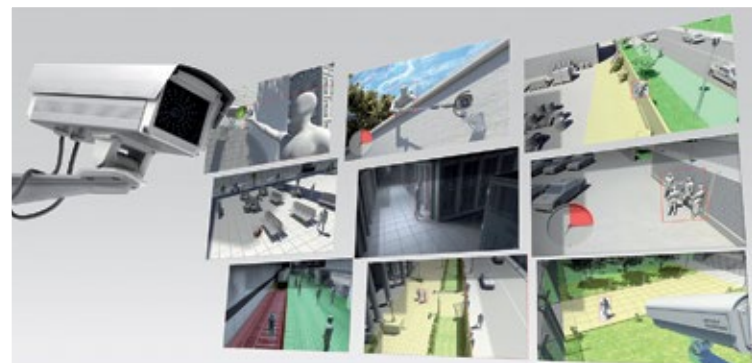


www.dallmeier.com

Remote PIN Administration

The new 'Online' PIN code keyboard with an integrated network connection for Mobilekey can not only be programmed via the network but, as from Q3/2018, the PINs can also be changed and managed online. Entering one of three user PINs consisting of a 4 to 8-digit code triggers the remote opening of a networked locking device. The keyboard for indoor and outdoor use (IP 65) is cordless and battery-powered with an extremely long battery life (up to 12 years d-by). Integration of the keyboard is achieved by adding a new key, as with the current keyboard or directly via the usual network administration process.

www.simons-voss.com



IPS VideoAnalytics are intelligent, software-based analytics modules operated on servers or cameras for automatic detection of security related objects or events in video images.

- Free choice between edge-based or server-based video analytics
- Various video analytics available for different applications
- Intuitive configuration and operation with state-of-the-art webtools
- Compatible with current video management systems
- iLIDS certified for critical infrastructure



Visit us at Hikvision booth D300



Securiton GmbH
IPS Intelligent Video Analytics
www.ips-analytics.com



Intelligent Video Analytics



Sanjit Bardhan, Vice President, Europe, Middle East, Africa and India (EMEAI) explains the new multisensor camera to Dr. Heiko Baumgartner

VIDEO SURVEILLANCE

New Shores

GIT SECURITY's Interview with Arecont Vision on their Portfolio Shift

Known as a pioneer in the field of multisensor and megapixel cameras, Arecont just recently announced important changes in the executive leadership team to better position the company for continued growth. At intersec and after ISC West GIT SECURITY had the opportunity to talk to Raul Calderon, Chief Operating Officer and General Manager of Arecont Vision and Sanjit Bardhan, Vice President, Europe, Middle East, Africa and India (EMEAI). Now with the announcement of the Contera ranges, Arecont Vision takes the next big step on the product side.

GIT SECURITY: Can you elaborate on what products people can expect from the Contera ranges?

Raul Calderon: In recent years with the continued consolidation of VMS, camera, and access control companies into the single entities, the market has changed dramatically from when Arecont Vision first led the way in megapixel video. As part of this change, many of our largest and longest customers have been asking us to deliver beyond our traditional product lineup. This includes requests for an Arecont Vision VMS, others for cloud access to video from our cameras and independent of their traditional VMS choice, and still, others have sought Arecont Vision recording platforms. Contera is our first initiative to address those requests.

Sanjit Bardhan: Technology partnerships remain very important to our overall strategy, ranging from video management systems through to NVRs, servers, storage, analytics, cybersecurity, and network infrastructure products. We now also offer an entire Arecont Vision platform – the Contera Total Video Surveillance Solution. This suite of products consists of our familiar Mega camera families as well as our first Contera single and multi-sensor IP megapixel cameras. We have also added the ConteraVMS, ConteraWS web services, and ConteraCMR cloud managed recorders and NVRs to create an entire answer to customer needs.

Customers can now choose among Arecont Vision cameras, VMS software, or our range of video recorders, either as a complete Arecont Vision solution or using any of those Arecont Vision compo-

nents with the proven products they already buy from our many technology partners.

What are the technology advancements of the new Contera cameras?

Raul Calderon: Contera camera specifications were defined by Arecont Vision to complement our existing Mega series of megapixel cameras. For those customers who are looking for even more affordability without sacrificing product quality and leveraging proven Arecont Vision design skills, we have announced our new Contera IP camera series.

Sanjit Bardhan: Contera cameras utilize the very latest SoC (system on a chip) architecture and the latest digital image sensors. All Contera cameras



Raul Calderon, Chief Operating Officer and General Manager of Arecont Vision



Sanjit Bardhan, Vice President, Europe, Middle East, Africa and India (EMEA)

are able to deliver very fast sustained frame rates (up to 30 fps in both single and multi-sensor models), outstanding image quality in both day and night conditions with Enhanced WDR (up to 120db) and NightView color low light technology, integrated IR illuminators, H.265/SNAPstream+ bandwidth reduction technology, and ONVIF S & G compliance.

Especially the VMS and the solution part of Contera is a shift in your portfolio. Can you comment on the expansion and the shift?

Sanjit Bardhan: We have customers who don't have a preferred VMS and many have asked for an Arecont Vision solution that would make the absolute most out of integration with our cameras. Arecont Vision decided that if we were going to make such a fundamental shift in our strategy by offering a VMS, then it needed to be as leading edge as our cameras have always been. We were very pleased after a long and exhaustive search to have found a development partner here in the United States that is as committed to technology leadership as Arecont Vision. Together we built the ConteraVMS, and the integral ConteraWS component of the solution, all with Made in USA quality and advanced capabilities.

Raul Calderon: Only a few VMS were designed to leveraging the cloud right from the start. Those that did were primarily cloud-based solutions, with a less capable platform for local recording. With ConteraWS, a local administrator is not required, nor is any local coding needed. The entire system is securely managed over the cloud. That reduces complexity and increases ROI with fewer operational personnel required. Cybersecurity is delivered without requiring any open inbound ports, and by leveraging multi-factor identification, NIST-

compliant data encryption, and transport layer security. A user or administrator is able to connect from anywhere using a choice of fully-featured thick client, mobile apps, or any popular web browser. Video of interest can be easily uploaded to the cloud, eliminating bandwidth concerns, and providing easy sharing. The system also provides full remote monitoring.

Was the newly employed Executive Leadership Team involved in these changes or was this decision made already before?

Sanjit Bardhan: Arecont Vision began rethinking our business in early 2017, and by the second half of the year we had begun making many changes to our operations and strategy. As you mentioned, we overhauled our entire executive team, at the same time as we modified our sales model, regions, and territories around the world while enhancing our sales partnerships with distributors and systems integrators.

Raul Calderon: The executive team then focused on our product portfolio, and moved several product initiatives that had been on the back burner to the forefront of our development efforts. The result is our initial portfolio of Contera products.

Can you comment on how you expect to exploit other markets or address customers' needs with the expansion of your product ranges?

Sanjit Bardhan: While Arecont Vision has been making our operational and product changes, we have also been increasing our focus on vertical market solutions. The Contera family of products and our Total Video Surveillance Solution allow the company to move past our core, traditional

business as an edge device as part of an overall solution into offering products that address more customer requirements as a complete solution.

Raul Calderon: We previously relied on our Technology Partners around the globe to provide the solution aspect of the project. That will still be the case when the customer opts for a partner's VMS or other product instead of the comparable Contera offering. In either case, we will focus on delivering the best solution to address the customers' requirements with the Arecont Vision products that make up the selected solution.

Is there more that we can expect from Arecont in 2018?

Raul Calderon: Arecont Vision has rolled out the first products of our Contera family, and the company expects that other operational changes to support our enhanced product mix will be complete by the end of 2018. Best of all, the new Contera products complement and enhance our existing Mega product lines, and will benefit our customers greatly as a complete product portfolio. Arecont Vision is no longer a camera company; we are a total video solution manufacturer and vendor, building on our camera leadership heritage. We expect many of our most innovative technologies to appear in the Mega family first, in many cases before anyone else in the camera market is even thinking of those features and capabilities.

CONTACT

Arecont Vision

Glendale, USA

Tel.: +1 818 9370485

www.arecontvision.com



SECURITY FOR BANKING

Bank Robbing – A Dying Profession

Hikvision's Security Solutions for the Banking Sector

Everyone has a favorite heist film, whether it's a traditional 'shoot; em up' like 'Bonnie and Clyde', or something a bit more hi-tech, like "Ocean's 11" they're compelling viewing. However, more often than not, the audience sympathies are with the thieves. Of course, in reality, bank robberies cause a lot of damage, stress and injury, let alone the financial losses – this also rings true for ATM robberies/attacks. Hikvision has all kinds of state-of-the-art technology to provide a full security solution for the banking industry, from the ATM in the street to the vault deep within the bank's walls.

It's not just in security where banks are exploring AI and the use of technology to gain an edge. According to the European Banking Federation, banks are projected to spend in excess of €62 billion on IT in 2017. There are a number of priorities for banks. The most obvious ones are securing customers, employees and assets, but there are also considerations like collecting reliable video clips for investigation, intelligence to help them make business decisions and streamlining processes to manage all of their branches

effectively. In the end, like all business, they are also looking to increase customer satisfaction too. The development of AI and surveillance technology gives banks more flexibility than ever before to build an interesting future, and this has scope across the entire bank.

Before You Step In

The ATM is a place where theft, robbery and defrauding are high risks. They are in full view, mostly outside and have become a central part of our

lives. Few people go inside a bank branch any more to withdraw money – we all go to the ATMs. Close shot, HD pinhole covert cameras can provide different views from dual lenses. Fisheye cameras can provide monitoring and smart behavior analysis, with IR giving good visibility, even in low or zero light environments. Data from these cameras can provide transaction data overlays, which can give evidence to settle any customer disputes.

But that's not all – smart technologies can see if a faced is 'masked', for example, which could

THE GLOBAL LEADER >>>

- CONTROL CONSOLES
- FURNITURE SOLUTIONS
- & MORE



STAND
F202

IFSEC
INTERNATIONAL

19-21 JUNE 2018
EXCEL LONDON UK

WELS⁴

Download our FREE design software: winsted.com/WELS

WEB: winsted.com • EMAIL: info@winsted.co.uk • TEL: 44 (0)1527 833 714



High-resolution cameras fitted at counters can help to resolve disputes

raise a red flag; cameras can provide alarms if something is stuck to the ATM screen or if someone tries to install a scanner. They can even tell if there are two faces in view – which could be an indication that someone is trying to steal a PIN.

The Front Door and Lobby

Banks need to be aware of who is coming in and going out – the starting point of monitoring. Clarity is important here, especially since the environment could lead to strong back lighting on a bright day when the light behind the person coming in is a lot stronger than the ambient light inside. This is where WDR-enabled cameras come in, with the technology rendering a crystal clear image even in this environment. Super WDR can reach up to 140db, making faces clearly visible.

It's also useful for banks to know the footfall numbers of people coming in to help with business decisions. A People Counting camera at the entrance takes care of that, with smart technology able to distinguish individuals, so they're only counted once, ensuring an accurate count. With a busy bank having large numbers of people through the doors every day, it could be useful to be able to identify them. Facial recognition technology can, of course, be used for security – to be able to identify blacklisted criminals, for example. But it can also be used to help with customer service. If a VIP client is identified coming through the door, for example, a certain manager could be alerted and staff trained to respond in certain ways to make the visit a smooth one.

At the Counter

The main day-to-day activities of the bank happen at the counters. Counter transactions need to be recorded clearly to solve any disputes. HD cam-

eras can give 4K resolution, and Monovu dual lens cameras are specifically designed to provide good images where a bilateral close up is needed. When recordings are clear, both counter staff and customers are protected should anything be disputed. Of course, the cameras give close, detailed images available for general security too.

Security Deep in the Vault

In the depths of the inner bank lies the vault – usually the first priority for security in any bank. The vault needs constant surveillance and daily monitoring and because they are often in low light areas, ultra low-light cameras like Darkfighter are really useful to be able to monitor and record crystal clear images even in the dead of night. When the security around the vault needs to step up, there are facial recognition options too, delivered by a Hikvision Deepinview camera. If the camera is connected to an access control system, it could literally be that only people whose face is stored on the white list can enter. Often, access corridors and areas close to the vault will be covered by cameras too, giving a full overview if a person's movements need to be tracked through the building. VCAs can also be set up to alert operators if a person ventures beyond a certain point – useful to prevent non-authorized persons from entering more sensitive areas.

The place that few people see is the hub of all of the security activity. Feeds from all of the cameras can be managed, monitored and stored using custom-designed equipment in the Security Center Security centers can look like something out of NASA, with video walls giving operators direct access to whichever camera feed is of interest. Deepinmind NVRs store and help analyze the data and are powerful allies to the security staff. These

centers can take the input from different branches too, streamlining security efforts and giving fuller visibility of the whole network. A large number of channels can be brought together using an iVMS software, like Hikcentral, to simplify security processes. Users can also access the surveillance data in different ways; via a laptop or mobile phone, for example. This makes the system very flexible and able to meet modern security demands.

Technology is Evolving with Banking

With banks evolving and offering more and more services to their customers, the security challenges are also changing. They need to be constantly aware of who is in their building and to monitor all activities – from the ATM outside through the main lobby and banking counters to the vault itself. And bringing all of this data together becomes more important too because it provides valuable information to help make business decisions. That's when surveillance starts to add a lot more value – helping to serve customers and to improve the experience they have when using the bank.

Of course, the likelihood of most of the famous heists in film history actually being pulled off becomes very slim in the face of the smart new technologies available to monitor and secure our banks. So those of us who want to root for the villains will have to make do with the movies.

CONTACT

Hikvision Europe

Hoofddorp, The Netherlands
Tel.: +31 23 554 277 0
marketing.eu@hikvision.com
www.hikvision.com

Serial Data to Ethernet Converter

Comnet, a USA-based manufacturer of fiber optic transmission and networking equipment, has introduced a serial data to Ethernet terminal server. It takes RS232, RS422 and RS485 serial data, converts it to IP, transports it over an Ethernet network and converts it back at its destination, providing control of remote hardware as if it were connected directly to a PC COM port. The devices include 2 serial data input/output ports, and three Ethernet ports, two TX and one SFP. Serial data appearing on either of the two serial data ports is converted to Ethernet and can be transmitted to either the SFP or RJ45 ports, permitting the unit to be simultaneously used as a media converter and a terminal server. It also allows local and remote access to occur at the same time and can convert copper transmission media to optical fiber. The CNFE3DOE2 is major revision of the original terminal server introduced a few years ago.



www.comnet.net

Control Room Furniture

Control room furniture manufacturer Winsted is unveiling a futuristic new console, the Prestige Wave. Designed and constructed specifically for today's control room technology, the sleek, ergonomically designed console is the latest addition to the company's portfolio. Being engineered as a modular system enables the configuration to be tailored specifically to meet precise operational or room requirements. A range of finishes and accessories are available, including monitor mounts, CPU holders and storage to fully customize any workspace. Terry Shough, Winsted's General Manager, hails the new console as an important and innovative addition to the company's comprehensive line-up of control room furniture, commenting „The smart modular solution is highly adaptable, designed to meet the rigorous demands of a 24/7 environment, but not at the expense of style or aesthetics.“



winsted.co.uk

Security and Access Control Solutions

Stanley Product and Technology, a provider of security, access control and door entry solutions, will be showcasing the latest from its Pacom and Pac GDX brands at IFSEC 2018. Visitors will be able to find out about the company's range of products, including the Graphical Management System (GMS) that communicates over an IP network and is tailored specifically for multi-site environments. It integrates access control, alarm monitoring, video surveillance and many other security services. To show its flexibility and functionality, Right Crowd's automated workflow management software and Eye Locks' iris-based identity authentication products will be integrated into the GMS platform and demonstrated on the stand. Pacom Unison will also be shown. It is an open and integrated security management platform that enables the management of access control, intrusion detection, fire detection, intercom and video from one single user interface.



www.pacom.com

Security is the Basis of Smart Homes

The Abus Secvest Touch wireless alarm system, which won the renowned German Design Award 2018, provides networked security and comfort functions with intuitive operation. In the light of high break-in statistics, security technology is the basis for any practical home automation concept. The company's alarm, video surveillance and access control technologies can be combined into one intelligent home security system using the design Secvest Touch wireless alarm system. The fact that all security technologies are provided from one source not only aids smooth installation and set-up; users can also conveniently operate the system directly via an app from their smartphone or tablet. Fully in keeping with the 'smart home' concept, household devices such as loudspeakers, blinds and lighting and heating control modules can also now be integrated into the system.



www.abus.com

Total Video Surveillance Solution

Arecont Vision has announced the Contera line of video surveillance software, cloud-managed web services and cloud-managed video recorders. The product provides a complete, integrated solution for traditional local or advanced cloud-managed video surveillance project requirements. The whole solution is composed of megapixel cameras (Vision Mega and Contera IP single and multi-sensor families), advanced video management system software, a range of video recorders and NVRs as well as powerful cloud-based web services. The final component of the solution, the Contera megapixel cameras, will become widely available in the coming weeks. The NVR series offers four customizable cloud management recorder platform choices with between 8 and 64 channels and between 20 and 80TB of storage.



www.arecontvision.com

Hemispheric-View Security Camera

The Sony SNC-HMX70 security camera maintains an all-round 360-degree hemispheric view with no blind spots, ensuring full situational awareness in a wide range of indoor surveillance applications. The camera's fixed lens and high-resolution 12-megapixel CMOS sensor stream crisply detailed, high-resolution video at a smooth 30 fps. This assures that people and objects are seen clearly, even in challenging lighting conditions. Harshly backlit windows, lobbies and entrances are no problem for the camera. Intelligent auto exposure analyzes front and backlighting in the scene, fine-tuning exposure for perfect footage in any lighting conditions. The camera's wide 92dB dynamic range captures crucial image detail, even in high-contrast scenes with extremes of light and shade. Its slim, low-profile styling makes this model ideal for discreet round-the-clock monitoring in environments ranging from retail stores, banks, casinos and commercial buildings to schools and offices.



www.boschsecurity.com



PERIMETER PROTECTION

The Ins and Outs of Airport Access Control

Security Solutions for Airport Traffic Analyzed by PPG

Airports are generally in the public interest as they form the hubs of our globalized world today. The terminal area in particular is frequented 24/7 by thousands of people, so it is not surprising that attacks often occur there. The attraction for increasingly aggressive, often religiously motivated terrorists is obvious as large crowds = large potential for damage = high media visibility. And regarding the perimeter security of airports, it is not just about protecting an airport's grounds, but also about maintaining its integrity. PPG looks at risk assessment and the application of crash bollards, quick-folding or sliding gates and boom barriers in this complex environment.

Criminal or even terrorist attacks in the worst case, but also vandalism, unintentional security violations and acts of God such as heavy weather conditions often not only have expensive consequences, but also massively damage the image of airport operators. So comprehensive security concepts at airports are simply indispensable.

The size and complexity of modern airports, but also their ever-increasing security requirements due to increasing passenger and cargo volumes, require holistic, multi-level and effective security solutions. In addition, the various solution components must efficiently safeguard and support the smooth logistics of the airport, for example in the service area of the runways. An effective security concept should allow for simple but controlled access to delivery and service traffic, while providing protection for restricted areas, service areas, car parks, kerosene tank farms and taxiways.

Protection Against Hijacking

The area of aircraft maintenance hangars poses a specific security risk. The flag carriers in particular are attractive targets for terrorist attacks; the air-

lines or aircraft owned by or representing a state. Such an attack can seriously harm a country without the perpetrators even having to travel to their respective territories.

Hansruedi Voss, PPG German Sales, says, "As with the protection of inner-city or public places, the keyword is "Prevention!" This applies especially to airports, although there is no universally

Quick-Folding Security for Helsinki Airport

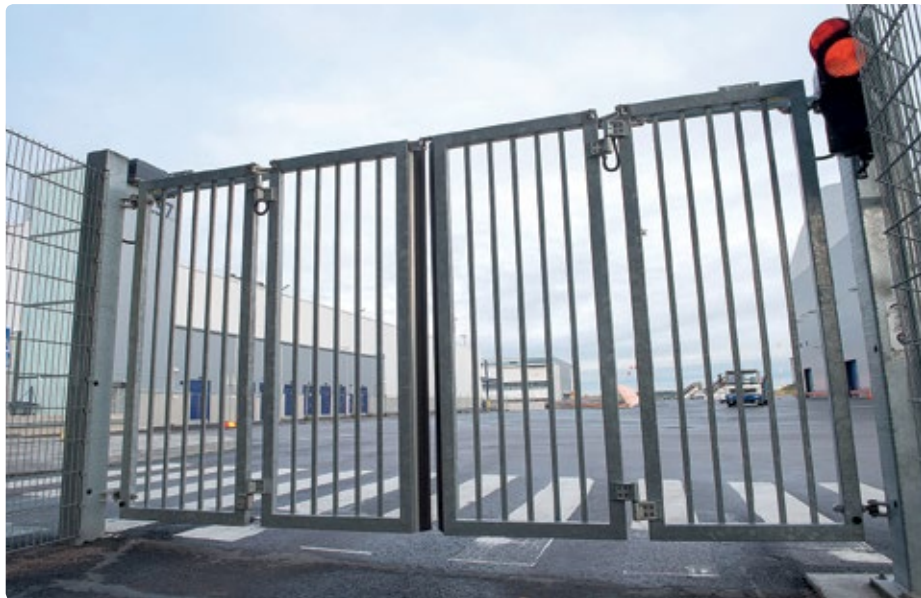
Finavia is a public limited company that operates 21 airports in Finland. Helsinki Airport is the largest, serving almost 19 million passengers in 2017. Among others, a major part of Finavia's services is the improvement of the security concepts and physical protection of its airports. The aircraft maintenance hangars are a specific security risk, but in general, the size, volume and complexity of modern airports demands reliable and holistic security solutions. A few years ago, Finavia decided to enhance the perimeter security around Helsinki airport, firstly by reducing the number of access points and secondly by replacing the existing access sliding gates and boom barriers by a more efficient and secure solution. GPP Perimeter Protection OY has a high reputation in Finland and a long relationship with Finavia. They chose the Entraquick quick-folding gate, which the company manufactures in Germany. The type-tested, fully cantilevered quick folder offers full-height perimeter protection in a closed position and unobstructed security for each entry or exit thanks to its trackless design. Its extremely high speed allows quick closing after each passage to support the efficient workflow that is necessary in daily operations at the airport. A solid bar infill and lever kinematics make the product stable and it doesn't require an additional floor lock in the closed position. Four Entraquick gates and a turnstile for pedestrians were installed initially. In 2017, a vehicle sluice for ambulances and firefighters was built, and a further two gates combined with Polarmaster, a central control solution from PPG. Further upgrades are planned for 2018.

applicable security concept because they differ considerably from one another in terms of architecture or infrastructure. Instead every multi-layered solution has to be tailor-made for that site. In addition to the particular area to be protected and the required level of protection, the perpetrator profile and the potential threat, the building layout and terrain contours all contribute to the decision process. The aim is to identify potential risks at an early stage before any risk arises."

Comprehensive perimeter protection at airports can only be created by a combination of mechanical, electronic and sensory components. These include outer protection with crash bollards or other certified impact load-tested barriers at the external access and parking areas, efficient vehicle checkpoints with quick-folding gates or sliding gates and boom barriers, entrance control for strict separation with indoor access control systems, as well as supplementary video surveillance or intelligent external monitoring solutions such as outdoor surveillance systems, radar tracking, etc. These are complemented by integration into databases for digital, surveillance and automated detection or live recording and the tracking of operations around the whole airport area.

Comprehensive Airport Security

Hansruedi Voss adds "Perimeter Protection Group has many years of experience in securing airports around the world which, together with our certi-



The PPG Entraquick is a fast folding gate that allows authorized vehicles unhindered access

fied product range, benefits our customers. These include taxiway gates with extra-wide openings for the convenient passage of aircraft, TÜV certified quick-folding gates and modern fencing systems. Our products are highly compatible and particularly well suited for inclusion in integrated central control platforms, databases or fence detection and outdoor surveillance systems.

CONTACT

Perimeter Protection Germany

Salzkotten, Germany

Tel.: +49 5258 500 70

info@perimeterprotection.net

www.perimeterprotection.net



INTELLIGENT

Our sensing technologies show a greater level of thinking

Outdoor PIRs, IR beams, laser scanners and fibre optic sensors



For 40 years we have constantly developed our sensing technologies to deliver the highest level of reliability, accuracy and system performance even in the most challenging outdoor environments. Our intrusion sensors benefit from this expertise to digitally analyse the signal detected and filter out environmental and other noises such as small animals. This intelligence makes them a reliable trigger of any security system.

For more information visit www.optex-europe.com

SPECIAL FOCUS AIRPORTS

Airport Check

A Collection of Airport Security Solutions

Security requirements at airports are extremely high and it is vital that every area is monitored, including hangars, car parks, terminal and access roads, runways, the apron and the perimeter. There are a number of stakeholders involved when it comes to security at an airport; from the customs and excise, the local and national police as well as the airport operators themselves. GIT SECURITY takes a closer look at some of the solutions used at various different airports.

While billions of passengers already travel through airports every year, this number is anticipated to grow rapidly in the coming years. Therefore airports have to be secured and managed without any complications.

Monitoring Wide Areas

Airports typically encompass wide areas and stretch over long distances, which poses particular challenges for a video monitoring system. In the past, in order to adequately monitor the entire area it was necessary to use many cameras installed at a large number of locations. Dallmeier's Panomera multifocal sensor system, for example, represents a different approach to the issue of video security. The patented Panomera multi-focal sensor technology is a video solution for both landside and airside safety and security. It

was specially developed for the all-encompassing video surveillance of large areas. Huge expanses as well as areas at great distances can be displayed with a completely new resolution quality, in real time and at high frame rates of up to 30 fps. A huge area can be surveyed with a Panomera unit from a single location and, depending on the customer's needs, the resolution can be scaled almost without limit. For example, one Panomera system equipped with eight sensors is sufficient to replace up to 35 standard megapixel cameras.

Access Control for Airports

Muscat International Airport in Oman, as another example, has installed an airport access control system by CEM that goes beyond security by helping in airport operations. The system not only provides the

airports with advanced access control throughout terminal buildings, airside and landside boundaries, but it also provides a range of software applications to enhance the airport's onsite operations and increase business efficiency. For example, one module produces card passes that include logos, staff signatures and images while another enables efficient management of gate rooms for departing and arriving passengers. Additionally, the intelligent combined fingerprint card readers and controllers can be used in high security areas where there are requirements for three stage verification (card, PIN and fingerprint).

Airport Analytics?

There are a lot of great solutions on the market. Genetec, for example, has introduced Genetec Airport Sense as part of the Genetec Airport

Practice Group. This advanced operational analytics solution relies on data provided by an airport's existing security infrastructure, including cameras, sensors and various detection devices to produce actionable intelligence about airport security, operations and passenger flow. By accessing and analyzing both structured and unstructured data from these untapped security information sources, airports can extend their security investment.

Security guards are rarely positioned in the baggage reclaim area, but help is available – the team of Sundsvall Airport rely on a solution from Genetec. Their Security Center Mobile App helps to oversee security while security personnel move through the airport carrying out their many responsibilities. If someone tries to access a restricted area, the unified platform automatically alerts

guards on their phones. From the app, they can acknowledge alarms, view the relevant video and quickly determine if it's a false alarm or something that requires their immediate attention.

Transportation Management

Auckland Airport is a good example for vehicle authorization: in response to this expected growth, the Ground Transportation Plan was redesigned to ensure that required service levels would meet passenger demands. They used Nedap's latest Transit and Moov technology. All ground transport vehicles (such as taxis, tour buses, emergency services and other commercial vehicles) are automatically registered by the Transit as they pass through the restricted areas that are only accessible for authorized vehicles. Besides the Ground Transport application, Nedap's Transit readers were also installed at the airport to facilitate automatic, long-range, secured vehicle access to restricted areas of the airport. The Transit readers are integrated into the existing access control system.

Drones

While the majority of incidents of drones flying into an airport's perimeter are likely to be accidental – even though they present a significant risk – in other situations, criminal intent is far more likely. Anti-drone security platform provider DEDrone has developed a solution that aggregates data from its detector sensors and advanced video analytic algorithms. Using video footage from Axis Communications network cameras that establish wide area detection, this enables visual localization and enables the mitigation of any drone threat. The solution's user interface can provide automated visual alarms and notifications and provides protection of sensitive sites: detecting, tracking and monitoring for drones 24/7, providing real-time alerts and identifying potential threats, even when these are several hundred feet above ground.

Baggage Handling

Airports need to find a suitable solution to make baggage transport flow even more reliably and securely. To thoroughly modernize the baggage handling systems at airports in Greece, Siemens is installing equip-

ment including the latest VarioBelt conveyors, vertical sortation units (VSUs) and horizontal diverting units (HDU). Siemens is integrating Standard 3 X-ray equipment for hold baggage screening (HBS) to further improve security. The scope of delivery also includes smart Scada software to monitor and control the technical processes. Apart from that, passengers profit from modern, attractive check-ins in the departure areas and

ergonomic VarioCarousel baggage reclaim in the arrival halls.

Explosives Screening

As another example of a security solution, Gatwick joins a growing number of UK airports leveraging Smiths Detection's expertise to expand and automate hold baggage explosives screening capabilities. When fully operational, the UK's second busiest airport will utilize CTX 9800 to screen all in-gauge

baggage in the South Terminal and ensure compliance with UK Department for Transport mandates requiring the use of Standard 3-approved EDS by September 2018. To achieve maximum system uptime and operational capabilities, Smiths Detection's on-site network of highly-trained engineers and technicians will ensure that all CTX 9800 are maintained, serviced and optimized to operate in peak condition for a minimum of ten years. ■

FITTED FOR YOUR ENVIRONMENT.

Successfully integrate your security systems with SeeTec.



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

SeeTec
An OnSSI Company

www.seetec-video.com

ACCESS CONTROL

Keys or Access Control? Why Not Both?

Combining the Advantages of Mechanical and Electronic Keys and Locks into One System



Lock and key security has come a long way since Ancient Egypt. Over the centuries, the Romans, the lever tumbler and Linus Yale's pin tumbler all took the technology forward. Each was a significant milestone. But in truth, your average pharaoh would still recognize his clever gadget. The latest advances in key-based electronic access control, on the other hand, would send Rameses into a tailspin.

A mechatronic locking system like Clq from Assa Abloy combines high-end mechanical and electronic protection. A range of key-operated mechanical cylinders and padlocks maximize physical security and attack resistance. The technology then layers encrypted, user-friendly electronic security on top – adding control and convenience without the need for wires: all the de-

vices are wire-free. Power to operate the electronics comes from the battery inside every key.

And because it's key based, the system offers a simple step up from mechanical security to powerful access control, with no change to existing door hardware. Smarter security, secure cloud-based interfaces, mobile endorsement and a more flexible workplace are within easy reach for any building.

No More Lock Changing

The Clq system is trusted by organizations in all kinds of industries: recently, German supermarket chain REWE chose it for its newest warehouse in the north of Berlin. "With this system, we have great flexibility in the event a key is lost or if we want to make any changes. We can revoke the key's access entitlements by reprogramming the

400 locking cylinders,” explains Marc Haverkamp, Project Manager for the REWE Logistics Center.

In Sweden, Stockholm’s Vasamuseet upgraded their old mechanical system to electronic. Staff used to carry heavy key-chains with ten or more keys. Now facility managers can amend the access rights of everyone’s Cliq key at any time, even remotely. “Previously, the biggest problem was lost keys,” says Michael Andrésen, Operations and Security Officer at the State Maritime Museums in Sweden. “Then the lock had to be replaced, which was expensive. Now a lost key’s access rights are simply removed, instantly, and it no longer opens any doors.”

The electronic locking system is also popular with public utilities because the cylinders and padlocks can handle extreme weather and secure almost any locking point, making it more adaptable than standard electronic access systems. It is also easy for Eau de Valence, a French water utility, to manage mechanical and electronic locks in the same installation: „The electronic and mechanical cylinders are managed by one and the same key,” said Christophe Nublat, Head of Study and Works Division at Eau de Valence.

To combat the theft of valuable recyclable materials, Communauté d’Agglomération La Rochelle managers installed Cliq padlocks and cylinders at 13 dispersed waste reception centers and issued individually programmed keys to authorized staff. The impact was instant: “The number of burglaries has been reduced in a spectacular way,” says Hervé Begaud at the Communauté d’Agglomération. “We used to report damage every week. Now, we have had a single, failed, attempt on a cylinder in the last 6 months.” La Rochelle district administrators are impressed: they plan to extend Cliq access control to all critical municipal sites.

Bits that fit

Wherever you work, employees leave, keys get lost, and outdated devices with unreliable security are still in use throughout your premises. Yet the remedy to all these problems is not a „one-size-fits-all” solution. There are Cliq extensions for all kinds of security needs, supplementing the easy, flexible access rights management and scheduling for keys, users and doors that comes with every installation. For small to medium-sized businesses, the aptly-named Go app supports managers in administering their access system on the move and in the cloud. Lost keys are easy to revoke via the app, designed to be easy enough for a non-specialist to operate. Even a pharaoh. In medium to large businesses, security managers can administer their system using the Cliq Web Manager via a standard web browser. The additional option to operate on a Software as a Service basis can help reduce IT infrastructure costs. Data security is ensured, plus 24/7 monitoring and support are available on request. For managing a large business with remote sites or a mobile workforce (or both), Cliq Remote with Cliq Connect is the tailor-made solution.

App To Date

In Sweden, the Skellefteå Fire Service uses the Remote option. In the event of a fire, firefighters update their key at the station or on the move, using a key updater kept in each fire engine. There’s no longer any need for stations to hold and manage multiple sets of keys, or for off-site firefighters to first go to the station for the right key. A rapid response means more chance to prevent a fire from spreading. “With the key updater in each fire engine, we can authorize a key for a limited time. If we lose the key during an emergency, for example, it becomes useless after 60 minutes,” says Skellefteå fire engineer Johan Marklund. “Previously,

we had a key safe at every fire station,” he adds. “At the main station alone there were about 100 keys. We had to take inventory regularly and sometimes found certain keys no longer worked. In a serious situation, we wouldn’t have been able to enter premises without breaking down the door. I recommend emergency services in other locations choose the same solution.”

The optional Connect app smooths mobile workflows. A key-holder no longer needs to update access rights in person, carry additional updating devices, or even return to base. All they need is a smartphone and the app. The app pairs a programmable key via Bluetooth and an encrypted cloud connection with the system’s Web Manager. To change a key-holder’s access rights, a system admin accesses the web software from anywhere and updates their profile. The key-holder establishes a secure Bluetooth connection between their programmable Cliq Connect key and the app to instantly update permissions.

Assa Abloy sells and supports Cliq technology under several other brands including Ikon, Abloy, Mul-T-Lock, Assa, Vachette, Fab and Keso.

<https://campaigns.assaabloyopeningsolutions.eu/cliq-quiz>



CONTACT

Assa Abloy Digital Access Solutions, EMEA
 London, United Kingdom
 thomas.schulz@assaabloy.com

Holistic concepts for reliable airport security!

Perimeter Protection Group - Your partner in effective and secure airport protection.

Our customers benefit from our long-term experience in airport protection all over the world and our certified product range.



www.perimeterprotection.net
sales@perimeterprotection.net

Perimeter Protection Group!
 Safe and secure!





ACCESS CONTROL

Not Only Cool

Mobile Keys and Mobile Technology Add Value to Access Control

Mobile technology in access control is now becoming a standard as obviously it brings a lot more of convenience for users and for system managers. It is also bringing all the connectivity that an access control system needs to improve the reactivity, the security and the control needed nowadays.

At Salto we are conscious of this and that's why the latest innovations in this field will be presented at IFSEC, making our different platforms much more powerful. This refers to Salto SPACE, our host-based platform with SVN capabilities, as well as to Salto KS, our complete and reliable cloud based access control platform", says Marc Handels, Chief Marketing & Sales Officer with Salto Systems.

One app, Several technologies

Salto JustIN Mobile is the mobile technology used within the Salto SPACE platform. Based on the genuine and proven SVN (Salto Virtual Network) core technology, JustIN Mobile has been designed to add new functionalities and thus enhance the system.

For Marc Handels, it starts with the App, which increases the user convenience: "Our JustIN Mobile App is available for iOS and Android in order to cover 98% of the smartphones market. It also brings an additional convenience as in the case of Android the App is compatible with BLE (Bluetooth Smart) as well as NFC (Near Field Communications) to communicate with the locking device." This permits Salto's mobile solutions to be compatible with almost all the products within the Salto product range: electronic escutcheons, wall readers but also electronic cylinders.

The usage of NFC in combination with the JustIN Mobile app reinforces the commitment of Salto to its customers to deliver future proof systems, as even already existing escutcheons and cylinders

can benefit from this innovative mobile technology, just by a simple firmware upgrade.

Bidirectional Communications

"We have always been aware that mobile technology could bring important opportunities to our platforms and products, which eventually enables us to deliver so much more functionalities to our customers", adds Marc Handels. "JustIN Mobile was designed based on these ideas and thanks to our SVN data-on-card technology we developed a mobile technology with bidirectional communications. Thus, JustIN Mobile converts any offline access control device virtually in an online device without additional hardware and without installation."



Salto KS offers a safe and user-friendly solution without a need for complex IT infrastructures

With JustIN Mobile system administrators can make changes to access plans on the fly and remotely as all access rights are sent directly OTA (Over The Air), from the Salto ProAccess SPACE management software to the users smartphone, no matter where the user is. Thanks to this, the user will always have his access credential up to date and even can request immediately changes on the go or even got his card fulminated if needed.

At the same time, JustIN Mobile permits to transmit the audit-trail of the offline device immediately to the management software, thus sharing the information that the user has accessed the door. In addition, as JustIN Mobile and the Space platform use the SVN core technology, it is also possible to receive the battery status of the escutcheon or cylinder, in this way enhancing the information about the system in order to prevent potential failures and ease up on maintenance efforts. Another key feature is the distribution of the updated black lists, which increases the security massively.

No Need for Additional Infrastructure

"And all this without any additional infrastructure", emphasises Marc Handels and explains the advantages with an example: "Imagine having a standalone offline electronic escutcheon on a remote site, where wireless systems cannot be installed due to the lack of internet connection. With JustIN Mobile you can monitor the lock, who accessed it, what is the battery status and even give access to the door instantly and remotely to any verified user. Just by accessing the door with his smartphone, JustIN Mobile will bring much more convenience to the user by removing the need to carry different credentials, and having anytime his credential up to date. For system managers it pays off as well, as he will have all the information regarding his access points in real-time controlled and secured."

More Than Just a Key

The JustIN Mobile app also includes other features that bring more functionality. It allows to store more than one key, so no matter if a user has the key for his office and the key for a room in a hotel for next day's business trip. Both can be processed and made available by the app without interference. The app even sends messages to the user regarding the keys for the different sites and even information about the location where the hotel is or the site one wants to visit. All the information a user needs is there, not just the key to access a door.

All these benefits do not go unrecognised, as JustIN Mobile is already used on hundred thousands of doors worldwide, mainly in hospitality, but also increasingly in commercial and health care environments. Salto draws heavily from these practical experiences and continues to develop this technology even further – when others just start with mobile technology.

Mobile Keys for Cloud Solutions

"We have been a front-runner also in cloud access control since many years. That's why we believe, that our Salto KS Keys as a Service platform is the most advanced and flexible cloud locking solution", says Marc Handels. "Since it is in use already on ten thousands of doors worldwide, we can deliver a cloud-based access control with proven reliability and stability, which not many other vendors can claim to have. If any."

Salto KS offers a solution, which negates the need for complex IT infrastructures. It does not even require a software installation. Yet it provides superior functionality and performance compared to traditional security solutions. Salto KS now also benefits of mobile access through the new mobile keys functionality that has been included in the Salto KS App in order to increase

the flexibility and convenience of the cloud based access control platform.

Increased Flexibility for Administrators and Users

The app brings thorough flexibility to administrators as it permits straight from the smartphone to manage and control users and doors from anywhere and at any time. Blocking a user or perform remote openings was possible from the beginning, but in addition with the new mobile keys functionality the administrator can send a credential directly on the smartphone of the user, removing the need to hand over a physical key. "Just with the smartphone you can either control your property or even access it, thus increasing the already huge flexibility of our cloud based access control", adds Marc Handels. "Users can also benefit as with Salto KS mobile keys we remove the need of having to provide a physical credential. Thanks to sending the credential remotely directly to the user, this also has an additional advantage as you can perform the dissemination of the credential automatically without having to do any queue or having people waiting to receive the physical credential. This is a perfect solution for those kinds of projects as co-working spaces or retail services where the users can move from one location to the other, and now with even more ease."

IFSEC · Stand G100

CONTACT

Salto Systems

Oiartzun, Spain

Tel.: +34 943 344 550

info@saltoystems.com

www.saltoystems.com



ACCESS CONTROL

Pin It!

The Access Control System Manufacturer
SimonsVoss Has Extended its 'Baby' System

Available as from Q3 2018, the succinctly named Pincode keyboard from SimonsVoss enhances the company's already well-established MobileKey access system. This electronic system is designed for small business units or domestic premises with up to 20 doors and 100 users.

Convenience comes in many forms; with regard to access control and today's electronic locking systems, we're already served far better than with a pocket or handbag full of clunky mechanical keys. Gone are the problems of having to repair jacket or trouser pockets caused by the metal constantly wearing the material away. Gone also are the problems of the keys that slipped through the hole and were lost, causing a frantic and expensive lock replacement. Today's 'keys' are either small and light transponders, the mobile 'phone' that you're already carrying with you, or now also the numeric keypad fitted at the door in question.

Open Options

The basic and simple-to-install MobileKey system consists just of electronic lock cylinders and transponders. No cable is necessary, no drilling through walls, no finding spare power points because all components are battery-powered. Their replacement will not be necessary for many months, if not years because current consumption is extremely low. If garage doors and motor-

driven gates should also be controlled by the same system, the company's optional SmartRelais is installed to pass on the commands. And if really remote control of doors and system administration would be an advantage, then the manufacturer's own secure servers will provide the link to any Internet-capable device (PC, laptop, tablet, mobile phone etc.) anywhere in the world. Being able to turn on the sauna at home just before you leave the office, for example, is reaching the epitome of convenience.

Of course, with the slim and elegant Pincode keypad installed near the doors, family, staff and authorized visitors will have very simple and immediate access by entering the 4 to 8-digit code. That is, if access at that particular time of day is actually allowed, because the keypad can be programmed only to open the door according to a previously-arranged time plan.

Who, Where and When

The free web app associated with the system can be easily understood within minutes and is used

to set up the system components, authorizations and times via an intuitive GUI. Additional components added later on are added here and – should it happen – lost transponders can be made permanently inoperative. A door monitoring function will report in real time if a door has been left open. Unexpected but friendly guests can also be granted access to your building by using the so-called Key4Friends. This is a temporary 'key' that is sent by email to a mobile 'phone' – the duration of its validity – up to 6 months – can be freely chosen. And who are you going to invite at the weekend?

CONTACT

SimonsVoss Technologies

Umferfoehring, Germany

Tel.: +49 89 99228 0

marketing@simonsvoss.com

www.simons-voss.com

GDPR

Walk the Walk

Four Things You Need to Know about GDPR and HID Mobile Access

By Hilding Arrehed, Vice President of Cloud Services
Physical Access Control Solutions (PACS)

As the General Data Protection Regulation (GDPR) took effect on May 25th, 2018, we reflect on how mobile access customers, who enable users to use their phones as a “key” to unlock doors, have been adapting and becoming compliant-ready for months. User data is, of course, utilized in cloud services-based mobile access to connect individuals’ phones (and their identities) to the back-end of the physical access control system.

Considering the fact that millions of doors are opened every hour in every country, mobile access is one of the most relevant innovations of the connected world of the digitized 21st century. It provides the highest security with a high level of convenience associated with a mobile-first lifestyle, already adopted by millions of people all over the world.

At the center of the connected architecture, enterprise customers are increasingly demanding that data is securely collected, stored, retrieved and “forgotten” when requested. Therefore, it is important to ensure that the mobile access service in use is GDPR-ready, including attaining Privacy Shield certification for data transfer to the U.S.

Users now require access to secure, reliable and consistent services where only best practices in information security and privacy apply. Over the years, we have invested a lot of time, effort and resources to ensure that we have the right processes and procedures needed to take the HID Mobile Access service to this level. This article is aimed towards simplifying the connection between mobile access and GDPR and to provide useful, relevant information.

As a leader in mobile access, HID Global has identified four major things that existing customers and future customers need to know. But we don’t just talk the talk; we also walk the walk, figuratively speaking. We are taking steps to ensure that HID Mobile Access meets the European Union (EU) GDPR requirements.

[1] Mandate for Personal Data Transfer from the EU to the U.S.

GDPR requires that an adequate transfer mechanism is in place in order to facilitate the transatlantic transfer of personal data from the EU to the United States for commercial purposes.

To meet this requirement, HID Mobile Access is certified with the EU-U.S. Privacy Shield and the Swiss-U.S. Privacy Shield Framework(s), designed by the U.S. Department of Commerce and the European Commission and Swiss Administration. To learn more about the Privacy Shield program, and to view our certification, please visit www.privacyshield.gov or see HID’s Privacy Shield Statement.

[2] Privacy Must Be Protected

GDPR enables EU residents to exercise greater control over how their data is used and how they raise complaints, even if the data subjects are not in the country where their data is being stored or processed. Along this line, the privacy practices that the HID Mobile Access service employs have been updated to align with GDPR and Privacy Shield Frameworks.

Available on the HID Mobile Access portal, the new policy has been in effect since February 2018 and was recently updated to further simplify the language and make it easier to understand what personal information we may collect, why it is collected, and your rights with regard to that information. Fur-



thermore, we performed a Data Protection Impact Assessment of the Mobile Access solution to identify and mitigate privacy risks.

[3] Customer Data Must Be Secured

Keeping customer data secure is of the highest priority. HID conducted a Mobile Access Data Inventory for the protection of all collected data elements, including roles and responsibilities, data retention periods and implemented security controls.

Over the last year, we have updated our Security Incident Management Process as well as implemented new Alerts and Notification procedures, and new routines around HID Mobile Access Portal Administrator accounts maintenance. Furthermore, the HID Mobile Access application and the HID Mobile Access Portal are penetration-tested every year. Just like any leading technology company, we will continue to conduct risk assessments and improve the confidentiality, integrity and availability of our mobile access service.

[4] The Right to be Forgotten

Under GDPR, individuals have the right to request the deletion or removal of personal data when there is no longer a compelling reason for its continued processing. To ensure that our HID Mobile Access customers are in control of the personal data we process on their behalf, we have updated procedures to better assist our customers in complying with data subject requests.

Taking these steps toward meeting the requirements of the GDPR demonstrates our commitment to providing secure, reliable and consistent services to our customers.

For more information about HID Mobile Access: <https://www.hidglobal.com/solutions/hid-mobile-access>.



Author

Hilding Arrehed, Vice President of Cloud Services
Physical Access Control Solutions (PACS)

CONTACT

HID Global

Stockholm, Sweden
media@hidglobal.com
www.hidglobal.com

STORAGE SPECIAL

Basics of Storage

DVRs, NVRs and Cloud Storage Explained by GIT SECURITY

Collecting massive amounts of data is the trend of our time. Higher-resolution videos, smarter software and interconnection of devices, not just in the field of automation, keep security companies in need of an adaptable simple solution to make use of the collected data. Therefore, storage providers had to come up with suitable solutions for these large amounts of data. Now, GIT SECURITY looks at the past and present in terms of how far we've come since video was first digitally stored. Get ready for a guided tour through the topic of video storage.

Let's record that movie, I want to fast forward the commercials." Ever since the late 1960s, when video cassette players entered the consumer market, households were able to record normal TV programs. It was the first time people could actually choose the TV program they wanted, which meant skipping over commercials and leaving television producers in great fear of what might happen to the relationship with their TV commercial partners. As we now know, the big downfall of the TV industry has not happened. There is still regular TV with regular commercials, although TV stations do not have the monopoly to ignore their matured audience any longer, especially since the introduction of the digital video recorder (DVR). With that, it has become no longer necessary to keep video data on video cassettes. Now, the audience can even more easily keep their favorite shows and watch them as they please, and once again, TV producers and stations are at a turning point in traditional TV. This development in the consumer market is only one part of the story, the other shift happened in the surveillance market.

Digital Video Recorder (DVR)

The introduction of DVRs to the market occurred in the late 1990s. Therefore, it was finally possible to store video data in a more convenient way, es-

pecially for the security industry. In comparison to its older brother, the analog video recorder, which transfers the video signal onto an analog magnetic tape, the DVR can use compression technology and store video signals digitally. DVRs receive analog signals over COAX cable directly from the cameras and store the data inside. This means that the DVR storage is fixed. It cannot be shared with other DVRs and is therefore limited to the storage capacity of the individual DVR. There are some hybrid DVRs that also support both, such as analog and IP cameras, but this is not the general rule. The typical camera limit on a DVR is at 32 cameras, making this storage possibility appealing to smaller and simpler applications with an analog system.

Network Video Recorder (NVR)

Considering that a DVR can only cover a limited number of cameras, there was a need for a more flexible and a more scalable storage solution, a need that was also driven by another market development. Most of the industry made a transition from analog to IP video connecting the devices to an entire network. Thus, the NVR came into existence. With the invention of the first centralized IP network camera in 1996, Axis was the first camera provider to push this development. There was an individual web server just for these cameras. Start-

ing in 1999, the company used a Linux-based operating system, the same year that Mobotix brought the first decentralized IP camera to the market. Since then, IP systems have grown and matured to swamp the market and with that, recorders have also become adaptable to IP networks.

What does an NVR do?

NVRs support IP network cameras and they also offer more throughput and additional camera (50+) capacity. Another difference, as compared to a DVR, is that the DVR encodes and processes data directly on the device, whereas an NVR receives already encoded and processed video data from the camera. Further compression and metadata tagging can of course also be done directly on the NVR. On top of that, NVRs usually come with more features than a DVR, which makes them a lot more popular. It's no longer just plain storage; decent video management software (VMS) comes with almost any NVR making the video stored even more accessible.

Speaking of managing data, depending on manufacturer, users can access the NVR through a network or over the internet. Many also have a web interface, making them accessible through the web browser. At the moment, the development of access through apps is increasing as well. It is

also important to identify the factors that determine the use of the NVR, so end-users can figure out the best possible NVR type for their endeavor.

Depending on the manufacturer, NVRs store data either on an internal disk drive, an SD memory card, a USB flash drive or other mass storage devices. But users should be careful, that is, NVRs should always have ports for an external storage option and just because an NVR has a USB slot does not mean that it can connect with external mass storage devices. It can sometimes just function as a simple service port. Monitors, on the other hand, connect with the NVR over HDMI, VGA or video-out ports.

What is the Cloud all about?

The term Cloud Storage is used to describe a remote storage system. The user does not have to worry about the internal processes, because the Cloud appears as a whole and works like an intrinsically safe and scalable high-channel video server. The advantages are obvious: storage space is not as limited, it is a shared system, so there won't be any loss of data, it is accessible from anywhere and requires minimal equipment. However, users should not neglect the fees for Cloud Services. They can de-

Users should find answers to the following questions:

- How many cameras will connect to the NVR?
- What is the frame rate and image quality?
- Will there be additional analytics software?
- How is the bandwidth capability?
- What compression technology will be used?
- How many sites do I have to secure?
- How do NVRs Store Data?

pend on storage space or are charged on a regular cycle. Another factor that should be considered is the amount of upstream bandwidth your network can provide. Uploading massive amounts of data can slow down the network or result in very long upload times. This is a serious problem and one of the reasons why many company still won't use Cloud Storage. They simply don't have the bandwidth that is necessary to upload all the data.

Can Cloud Storage be combined with NVRs?

Cloud Storage can be used alongside or instead of NVRs. What comes in handy is that the surveillance industry has already found some answers to this. There are NVRs that are specifically designed to connect to the Cloud. They can store the video data internally for only a short amount of time and can then upload it on the Cloud, even on a schedule if required. Cloud storage can function as the main storage or even as a backup for an NVR.

How Secure is the Cloud?

Data Security and privacy also have to be considered when choosing a Cloud Storage system. There are some security weaknesses in the area of Cloud computing. For example, the data protection laws for Cloud services depend primarily on location, so providers such as Google and Microsoft are ruled by the US law. This can be a problem, especially for sensitive company data, since the discretion is not always reliable there. Furthermore, it should be kept in mind that Cloud providers are attractive targets for hackers, so there is always the potential danger of data theft. ■

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

Security Products

Cloud Service Platform for Security and Surveillance

Avigilon has announced Avigilon Blue, its new integrator cloud service platform for security and surveillance that is purpose-built for the supplier's partners and their customers. The first release provides managed services for video surveillance, powered by patented self-learning video analytics. The platform enables partners to remotely connect to, manage, and service more customer sites with fewer resources. For customers, the solution provides easy and secure system access, smart notifications, system upgrades and new features that will be pushed directly from the cloud. The on-premises connect device supports local storage as well as Avigilon and ONVIF-compliant cameras and sends critical events to the cloud for customers to view on their web-connected device. Powered by Microsoft Azure, the product leverages a global network of cloud services with enterprise-grade security.

www.avigilon.com

Integration with Intrusion System

Vanderbilt's SPC now integrates with Dutch company Triplence Technologies' Aperium box. This has been established through Vanderbilt's bespoke communications protocol, Flex C. SPC protects businesses, properties and assets with comprehensive alarm management functionality using cloud services, end-user apps and a dedicated software suite. Flex C is a multi-path, multi-redundant, highly encrypted communications protocol that allows secure monitoring and control of IP communication paths. The Aperium box provides a secure network between a customer's IP devices and a Central Monitoring Station, sitting in between the IP devices and an authorized receiving end. Another positive benefit from this integration is that, through the Aperium box, SPC can now be combined with a more significant number of IP cameras and NVRs of various brands. www.vanderbiltindustries.com

All-In-One VMS Server

UNV Unicorn is a scalable platform with management, store, decoding and transfer functions for IPC, NVR, encoder, decoder,



network keyboard and cloud devices. It is suitable for video surveillance solutions with 200 to 1,000 cameras and supports the ONVIF open standard. With Ultra 265 deep compression technology, the storage cost can be greatly reduced with up to 48 HDDs attached in almost any RAID mode. With a Master and Slave Architecture, the host for up to 8 slaves can easily expand both the bandwidth and storage capacity of the system. The master host, especially designed for projects with a large storage requirement, will take control of throughput balancing, resource allocating and video stream transfer. The platform can not only handle 16 channels of 2MP camera decoding by itself, but also deal with 112 channels of 2MP camera decoding by adding an additional decode card that also supports up to 15 monitors. sg.uniview.com

Palm Authentication

Intus 1600PS palm vein authentication is based on the Palmsecure technology from Fujitsu that combines the simplicity of fingerprints with high security requirements. The layout of the veins remains unchanged throughout a lifetime, and it is different in each individual. Soiled skin, impure skin, or superficial injuries have no effect. In the training phase, an individual's palm vein pattern is recorded, converted to a template and then saved to a card. To identify a person, the terminal compares the recorded vein pattern with templates on an RFID card. Manipulation is virtually impossible and a person is verified in less than a second. www.pcs.com



STORAGE SPECIAL

Data Boom

Growing Data Sources and the boom of the surveillance industry

To say the surveillance industry has changed over the last quarter of a century is an understatement. From high-definition cameras and TVs to high flying drones and video analytics – the surveillance industry has shifted in ways we never expected to see in such a short space of time. What's more, with such advancements in both quality and choice that's now available in the market, it's no wonder that revenue in the video surveillance market is set to double to \$75.64 Billion by the end of 2022.

Some of the biggest opportunities in the surveillance industry will be through adopting new technological practices, particularly around the Internet of Things (IoT), cloud storage and artificial intelligence (AI) such as machine learning. The main question, however, is exactly how these trends will shape the surveillance industry of the future?

The Proliferation of Connected Devices

Recently, Seagate and IDC released a whitepaper looking at the future of data and the factors that will contribute to worldwide data exploding to

163ZB by 2025. One of the biggest reasons for the increase in data is the rise of connected devices as a result of the IoT.

Specifically, within surveillance, this occurs already, thanks to drones and other wearable security devices becoming connected and coming online. With so many more transactions being created and tracked it's crucial to think about how the surge in data will be managed.

With such complexity in both the dataset and its use, it's imperative that companies make sure that they have all of the right hardware for the job. In the past, data centres would typically use the

largest capacity drives their budget would stretch to, with the knowledge that the drives would be sufficient for its needs. However, moving to a more complicated data set thanks to the rise of the IoT, companies now need to begin to make more of a conscious effort to consider what drive is right for their needs.

A prime example is how specialised hard drives have been making their way into the surveillance market that have been optimised for specific use functions. One such drive is Seagate's SkyHawk which allows security applications to continuously record video on a 24/7 basis. Unlike other indus-



◀ Optimized for DVRs and NVRs, SkyHawk surveillance drives are tuned for 24x7 workloads in capacities up to 10TB



The SkyHawk AI Technology is designed for AI Surveillance and to support an additional 16 AI streams while simultaneously and flawlessly recording footage up to 64 HD cameras ▶

tries, the surveillance market needs drives that have the capacity to run and write data 90% of the time so that businesses are never caught out using unsuitable and unreliable drives which could have serious consequences to personal and business safety.

Video in the Cloud

The rise of connected devices is also generating a substantial volume of data. This poses the question of where exactly this data will be stored and conversations are already taking place around access to video in the cloud.

There are a couple of benefits to consider when it comes to video surveillance in the cloud. Firstly, the data is stored in a central, shared system so users can access the content quickly and easily from wherever they are. Secondly, it's possible to update a cloud-based product on an ongoing basis, often in real-time, and once improvements have been made they are immediately visible and available to customers.

A key driver of the shift to cloud-based, fast-access, and truly mobile data usage is that data has increasingly become a critical influencer for not only our businesses but also our lives in all

aspects. The research with IDC revealed that data usage is changing and it now has to be analysed by its level of criticality.

The emergence of hypercritical data also means that businesses should look to review how they capture data and deliver data analytics. This is because they'll require an infrastructure that can deliver high reliability and bandwidth as well as increased security. This could be something as simple as making sure they choose the hard drives that offer the ability and resilience to deal with the requests for data analysis.

Artificial Intelligence for Real-Time Analytics

The use and integration of data in businesses and people's lives is also quickly moving to the need for real-time data. As such, data is delivered to not only inform but also determine actions – sometimes autonomously. Consequently, machine learning and AI is causing a huge buzz within the video surveillance industry. And it's no wonder when the opportunity for this industry is huge. If security guards and emergency services can use the data from AI to make smart predictions, it will help increase preventative and real-time tactics in surveillance,

rather than simply being used as a post-event, forensic tool. Thanks to AI the industry will become more proactive, rather than reactive, as a result of machine learning being able to predict security and surveillance situations before they happen.

Over time, the demand for intelligent video analytics and systems is only going to increase as more and more industries realise the benefits for its application. It's up to everyone to work with partners and customers to ensure that they are ready for this change and are advised in the best way to manage and store the data generated to meet their needs.

Author

Stephen Jones, Sales Engineer Surveillance, Seagate

CONTACT

Seagate Technology

Munich, Germany

Tel.: +49 89 1430 5021

www.seagate.com

Flexible Locking Solutions

At this year's Security Expo from June 27 to 28 at the MOC exhibition center in Munich, Uhlmann and Zacher will be presenting its diverse range of electronic access control products. A special focus will be on the CX6172 electronic door handle and the CX6174 electronic door fitting. The entire electronic system, mechanical system, power supply and LED indicators are assembled within the door handle. The product has already won several awards and the portfolio includes many variants, such as different fittings and rosettes, a choice of different handle types, versions for outdoor use and for installation in fire and smoke resistant doors as well as in emergency exit locks. The sleek design with an elegant stainless steel look permits the door handle and fitting to be integrated into almost any interior design and in the most diverse of buildings.



www.uundz.com

Cactus Concept Cyber Protection Guide

Mobotix have recently introduced the Cyber Protection Guide, a guideline available for download that outlines how to configure the company's systems for maximum cyber security. It has released the guide to support customers in the light of a constantly increasing number of cyber attacks carried out against hardware and software through the Internet. Hackers primarily focus on the weakest links in a digital line of defense. The Cyber Protection Guide, available on the Mobotix website free of charge, describes how administrators can implement secure system configurations and contains all the configuration steps for the individual components (camera, VMS, NAS) that need to be taken into account in order to protect an entire video infrastructure against third-party access. The guide is part of the company's Cactus Concept, which enables the configuration of an end-to-end video system that is protected against hacker attacks to the greatest possible extent.

www.mobotix.com

New Technologies for Analog Surveillance

Hikvision has just announced Deep Learning. This delivers AI via the Acusense Turbo DVR and vivid images 24 hours a day via ColorVu Turbo cameras. The technology is based on the company's own algorithm which first started to appear



in IP products last year. Deep Learning algorithms are much deeper programming compared to conventional intelligent algorithms that only operate on the surface level. These perform feature learning, providing astonishingly accurate and consistent video content analytics (VCA) performance. Acusense is able to extract the human body and vehicles from a massive amount of objects and also filter out false alarms that would have been triggered by non-threatening moving objects. These technologies will prove handy for installers to bring many smart features to an existing system by simply replacing an older DVR with the Acusense model.

www.hikvision.com

French Care Home Entrusts Wireless Access Control

During a full overhaul of the Résidence Sainte Anne in 2017, it was decided to seek a replacement for an old, card-based and wired access control system, and facility managers chose a combination of SMARTair Wireless Online and Update On Card management to provide a flexible solution for delivering resident care. Now Sainte Anne staff control and monitor access to ensure the security of 67 residents, as well as 42 employees, 12 regular independent contractors and numerous external maintenance workers. Important doors including staff and technical areas, as well as sensitive rooms such as the infirmary, are protected with 30 wireless escutcheons or wall readers. A terminal at the main entrance is equipped with both RFID reader and keypad to add an extra layer of security at such a critical access point. For easy monitoring and control in real time, critical doors on the ground and lower-ground floors are managed by the fast Pro Wireless Online system. The SMARTair admin software makes system operation straightforward for facilities staff, also for remote door opening from a computer, tablet or a smartphone.

www.assaabloy.com

PoE Switches to Power Heavy-duty IP Cameras in Harsh Environments

Moxa has launched the EDS-P506E-4PoE series of PoE switches that can provide up to 60 W per PoE port for converged data and power transmission. They have millisecond-level failover redundancy, dual power inputs and a wide -40 to 75°C operating temperature range. The power output was designed for IP cameras that use power-demanding functions such as PTZ, illumination, heaters and fans in harsh environments. The switches feature device-level cybersecurity, remote control and the capability to monitor powered devices to meet the operational requirements for industrial applications such as highways, wayside and public utilities. The smart PD detection feature and plug-and-play integration allow it to supply power to any PoE PD effortlessly. Built-in Smart PoE software facilitates web accessible PD diagnostics and management with automatic PD detection of power class, status and errors for smart diagnostics. The failure check can automatically reboot cameras if they freeze or experience lag.



www.moxa.com

User-Friendliness and Data Security Increased

The Mobotix video management system, Mx Management Center (MxMC), will soon be released with new features in version 1.8, free of charge. The new configuration bar enables users to change the configuration on up to 80 cameras simultaneously with a single click. This cuts time and costs for configuration enormously, particularly for very large systems. MxMC 1.8 will be available for download starting in May. To prevent data loss, the new MxFFS with buffered archive offers a redundant high-security storage concept that prevents absolute loss of data if the camera's primary storage target fails. Starting with the 5.1.0.x firmware, an external NAS system can now be configured as the primary storage target within the company's securely encrypted MxFFS storage system. Technology Partner Genetec's solutions include its Security Center, which unifies video management, access control, license plate capture and communication management on one platform. It can also provide support for one or several company sites using Mobotix end devices.

www.mobotix.com

Automatic License Plate Recognition

Genetec has unveiled Autovu Flexreader. This brings powerful ALPR (Automatic License Plate Recognition) capabilities to suitable IP video surveillance cameras supported by the company's Security Center unified platform. The product enables organizations to use their existing IP cameras to identify and track license plates of vehicles entering or leaving their premises. Users can extend their security operations to access the full ALPR feature set of Security Center Autovu, and take advantage of valuable data-mining tools and graphical reports. The software can help to identify potential threats as soon as they appear by matching them to hot-lists. Unknown or suspect vehicles can trigger specific alarms and activate video surveillance recording. Security professionals get complete vehicle audit trails, including license plate, date, time, coordinates, license plate origin and associated videos to support investigations. www.genetec.com

Mobile Video Management Solution

The G-Scope 500+ network video recorder is mobile, lightweight, compact, powerful and has a memory of up to 4 TByte. It visualizes and stores logistics processes, such as in or on trucks, forklifts, micro-hubs/micro-depots, ocean containers and rail freight transport. The mobile video management solution is also suitable for monitoring cash transports, police vehicles, trains and buses. The device is officially certified for mobile use in and on vehicles (EN50155 and EN50121-3-2). On forklifts, loading processes can be documented in combination with a scanner. It provides similar benefits in the micro-hub, the innovative transshipment point for last mile delivery. There, it keeps track of package movements, times and access rights. In the world of truck cargo, the G-Scope 500+ can monitor the load even while driving. The GPS module of the G-Scope 500+ detects the coordinates of the vehicle, stores them and, together with the image information, transmits them to the control center via an LTE connection. Staff in a central control room have live access to the video of the cargo space at all times. There can be up to a maximum of 32 video sources. Depending on the device version, up to 4 cameras with M12 x-coded connectors or up to 8 cameras with RJ45 connectors can be connected to PoE ports (Power over Ethernet). The Power Ignition Control defines for how long the device continues to run/when it shuts down once the ignition is switched off. The seamless documentation of risk and liability transfers provides valuable cost savings and, with the help of the recorder, thefts and the causes of damage can be quickly resolved. Weighing a mere 3.3 kg and with slim dimensions of 240 x 225 x 79 mm, the G-Scope 500+ is easy to install. The small power package is particularly hard-wearing (ruggedized hardware) and thanks to its passive cooling technology, it is reliable at temperatures between -25 °C and +70 °C and air humidity of 10 to 90 percent. www.geutebruck.com



Trends in Video Surveillance Lighting

Raytec expects the next big trend to be Hybrid Network Lighting because security professionals are demanding ever more power, intelligence and functionality from a smarter IP platform. A move towards smarter network cameras has created a demand for smarter lighting that is capable of delivering the appropriate lighting response to any security event. Recent miniaturization of LEDs allows a hybrid illuminator, integrating both infra-red and white light in a single IP PoE platform, to deliver the full performance benefits of both wavelengths. With the latest video surveillance systems requiring both good nighttime images and connectivity between devices to deliver the best results, fully addressable Network Lighting has been on an upward curve. Now the same illuminator can deliver infra-red for covert surveillance and then trigger white light on demand; as a visual deterrent with a flashing output, for staff safety or for additional scene information for color cameras. www.raytecctv.com

Radio Alarm System for Domestic Property

The D18 system from Daitem is a radio alarm system that can be rapidly implemented and is tailored to the needs of singles, couples and young families. The owners or the tenants of free-standing houses, terraced houses and flats benefit from protection against burglary and fire that is simple to set up. The associated App with a modern GUI can be downloaded to control the system. The system can integrate up to 20 devices in three areas and fulfills the requirements of DIN EN 50131 Level 2, and thereby the conditions for a German state grant from the KfW. www.daitem.de

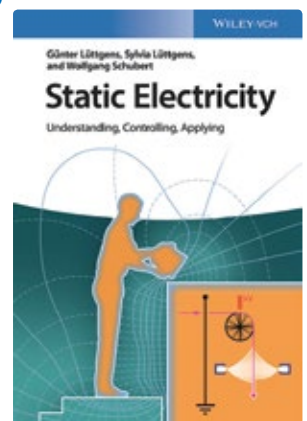


Further VMS Integrations

Wisenet Wave video management software from Hanwha Techwin is now able to support Paxton N2 access control and Coldstore video storage solutions. Users of the Paxton Net2 access control are able to view event-driven video captured by high definition IP network cameras connected to Wave VMS. The integration, which is achievable via a free Net2 plugin, provides the ability to visually verify the identity of anyone attempting to gain access to a site or sensitive areas of a building, as well as provide video verification of alarm incidents. The integration with Veracity's Coldstore 'direct to disk' storage system negates the need to install network video recorders to record and store the high definition images captured by Wisenet open platform network cameras. Despite its simplified architecture, Coldstore is able to support audio and metadata as well as video, whilst offering innovative features such as camera-level fail-over, resilience to network interruptions and optional fully-redundant recording. www.paxton.co.uk

Publication on Static Electricity

Wiley has published a hardcover book on understanding, controlling and applying static electricity. The first chapter reviews the fundamentals of understanding fires and explosions in general and electricity-induced ignition in particular, while the following chapter is dedicated to the origins of static electricity in industrial settings, such as in flowing gases and the transport of disperse systems. The major part of the text deals with measuring static electricity, elimination of unwanted charges and hazard prevention under different conditions. It concludes with an overview of practical applications in chemical and mechanical engineering. www.wiley-vch.de/en/



Günter Lüttgens, ELSTATIK, Odenthal, Germany;
Sylvia Lüttgens, ELSTATIK, Odenthal, Germany;
Wolfgang Schubert, SCHUBERT GMD, Taucha, Germany

2017. 312 pages with 225 figures, 152 in color. Hardcover.
119 € / £95 / \$165
ISBN: 978-3-527-34128-3

Multiple Remote Sites are No Problem

Communauté d'Agglomération managers in La Rochelle in western France have chosen Cliq key-based electronic access control, issued programmable keys to authorized staff and installed padlocks and cylinders at all 13 public waste reception centers that were experiencing frequent break-ins and the theft of valuable recyclable material. The sites needed a major security upgrade and a reliable locking system with a track record of successfully protecting remote, dispersed premises. The impact was instant as there has been only a single, failed, break-in attempt on a cylinder in the last 6 months. The programmable Cliq locks are key-operated and wireless – a standard battery inside every Cliq key powers the microelectronics – so new cylinders and padlocks can be deployed almost anywhere, including outdoors. They are waterproof and operate without problems in temperature extremes. www.assaabloy.com

HD Security Solutions

To bring HD clarity to analogue surveillance systems, Hikvision launched its first-generation Turbo HD DVRs and cameras in 2013. The company has now announced the Turbo HD 5.0 family of surveillance products, which includes eleven different models of Acusense Turbo HD DVRs and a range of ColorVu Turbo HD cameras. The DVR family uses the latest deep learning technologies to enhance detection of vehicles or humans while filtering out false alarms triggered by animals, leaves, and other insignificant objects. The camera's round-the-clock color-boosting capabilities are powered by a large iris and ED optical glass, an anti-glare diffusion lens, large sensing pixels and warm supplemental lighting. These technologies make it even easier for organizations and individuals to identify and react to security breaches, while also minimizing manual interventions and security costs. www.hikvision.com

AI Creating Value

Dahua Technology presented "AI Creates Value" to top security professionals during ISC West. James Wang, deputy general manager of Dahua overseas business, and Adam Burns, general manager of IoT vision solutions at Intel, were the keynote speakers. Wang defined the challenges of big data, the value of cognitive analytics, the increasing business intelligence opportunities, the expanding possibilities for improved business operations and the system architecture components that make all of this possible. "Dahua AI-powered security technologies mitigate the data challenges in physical security solutions like low processing efficiency, isolated data and massive data. Our AI security solutions, when applied to applications like retail, traffic management, logistics and warehousing, can boost business intelligence and performance, creating true value for the physical security industry," said Wang. He also introduced the Dahua deep sense series, a suite of products including network (PTZ) cameras, network video recorders, servers, etc., that adopt state-of-the-art AI-deep learning technology. www.dahuasecurity.com

Time, Attendance and Access Integrated in SAP

The method to connect Isgus terminals via the subsystem Zeus to SAP is via the HR-PDC interface. Together they provide a secure, reliable platform during installation and thereafter, proven in hundreds of installations. The same applies to Isgus terminals used in numerous large-scale projects. For example, the police in Baden-Württemberg has installed almost 1,000 units in approximately 600 offices, where 32,000 civil servants book their shift and shift times daily, which Zeus HR reliably transfers to SAP in the national data center. The solution is designed as a SAP subsystem for time recording and access control. However, it can also be used as a self-sufficient and highly efficient access control system with regard to SAP. The Zeus HR security lock plan manages all areal and temporal access rights and is also available for logical links such as room monitoring, etc. This opens up the entire portfolio of access readers, access control managers, electronic locks and smart handles to SAP users. www.isgus.de

Multiple Appearance at IFSEC 2018

Integrated security manufacturer TDSi is proud to announce that its team and products will be featuring with Assa Abloy (Stand F320), Milestone Systems (Stand C340) and Anixter (Stand E400) at IFSEC 2018 in June. Assa Abloy will be demonstrating integration of Aperio wireless door locking systems with TDSi's Exgarde security management software with a direct, secure connection between these systems and CCTV, intruder alarms, Microsoft Active Directory and other integrated systems. Milestone will demonstrate the partnership that delivers integrated access control through the Milestone Xprotect VMS engine and the end user benefits that it provides. Anixter is a major distributor of TDSi's products throughout the UK, Europe, Africa and the Middle East and will focus on the new Gardis software platform range. TDSi will also be hosting the Harmony Alliance dinner and presenting its annual partner awards. www.tdsi.co.uk

Single and Multi-Sensor Megapixel Camera Families

Arecont's Contera cameras are available in five series of two cameras each to complement the cyber-secure Mega camera family. The single-sensor cameras are available as indoor or outdoor domes, bullets and micro bullets, with a choice of 2 or 5MP. The 180° panoramic multi-sensor dome cameras offer fast frame rates (30 frames per second) and integrated IR, with a choice of 8 or 20MP models. All Contera cameras feature H.264 and H.265 codecs, SNAPstream+ bandwidth reduction technology, Nightview color low-light technology and enhanced WDR up to 120db. All models include multi-streaming at full frames per second, defog technology, digital image stabilization, industry-standard security and network protocol support and are ONVIF G and S compliant. Most models include both Smart IR that adapts to object distance and angle and an SD card slot for onboard storage. Outdoor models are compliant with the IP66 environmental and IK-10 shock resistance standards. Both families support the Arecont Vision API, offer a three-year standard warranty and feature Megalab integration support with 3rd party hardware and software applications beyond the ONVIF standards. www.arecontvision.com



Gender and Age in Appearance Search Technology



Avigilon recently previewed the next evolution of its Appearance Search video analytics technology. Available in its upcoming Avigilon Control Center (ACC) 6.10 video management software, the Appearance Search technology will allow users to search for a person by selecting certain specific physical descriptions, including hair and clothing color, gender and age. The new feature is designed to provide security operators enhanced speed and flexibility when conducting a search for a person. "Security operators are often provided physical descriptions of the people involved," said Dr. Mahesh Satharishi, Avigilon's Chief Technology Officer. "They can now use those descriptions and, within seconds, the AI engine can search all cameras across an entire site to find a person of interest." ACC 6.10 is expected to be available in the second quarter of this year and is a free upgrade to current users of ACC 6. www.avigilon.com

SECURITY MANAGEMENT

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

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

Facility Security



Walter Wurster GmbH
Heckenrosenstr. 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



Funkwerk video systeme GmbH
Thomas-Mann-Str. 50 · D-90471 Nürnberg
Tel. +49(0)911/75884-0
Fax +49(0)911/75884-100
info@funkwerk-vs.com · www.funkwerk.com
CCTV, system solution, system integration,
video monitoring security, building management

Be Part of the Section



Just send a mail to
heiko.baumgartner@wiley.com
We will be glad to advise you!

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



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



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
Eisleber Str. 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



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



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

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
Fire Alarms, CCTV, Voice Alarm 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

Alarm Management



TAS
Telefonbau Arthur 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 transmission systems, alarm and conference units.

VIDEO TECHNOLOGY

Video Technology



EIZO Europe GmbH
Helmut-Grashoff-Str. 18
41179 Mönchengladbach
Tel.: +49 2161 8210 0
info@eizo.de · www.eizo.de
Professional monitors for video surveillance with visibility enhancement technology and 24/7 use, IP decoder monitors to connect to IP cameras without any computer.

Video Technology



SANTEC

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

Video Technology



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.

Video Technology



eyevis GmbH
Hundschleierstr. 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 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



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 security solutions:
Axis is the market leader in network video and offers intelligent security solutions.


Be Part of the Section



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

We will be glad to advise you!

Video Technology



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



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



HeiTel Digital Video GmbH
Xtralis Headquarter D-A-CH
Hamburger Chaussee 339-345 · D-24113 Kiel
Tel.: + 49 431 23284-1 · Fax. + 49 431 23284-400
info@heitel.com · www.heitel.com
Video remote monitoring, CMS solution, video-based security concept

TIME ACCESS

Video Technology



Dallmeier electronic GmbH & Co. KG
Bahnhofstrasse 16 · 93047 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



www.luna-hd.de

Time + Access



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



VIDEO SECURITY & NETWORK GMBH

Your reliable partner for professional video surveillance

DEKOM Video Security & Network GmbH
Hoheluftchaussee 108 · 20253 Hamburg
Tel. +49 (0)40 47 11 213-0 · info@dekom-security.de
Member of Dallmeier
www.dekom-security.de · www.dekom-security.at

Video Technology



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 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 Weilburg
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



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



HEKATRON
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

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



Touchless Biometric Systems AG
Rietbrunnen 2 · CH-8808 Pfäeffikon, Switzerland
Tel.: +41 55 533 2000 · Fax +41 55 533 2001
tbs@tbs-biometrics.com · www.tbs-biometrics.com
TBS are the specialists behind the world's largest security integrators and countless resellers – providing biometric expertise, products and solutions in Access Control and Time & Attendance.

Fire Protection



Kidde Deutschland GmbH
Halskestrasse 38 · 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.

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 & Attendance, Access Control, Biometrics, Plant Data Collection, Staff Scheduling, SAP Communication

FIRE PROTECTION

Fire Protection



WAGNER Group GmbH
Schleswigstraße 1-5 · D-30853 Langenhagen
Tel.: +49(0)511/97383-0 · Fax +49(0)511/97383-140
info@wagnergroup.com · www.wagnergroup.com
planning, project design, engineering, maintenance for: fire suppression, fire prevention, very early fire detection, fire protection for server racks, risk management system

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

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

PLANT SAFETY

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

Fire Protection



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

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

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
- Dr. Guido F. Herrmann

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. Michael Leising
Tel.: +49 (0) 36 03/8942800
leising@leising-marketing.de

- Manfred Höring
Tel.: +49 (0)61 59/50 55
media-kontakt@t-online.de

Wiley GIT Reader Service

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

Editorial

- Lisa Schneiderheine
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 2018

4 issues 55.00 €, single copy 16.30 € 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

Printed by

pva Druck und Mediendienstleistungen GmbH
D-76829 Landau/Pfalz

Printed in Germany

ISSN 2190-4367

Company Index

ABB	21
Abus	29, 53
Altronix	11
Apollo	6, 13, 24, 38, 39
Arecont Vision	48, 53, 70
Arktis	8
ASIS	8
Assa Abloy	29, 47, 58, 68, 70, Inside Front Cover
Atral-Secal	68
Avigilon	7, 9, 27, 29, 32, 65, 70
Axis	27
Bernstein	21
Bosch	9, 12, 15, 24, 28, 32, 44, 53
CBC	29
Comelit	39
Comnet	53
Dahua	7, 10, 27, 70
Dallmeier	47
Deister	32
Dormakaba	24, 29
Dräger	24
Eizo	27
Eneo	27
EPS	24
ESG	6
Evva	6, 30
Fiessler	21
Flir	28
Genetec	12, 68
Geutebruck	5, 68
Günzburger	25
Hanwha	12, 28
Hekatron	35
Helly Hansen	26
HID	33, 63, Titel Corner
Hikvision	8, 28, 50, 68, 70, Outside Back Cover
Hochiki	10
Honeywell	25
Idis	8
Innosent	34
Isgus	70
Kaspersky	21
KEB	21
Kentec	39
Kentix	33
Kidde	10
Ksenia	35, 45
Leuze	22
Loxal	67
Lupus	35
Magnetic	30
Marshalls	30
Messe Essen	6, 37
Messe Frankfurt	10
Milestone	12
Robotix	7, 28, 42, 68, Front Cover
Morse Watchmans	9
Moxa	7, 68
Nedap	30
Novar	36, 39
Optex	30, 55
Panasonic	28, 34, 35
Patlite	22
Paxton	31, 68
PCS	65
Pelco	7
Pepperl + Fuchs	22
PHG	8
Pilz	22
PPG	54, 59
R3	23
Raytec	34, 47, 68
Rohde & Schwarz	23, 39
Säbu	26
Salto	7, 60
Seagate	34, 66
Securiton	47
SeeTec	9, 57
Senstar	31
SimonsVoss	41, 47, 62
Sigura	25
SSP	23
Stanley	53
STiD	19, 31
Süd-Metall	31
TDSI	70
Telenot	35
Trend Micro	23
Tyco	12
UBM	14, 33
Uhlmann & Zacher	68
Uniview	65
UTC	34, 35
Vanderbilt	31, 65
Volkswagen	16
Wagner	40
Walter Wurster	39
Wavestore	10
Weiss	26
Werma	23
Winstedt	51, 53



WILEY



Name: David White

Position, Company: CEO, Loxal Security

Date of Birth: August 22th 1946

Hometown: Sevenoaks

Favourite homemade dish: Baked Arbroath Smokies

CONTACT

Loxal Security

Sevenoaks, UK · 0800 9172994

info@loxalsecurity.com · www.loxalsecurity.com

- 1. Right now:**
I am working when I should be retired.
- 2. When I'm stressed I:**
Listen to music in the bath.
- 3. My biggest struggle on a workday is:**
Not being distracted from my intended task.
- 4. I can never resist:**
The challenge of solving a problem.
- 5. My biggest motivation is:**
Seeing my family succeed in the same way that I have.
- 6. At 7 o'clock in the morning:**
I am actually at work.
- 7. The natural talent I would like to be gifted with is:** being better at golf.
- 8. Guaranteed to make me laugh is:**
Donald Trump.
- 9. I have the completely useless talent of:**
Being able to solve cryptic crosswords.
- 10. The biggest challenge for me/my industry at the moment is:** Keeping pace with technological developments.
- 11. From the first money I earned I:**
Bought a clarinet.
- 12. If I was trapped in a shopping mall/ museum/skyscraper for one night, I would:** Push the fire alarm!
- 13. I was utterly perplexed when:**
A band that had auditioned and rejected Mick Jagger in the early 60s accepted me! I'm sure he must look back and feel disappointed!
- 14. My first car/bicycle was a:** Austin Healy.
- 15. I had the opportunity to shake hands with:** Duke Ellington.



Off the Record

Get to know inspirational characters of the Security Industry in GIT SECURITY's new series



FACIAL RECOGNITION

Name **John Wang**
Status **Authorized**
Gender **Male**
Location **South Entrance**
Date **2017-NOV-10**
Time **09:30:30**

Focused on the one face that matters

Hikvision's Face Recognition technology analyses facial features at the most critical security checkpoints

Hikvision's Facial Recognition Technology accurately captures facial images for comparison and analyses positions, sizes, and expressions. With deep learning technology built in, this technology instantly recalls persons of interest, then initiates access prevention, specialized services, and more. Our sophisticated algorithm and high performance GPU generate more accurate VCAs and faster computing over conventional systems. Facial recognition technology protects applications of highest value, such as financial institutions, casinos, and critical infrastructure, along with public spaces like airports, stadiums, and much more.



Hikvision Headquarters
No.555 Qianmo Road, Binjiang District
Hangzhou 310052, China
T +86 571 88075998
F +86 571 89935635
overseasbusiness@hikvision.com

IFSEC
INTERNATIONAL

HIKVISION STAND: **D300**
19-21 JUNE 2018
EXCEL LONDON UK