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MAGAZINE FOR SAFETY AND SECURITY

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**EMEA**

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ACCESS CONTROL FOR  
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If you are reading these lines it is a double reason for joy for me. On the one hand, we can assume that you are healthy and on the other hand our message reaches you. You are either holding this issue in your hands or you are looking at GIT SECURITY online through our website. This is really great. These weeks, we all have our special challenges and for us, as a publishing house, the otherwise so well-organised distribution is no longer a matter of course. To produce good content is our main task, the distribution is actually rather secondary. Especially in these times, when almost all events are cancelled, neutral and cross-provider information is probably even more valuable for you than before.

We have taken numerous measures together with our distribution partners to ensure that the dispatch of our magazines works despite all obstacles. For whom this is not possible, we make sure that you have access to all the specialist information you need for your work right now. We are therefore making all issues of our B2B magazines from Wiley GIT available to you electronically free of charge with immediate effect. If you go to the magazine sections of our websites and enter the code 247 in the field for the "subscription number", you can read your favorite magazine or newspaper from your home office 24 hours a day, 7 days a week.

Would you like to be notified as soon as a new issue is published digitally? Then simply register for the corresponding newsletter.

We have to change our behavior so often these days. A constant in our business is GIT SECURITY AWARD. The award is going into the next round now. Only the meetings with our jury to select the nominated products were affected by the pandemic. We had to replace the usual meetings in the Wiley office in Germany by several Microsoft Teams meetings. The discussions about the products were vivid as always and I think, once again we have selected a best of breed of security and safety products that are now ready to be presented. If you have a look at the pages 12 to 30 you can easily get an overview. To vote for your favorite in each category please go to [www.security-award.com](http://www.security-award.com) and vote there.

Voting is open until 23rd of August and we will present the winners in our following issues.

Enjoy reading this issue and stay safe!

Heiko Baumgartner  
For Wiley's Safety and Security team





46

**Why Are We Waiting?**  
Assa Abloy



32

**Kenneth Hune Petersen**  
Milestone



36

**Uri Guterman**  
Hanwha Techwin Europe

MANAGEMENT

3 Editorial

MARKET TRENDS

10 **Keep It Accessible**

Industry Trends: Cloud and Cyber Security Continue to Drive Market

**GIT SECURITY AWARD 2021**

12 **The Finalists Are Chosen**

Vote now – Voting is Possible until August 23, 2020 on [www.security-award.com](http://www.security-award.com)



SECURITY

VIDEO MANAGEMENT

31 **On Track in Turbulent Times**

Milestone Systems Surpasses DKK 1 Billion Revenue

34 **Well On The Way**

Addressing the Growing Security Needs of Transportation Agencies

VIDEO SURVEILLANCE

36 **Back To Business**

Video Analytics Can Play a Role in Helping Businesses to Reopen

VIDEO SURVEILLANCE

38 **Parcel Tracking Goes Visual**

Value Added Usage of Hikvision Surveillance Equipment

SPECIAL FOCUS ACCESS CONTROL

40 **The Ins And Outs**

An Overview of Some of The Access Control Systems and Solutions Currently Available

44 **3 x 3 Questions**

Mobile Access

46 **Why Are We Waiting?**

Wireless Access Control: Multiple Solutions for a More Efficient Workplace



KEY MANAGEMENT

50 **Corona and Keys**

How Key Control Helps Businesses During a Pandemic

LONE WORKER

51 **Alone at Risk**

Interview with Steve Hough on How Working Alone Carries an Increased Risk Potential

**Thomas Schulz**  
Assa Abloy



**Vincent Dupart**  
STid



**Michael Unger**  
Salto Systems



**44**

**51**

**Steve Hough**  
Soloprotect



**60**

**Martin Meisenburg**  
Narda STS



## COMPANIES

### 52 Security at the Core

The Expectations of Security Technology in these Times of Digitalization – an Interview with Martin Bemba, CEO of Abus Security Center

## SPECIAL FOCUS AIRPORTS

### 54 Drones Are An Issue

A Report on Drone Security Around the Airport

## AIRPORTS

### 56 Safe Fences, Safe Runway

Three Major Airports in Italy Chose Cias Sioux Mems Fence-Mounted System To Protect Their Perimeters

## RADAR

### 58 Equipped for All Applications

Radar Rises Even to High Demands

## SAFETY

### HAZARDOUS SUBSTANCES

#### 60 Safe, or not?

How Radiation Exposure Can Be Checked Reliably

## FIRE PROTECTION

### FIRE ALARM SYSTEM

#### 62 Burning for Profession

Blaaha Office Furniture: Fire Detection System by Labor Strauss Protects Multimillion-Euro Property



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## SECTIONS

06 Security News

64 BusinessPartner

67 Company Index | Imprint

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## Optex Sensors Helping to Protect Endangered Elephants in Kenya

Intelligent Light Detection and Ranging (LiDAR) sensors from Optex are at the heart of a new solution that is helping to protect endangered elephants at the Mount Kenya National Park. Mount Kenya is the second largest mountain in Africa, and the UNESCO listed National Park was established to protect the mountain, which is a water tower for the surrounding area and whose forest reserves and surrounding areas provide refuge for a vast array of wildlife, of which there is a large population of Elephants, estimated at around 2,500.

Despite the numbers, the animals are under constant threat from poachers. The changing geography of the region, and the proliferation of agricultural farms, which has also resulted in increased incidences of human-elephant conflict, with the Elephants causing damage to the fencing and property that surround these farms when trying to re-enter the park.

Instarect Limited, a security fencing solutions provider based in Nairobi, was approached by the Mount Kenya Trust – a non-profit organisation running conservation projects for the forests and wildlife of Mount Kenya – to design and install a new Elephant access control system within the three Elephant ‘corridors’.

The corridors are designed not only to keep the Elephants protected but also allow them to re-enter the park



safely and securely, without causing any damage to the fencing or farmland. Instarect selected Optex’s intelligent RLS-2020 LiDAR sensors as an integral part of the project.

In conjunction with new solar powered gates and CCTV cameras that have been installed, the RLS-2020 sensors, with a 20x20m detection range, are being utilised to detect the Elephants as they approach and automatically open the gate for them. The sensors have been programmed to only detect Elephants and will not open for smaller animals or humans.

When the Elephants trigger a gate to be opened, authorised park rangers are immediately notified via an SMS and are then able to view the CCTV cameras on their phone to check whole herd of Elephants have re-entered the park safely. The rangers then send an SMS to close the gate.

Ebrahim Nyali, Security Solutions Designer at Instarect Limited, says the new system is working well: “The Elephants are very intelligent and have quickly adapted to these new gates. They have learned to wait for the gates to open for them to re-enter the park and do not try to enter with force.”

Masaya Kida, Managing Director of Optex EMEA, says the Redscan RLS-2020 Series provides enhanced detection in even the most challenging environments and easy integration with any video security solution: “These sensors are intentionally designed to create customised detection area and set a wide range of target sizes. This flexibility allows it to be used for many different and sometimes unusual applications; the Elephant detection is a perfect illustration of that.

“We are pleased and proud to be chosen to work with Instarect on this important project and that our leading sensor technology is helping to protect the Elephants & reducing human wildlife conflict around the Mount Kenya National Park”.

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

## Cybersecurity Veteran Fred Streefland Joins Hikvision

Hikvision Europe has announced that Fred Streefland has been named EMEA Cybersecurity Director. Streefland will lead and support EMEA cybersecurity programs and initiatives, as well as work with cybersecurity institutions and researchers, public authorities, local partners and other key stakeholders of the company. He will be based in the European headquarters in Hoofddorp, the Netherlands. With more than twenty years of cybersecurity experience in both public and government domains, Streefland is joining Hikvision from Palo Alto Networks, where he worked as the Chief Security Officer (CSO) for Northern and Eastern Europe and advised C-level executives of several multinational organizations and officials of governments on their cybersecurity challenges. Streefland will be responsible for the structure, development and maintenance of key internal and external cybersecurity initiatives and programs in the EMEA market.



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

## Milestone Systems A/S’ CEO Resigns after 17 Successful Years

The Board of Directors of Milestone Systems, the open platform video management software (VMS) company, has announced that President and Chief Executive Officer Lars Thinggaard has decided to leave the company. As a result, the Board has started an open search to appoint his successor. During the intervening period, Lars Larsen, Milestone Systems’ chief financial officer, will serve as interim CEO. Following the announcement, Lau Normann Jørgensen, chairman of the Milestone Group, said: “I am very grateful to Lars for the energy, vision, and heart that he has dedicated to Milestone employees and the community partners. Please join me in wishing Lars the absolute best in all his future plans and endeavors.” For the last six years, since the company’s acquisition by Canon Group in 2014, Lars Thinggaard has led Milestone as a standalone company in the Group, which has developed into a growth company with a strong team and a great future.

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

## Global Fire Group appoints Paul Pope as Group Business Development Director

Global Fire Group, which includes Cretech, specialists in emergency lighting equipment, have announced the appointment of Paul Pope as Group Business Development Director Worldwide. Paul will oversee the group’s international growth strategy, marketing and product management. He has been active in the fire and security industry since 1985 and has held senior management positions in some of the leading international fire and security companies. He graduated as an engineer within the Institution of Fire Engineers (IFE) of which he is still a member. Talking about his new role, Paul Pope said: “I’m thrilled to be joining Global Fire Group at such an exciting time in the industry and in the group’s expansion. I’m looking forward to delivering the group’s ambitious global growth strategy and I am excited about working with such an impassioned team.”



[www.globalfire.pt](http://www.globalfire.pt)

### Michael Seiter and Magnus Ekerot Join Bosch Building Technologies

Effective March 1, 2020, Michael Seiter (48) and Magnus Ekerot (51) have taken over newly established roles within Bosch Building Technologies. Michael Seiter has assumed the role of senior vice president, responsible for the Video Systems and Solutions business. Magnus Ekerot has joined Bosch as senior vice president, responsible for the global marketing of the company's comprehensive security offering as well as for sales coordination and product management of the Video Systems and Solutions business. "Michael Seiter and Magnus Ekerot will both play very important roles in advancing and further strengthening our footprint in the global video market. These include the further expansion of our portfolio as well as putting an even stronger focus on software. Simultaneously, we want to keep and enhance the offering of comprehensive security solutions", says Tanja Rückert, president of Bosch Building Technologies.

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

### BSIA appoint Pauline Norstrom as Honorary Member

Pauline Norstrom has been appointed by the BSIA Board as Honorary Member of the Association. Pauline's involvement with the BSIA stretches back over 20 years, holding the position of Chair of the Association from 2014-16 and serving six years as Chair of the Video Surveillance Systems (VSS) section. During her tenure as Chair of the Association, she championed the Association's strategy, part of which was to promote the value of member services over and above price in a highly competitive marketplace, resulting in the development of the white paper, The (Real) Price of Security Solutions.

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



### SIA and Asis International form Partnership

Asis International and the Security Industry Association have entered into a partnership to best aid in the COVID-19 recovery and rebuilding efforts of its diverse group of 34,000 member professionals and over 1,000 member companies respectively. The partnership will begin by addressing two primary areas of focus - business operations and advocacy - as well as content development and coordination. The SIA will lead a team composed of representatives from SIA and Asis government relations and affairs departments as well as Asis' digital strategy office. The primary responsibilities of this team will be to review and analyze rules pertaining to the final enactment of COVID-19 aid packages expected to be passed by Congress, review the supply chain and any changes in federal rules that may be needed and provide any information about preparedness grants to members.

[www.asisonline.org](http://www.asisonline.org) • [www.securityindustry.org](http://www.securityindustry.org)

### Ansell Urges Global Priority for Supply of PPE

Ansell is working with governments and health organizations worldwide to ensure unrestricted personal protective equipment (PPE) manufacture and supply is given top priority during the COVID-19 pandemic. As governments around the globe take measures to reduce the rate of infection in their populations, the unfortunate consequence has been to limit or shut-down PPE manufacturing or hinder efficient distribution, thus exacerbating the worldwide shortage of essential protective equipment. Ansell products such as AlphaTec suits and Gammex and Microflex gloves comply with WHO guidance, EU and FDA specifications regarding infection protection while minimizing cross-contamination risk when a novel coronavirus is suspected. Ansell has expanded production capacity of protective products critical to healthcare workers and other essential industries.

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

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[assaabloyopeningsolutions.eu/ecliq](http://assaabloyopeningsolutions.eu/ecliq)

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## BRE Global Anticipates Brexit implications for UK Notified Bodies

The Construction Products Regulation (CPR) lays down criteria for the placing on the market of construction products in the EU. The Regulation provides a common technical language to assess the performance of construction products. It ensures that reliable information is available to professionals, public authorities, and consumers, so they can compare the performance of products from different manufacturers in the EU countries. Brexit could have an impact on this process. Graham Orme and Dr Debbie Smith (BRE Global Ireland) provide insight.

### The CPR

Products covered by the CPR, such as asphalt, doors, facades and fire protection products, must – amongst other requirements – have a Declaration of Performance (DoP) to be marked with a CE mark (see figure 1, source Euralarm). An interesting guideline on the CPR can be found on the Euralarm website. Over the past years circa 2'500 CPR certificates have been issued for fire detection systems by BRE Global (UK). The CE mark is not only mandatory for the CPR but also for other EU directives, such as the Marine Equipment Directive (MED), Pressure Equipment Directive (PED) and Transportable Pressure Equipment Directive (TPED). The advantage of CE marking for the manufacturer is the fact that the assessment and verification of their products should only be carried out in one Member State of the EU. Once the CE mark is obtained the product can then be placed anywhere on the EU market. The assessment and verification are carried out by accredited certification and testing bodies (Notified Bodies). With the UK leaving the EU, the Notified Bodies in the UK will lose their official status in the rest of the EU.

### Loss of EU status

That loss of status will have impact on customers whose business depends on the CE mark to place their products on the EU market. Since the first signs of Brexit became clear BRE Global has been

working on a solution for all businesses that rely on CE marking. To enable BRE to continue to offer Notified Body services they have set up a company in Ireland, called BRE Global Ireland. Being a Member State of the EU and having a legal system that is somewhat similar to that of the UK, the choice of Ireland is more or less self-explanatory. BRE Global Ireland was granted Notified Body status and designated as a Technical Assessment Body by the European Union for the CPR, making the company resilient to the outcome of Brexit. BRE Global Ireland is also a Notified Body for the MED and TPED.

### Business as usual

Although it's more than three and a half years ago since the Brexit referendum was held, there still is no clarity what will happen after the UK leaves the European Union with or without a deal. Fact is that companies that currently are CE marking their products under existing EU rules, will be required to do so post Brexit, provided that they wish to continue placing them on the market in the EU. In the post-Brexit era, UK Notified Bodies will lose their status as EU Notified Bodies. Companies that rely on a UK Notified Body for certification of conformity for CE marking purposes, will need to obtain alternatives, such as BRE Global Ireland. The company's current activities under the Construction Products Regulation (CPR) and other directives will transfer across to BRE Global Ireland making them ready for a Brexit with or without a deal. For customers this means that business will continue as usual.

Product testing, as part of the CE marking procedures (AVCP level1), can be undertaken at a laboratory (by sub-contract) chosen by the Notified Body. This laboratory can be located outside the EU as long as the assessment process is carried out by a Notified Body within the EU. The testing of many products can therefore continue at UK laboratories while being fully compliant with the requirements of the CPR post Brexit.

## Cedr Factory Employs Dahua Surveillance Solution to Improve Security Level

With a history of over twenty years, the Cedr factory is a manufacturer of wooden doors, kitchen cabinets and other wood products in Russia where safety is of paramount concern. Due to the extremely high risk of fire, the customer had very specific demands for a smart system to store videos up to thirty days of videos, with copies stored on a separate network at the same time. A total of 400 IP cameras from Dahua Technology were installed inside the factory, including the DH-IPC-HFW1230SP, DH-IPC-HDP-



W1231FP-AS and DH-IPC-HFW2231TP-ZS models. The first two are used to monitor machine operation, and the DH-IPC-HDP-W1231FP-AS to monitor corridors. These two types of cost-effective mini-bullet network camera have a 2MP resolution with a motorized 2.8mm/3.6mm fixed lens. Detailed images can be captured under total darkness as the cameras' Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate for the distance of an object and prevent the IR LEDs from whitening out images as they come closer to the camera. [www.dahuasecurity.com](http://www.dahuasecurity.com)

## Inter Airport Europe Rescheduled to November 2021

Mack Brooks Exhibitions has announced that inter airport Europe will be rescheduled. The 23<sup>rd</sup> edition of the event, which was planned to take place at the Munich Trade Fair Centre in Germany in early October 2021, has been rescheduled to 16 – 19 November 2021 following a series of exhibition postponements and a subsequent knock-on effect on the 2021 exhibition calendar, following the recent COVID-19 developments globally. Speaking about the announcement, Nicola Hamann, Managing Director of Mack Brooks Exhibitions, said: "We are all aware that this year has been a challenging year so far for the exhibition industry, many events had to be postponed to later in the year or next year due to the repercussions of COVID-19. Consequently, this also affects the exhibition calendar for 2021. We therefore, in close coordination with all partners involved, had to reschedule inter airport Europe 2021 to accommodate these changes".



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

## Salto KS: 100.000 Access Points

Launched in late 2012, Salto KS was the first cloud-based access control solution in the market. Since then millions of Salto users have experienced the benefit of this technology which delivers a flexible, cloud-based 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. Designed to work for virtually every door, Salto locks can go on any door in the world, however unusual the door may be. Salto offers a broad range of hardware, making smart locking to any access point possible.

“We are so proud to have surpassed 100,000 access points for Salto KS as it further solidifies our position as a worldwide leader in our ability to deliver comprehensive security technology via a variety of technology platforms,” said Aznar Sethna, Salto Systems, CSMO. “We are grateful to be able to offer this flexible solution for a variety of end-users who otherwise might not have been able to experience smart access control. But what would be virtually impossible to manage with mechanical keys is quite easily managed with smart, secure, wireless, and mobile electronic locking solutions from Salto KS.”



## More Functions, Less Maintenance

Salto KS offers end-users better functionality and performance, reduces cost, and almost eliminates the need for maintenance. It's used in a variety of environments like working spaces offices, co-living communities, and retail. Users control access for visitors, employees, or residents via the Salto KS web and mobile app

which offers full control of all functions and features. One of the most convenient aspects is that Salto KS can be managed on-the-go, remotely and in real-time via a mobile application which allows immediate unblocking and blocking and offers a variety of management options.

“When we first developed Salto KS we knew that the cloud offered a great opportunity to build upon our foundation of smart access control and im-

prove overall keyless and mobile access flow by trusted technology,” said Aznar Sethna, “As we do with all of our products, we continue to improve upon Salto KS so that we can offer a solution that works for both today and tomorrow. We look forward to achieving the next 100,000 access points!”

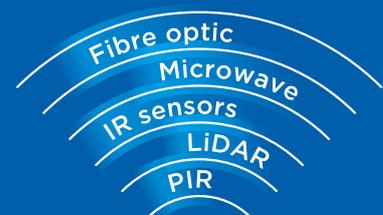
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ENTRANCE DETECTION

## MARKET TRENDS

# Keep It Accessible

Industry Trends: Cloud and Cyber Security  
Continue to Drive Market



Advancements in security technology, fueled by growing capabilities in AI / deep learning and increasing cloud adoption, are changing the market in a host of different ways. As the technology becomes more sophisticated, users are increasingly looking for it to be presented in a user-friendly and intuitive way. With this in mind, here are some trends ONVIF are expecting to see continue in the year ahead that will help these advancements remain accessible and useful tools for end users.

**R**eady or not, the cloud is already making its impact on the industry. Specifically in the IoT space, the security industry is making the shift to truly embracing the cloud. Worldwide spending on public cloud services and infrastructure was forecasted to reach \$210 billion in 2019 – an increase of nearly 24 percent over 2018.

Beyond the traditional benefits of cloud, such as reduced hardware purchase and maintenance costs, the video surveillance side of the market benefits from the cloud because it helps enhance functionality through analytics, as well as better battery utilization on the device level and bandwidth management. Benefits are also on the access control services side as well – providing value for businesses and organizations of all sizes. Cloud-based access control enables credential management that's more accessible, flexible and easier to manage. Cloud connectivity provides the ability for a small business owner to grant and revoke

access rights, create schedules and monitor their access control system from a remote location.

### Interoperability

Aside from IoT, the industry has also matured in other ways. Complicated issues like integrations and interconnectivity have become more simplified, while still maintaining system integrity. Integrators and manufacturers in particular have a real opportunity here, especially in markets such as schools and governments that require a higher need for efficiency, which can be achieved through smarter integrations.

ONVIF plays a large role in providing these easier and smarter integrations. Their profiles are widely known throughout the security industry as standards by which products can use to communicate and what enables devices and clients from different manufacturers to perform basic (but ever growing) sets of functions. Enabling interoperability between

manufacturers' products provides increased levels of choice, which results in best of breed solutions, customizable to individual user needs.

Some ten years and six profiles later, ONVIF have developed some other tools to assist in the connected platform approach. Some innovations are standalone features, which were not intended for a specific profile, or other functions that came into existence as a fortuitous by-product of something else. In any case, the ONVIF Core Specification is full of these additional tools that can enrich the industry perhaps in different ways than some of the profiles.

One of the more recent examples is Export File Format, which provides the ability to export recorded video files in a common format and also provides a video player with which the clip can be replayed. While it certainly serves an important function, particularly to the law enforcement community who need the ability to access video footage from

multiple sources in the event of an incident, export file format is not included in any specific profile. Rather, it is a feature contained in the Core Specification, and ONVIF members are free to deploy the feature as they wish.

### Cyber Security

In the past year, cyber security concerns have remained a focal topic. The industry responded well to the sudden increase of cyber security issues, with a growing list of companies having well-defined processes in place. Some companies offer full-scale cyber security programs, whereas others simply keep end-to-end encryption in mind when designing a

system from conception to installation. The user community is quickly learning that cyber security is not an isolated technical challenge or threat, but rather an ongoing commitment to have security processes and policies in place and up to date.

This recognition that cyber best practices must be in place, regardless of system approach, is contributing to an increase in demand for integrated solutions that can be easily monitored. In 2019, the security world saw rising interest for interoperability all the way to the system-to-system level, not only within the security industry, but also in neighboring industries where the prospects for

IoT have drastically improved schools, government and smart homes. As such, the industry has matured in its relation to IoT. We can now only imagine how IoT will play a part in smarter and safer system deployments in the future.

### Author

**Per Björkdahl, Chairman,**  
ONVIF Steering Committee

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### PAC Launches Complete New Access Control Portfolio

PAC has comprehensively redesigned its portfolio to meet the rigorous demands of today's residential, educational and commercial environments. Key components of the portfolio are the 512DC analogue and 512DCi digital access controllers, which replace the highly successful PAC 500 range. Scalable from 1–2,000 doors, these controllers are able to support up to 75,000 unique identification devices via Access Central, the enhanced management software. They feature two inputs and two outputs, as well as providing functionality including local anti-passback, event to action, mustering, lift call and alarm point control. The system's PS50 energy efficient power supply's credentials have been externally verified via certification to California Energy Commission (CEC) Level 6. This means that the highly energy efficiency facilitates operational savings. [www.pacgdx.com](http://www.pacgdx.com)



### Switch Tech Wins Red Dot for Outstanding Design Quality

Dormakaba has been selected as a Red Dot Award winner for its latest innovative product design, Switch Tech. The new platform extends electronic access control to applications previously not practical by offering a digital replacement for mechanical keys and mechanical small format interchangeable cores, commonly referred to as SFICs. The initial product to feature this platform, Switch Core, will work wherever SFIC's do, including cylindrical, mortise and other locks by BEST, Sargent, Yale, Corbin Russwin, Schlage and more. Switch Core is ideal for retrofitting electronic control into existing doors on interior rooms, closets, cabinets and cases, extending access control further than previously possible. [www.timeforaswitch.com](http://www.timeforaswitch.com)

### Protecting Public Infrastructure and People

Public administrations, organizations and infrastructures must always be comprehensively and reliably protected. Be it from intrusion, damage or cyber threats, Mobotix intelligent video technology can not only provide solutions to counter these threats but also assist in increasing efficiency in processes and safeguarding assets. The technology continues to evolve through artificial intelligence and on-the-edge analytics to alarm, prevent, and mitigate physical and digital hazards.

The new Mobotix 7 open and modular video system platform changes the way video surveillance and video analytics are used and enables deep learning and AI tools in addition to high reliability and performance. "Mobotix offers a complete product range to the federal, state and local governments, which as a complete solution covers all needs and requirements of the public sector," says CEO Thomas Lausten. [www.mobotix.com](http://www.mobotix.com)



### ConteralP Megapixel Camera Series Expanded

Arecont Vision Costar (AV Costar) has unveiled multiple high performance cameras for the ConteralP megapixel (MP) series. The four new models build upon the prior high performance, superior image quality, outstanding reliability, ease of installation, and competitive pricing. The newly unveiled MicroDome LX offers customers the choice of indoor ultra-low profile flush-mount models for discreet surveillance or compact surface-mount versions for indoor/outdoor use. Indoor models feature a built-in microphone, while the outdoor MicroDome LX includes integrated IR illuminators. All these cameras deliver up to 30 fps of megapixel video and include a motorized remote focus lens for rapid setup, with a choice of 1080p (2.1MP) or 5MP resolution. [www.arecontvision.com](http://www.arecontvision.com)

GIT SECURITY AWARD 2021

# The Finalists Are Chosen

GIT SECURITY team is proud to report that participants and jury could not be hindered by major things like pandemics and such to be part of GIT SECURITY AWARD 2021. For the first time, the jury meeting took place digitally. While the jury was very dedicated in choosing the right products, it now is your turn, dear reader, to select your favorite product and vote.

In the following pages, we will display all the 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

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. Therefore, a business address is essential. Select one product in each category.

**Vote now – Voting is Possible until August 23, 2020 on [www.security-award.com](http://www.security-award.com)**

## The Jurors ▼



◀ Regina Berg (Wiley), Birgit Sellmaier (VDMA), Dr. Timo Gimbel (Wiley), Dr. Markus Winzenick (ZVEI)



Heiko Viehweger (Pataco), Steffen Ebert, Dr. Heiko Baumgartner, (both Wiley), Thomas Kunz (vi2vi)



Dr. Heiko Baumgartner, Steffen Ebert, Thomas Kunz (vi2vi), Lisa Schneiderheinze (Wiley) ▶

◀ Dr. Peter Schaefer (Merck), Steffen Ebert, Eva Kukatzki, Dr. Heiko Baumgartner (all Wiley)



◀ Manfred Gügel (MNO), Dr. Heiko Baumgartner, Bernd Sassmannshausen (Merck), Steffen Ebert



Manfred Gügel (MNO), Lars Komrowski (TÜV), Bernd Sassmannshausen (Merck), Peter Krapp (ZVEI) ▶



**Ansell**

# tough CHEMICAL PROTECTION unparalleled COMFORT

## PROBLEM

Gloves that offer strong resistance to chemicals are often thick, bulky and uncomfortable. Handling delicate instruments or small objects can be difficult when wearing them.



SOLVENT RESISTANT EXTERIOR

ACID + BASE RESISTANT MIDDLE LAYER

EASY DONNING INTERIOR

## SOLUTION

Microflex® 93-260 gloves are the thinnest chemical resistant gloves available, offering outstanding chemical protection, comfort and tactility.



## MICROFLEX® 93-260 Chemical Resistant Disposable Nitrile Gloves

With an innovative three-layer design, Microflex® 93-260 gloves offer the reliable protection workers need when handling chemicals. As the thinnest chemical resistant disposable gloves available—they also offer the comfort, dexterity and tactility workers need to be their most productive.

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# Category A

IT Security and Safety for Automation, Cyber Security

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**2021**  
**FINALISTS**



## ABB Stotz Kontakt: HD5 Three-stage Enabling Device

The new three-stage HD5 Enabling Device offers maximum safety with extraordinary flexibility and perfect ergonomics.

The optional emergency stop, the integrated flashlight and a motion sensor provide additional functions and optimum safety for the operator. Freely programmable control and signal elements allow for individual and customized use. Furthermore, the housing complies with the guidelines of "hygienic design" and is made of the

highest quality materials. This ensures functionality also in demanding application environments. HD5 complies with protection class IP65 and has received CE, TÜV-Süd and cULus approvals.

## AIT Solutions: Herakles Network Management Systems

The Herakles network management system covers three basic areas in the OT environment: asset management, configuration monitoring and documentation of known errors. These elements are the basis for the implementation of security measures. While these use cases have long been solved in IT-based devices, a corresponding simple solution for OT devices has been missing until now. Herakles now closes this gap by detecting and monitoring all Profinet components including firmware or hardware states as well as all basic configuration properties – device name, IP configuration or topological relationships. If changes occur, the users are informed accordingly. Herakles thus creates a fundamental basis for cybersecurity strategies in the OT environment of manufacturing companies.



## Bihl+Wiedemann: ASi-5 Fieldbus Gateway

ASi-5, the evolution of the proven standard AS-Interface, stands for great data bandwidth and short cycle times. In this way, larger amounts of data can now be transferred much faster. In addition, the integration of intelligent sensors and actuators such as IO-Link is now considerably easier, with simultaneous downward compatibility to all previous ASi generations. Since energy and data are transmitted simultaneously on the yellow ASi cable, the cost and wiring effort is much lower than with other fieldbus systems. Last but not least, the onboard web server enables a simple diagnosis & remote maintenance, whereas the integrated OPC-UA server allows simple incorporation into Industry 4.0 applications.



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## Clarity: Continuous Threat Detection (CTD) OT Security Platform

CTD bridges the IT/OT security gap. It automatically discovers OT systems and IoT devices on the network and classifies each device based on both static and behavioral attributes. CTD thus enables complete visibility into OT networks, the ability to discover and manage all assets within those networks, and continuous monitoring of all directly relevant threats and vulnerabilities. CTD leverages Clarity's proprietary deep packet inspection (DPI) technology to extract precise details about each asset on the OT network, profile all communications and protocols, generate a fine-grain behavioral baseline that characterizes legitimate traffic, and send real-time alerts on baseline deviations, as well as the presence of indicators of compromise (IoCs) and exact-match vulnerabilities within your environment.

**Euchner: CTM****Transponder-Coded Guard Locking Device**

The new transponder-coded CTM guard locking device has been specially developed for use on small flaps and lightweight doors on packaging machines and is particularly impressive due to its small dimensions. It is one of the smallest guard locking devices on the worldwide market and provides process and personnel protection in the smallest of spaces. The guard locking device can be integrated almost invisibly into machines, providing design engineers with greater freedom. Despite its compact design, the CTM has a locking force of 1000 N and offers reliable safety door protection in accordance with Cat. 4/PL e as per EN ISO 13849-1 (highest protection class IP69). The CTM is also available as a hygienic variant and offers future-proofing in terms of Industry 4.0 thanks to intelligent communication capabilities.

**Georg Schlegel: Emergency Stop Series Test Machine Fully Automatic Test System**

In case of an emergency, emergency-stops are crucial. Thus, quality has top priority for manufacturers. To be able to completely cover every safety-relevant parameters, the company Georg Schlegel has designed a fully automated test system. For 225 variants the robot is measuring the threads, the forcedistance ratio and the torque, a visual inspection is done simultaneously by cameras. By means of the serial number, which the robot prints on automatically and the inspection record the result's traceability is always guaranteed. In cooperation with all departments involved the requirements for the testing system were documented in a specification sheet.

**KEB Automation: Combivert F6 Pro Drive Controller with Encoderless Safety Functions**

The Drive Controller Combivert F6 from KEB Automation is frequency inverter and servo drive in one device. It is applicable for control of different motor technologies with or without encoder. The safe operation of machines often requires safety functions to limit speeds, directions or axis positions. The Combivert F6 offers scalable safety functions directly in the drive and in the new device variant Pro also many functions without external encoder – unlike previous solutions with classic, safe encoder feedback. In this way, safe solutions can be implemented, for example, in applications in which no encoder signal is possible. Encoderless safety functions offer cost-efficient options for simple motion monitoring in addition to more individual machine concepts.

**MB Connect Line: mbNetfix Industrial Firewall**

Controls and other components of production plants often have no security functionality of their own. In order to enable secure networking, it is recommended to segment the production network and only allow defined communication at the junctions. The self-learning industrial firewall mbNetfix is ideally convenient for this. Using a whitelist, the user defines which connections, services and protocols are permitted. Any other communication is blocked. To control the communication traffic, the firewall can filter out the allowed and forbidden traffic based on the source MAC/IP addresses, the destination MAC/IP addresses and the ports. In order to keep the attack vectors as small as possible, mbNetfix was designed without a web interface already during the development of mbNetfix.

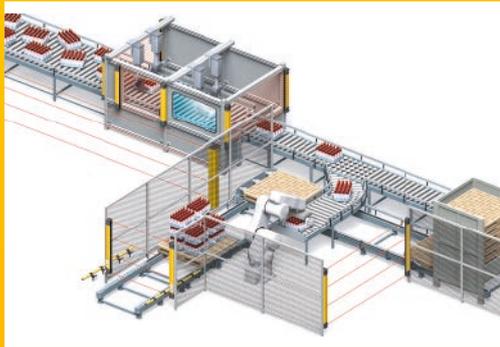
**Moxa Europe: Intrusion Prevention System (IPS) Cyber Security Solution for OT and IT**

In order to ensure that network activity on industrial networks is authorized, Moxa's industrial cybersecurity solution allows to define granular access controls at different levels. One can define a whitelist of devices and IP ports that are allowed to access all or part of the entire network. In addition, one can also define the authorized protocol format to prevent unauthorized commands from passing through the industrial IPS or firewalls. Furthermore, OT engineers can even define which control commands can pass through the network to reduce human error associated with sending a wrong control command. In addition, the IPS provides virtual patching of vulnerabilities for operating systems, application software, and industrial equipment such as PLCs.



## Netskope: Netskope Private Access (NPA) Cloud-based Security Network

Netskope is the only cloud security provider with a fully cloud-native global network (Netskope NewEdge). This provides a resilient and performant architecture that is built to enhance latency-sensitive security functions such as Data Loss Prevention (DLP) and threat protection and delivers real-time security without compromising performance. The Zero Trust approach helps enforce consistent policies across on-premises and cloud environments, increasing security across the entire enterprise. Authorized users get access to their applications (and not the entire network) based on user identity and the security posture of the devices. This protects private applications and other network assets from malicious insiders or compromised accounts.



## Omron Electronics: F3SG-SR Light Curtains

The F3SG-SR series offers a complete line-up of light curtains, which includes a wide variety of applications and protective heights, covering all aspects from design through to maintenance. With F3SG-SR Series you're able to standardize mechanical design across production lines and eliminate complexity of selection and design. In addition, tightly sealed and rugged structure with oil resistance together with the long-distance operating range thanks to its unique optical design enables F3SG-SR series reliable detection even in harsh environment and extreme temperatures. Installation and maintenance have also been simplified. Thus, it is possible, to copy the configuration of old light curtains and intuitive displays facilitates the fine adjustment of beams for scanning.

## Pilz: PSENscan Safety Laser Scanner

The safety laser scanner PSENscan provides safe, productive monitoring of stationary or mobile danger zones, but that's not all. As of now it also has ROS (Robot Operation System) on board, specifically for production logistics: with ROS packages (from the Open Source Framework ROS), the safety laser scanner can now also be used for dynamic navigation of automated guided vehicles or generally for mobile applications in robotics, using SLAM for example (Simultaneous Localisation and Mapping). The required ROS packages can be installed directly from the open source framework, which makes integration easier. Pilz's own development of the software features by Pilz itself also ensures that they are quickly available to the user.



## Schneider Electric: XPSU Safety Modules With Comprehensive Diagnostics

Why was the machine or plant stopped for safety reasons? Up to now, safety modules have only reported the status that a shutdown has occurred. The user could only find out the reason on site. Thanks to Industry 4.0, users want more information without additional investment, even in cost-sensitive applications. For this reason, the XPSU safety modules have a diagnostic output that transmits an open telegram with over 40 diagnostic states via a simple wire connection to the standard input of a control system. This means that existing applications can also benefit from a transparent image of safety without having to change technology. Desired shutdown, wiring error or waiting for start? Now the answer knows the PLC and can inform the operator in order to eliminate causes in a targeted manner.



## Sick: sBot Speed – UR Safety System

The sBot Speed – UR safety system from Sick permits unrestricted and safe access to the robot's danger zone. It offers ready-made, tested safety functions for implementation in the safety controller and can be easily integrated into the robot controller. The performance level PL d (ISO 13849) is achieved with the integrated safety technology. It ensures safe human-robot cooperation, reduces machine downtime at the same time and enables high performance of the robotics application. This increases productivity, as downtimes are reduced and workflows optimized. The sBot Speed – UR not only has the required hardware components, but also all UR-specific parameter settings as well as a wiring diagram and Sistema file, which are contained in the detailed documentation.

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## Category B

Fire and Explosion Protection, Industrial Safety



### Asecos: Ion-Line Safety Storage Cabinets

Safety storage cabinets are designed for passive or active storage of lithium-ion batteries according to EN 14470-1 and -1363-1 with a fire resistance of 90 minutes – fire protection from the outside-in. All models of the Ion-Line (widths 120 cm, 60 cm) offer fire resistance for more than 90 minutes when exposed to fire from the inside-out. In accordance with TRGS 510, the cabinets are classified as a storage section – the specifications of VdS 3103:2016-05 are thus met. The Battery Store Pro and Battery Charge Pro models also feature a 3-stage warning/fire suppression system in the interior of the cabinet (ready-to-plug-in): a fire in the cabinet is detected immediately – this provides increased safety. There's a particularly high risk as soon as batteries are charged unattended outside working hours. This minimizes the risks of spontaneous combustion when charging the batteries.

### Ansell Healthcare: Microflex 93-260 Chemical Resistant Glove

The three-layered design of Microflex 93-260 protects against harsh chemicals (e.g. heptane, formaldehyde, sulfuric acid) and enhances tactility and dexterity when handling small parts and tools. The glove is silicone free which is eliminating the risk of product contamination like when handling paints. The soft polymer formulation and ergonomic design improve fit, feel and flexibility, for more comfort and extended wear time. Thanks to its low acceptable pinhole rate (0.65 AQL), the wearers can benefit from a reliable protection against rip tears. The glove is compliant with EN 388, EN ISO 374 type B and EN 1149 (antistatic). Microflex 93-260 is one of the thinnest chemical resistant disposable gloves on the market. It offers the comfort, tactility and dexterity workers need to be their most productive.



### Denios: SpillGuard

#### Hazardous Leak Recognition System

SpillGuard is a leak recognition system for hazardous liquids. The system operates fully autonomous and fits into any type of spill pallet. It can detect every hazardous liquid with a sensor underneath the device and is classified for ATEX zone 1.

It is easy to install – it just needs to be placed on the deepest spot of a spill pallet and activated by the push of a button. A visual and audible alarm signal is created as soon as the sensor detects any kind of liquid and will last for a minimum of 24 hours. It can be turned off by pushing the button on it. The battery has a lifetime up to 5 years and the device has a highly resistant and electrically conductive housing to ensure a longtime use.

SpillGuard is a leakage sensor which alarms acoustically and optically when a hazardous substance is detected. It helps to react in time in case of leakages of hazardous substances and to avoid high follow-up costs for elimination and damage to the environment.



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### Düperthal: Battery line Safety Cabinets

Düperthal safety cabinets Battery line type 90 according to DIN EN 14470-1 (resp. DIN EN 1363-1), are designed for the high requirements for safe charging of Li-Ion batteries. If Li-Ion batteries ignite themselves due to malfunction, the cabinet doors close automatically, a special mechanism locks the doors. Opening by persons and a possible backdraft is prevented. Only authorised experts can unlock the doors in this case. With classification type 90 and the explosion-like burning of the batteries inside the cabinet tested by the Fraunhofer Institute, the Battery line offers two times tested fire protection. A fused power supply for chargers is prepared ready to plug in. With Smart Control and temperature sensors, thermal developments are immediately detected and reported by SMS, e.g. to the fire brigade and rescue control centre.

### Ejendals: **Jalas** Safety Shoes

The high-tech foot protection from the Swedish brand manufacturer Ejendals is the "snow chain for work shoes" and has advantages in terms of grip, stability, running speed and risk of slipping away. Slippery soil, icy surfaces and smooth ground have high potential for accidents. With its foot protection series Jalas Heavy Duty, Ejendals has created a first in occupational safety: The boots and half boots combine the protective properties of a comfortable safety shoe with vibram, highly professional extreme soles.

The Vibram Artic Grip sole convinces with ground adhesion and abrasion. The wearer also achieves a safer and faster walking speed on smooth, icy or oily surfaces (conventional safety shoes approx. 0.38 m/s; Ejendals products 1.00 m/s). The pressure measurements showed a load of 27 kg (10 kg standard shoes). Further advantages are ankle supports, shock absorption and ergonomic shape.



### Hikvision: **DS-2DY9236I-CWX(W/316L)** Explosion Network Position System

The fire and explosion-proof system is made of a 3.5 mm 316L stainless steel housing and a specially designed joint to provide continuous service in hazardous environments. Additionally, it is corrosion-resistant to NEMA4X standard. The camera provides high quality imaging with 2MP resolution. The PTZ's movement range is 360° pan, -90° to 90° tilt and a 36x optical zoom, providing close-up views over an expansive area. In dim or dark environments, DarkFighter technology ensures excellent performance. It allows to capture high-quality color images up to 0.002 Lux. Black and white images are captured up to 0.0002 Lux and with the supplementary IR in complete darkness (0 Lux). Furthermore, the system is water- and dust-resistant to IP68 standard and has lightning, surge and voltage transient protection (TVS 6000V).



### Hoffmann Group: **Garant** Multipurpose Gloves

The new silicone-free Garant multipurpose gloves from the Hoffmann Group have been designed for working with highly sensitive surfaces. The assembly gloves and the cut-resistant gloves are not only completely silicone-free but also manufactured in a silicone-free environment. Thus, they do not leave fingerprints or other traces on sensitive surfaces and are predestinated for use in paint shops and the automotive industry. Both glove models comply with the standards EN 388; EN 420 as well as with the VDMA's standard sheet 24364 for paint-wetting impairment substances (PWIS compliance) published by the German Mechanical Engineering Industry Association (VDMA). The latter has been checked and confirmed by the Fraunhofer Institute Stuttgart.



### IEP Technologies: **eSuppressor** Suppression Vessel



Holistic integrated explosion protection solutions must work as connected intelligent systems.

For this purpose, IEP Technologies has developed the eSuppressor. It works without pyrotechnics like gas cartridge actuators but is based on an electromagnetic actuation principle and is characterised by the fact that it can be used to continuously monitor and measure the relevant parameters. It is compatible with IEP Technologies' SmartDS detection system. This makes it possible to intelligently close the loop from the container via the control unit, the evaluation unit and the detection. Advantages: Improvements in work safety, TCO and the possibility of mechanically securing pressure vessels and streamlining workflows via remote control.

The eSuppressor is a suppression container that provides intelligent explosion protection throughout and does not require pyrotechnics like cartridge actuators.

### Kentix: **MultiSensor-TI (Thermal Image)** Multi Sensor

The new MultiSensor-TI integrates new sensors for air quality, air pressure and a thermal image sensor in addition to the existing environmental sensors such as temperature, humidity, vibration and carbon monoxide. Thus, ten integrated sensors are available for comprehensive monitoring of the room environment. Especially the thermal image sensor with its 1024 pixels resolution and the wide viewing angle of up to 90° considerably expands the range of applications for early fire detection. Four important fire parameters – surface temperature, carbon monoxide, air quality and ambient temperature – are monitored simultaneously.

With the open interfaces, such as the Rest-API or SNMP, the sensor can be integrated into own system environments or cloud applications. The integration into the Kentix system environments, based on the Kentix AlarmManager, is possible at any time.



## Ledlenser: EX7 / EX7R

### LED Flashlights

The battery-powered EX7 and the rechargeable EX7R are LED flashlights that meet the requirements of the ATEX guidelines of the EU with high light quality and innovative technology. According to Ledlenser, the use of the patented focusing system represents an absolute novelty in the field of EX-protected lamps. The Rapid Focus enables the light cone to be adjusted at lightning speed. Thanks to the simple operation of the Magnetic Switch, use with gloves and protective equipment is also possible. The light output of the EX7 is up to 200 lumens and is suitable for Ex zone 0/20 for the highest gas and dust groups (IIC / IIIC). The identical rechargeable EX7R delivers up to 220 lumens, suitable for Ex Zone 1/21, including a charging cradle for convenient charging.



## Lupus-Electronics: IoT Smoke Detector

### Smoke Detector



Lupus-Electronics has developed a smart smoke detector that is directly connected to the narrowband network of Deutsche Telekom. Even though it works completely self-sufficient it still has all the advantages of a smart smoke detector. It complies with DIN 14676-1, procedure C and is therefore

completely remote maintainable. There is no limit to the number of smoke detectors that can be installed, as there is no limitation by a control center. It is always connected with the Lupus cloud via the Deutsche Telekom IoT network and communicates alarms, incidents and the current state of device directly to smartphones, tablets and an emergency service hotline. The Lupus device carries out the maintenance independently every 24 hours. Therefore, the energy supply, smoke sensors and sirens are being tested. According to the manufacturer, thanks to battery operation, the smoke detector lasts for over 10 years once installed.

## Securiton: SecuriRAS ASD

### Aspirating Smoke Detector

The SecuriRAS ASD model family offers the right aspirating smoke detector for every application and allows scalable use in addition to high-sensitivity fire detection. The SecuriRAS ASD 535 monitors areas of up to 5,600 m<sup>2</sup>. It features one of the most powerful fans available on the market and is suitable for use in large halls, cleanrooms and frozen storage warehouses. The compact SecuriRAS ASD 532 device, on the other hand, is used in lift shafts or IT racks. The alarm series also includes a heavy-duty version, which is designed for harsh environments. The electronics can withstand aggressive fumes or chlorine gas thanks to a protective coating. The smoke particle measurement sensitivity can be selected between a minimum of 0.002%/m and a maximum of 10%/m on all devices. In addition, a comprehensive range of accessories completes the ASD family: various sampling pipes made from PVC, ABS or copper, dust filters, water extractors etc.



## SoloProtect: SoloProtect Go

### Personal Emergency Signal System

SoloProtect Go is a small and light emergency signal device for single workers and part of a comprehensive security solution. The use of the simple device in the handy format of a key fob – 45 mm in length and width and only 14 mm high – is monitored around the clock by an alarm receiving centre. User training and ongoing administration are digital. Weighing only 30 grams, the device is suitable for solo workers who need a discreet security tool that they can easily carry in their pocket or carry on a key chain. As a lightweight with only 30 grams, it can be optimally integrated into any work clothing: You can simply wear it around your neck, on a lanyard or a belt clip. "SoloProtect Go" is splash-proof and if required also available with dead man and GPS function.

## Narda Safety Test Solutions: RadMan 2

### Personal Radiation Monitor

In order to exclude health risks for workers in high intensity electromagnetic fields (EMF), Personal Safety Equipment (PSE) that reliably warns at critical EMF/RF values is mandatory.

Narda Safety Test Solutions has developed the RadMan 2 for monitoring of current and future 5G and millimeter wave technologies. This small, handy device is worn on the body to provide instantaneous and reliable indication of the impermissibly high levels of exposure to electromagnetic radiation. And that with an extremely high frequency coverage up to 60 GHz. The shaped frequency response of the personal monitor ensures that the correct alarm threshold is automatically set for the entire frequency range. As the device has sensors for the E field (electric) as well as for the H field (magnetic), the distance between the field source and the person is immaterial – whether in a strong electric or magnetic field.



# Category C

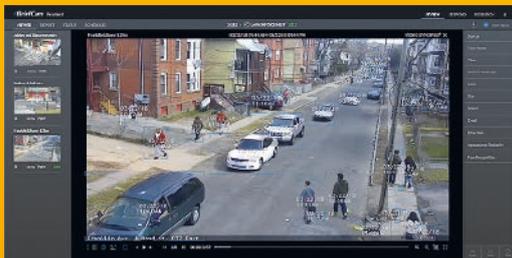
## Video Security Systems (VSS)

### Abus Security Center: WLAN Akku Cam Wi-Fi Camera

With the wireless and weatherproof (protection class IP65) Wi-Fi Battery Cam, Abus provides the perfect solution for flexible and convenient video surveillance of premises, pets or inside rooms. A long-life battery inside the camera for up to 13 months battery life and a base station that amplifies the Wi-Fi signal for connection to the router mean that the battery camera can be installed wirelessly and in almost any location. The camera transfers images to the base station in encrypted format and stores them locally and securely without the need for any cloud service. In addition, a high-quality Sony chip with a low-light function provides clear colour pictures day and night. The camera has a landscape format design, which makes it ideal for mounting under canopies and eaves. The base station can be attached to any power outlet with Wi-Fi reception in the house securing the data on an SD card protected inside the house.



### BriefCam: Video Synopsis Video Content Analytics Platform



Briefcam continually demonstrates with the development of Video Synopsis its commitment to innovation with enhancements to its data-driven platform. Based on deep learning technology, the platform makes video searchable, actionable and quantifiable by detecting, tracking, extracting, classifying, cataloging and alerting

on persons and objects of interest in video surveillance footage in real-time or forensically and across cameras. Briefcam offers a robust portfolio of video analytics solutions, fully integrated and architected for flexible deployment, for accelerating investigations, enhancing situational awareness and deriving intelligence from video. A robust portfolio of critical video analytics capabilities fully integrated across the platform for a better together paradigm. It effectively supports the requirement for both, on-demand and real-time analytics, for full camera coverage and is designed to meet the business needs for centralized, distributed, cloud, edge and hybrid deployment architectures. Quickest time to value and lowest total cost of ownership drives productivity, accelerates time to target and gains the competitive edge.

### Dahua Technology: DH-TPC-BF5421-T Thermal Camera for Fever Screening

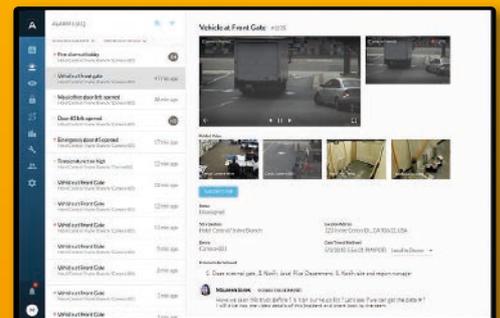
Dahua's thermal imaging camera effectively measures absolute temperatures and uses AI to calculate the human body temperature, making it according to the manufacturer's statement ideal for fever screening of all sizes. The accuracy of the temperature measurement is  $\pm 0.3^{\circ}\text{C}$  and is, according to the manufacturer, as accurate (or more accurate) as a classic clinical thermometer. Even  $0.1^{\circ}\text{C}$  makes a big difference, as many people are detected by natural variation even without being sick at  $37.0^{\circ}\text{C}$ . Glasses and masks also disturb the measurement result. Therefore, the AI combines different measuring points in the face to calculate the body temperature. The Dahua thermal imaging camera, for example, only detects people from  $37.5^{\circ}\text{C}$  and thus ensures a minimum of false alarms. Body temperature is personal data (GDPR), which is why the camera is certified by TÜV Rheinland and thus complies with IoT safety guidelines.



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### Arcules: Arcules-XProtect Hybrid Video Management Solution

The solution represents a combination of the Arcules Video Surveillance as a Service (VSaaS) integrated with Milestone XProtect Corporate on-premise video management software (VMS). The result is a flexible and feature-rich hybrid video surveillance solution ideal for organizations looking to centralize their dispersed video surveillance operations. With Arcules-XProtect Hybrid VMS Solution, Milestone XProtect customers can deploy remote sites quickly, with minimal IT resources and downtime while still benefiting from the strong capabilities of XProtect on-premise VMS. Additionally, Arcules' intuitive platform provides sites and cameras connected to Arcules VSaaS an underlying cloud infrastructure such as compatibility between sites, low video latency, data encryption, redundancy, streamlined maintenance with automatic updates, and easy onboarding.



### Dallmeier Electronic: Panomera S Surveillance Camera



The new Panomera S integrates up to eight sensors in one camera system. The patented software guarantees a precisely definable minimum resolution density, thus significantly reducing

the number of screens and eliminating the need for additional PTZ systems. These are basic requirements for court usability, overview and analysis. The result is a much better control over even the largest spatial contexts, predictable data quality for analysis and a much smaller number of systems required. The latest generation is a completely new development which, in addition to an innovative design, features an intelligent housing concept with advantages in thermal and mechanical resistance. Both long distances and large areas can thus be covered with a precisely defined resolution density.

### Dekom: Camera Pole 5.0 Camera Pole

The Dekom camera pole of the 5th generation is a development especially for the application of cameras and accessories in the professional video surveillance. It is made of aluminum and due to its configuration extremely solid and robust, therefore it is most adequate for appliances with intelligent video analysis. Firstly, one can differentiate between a normal and a tilting camera-pole, as well as a version with soil plate or with a plate and an anchor bolt. The camera pole disposes of two big secured pole doors and behind those doors the complete cabling and wiring technology can be placed. A flange connection enables a sabotage-secured camera installation. In addition to its solid and strong performance, all junction boxes and the wiring are vandalism-safe and also secured against sabotage. The tilting model stands out due to its easy assembly and maintenance of the devices.



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### Eizo: DuraVision FDF2711W-IP Decoder Monitor

The IP decoding monitor displays video streams transmitted over a network without the need for a computer. Neither software nor other hardware is required. The decoding platform of the 27-inch screen decodes H.265 (HEVC), H.264 and MJPEG codecs in real time, even with high-resolution video streams over up to 32 channels. 16 simultaneous Full-HD video feeds can even be shown at a stable frame rate of 20 frames per second. It is possible to register up to 48 IP cameras that support RTSP as well as Onvif Profile S, Axis Vapix and Panasonic protocols. An HDMI port enables users to connect a second Full HD monitor that can also be used to display the IP video feeds. The DuraVision FDF2711W-IP is a fully integrated solution for video surveillance. It can be used as a point-to-point solution with only one IP camera or as an integral part within a video network in a remote operating station.



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- ▶ Weatherproof design (IP65)
- ▶ Affordable in price

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RadMan 2 – For your safety in high-frequency fields



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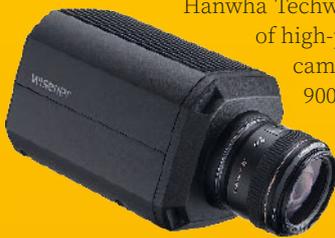
### Eks Engel: Pe-Light Junction Boxes For Masts

Pe-Light CCTV mast junction boxes are ultra-compact complete solutions for installation in masts of any kind with an internal diameter from 10 cm and a door cut-out of 40 x 8.5 cm. Pe-Light-2 is a compact housing with an integrated 6-port mangled PoE+ Gigabit Ethernet switch (Layer2) ideal for video surveillance or traffic management systems. This enables the connection of four PoE devices via M12 connectors. Two fiber optic connections for multi mode or single mode serve as uplink both, point to point and in the ring. The housing also houses a splice cassette, the power supply unit, fuses and terminals. The switch can output up to 60 W at each of the four M12 connections PoE according to 802.3BT (max. 120 W across all ports). The switch's web interface can be used to program the various Layer 2 functions. Due to the already integrated components the cabling effort is limited to a minimum. Optionally, the systems will also be available with IP over coax or two-wire in the uplink.



### Hanwha Techwin: Wisenet TNB-9000 8K Camera

Hanwha Techwin complements its product portfolio of high-performance security and surveillance cameras with its new model Wisenet TNB-9000, which for the first time features 8K resolution. Together with the numerous intelligent functionalities, the new product range is thus ideally suited for particularly security-relevant environments such as airports, stadiums or critical infrastructures. Together with its deep-learning based video analysis and other innovative features, the Wisenet TNB-9000 is an extremely powerful tool to reliably detect suspicious activity in security-critical areas. This enables system integrators to support their customers in efficiently expanding their security concepts. The Wisenet TNB-9000 features H.265 compression, uses a full-size 43.3 mm CMOS sensor to capture true 8K images at 15 fps. The camera is thus able to classify different object types such as people, vehicles, license plates or faces.



Together with its deep-learning based video analysis and other innovative features, the Wisenet TNB-9000 is an extremely powerful tool to reliably detect suspicious activity in security-critical areas. This enables system integrators to support their customers in efficiently expanding their security concepts. The Wisenet TNB-9000 features H.265 compression, uses a full-size 43.3 mm CMOS sensor to capture true 8K images at 15 fps. The camera is thus able to classify different object types such as people, vehicles, license plates or faces.

### Fujifilm: SX80 Long-Range Surveillance System

With the SX800, Fujifilm has integrated two components into one system: the camera and imaging technology that is successfully used in Fujifilm digital cameras, and the optical technologies that have been developed over many years for the well-known Fujinon lenses. The result is an integrated surveillance system that offers the best of camera and lens technology in one housing with a Full HD camera and a 40x zoom lens. With its fast 1/1.8" image sensor, wide focal length range of 20 mm – 800 mm, fast autofocus, precise image stabilization and integrated image processing technology, the SX800 is ideally suited for surveillance over distances of several kilometers. When monitoring long distances, there are special challenges for video technology. For example, the smallest vibrations are sufficient to impair image information. Heat haze and fog also reduce the image quality and can lead to the loss of safety-relevant information.



### Idis: Instant Meta Filtering Video Analytics for SMEs

Idis provides AI tools to small to medium users free-of-charge. This means that now many customers who have never accessed these capabilities before can use Idis Instant Meta Filtering (IMF) to make surveillance more efficient. The search time for incidents can be reduced to just minutes. IMF lets users easily collate footage and search recorded video from multiple streams to reveal the movements and last-known locations of persons or vehicles of interest. As surveillance footage is recorded, the Idis AI engine and Edge VA cameras automatically detect objects, locations and movement, then extract and store metadata for each scene. This simplifies classification and context detection, allowing intelligent information to be quickly and easily organized from large volumes of video footage.



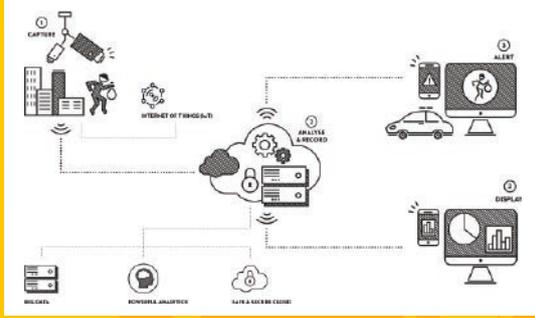
### Mobotix: M73 High Performance IoT-Camera

The Mobotix M73 is a decentralized, cybersecure and modular video surveillance system of the very latest generation. Based on the Mobotix 7 system platform, the M73 owner benefits from many AI-based applications already integrated into the camera firmware. With individually combinable 4K image sensor modules and function modules, the M73 can be adapted to any application. The M73 is designed for maximum robustness on both the hardware and software side and has a weatherproof camera housing. One or two optical sensor modules can be used with one M73. In addition, the M73 supports the video codecs H.264, H.265, MxPEG+ and MJPEG, triple streaming and interoperability with ONVIF Profile S and T. As a decentralized edge camera, the M73 offers relevant system advantages: In principle, no video server is required. This makes a pure Mobotix solution particularly easy to scale and saves time and work when installing and maintaining the video system.



**Morphean: Cloud Platform Management Solution**

The Morphean platform, hosted in the cloud, offers a solution for proactive video surveillance, access control and smart Business Intelligence. Through various integrated algorithms the solution helps organizations to achieve their business objectives. With the support of video, access control and several 3rd party integrations the product can capture lots of data points to enhance processes but also bring additional Business Intelligence to each customer. Morphean as hosted platform provider is responsible for all maintenance and updates. No local IT-server hardware is necessary. Morphean's "as a Service" is a flexible model and is offered through a certified partner network. Furthermore, an innovative web-front-end and mobile device applications, VDS certified, provide clear user-friendly control and system management.



**Panasonic: i-Pro Extreme Driver and Number Plate Recognition**

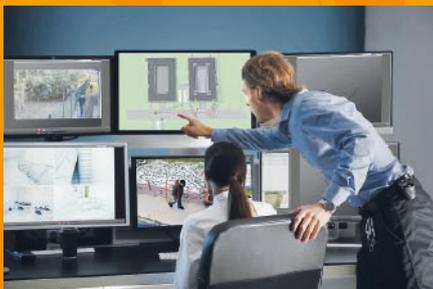


The camera comes with a multiple shutter mechanism and a resolution of 5 MP in connection with outstanding camera features (wide dynamic range, outstanding light sensitivity). All those parameters make the recording of moving vehicles including number plates and the face of the driver at the same time possible.

Normally several cameras are needed to record number plates and faces through the front shield. Thanks to this new technology, as well as the newly developed filter for usage in street traffic control, the number of cameras can be reduced and also new solutions in combination with facial recognition and a vehicle search system will be possible.

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**Securiton IPS: VideoManager 3D Video Management System**



With the IPS VideoManager 3D VMS, Securiton's technology brand IPS Intelligent Video Analytics offers a video management system with fully automatic tracking. It helps security personnel to stay on top of things in stressful and critical situations and to focus on things other than camera control. IPS 3D technology combines powerful video management with intelligent analytics and georeferencing.

Large properties can be covered perfectly and different security systems, e.g. access control or fence detection, can be linked together. The precise localisation and tracking of objects using camera images and site plans is extremely simplified. In the event of a critical incident, the operator is expected to do many things in a security center. For example, he has to activate security personnel, lock doors and activate sirens.

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# Category D

Access Control, Intruder Alarm, Perimeter Security

**GIT**  
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**2021**  
**FINALISTS**

## **Abus Security Center: wAppLoxx Pro** Access Management for SMEs



The new wAppLoxx Pro enables comprehensive access management of up to 64 doors and 500 users. This makes it perfect for use in small and medium-sized commercial properties. System-relevant programming is transmitted directly to the entire system via the wireless networking of all door components, making it immediately effective. System access while on the go is possible any time and anywhere online and securely via PC, smartphone or tablet. wAppLoxx Pro is also the answer to the increasing need for integrated security solutions: wAppLoxx Pro can thus be perfectly combined with alarm and video surveillance technology from ABUS, ensuring that users are fully protected. On the one hand, wAppLoxx Pro enables real-time access management for up to 64 door components and 500 users. On the other hand, access and management can also be controlled remotely thanks to web and app. In addition, the system includes the online wall reader – also for the subsequent app capability of gates, electric strikes or motor locks.

## **Cias: Micro-Ray 100MT** Linear Microwave Barrier

Micro-Ray is a barrier with MW rays for outdoor perimeter protection in any kind of environments. Especially developed for protection in very narrow corridors, it's capable to generate in the same tower up to 4 rays creating a linear sensitive zone with 40cm diameter all along the 100mt range, with very advanced anti-intrusion detection performance. This extends the possibility of application of microwave technology beyond the actual installation rules. Reliability of microwave can now be used even in the narrower spaces, where typically active IR technology is used, by-passing limitations of this technology. Suitable for any security application, it's IP ready and integrable with major CCTV and Access control platforms. Micro-Ray uses a revolutionary kind of microwave antenna, able to produce a very narrow linear detection zone, which works along with Cias Fuzzy Logic algorithms for the best performances of detection.



## **Deister: Infinity** Access Control Reader

The Infinity Reader series was developed to meet the changing demands on access control and today's security challenges – providing a single reader solution no matter what system or card technology is used. Users are not locked or bound to other systems or technologies, thus leaving commercial and technical options open for the future, system integrators or system users. Advanced tri-technology capability provides simultaneous reading of older 125 KHz prox cards, 13.56 MHz secure smart cards, as well as NFC or Bluetooth identification. To stay ahead of technology developments and new security risks, all Infinity Readers support firmware updates and reader function changes – even when the reader is already installed and in operation. Updates can also be centrally deployed with no need for an engineer to visit the reader when connected to suitable system.



## **Dormakaba: evolò smart 2.0** Smart Access Solution

The comfortable access solution dormakaba evolò smart is a free app that offers simple key management for private households or small businesses. The smartphone is used to determine who gets access and when, and programs the electronic door components from Dormakaba. The user opens the doors with a smartphone, ID card or a key fob. If an access medium is lost, it is deleted from the door with the app. For access with the smartphone, a digital key can be sent virtually to new users via the app. The user determines who is allowed to open a door at what time or not. All authorized keys are stored on a digital locking cylinder from dormakaba. This can be replaced with the existing locking cylinder in the door in just a few steps and the smart door is immediately a reality. Cabling is not necessary.





### Evva: Xesar 3.0 Scalable Access Control

Xesar 3.0 is an electronic access system in which the individual components are synchronized via tablet. The identification media are written with the access authorisations at a coding station. In the virtual network, the IDs in circulation distribute the security information throughout the building. The access components are programmed and managed via software. People identify themselves at the doors with a card, key fob or combination key. The Xesar online wall reader offers real-time door monitoring, remote opening and is the security interface in the virtual network. Two credit models are available for operating the Xesar system: KeyCredits 10, 50, 100 and KeyCredit Xesar Lifetime. Whether for residential developments, educational facilities or office buildings, Xesar can be simply and securely managed.



### HID Global: Signo Contactless Reader

The new readers in HID Global's core product line, HID Signo, set new standards for flexible, interoperable and secure access control. They support a variety of badge technologies and go beyond the traditional security approach. They are designed to be remotely connected and managed without physically touching any device. This functionality enables companies to dynamically respond to new needs, configurations or security requirements with their access control systems. Implementation and management costs are drastically reduced. Therefore, a more intelligent and networked access solutions can be realized. The readers can be used with over a dozen physical and mobile credential technologies. Apple's Enhanced Contactless Polling for student ID cards in the wallet app is also supported.

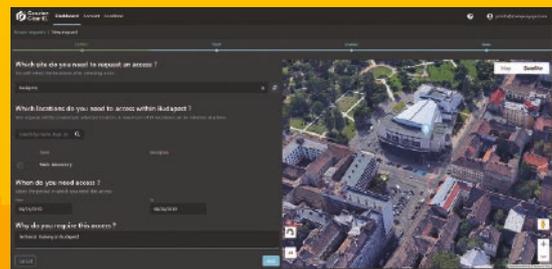
### Hikvision: DS-2TD2617-10/PA Thermal and Optical Camera

Hikvision's Thermal and Optical Bi-spectrum Network Bullet Camera is equipped with a high-sensitivity thermal module that has a resolution of 160 x 120 pixels. This gives the camera the ability to detect to a noise-equivalent temperature difference (NETD) of 40mk. The camera also has an optical lens of 8mm and offers both, bi-spectrum image fusion and picture-in-picture preview. Based on deep learning algorithms, the camera also delivers powerful behavior analysis, such as line crossing, intrusion, region entrance and exit. It is also fitted with a reliable temperature-anomaly alarm as well as an advanced fire detection algorithm. The dynamic fire point detection feature, recognizing up to 10 fire points. The camera is also fitted with an enhanced deterrent: strobe lighting and audio alarm. The Bi-spectrum Image Fusion feature allows the camera to show the thermal view and overlay details of the optical channel.



### Genetec: ClearID Physical Identity and Access Management

Genetec ClearID is a Physical Identity and Access Management (PIAM) system that allows users to standardize, automate, and enforce security policies across all sites, while centrally managing the access rights of employees and visitors so that access management is more efficient, compliant and secure. Genetec ClearID automates security policies and lowers risk by moving away from the manual method of making access requests and managing access rights. With Genetec ClearID users can also standardize and streamline policies for onboarding and offboarding to ensure security is always up-to-date. Lastly users reduce risk of security breaches by ensuring only individuals with the right approvals have access to secure areas for the exact time frame defined. As a cloud-based solution, ClearID is much easier and quicker to install. Also, given it's ready out of the box and price competitive it is available to all types of organizations, big or small.



### IntraKey: BikeParkBoxes Bicycle Boxes

Bicycle boxes offer both occasional and long-term users a comfortable, safe and orderly system for storing valuable bicycles and personal belongings. BikeParkBoxes are bike boxes that are equipped with the access systems from IntraKey technologies AG. The corresponding web application and the operator portal were also developed by IntraKey. Comfort and safety have been tested and certified by the ADFC. Cyclists can easily operate the system with their smartphone: from registration, booking and payment to opening the bike box. But the integration of existing chip cards and payment systems is also possible. With the innovative usage concept, every interested operator can manage his own bike boxes. Both the booking and administration as well as the billing of user fees is carried out via a separate operator portal of the BikeParkBox.





### **Morse Watchmans: KeyWatcher Fleet Fleet Management**

KeyWatcher Fleet is the latest addition to Morse Watchmans' portfolio of key and asset management solutions. Now, added to electronic key control is Fleet management. The KeyWatcher Fleet enables fleet managers to control their keys and optimize the utilization of their fleet of vehicles in one system. The KeyWatcher Fleet manages the keys as well as the deployment of vehicles based on the company parameters, allows vehicle pool bookings, on-demand bookings, allows for scheduled and impromptu maintenance, tracks mileage, fuel and more. KeyWatcher Fleet will optimize vehicle usage and balance and reduce fleet costs. KeyWatcher Fleet is the industry's only electronic key control system with software designed from the ground up for fleet management applications.

### **PCS Systemtechnik: Intus 1600PS-II Hand Vein Access Terminal**

Intus 1600PS-II is a convenient and highly secure biometric access terminal that recognizes persons based on the pattern of their hand veins. Primarily developed for the protection of high-security areas, it also masters the use in comfort applications. It focuses on the security of all system components. The templates are encrypted while still in the sensor and the terminal then transmits this data via secure lines to the protected area. The sabotage contact detects any manipulation of the terminal. Multi-factor Authentication ensures maximum security during recognition. The new version also detects people with shaky hands and operates in direct sunlight up to 80.000 Lux. The uniqueness and innovation lie in the combination of the highly sensitive sensor technology, which enables highly secure access control for rooms that are particularly worth protecting, with simplified application that offers the user a high level of user comfort.



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### **ProViAlarm: f.unKeyLock Radio Access Control System**



The f.unKeyLock is a management system with online log function and authorisation control via bidirectional radio integration of digital system components of the manufacturer Elock2. It can be programmed to identify

32 people or 32 groups with assignment of up to 4000 transponders. As a day alarm system with voice output of unauthorized openings, alarms can be triggered locally or externally via a control center or signal transmitter. It can also be configured as an escape alarm. The locking system control centre evaluates the user authorisation and returns the result without any noticeable delay from locking cylinders, locks and control units connected via radio and wired detectors. Access can be viewed at any time at the control centre or via network access using the online log function.

### **Salto: XS4 Locker BLE Electronic Locker Lock**

By incorporating BLE (Bluetooth Low Energy) technology into their latest electronic locker lock, Salto has delivered a product that extends up-to-date comprehensive electronic access control to lockers, cabinets, and essentially anywhere on the peripheral. The new XS4 Locker with BLE technology drives manageability, creates a flexible and safe storage service environment, and enables users to have what they need at the touch of a mobile app or smartphone, wherever they are. The locker lock is fully integrated into the Salto Space platform and is also compatible with Salto KS Keys as a Service cloud-based access control. The XS4 Locker BLE is an ergonomic design based on the same housing and mechanical mechanisms of the original version and provides operators with real-time wireless control, configurable opening modes for users, updating credentials, blacklist transmission and automatic audit trail collection and battery status.





**SimonsVoss: SmartLocker AX  
Digital Cabinet Lock**

The digital SmartLocker AX offers a convenient and efficient way to manage and control lockers and cabinets. It is operated by active transponders or passive Mi-fare media. The clamping mechanism allows an installation without drilling and wiring. This ensures retrofitting without damaging the cabinet. Due to the modular design, the lock can be adapted to the requirements on site. The bolt position can be changed with the supplied adapters. Thus, a minimum of slackness can be set on the cabinet door. Programming or remote opening from the desk can be realized via the optional radio networking. Another innovation is the spring-loaded latch mechanism. In case of a blockage from the inside, e.g. when the locker is full, the bolt is pretensioned when it is extended. An intuitive shaking of the door releases the bolt and the door can be opened.



**STid: Spectre  
Long-Range Reader**

STid's Spectre UHF identification reader offer exceptional reading comfort and reliability with its identification performance for smooth vehicle access. Up to four antennas can be connected to cover all security issues: management of a mixed fleet of vehicles and separate access control for four vehicle lanes. The Spectre is vandal-resistant, IK10-certified and withstand knocks and malicious acts. It is also equipped with IP66 protection for harsh environments. It is designed for reading distances with UHF up to 14 m and Bluetooth up to 20 m and even for high-speed vehicle identification at 200 km/h. For UHF reading mode passive with windshield tag or user card and Bluetooth with STid Mobile ID app (virtual wallet) as remote control or tap-tap.

## KEYLESS AND MOBILE SMART ACCESS

—  
Realising tomorrow's keyless buildings today with innovative thinking and advanced mobile-based access control technology.



—  
**SMART LOCKS DESIGNED TO BE SECURE:**

**TOTALLY WIRE-FREE:** Stand-alone, virtually networked, wired and wireless smart locks, all working within a single access control technology platform.

**BUILT TO COVER EVERY ACCESS POINT:** Extensive range of electronic locks, cylinders and readers to cover all the needs of any type of building.

**EASY TO INSTALL:** Designed to be installed in doors with existing locks, with no need for additional modifications or wiring.

**SECURE KEYLESS ACCESS:** Complete mobile-compatible electronic locking platform, increase in security, control and convenience.



# Category E

Safety and Security Management, Services and Solutions

**GIT**  
**SECURITY**  
**AWARD**  
2021  
**FINALISTS**

## Abus Security Center: Nexello Security System

Although primarily an alarm platform, video surveillance and access control are seamlessly integrated into Nexello the security system by Abus. Thanks to its networking character, Nexello also opens up to a wide range of smart building automation, without losing sight of security as a top priority. To guarantee this without any doubt, only Abus components can intervene in the alarm logic. A high level of modularity of the hardware and software components also makes it possible, to meet individual requirements. Also with regard to installation and operation by installers and end users, attention was paid to a maximum of user comfort. And last but not least, the cross-component family design is designed for simplicity and a high recognition value.



## Axis Communications: Body Worn Solution Bodycam System

The brand new Axis Body Worn Solution includes the camera itself, the camera docking station (8 or 1 bay) and the system control. The camera records video at up to 1080p, 30 frames per second and audio via dual microphones with noise reduction. In addition, Wide Dynamic Range technology is used to ensure consistent image quality even under the most demanding lighting conditions. The system control provides a central integration and management point and allows for fast, reliable outsourcing of video (100 MBit per camera). All data is encrypted with AES256 and TLS both during storage and transmission.

## Hailo Professional: Hailo Inspect Ladder Check App

The ladder check app Hailo Inspect makes a digital contribution to effective occupational health & safety. The app can be used on mobile devices such as smartphones or tablets to test access systems and ladders. The digital inventory and management system not only includes Hailo ladders but also those made by other manufacturers. If the object to be inspected turns out to be faulty, it is possible to document these faults directly with photographs, and to record them in the inspection record. As the data is saved on the end devices, Hailo Inspect not only offers maximum data security; the paperless check also contributes to a company's sustainability.



## Hanwha Techwin Europe: Wisenet Serverless ANPR ANPR Set

The easy to configure camera-to-camera IP communication technology enables up to 4 Wisenet ANPR (Automatic Number Plate Recognition) cameras, 1 master camera and 3 slaves, to simultaneously capture and transmit data to a convenient user interface. Thanks to its powerful chipset, the easily configurable, serverless ANPR solution can capture license plates of vehicles at speeds of up to 50 km/h with 95 % accuracy. Besides the monitoring of parking lots, gas stations or even small housing estates with several entrances and exits, Wisenet Serverless ANPR can also be used to collect valuable information for parking lot management administration like dwell time or occupancy. To enable the ANPR solution to interact with third-party software and systems, an application programming interface (API) is also available.



# MICRO-RAY

## 100m

NEW

### THE FIRST BARRIER WITH MICROWAVE RAYS

SUPER NARROW K-BAND

FUZZY LOGIC INSIDE

IP-READY PoE

6 YEAR WARRANTY

COMPLIANT WITH EN50131-1 GRADE 4

100% MICROWAVE



#### MB Connect Line: mbNET.rokey Industrial Router with Key Switch

The industrial routers mbNET.rokey enable secure access to machines and plants via the Internet. There are two application cases with different requirements: data acquisition and remote maintenance. During data acquisition, data supplied by the plant are continuously recorded. Remote maintenance only takes place when required – for example for an update of the PLC program. This requires active access with routing to controllers and other components. From the cybersecurity point of view, the areas of attack here are much larger than in data acquisition. To limit the risk the operating staff can use the integrated key switch directly on the router to control when remote maintenance is permitted. Permanent online connections for remote maintenance have long been a thorn in the side of many plant operators. With the key switch, this topic is done. The plant operator decides directly at the system about connection is available.



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#### Novar: Intevio Voice Alarm System

The voice alarm system Intevio is an EN 54-16 certified, compact, integrated system with large graphic display. It can be adapted to project requirements and is suitable for public address and voice alarm applications in small and medium-sized buildings. Installation, programming and commissioning are easy and comfortable to perform. With two audio inputs and outputs each, 10 contact inputs, 8 contact outputs, 8 AB loudspeaker lines and an integrated 500 W power amplifier, all functions are provided for public address and voice alarm applications of corresponding projects. An extension of the system is fast and easily possible. In addition to the alarm function, Intevio can be used for many applications such as background music, advertising announcements or the calendar- and time-controlled recording of school gongs.



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- SUPER-NARROW RAY: 1M CORRIDOR
- BEAM INTERRUPTION TIME: FROM 10ms
- LOW POWER CONSUMPTION: NO HEATERS
- TOTAL IMMUNITY TO FOG, SUN AND HEADLIGHTS
- EMBEDDED ALIGNMENT TOOL WITH FINAL EVALUATION
- LOW-MAINTENANCE: NO CLEANING OF THE COVER

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### SimonsVoss: SmartSurveil Door Monitoring

The SmartSurveil software tool is used to visually display the door status of digital cylinders and handles with door monitoring function. These locking components are mounted without wiring and are radio networked. Whether a door is open, closed, locked or even manipulated, is clearly displayed and visually highlighted when the status of the event changes or while an alarm. The program can be installed independently on a PC and operated separately from the locking system management. Thanks to the cable-free and quick installation and the free SmartSurveil tool, this is the most cost-efficient overall solution for a micro security control station on the market.

### Telenot Electronic: hiXserver Digital Platform

The digital platform hiXserver eliminates various problems that may occur when setting up remote service or controlling via app. When usual IoT or cloud solutions are used, the system state information and other data are stored on the server, controlled via mobile terminal, and synchronized with the system. However, if a cyber attack is successful, the data on the server can be manipulated and the system can be controlled. This is not the case with the hiXserver, because it never has access to sensitive information of the system. All data is exchanged after prior authentication of the requestor via an anonymous and secure connection that exists only between the two terminals. This enables the worldwide user administration of systems with the highest level of access security and end-to-end encryption.



### Transgate: Prevenio Prevention System

The Prevenio prevention system is an intelligent software solution for occupational safety and health. Whether risk assessment, hereditary handbook, prevention management, hazardous substances or operating resources directory, the software is structured in five different modules which can be booked individually as required. All modules are directly linked to each other via the so-called Cockpit. The software not only supports companies in documenting risk assessments and incidents, but also actively promotes health and safety at work. Among other things, incidents can be analysed, measures defined, and statistics generated for various modules. The system is therefore not only used for documentation, but above all for prevention.

### vi2vi: viGate Fever Measurement via Thermal Imaging

The viGate is designed as a checkpoint to minimize the risk for visitors and employees. The thermal camera can measure the object temperature with high accuracy in real time and detect persons with a higher face temperature. For flexible use, the handheld device provides optimal support. The truss construction as "One Stand" or bridge construction realizes a real gate. Different camera modules can be selected for fever measurement. The system includes a cable management system for trip-free installation of supply cables, a mobile separation system, a queueing system, an optical and acoustic alarm and message module, network-based analysis and interaction software and counting sensors.



### Verint: NowForce Emergency Call Solution

NowForce provides a comprehensive emergency call solution that enables faster and more efficient response to emergencies and improved communication. Whether it's an accident, natural disaster, fire or other incident, accurate information to and the targeted response of emergency services can make the difference between life and death. NowForce combines historical event data with GIS maps, force positioning and information from external sources. Conversely, responders can report their availability, transportation, visual observations and even live video feeds directly to the coordinator. In this way, status updates of the Verint platform are continuously correlated, so that coordinators have the information they need at the right time and place.



# **GIT SECURITY**

**INNER COVER**



◆ milestone

On Track in Turbulent Times





**Kenneth Hune Petersen,**  
Chief Sales and Marketing Officer

## VIDEO MANAGEMENT

# On Track in Turbulent Times

## Milestone Systems Surpasses DKK 1 Billion Revenue

In our March issue we discussed with Kenneth Hune Petersen, Milestone's Chief Sales and Marketing Officer, about Milestone Marketplace, their approach to video analytics and AI applications beyond security and the EMEA markets. The follow-up interview was planned for MIPS in Dubai which was cancelled due to the evolving COVID-19 outbreak. Nevertheless, we could speak to Kenneth about the long-term sustainable growth results in another record year Milestone Systems announced just recently. We asked him about the results and the market outlook when much of the world is in lockdown.

### Which areas of the business have shown the best performance in the past financial year?

**Kenneth Hune Petersen:** With an annual growth rate of 14 percent over the last five years, Milestone Systems' net revenue increased to DKK 1.03 billion (around 138 million Euros) in 2019. The operating income (EBIT) was DKK 124 million compared with DKK 194 million the previous year, a planned consequence of increased investments in innovation and development. The positive revenue development primarily derived from an increase in license and Care sales. Moreover, we continued to increase sales in all its markets. Two major factors impact our positive result: Our continued focus on long-term sustainable growth, which has resulted in profitability every year, since our company was established 22 years ago. And perhaps more importantly, our people. Focusing on long-term sustainable growth requires the best people, who can identify the right opportunities for our company. If you don't have the right people, even the strongest business strategy may fail. In the past five years, Milestone has

nearly doubled the number of employees to more than 900 people. The past year increased investments have been made in research and development capacity, expanded engineering teams in Copenhagen and Sofia and the establishment of a new engineering hub in Barcelona.

### How do you see COVID-19 and the economic impact of the pandemic affecting sales and services in the short term?

**Kenneth Hune Petersen:** To mitigate risk as a software company and as part of our long-term contingency planning, we have already built up cash reserves that ensure business continuity in the advent of an unforeseen situation such as the coronavirus. However, we have been able to maintain and preserve our business activities. In 2020, we have seen a strong start to the year, and we are also seeing strong activity on our Care program, which represents recurring revenue through our contracts. To give our partner community an extra helping hand in these difficult times, we've launched extra upgrade offers, support, and lucrative offers for Care coverage to

extend. Although the ongoing disruption may have changed the way we work, our commitment to quality service remains the same. Our team is fully equipped and set up to support customers and partners remotely through various digital tools.

### How do you keep growing when unexpected change confronts your business?

**Kenneth Hune Petersen:** As governments, businesses and individuals across the globe navigate a new world in these challenging times of COVID-19, I remain inspired and humbled by the way people have been responding to the situation. We've seen people come together, corporations adapt to the largest work from home experiment in the world, and communities step up to support vulnerable groups, as well as all the brave staff in the healthcare sectors who work tirelessly to treat and care for affected patients.

The COVID-19 outbreak is impacting the entire VMS industry. Beyond connecting people, video is establishing itself as an important tool to mitigate the ongoing COVID-19. From the remote monitoring of sites, public places and

warehouses, replacing the need for large on-site teams who could be put at risk via human-to-human contact. To video technology that can be deployed in the protection of healthcare staff.

Even before corona, we realized that it's a new ball game and in the future the way business will grow is different. Circumstances are going to change much more quickly, to quote Gerd Leonhard from MIPS 2020 in Dallas, "We are living in a raging tornado of change fueled by digitization." When things change fast, you need to keep your choices open so that you can pivot as you see new opportunities, that's not so easy in a closed solution approach. The power of open gives you the choices you need to keep your business growing and the flexibility to take advantage of them.

Openness and flexibility are two of Milestone's core values, and they will be essential for growing businesses. In the future economy, companies will build their business on innovation and the flexibility to pivot as business conditions change. In addition, we will continue to work with the Open Security & Safety Alliance (OSSA), where we are a founding member. During 2020 the alliance plans to launch its offering designed to provide standards and specifications for common components including operating systems, IoT infrastructure, collective approach to data security and privacy.

### What can integrators and installers expect from phase 2 of the Milestone Marketplace?

**Kenneth Hune Petersen:** The main purpose of the Milestone Marketplace is to connect buyers and sellers to co-create innovative solutions in the Milestone Open Platform Community by showcasing software and hardware that can solve real challenges with video management solutions. The business platform solves the need to be transparent about what is readily available and to connect the buyer with the seller to create engagement and opportunity for sales conversations. Version 2.0, which will be launched in 2020, will enable customers to find resellers and integrators who deliver video solutions. So far, we have seen a very positive uptake of Marketplace with 200 product pages, 130 company pages and more than 400,000 page views in 2019. The response from our partners is that Marketplace provides a great channel for expanding the marketing of their software into new markets and grow their business faster.

**In the development priorities for 2020 in your Annual report, you state: "The second offering in 2020 will be a Platform as a Service (PaaS) that brings the XProtect solution to the Amazon Web Services (AWS) platform. This allows for less deployment friction, easy**

**scalability and the secure and reliable benefits of AWS." How is this less deployment friction and an easily scalable approach?**

**Kenneth Hune Petersen:** We are reducing friction with the bring your own license (BYOL) model, this allows us to combine business models rather than disrupting our current channel business model. The installation process is automated, the compute and storage calculations are now elastic, and the deployment can happen in less than 20 minutes. When we think ahead, we are thinking about approaches that will be good for our entire community, not just a single manufacturer. We visualize this as a bridge, with On-prem on one side and Cloud on the other and traffic on the bridge travels in both directions. Our goal is to make sure that all our partners can cross the bridge.

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### MIPS 2020

Due to the evolving COVID-19 outbreak, the highly anticipated MIPS 2020 in Dubai had to be cancelled. Luckily, Milestone hosted the first MIPS of 2020 in Dallas, TX, already in February, and all the content is available for you to explore online: <https://lnkd.in/fRMtef2>



Video surveillance  
at Edmonton Transit  
Service train platform

SECURITY MANAGEMENT

# Well On The Way

Addressing the Growing Security Needs of Transportation Agencies

The number of people using public transportation systems around the world is increasing at an incredible rate. According to a report published by the International Association of Public Transport (UITP), mass transit carried 53 billion passengers in 2017, an increase of approximately 90 million passengers since 2012. But it wasn't surprising.

**P**ublic transportation is essential for getting us to work, taking our kids to school, and bringing communities together. As a result, government departments at every level are dedicating large portions of their budgets to ensuring this critical infrastructure is safe, efficient, and effective.

## Ensuring Transit Safety

Today, public transportation bodies are challenged with deploying greener technology and extending service to emerging neighborhoods. As they meet these challenges, they are ever mindful of providing environments that are both safe and accessible for passengers

and personnel. When it comes to creating safe environments, deploying a flexible physical security system is essential. Transit organizations must be able to extend security operations as they add new routes and connect with new technology as it becomes available.

The Edmonton Transit Service (ETS) in Edmonton, Alberta, is a great example of how a public transportation organization can continue to meet the needs of its growing community. ETS serves a population of almost one million people living in an urban area that covers more than 220 square miles. They provide eighty million rides each year on their buses, paratransit, and Light Rail Transit (LRT) system, which includes eighteen stations.

## Centralized Via IP

The analog video surveillance system that ETS initially deployed had a number of limitations. One major problem was that security personnel could only pull video feeds locally at a given station. This meant that viewing footage from

◀ Security Center Omnicast in use at  
Edmonton Transit Service



multiple points required performing the time-consuming tasks of burning, sending, and collecting DVDs. Another limitation of the analog system was that it was proprietary in nature, which meant that integrating new technology was difficult. As a result, ETS was unable to replace aging and failing hardware or expand the system beyond its existing capabilities to address emerging security needs.

In 2008, ETS switched from an analog to an IP-based security system. This has allowed them to maintain a centralized video management system even as new routes and vehicles are added. It has also enabled them to connect increasingly sophisticated edge devices, including Axis cameras and Eizo IP decoding monitors.

### Saving Resources

ETS decided to upgrade their security system by selecting Omnicast, the video management solution from Genetec. Now, ETS is able to expand their security system to meet future challenges. As part of the Security Center open platform, Omnicast makes it easy to add new technology.

Recently, ETS had a problem with aging and failing monitors used to display video feeds in the control room and public areas. The solution involved connecting new Eizo monitors directly into



Video surveillance at Edmonton Transit Service train platform

the Security Center platform through a plug-in that ETS developed with the manufacturer and Genetec. With the new IP-based VMS solution, ETS personnel can log on to the system and check the status of integrated hardware without having to go out and inspect the equipment in person. The result is a centralized video surveillance system with approximately 1,100 cameras, including several generations of analog cameras and cutting-edge

Axis devices. This new solution allows security personnel in the ETS control room to effectively manage every aspect of the city's public transit system.

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### Hanwha Techwin Introduces Affordable Wisenet Q Plug and Play PoE NVRs

The ability to record images captured by 8 megapixel cameras is among the long list of added value features built into three new Wisenet Q Network Video Recorders (NVRs) from Hanwha Techwin. The ONVIF compliant four, eight and sixteen-channel plug and play PoE devices are suitable for virtually any small to medium-sized video surveillance applications that require a cost-effective, robust and reliable video recording and storage solution. They are ideal for office, retail, warehouse and office-type environments that do not need a high number of cameras, but where users wish to record images captured by ultra-high definition cameras. Support for H.265, H.264 and MJPEG compression adds to the new NVRs' bandwidth friendly credentials, as does WiseStream II, a complementary compression technology that dynamically controls encoding, balancing quality and compression according to movement in the image. [www.hanwha-security.eu](http://www.hanwha-security.eu)

### SECURITY PRODUCTS

#### New Impact-Resistant, Anti-Ligature Corner-Mount Camera

Axis Communications has released the Q9216-SLV network camera, a compact and robust corner-mount camera designed to provide a wide field-of-view and ensure no area is left uncovered. Available in white and elegant stainless-steel, it delivers sharp 4 MP video quality and features Wide Dynamic Range (WDR) for clarity even when there are both dark and light areas in the scene. This vandal-resistant IK10+/IP66 rated camera is ideal for high-security installations such as in prisons and psychiatric wards, where it can help prevent self-harm. It features 940nm invisible IR illumination and polygonal privacy masking for flexible coverage and to help ensure occupant privacy is respected. Additionally, for ease of maintenance, the stainless-steel casing is IP66 and IP6K/9K-rated to allow cleaning with high pressure, high temperature water jets, and the abrasion-resistant two-part front cover is easily removed for more thorough cleaning. [www.axis.com](http://www.axis.com)





Open for business again, thanks to intelligent camera analytics algorithms counting customers

## VIDEO SURVEILLANCE

# Back To Business

## Video Analytics Can Play a Role in Helping Businesses to Reopen

Governments around the world that are determined to contain or delay the spreading of disease are locking down whole cities or, at the very least, demanding that places where people congregate in large numbers, such as retail stores, restaurants shops, pubs and clubs, stay closed. Uri Guterman, Head of Product and Marketing for Hanwha Techwin Europe, highlights some of the ways in which the latest advances in video surveillance may be able to help businesses safely reopen after the restrictions caused by COVID-19 are eased.

**A**t some point hopefully not too far away in the future, the number of people being tested positive for COVID-19 will begin to reduce and thought will be given as to how many businesses will be able to safely reopen. Inevitably, social distancing rules will have to remain in place and this is likely to mean only a specified number of people will be allowed to be in a controlled area at any one time.

### Video Analytics and AI solutions

There are so many environments where complying with this limitation will be a challenge. Pubs and clubs, for example, will be desperate to reopen at the earliest opportunity, but in order to do so, might have to employ additional door staff just to count the number of people who enter and leave. For companies already struggling to survive, the cost of hiring these extra members of staff could be prohibitive.

Fortunately, there is a simple solution readily available which can be quickly deployed and will prove to be far more cost-effective and accurate than employing someone to do the same job. It comes in the form of video surveillance cameras that are supplied preloaded with people counting video analytics. The

analytics algorithms are able to provide real-time information on the net number of people on the premises at any particular time as they can simultaneously count both people entering and those leaving the premises. The data can be displayed in an easy to understand format on smartphones, laptops and PCs to provide managers with an early warning that customer numbers are close to the permitted limit.

System integrators will no doubt be able to identify many other social environments where people counting video analytics will help to ensure that social distancing rules are implemented and verified. We do not yet know how these rules will evolve when the immediate crisis is over, but shopping centers, art galleries and museums are just a few more examples of where the solution can be effectively deployed.

### Occupancy

Although developed to help retailers gain a greater understanding of customer behavior, video analytics capable of identifying occupancy levels provide a powerful tool to identify if too many people are congregating in specific areas. As an example, AI-Crowd video analytics, developed by Hanwha Techwin's tech-

nology partner A.I Tech, is able to provide an estimation of the number of people present in crowded areas where they might be expected to move slowly or stop. AI-Overcrowd will generate an alert if the occupancy of an area exceeds a specified threshold.

As with people counting analytics, this solution can be quickly deployed and used 'out-of-the-box' as it can also run onboard cameras that have open platform chipsets with sufficient processing power. Many cameras will support two-way audio and as such, will enable operators to communicate with visitors that they need to move out of the area.

### Intelligent Video Analytics

In addition to these specialist video analytics applications, a large number of IP network cameras from manufacturers such as Hanwha Techwin, include various forms of license-free analytics as standard. The latest generation of Wisenet cameras, for example, are equipped with a suite of Intelligent Video Analytics (IVA), which includes enter/exit direction, tripwire and face detection. Combinations of these various forms of video analytics can be configured to form a cost-effective digital barrier.

### AI Filters

With the threat of increased criminal activity, control room operators will need all the help they can get to visually verify any suspicious activity and, if necessary, direct security personnel to deal with any incident. The earlier they can do so, the better, and in this respect a new range of Wisenet cameras equipped with deep learning-based video analytics will shortly be launched. These will ensure that operators are not frustrated by 'false positive' alerts which, depending on the environment, might be generated by existing forms of video analytics, as well as the false alarms that are often generated by intruder and perimeter protection sensors.

These cameras will be able to simultaneously detect and classify various object types, including people, vehicles, faces and license plates. Most importantly, they ignore video noise, waving trees, moving clouds and animals, all of which might normally be the cause of false alarms. The AI algorithms built into these new cameras will also provide greater people counting accuracy.

Within the not too distant future, we will see the introduction of AI applications developed by Hanwha Techwin and its technology partners that will enhance video surveillance systems to a level which at this time might not seem possible. Many of the innovations on the horizon will potentially give greater assistance to businesses as they seek to operate in a world where social distancing will remain a very important issue for some time.

### Rapidly Deployable Cameras

These advances in video surveillance technology will certainly also provide security personnel with powerful tools to keep one step ahead of criminals. Indeed, the criminal fraternity are unlikely to restrain themselves at this challenging time. They will most likely seek to take advantage of a situation where many business premises will be unoccupied and therefore offer rich pickings to looters and thieves. There is certainly no shortage of high performance cameras available that will allow control room operators to detect any suspicious activity, but the 2 and 5 megapixel models that are part of the Wisenet X Plus series deserve a special mention.

The four-part magnetic modular design of Wisenet X Plus cameras enables them to be installed much more quickly than other cameras of a similar specification. The ability to pre-configure IP network settings without the need to remove the

camera modules from their packaging also reduces the time an engineer has to spend on site and/or cause disruption. The cameras' motorized PTRZ gimbals also enable installers to remotely pan, tilt, rotate and zoom the lens position in order to set the field of view.

### A Positive Outlook

Manufacturers such as Hanwha Techwin have been striving to help end-users achieve added value from their video surveillance solutions for some time. COVID-19 has made this even more important. Fortunately, our industry has no shortage of ingenious design and development engineers who will help us rise to the challenge and ensure that we contribute to companies getting back to being 'open for business'.



**Uri Guterman**  
Head of Product and Marketing  
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### The perfect solution for automatic tracking

The IPS VideoManager 3D VMS supports your security staff in handling serious incidents.

The system automatically tracks the detected object and hands it over from camera to camera.

No need to manually control PTZ cameras which ensures that system operators can work more efficiently.



VIDEO SURVEILLANCE

# Parcel Tracking Goes Visual

## Value Added Usage of Hikvision Surveillance Equipment

**L**e Havre Groupage is a French haulage company transporting goods all over France and beyond. The company has a warehouse facility of 12,000 m<sup>2</sup> near Le Havre in France. They needed to upgrade their process of tracking the goods through their warehouse, and turned to Juvien to install a technology solution. This, perhaps surprisingly, came in the form of surveillance cameras. Before the new solution was installed, they relied on scanning technology alone to locate packages in the process. This did not give them the evidence they needed throughout the journey of a container through the warehouse and onto the trucks.

The company transports around 8,000 to 8,500 parcels per year. Although there has never been a loss of a package, they have had incidents of customers querying whether the package was in a certain container. This meant they needed a way to settle disputes this, with a way to track the parcels when they

come into the warehouse and when they go out again.

### On and Off

The solution saw Hikvision technology used in an innovative way. Cameras were placed on the front and back of each forklift, and a mobile NVR in each vehicle. These capture the images of each container as it is loaded on and off the truck - using the tracking number to identify it. There is a fleet of twenty-four vehicles, so this meant twenty-four mobile wi-fi enabled NVRs (DS-M5504HNI) and forty-eight mobile network cameras (DS-2X6622FWDI).

The data they produce is transmitted by wi-fi from the forklift to the SAN server, which can store the images for future use. The system is managed through Hikvision's iVMS 5200 software, which allows users to search the database of images, in case they need to find or track a specific tracking number. The SAN server also makes it possible for a recording to be created, even if the Wi-Fi signal is cut off. It will resume the recording from the place where it was interrupted.

### Visual Check

The new solution means that customer queries can be answered with visual information. They can actually see their package go into the truck from camera footage. Juvien says: "Operators can now easily track goods and products by sim-

◀ Cameras at the front and rear of each forklift follow the loading and unloading of every container

Tracking goods is a central part of the service provided by freight transporters – customers like to know where their goods are, and that they have been loaded onto the truck for delivery. Using smart camera technology, the goods tracking process has now been improved – something Le Havre Groupage found out when they had a tracking solution installed recently by French installer Fabrice Juvien.



▲ This rugged mobile NVR has pluggable 3G/4G and wi-fi modules and also supports ONVIF protocol

ply viewing the film record. We chose a Hikvision solution based on three criteria: the quality of the products, the innovation they represent, and the competitive price."

A Hikvision solution streamlined the transportation process, meaning Le Havre Groupage could better serve its customers with more accurate tracking information. The future is also bright – the company is planning to upgrade the software at the center of the solution to Hik Central soon. This is another good example of a technology originally designed for security being repurposed to provide a very different business benefit.

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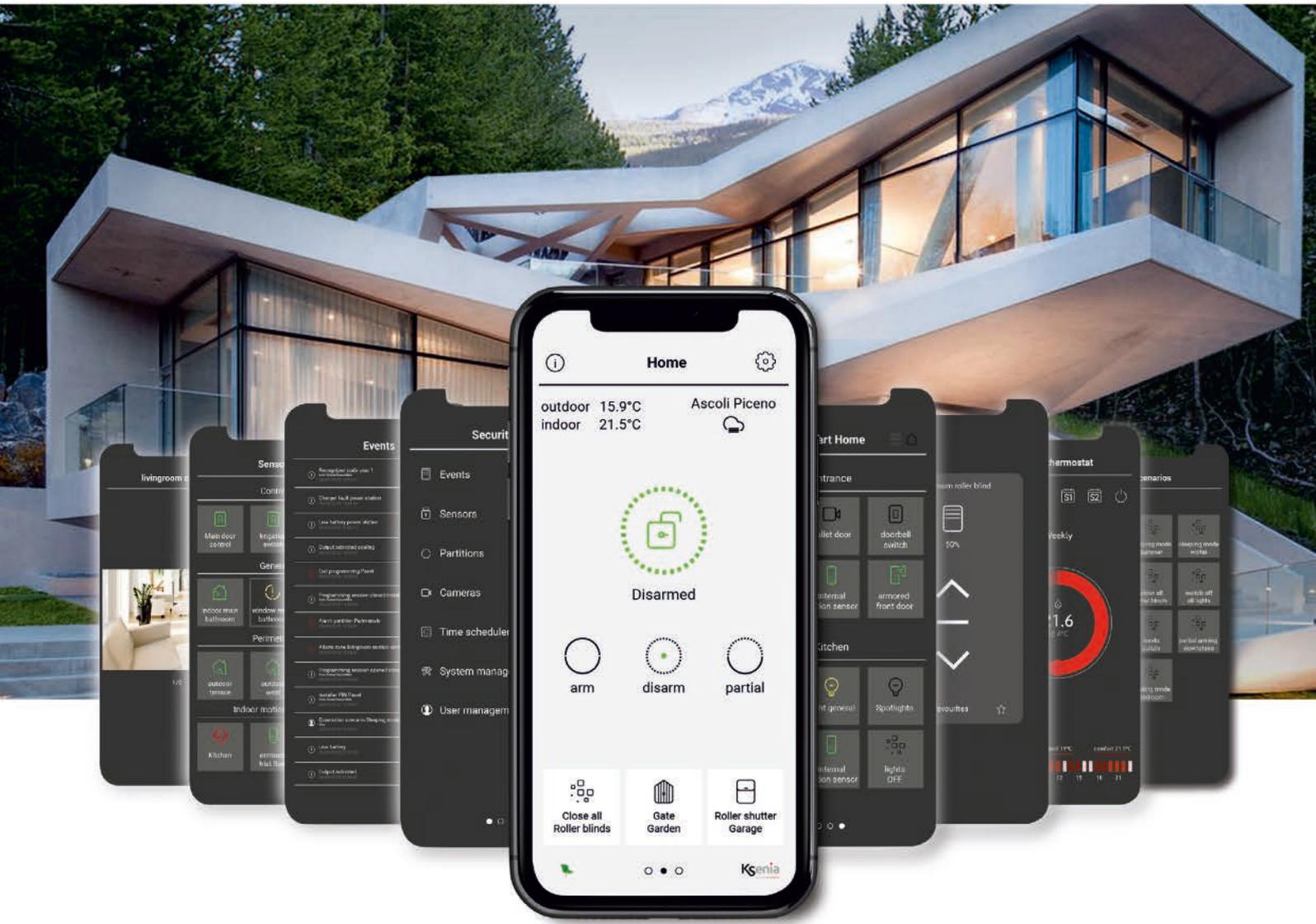


◀ The 1.3MP mobile network turret camera has an IR range of up to 3 meters

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## SPECIAL FOCUS

### ACCESS CONTROL

# The Ins And Outs

## An Overview of Some of The Access Control Systems and Solutions Currently Available

You can see details of new features and functions of access control systems in every issue of GIT SECURITY. The approach of each manufacturer to providing the best solution varies of course, and the result is a broad spectrum of products and services that cater for the wildly different needs of all the users, ranging from international mega-companies to the one-man-band business, from installations in the searing heat of the Middle East to the permafrost of Greenland, from the sea salt-bashed coastline of Cornwall to the mountain tops of the Alps. In short, there's a solution for every need. So we've put together a brief summary of some of the systems that you might like to investigate further to cover your particular access control needs.

**L**et's start small: there's often a need to protect a small outbuilding, even a shed, that just has one door. Keeping a mechanical key somewhere else, or dangling on your personal key fob all the time when it's only rarely used can be tiresome and inconvenient. Luckily, simple systems are on the market that just require either a PIN or your mobile phone to unlock the door. You might consider one of the solutions from Abus here – simply swapping out the lock cylinder with one from their wAppLoxx or CodeLoxx range already brings you into the world of secure electronic access control, while their SLT demands a PIN before opening the door for you. Alternatively, the components of the XS4 system from Salto together form a tailor-made,

wire-free solution to fit almost any door. The system is also scalable – read 'expandable' – to grow with your needs.

If you're still not quite ready to give up the traditional key, then the Cliq system from Assa Abloy could be interesting for you. Along with electromechanical lock cylinders, the range also includes weather-protected padlocks for objects like gates or sheds that require that sort of locking. Centralized administration with traceability from the event log enables authorized administrators to track which keys have opened which doors. A similar concept is offered by Winkhaus with their blueSmart system. The components of this cable-free system communicate with one another to process and distribute access authorizations very quickly.

### Out in the Field

Utility companies face a pretty unique problem in that they have a lot of expensive – and critical – infrastructure distributed all over the towns and the countryside. Electricity sub-stations are one example, water pumping installations are another. Rather than having dozens of individual mechanical locks with personnel having to carry a unique key for each with them, the clever solution these days is to install electronic locks that recognize a token, like key fob, a card or even a mobile phone, for example. Just one physical device is then required to access all the infrastructure installations for which that person is authorized. Maintaining control of who is allowed where and when becomes an extremely easy



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WE'VE GOT YOUR BACK



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**CodeLoxx cylinders provide security, control and convenience at your door**



**The Cliq system offers a variety of combinations of mechanical and electronic systems to match different security and versatile access needs**

task for the administrator, and there's no need to cut keys or change locks if one gets lost. If this scenario applies to you, then you might consider the MobileKey solution from SimonsVoss to make your security administration a lot easier.

### **The Busy Office**

The daily peak of hundreds of employees coming through the turnstile almost at the same time could cause some access systems to break into a sweat. A well thought out system, however, will not only cope with the rush but also provide value-added data in the process. In an emergency for example, the access control system already knows who is on site and can instantly provide a list of people to be accounted for in a roll-call. Tyco has a range of systems that can be configured to suit the size and security level of your organization, from small and simple items from their Kantech range right up to mission-critical control and customized CEM Systems and Innometriks solutions.

Even the devices at specially restricted areas that require multiple accreditation or biometric data to enter will deliver valuable data should the theft of data, designs or other intellectual property be discovered later. And in less critical areas, it is still essential to stop just anyone from wandering through offices and sites, so employees will appreciate the convenience of carrying a small fob or a card that will grant them immediate access to places that they need to be. This will ensure not only their personal safety and the security of their possessions, but also that of the company. A whole palette of products from Deister Electronic can provide a new access control system based around their manufacturer-independent Cipher Card, or upgrade an existing one to instantly provide more convenience and higher a security level.

Come inside a building and there are dozens of other items to which access should be restricted, such as medicine cabinets, retail display cases holding

valuable items, or even the cabinets housing your own IT infrastructure. Senseon have put together a very useful website to help you make decisions and choose the right system. Their cabinet access control systems and electronic locks will find many uses in securing furniture and fittings throughout many different user groups, such as healthcare, high-end retail and hospitality locations, but also in a domestic environment.

### **Out and About**

Of course, it's not only doors that have access control; turnstiles and gates can equally well be integrated into a comprehensive system that covers the entire site, including people access to fenced-in areas such as outside parking or storage areas. To effectively regulate people and vehicle access, you will find a wide range of tested and certified solutions, such as barriers, sliding or folding gates, bollards and road blockers, available from PPG (the Perimeter Protection Group).

**The doorLoxx digital locking system makes it easy to change from mechanical keys to an electronic access control system**



**Bosch Access Control solutions provide an expandable platform for any size project**





**Aeos is designed to adapt to your ever-changing needs, and secured by the highest standards to protect against cyber-attacks**



**Security Center is Genetec's unified security platform to bring access control, video surveillance, and other systems under one human interface**

The Aeos system from Nedap can look after these installations as part of overall site security and bring many other useful features with it, such as identity management, badge printing, and biometric data enrollment. The data generated by the system helps to analyze people flow and staff movement.

No matter what you're restricting access to, be it expensive jewels, intellectual property, sensitive data or materials, it can be very advantageous for your security team to have some interaction between security systems. Genetec offers the IP-based Synergis Security Center that also incorporates these endangered locations into the overall security picture, even those equipped by third-party suppliers. This integration of access control equipment and the unification of other security systems brings some very convenient benefits, such as providing a single intuitive interface for otherwise disparate systems, automating vehicle access or generally lightening operator

workload through the intelligent application of video analytics.

### One Human Interface

The access control software packages offered by Bosch Security to meet needs of varying complexity also achieve this. Their APE, AMS and BIS-ACE solutions all support the OSDPv2 secure protocol between system elements and can integrate third-party functions such as Human Resource systems and, for the BIS-ACE, building automation products. In a similar way, the Win-PAK solutions from Honeywell provide scalable software that manages disparate systems through one interface, growing as additional security requirements are covered, even over multiple sites.

Of course, there are many other developers and suppliers of access control hardware and systems on the market worldwide. We hope the examples above give you at least a starting point to find the optimal solution for your particular needs. If you're not successful, let us

know and we'll put you in touch with our heavyweight friends from the local boxing club who can provide a short-term, if somewhat unpredictable, access control service.

### CONTACT

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- CEM – [www.cemsys.com](http://www.cemsys.com)
- Deister – [www.deister.com](http://www.deister.com)
- Genetec – [www.genetec.com](http://www.genetec.com)
- Honeywell – [www.security.honeywell.com](http://www.security.honeywell.com)
- Nedap – [www.nedapsecurity.com](http://www.nedapsecurity.com)
- PPG – [www.perimeterprotection.net](http://www.perimeterprotection.net)
- Salto – [www.saltosystems.com](http://www.saltosystems.com)
- Senseon – [www.senseon.com](http://www.senseon.com)
- SimonsVoss – [www.simons-voss.com](http://www.simons-voss.com)
- Tyco – [www.tyco.com](http://www.tyco.com)
- Vanderbilt – [www.vanderbiltindustries.com](http://www.vanderbiltindustries.com)
- Winkhaus – [www.winkhaus.com](http://www.winkhaus.com)

### Perimeter Protection Group offers different movable or fixed crash bollards with fast operating times and shallow foundations



### The MobileKey system replaces the good old key with a digital transponder, a PIN code keypad or your smart phone





## Mobile Access

1. What applications are best suited for mobile access?
2. How can users integrate your solution into their access control system?
3. Where is the strength of your mobile access solution?

**1.** Lost credentials pose a serious threat to workplaces. Over 17% of respondents admitted to losing an RFID card in the last year. Mobile access helps: it's harder to lose your smartphone, and likely you will quickly spot it missing. If a phone is stolen, password, pattern and fingerprint ID security prevent a thief gaining entry. Student halls of residence, for example, augment security with mobile access credentials. Few students instantly notice a missing smart-card; almost none survive long without their phone! App access control is also growing fast in the co-working sector. The workers of the future are embracing mobile access... right now.

**2.** Assa Abloy's Openow mobile access solution integrates seamlessly with our Smartair portfolio of wireless door locks and other locking devices. Smartair Openow mobile access control enables security managers and site users to manage virtual "keys" inside a smartphone app. With Openow mobile access, facility managers can amend every virtual key's access rights whenever they want and wherever they are. If a security administra-

tor cancels a virtual key, it vanishes immediately from the user's Openow app. A recent upgrade brings Openow online functionality to Update-on-Card systems — with no updaters and no hubs. Another of our solutions, Cliq Connect enables updating of our programmable Cliq keys from a mobile phone — perfect for workers and contractors on the move.

**3.** In Assa Abloy's most recent Wireless Access Control Report, senior security professionals cite "the ability to remotely permit access to non-employees and revoke credentials instantly" as the biggest benefits of mobile access control. Mobile access also makes it easy and affordable to mandate multi-factor identification, via PIN protection for the access app, on-phone biometric security (fingerprint, face ID), or a combination of both. It's also more convenient for everyone. Facility managers issue, revoke or amend access rights from anywhere, including from their own smartphone. When users store virtual keys on their phone, they no longer carry a fob, badge or any hard credential.



**Thomas Schulz**

Marketing & Communications Director Digital and Access Solutions at Assa Abloy Opening Solutions EMEA



**Vincent Dupart**  
CEO at STid

**1.** The access control market demands intuitive solutions. The smartphone has become the new key to access control thanks to its operational efficiency, smooth access and intuitiveness. On average, employees use a badge 11 times per day. This can be a real burden. But while new solutions have to be more flexible, they must also guarantee that data is protected. For more than 20 years, STid has been protecting people, data and the property of the most demanding businesses, governments and industries. We have clearly anticipated this shift towards intuitive and ultra-secure technologies with our STid Mobile ID solution.

**2.** In concrete terms, STid Mobile ID is a global, open ecosystem consisting of:

- An online platform that manages, distributes and administers dematerialized access badges
- A mobile app compatible with Android and iOS that acts as an authentication mode with Architect Blue readers
- Web APIs and a development kit to open up the ecosystem

We talk about an open ecosystem because a company can fully incorporate STid Mobile ID into its own system: the solution can be adapted to the high-security zones in a company. STid Mobile ID is available in a cloud-based version, or in a version hosted by a third party. It can be tightly integrated into all access supervision and control systems.

**3.** STid Mobile ID digitalizes all your access badges in a single mobile application. The system manages physical employees or visitors entrance, access to a virtual workstation, etc., and the smartphone, when simply switched on, and even during phone calls, becomes a means of identification. Users can tap their smartphone twice, move their hand over the reader, enter a room directly, without taking any specific action, or pass their phone in front of a reader.

But this need for intuitiveness must not be detrimental to security. STid has a strong end-to-end command of the security chain to guarantee the protection and the confidentiality of data. Proud to offer this intuitiveness, without compromising security levels!

1. Salto Mobile Key offers the access control industry a multitude of possibilities and can extend a security solution to include convenience as well as more efficient operations. Mobile key solutions leverage – and capitalize – on the fact that mobile phones have become the most integral part of our lives. Mobile access control solutions provide users with a keyless experience they value because it gives them instant and remote accessibility without sacrificing security or comfort. With the introduction of the Mobile Key functionality, we are one step closer to a smart keyless world. It becomes easier and more intuitive to open any door for yourself or for anyone you want to grant access to – no matter where on the globe you might be. Mobile Key technology brings a variety of access control options to your building that can enhance your user experience beyond expectation. Mobile key is about enabling connectivity among people, smart locks, and operations enabling distributed security wirelessly in any type of building and technology application.

2. At Salto Systems, we've always invested in research and development to continually refine and improve our products. One of the key areas that we devote a great deal of time and resources into is in developing integrations with other technology partners to combine and incorporate their services with our products. This results in improved technology and solutions which increase efficiency at a managerial level and optimises security for access control and security overall. Salto's Application Programming Interface (API) allows third-party applications to easily operate and manage the Salto smart wire-free electronic locking platform. By providing an API, Salto gives security systems and building integrators all of the flexibility they need in developing their own application that best fits their ecosystem. This

also provides the (building) system integrator full control over its (Cloud) management systems and business strategies. When the Salto integrations team receives a request to evaluate how the respective technologies can work together, Salto sends a Software Development Kit (SDK) for Mobile Key integration and the groups work together to integrate the API. This process gives Salto and our colleagues in the security industry an opportunity to work together and elevate the solution for our end users. And it doesn't matter with which Salto platform you want to integrate. Mobile Keys are available for both, the on-prem system Salto SPACE - data-on-card -, as well as the Salto KS - Keys as a Service - platform.

3. Technologically cutting-edge, Salto's Mobile Key technology means the end of lost key hassles, expense, and waste. Plus, the technology isn't limited to smart locks on a regular door. JustIN Mobile technology can also be used on a variety of Salto electronic lock applications: main entrance wall reader doors, elevators, car park barriers, meeting rooms, emergency exits, electronic cylinders, locker locks, cabinets – the list goes on.

There is also an expanding list of features associated with JustIN Mobile including dynamic user key management, automatic key renewal and cancellation, user key cancellation, and the ability to update the lock's blacklist via a mobile phone. The blacklist capability, for example, increases security and prevents fraud by improving control of user access and management of access rights. Incorporating mobile access into building security ecosystems without jeopardizing security is essential to maintaining safety. Flexibility is also crucial because some users may not be using mobile credentials. Being able to mix and match systems technology, hardware, and credentials is a must and is a priority offering from Salto.



**Michael Unger**

Vice President  
Product Management  
at Salto Systems

## FIRE PROTECTION PRODUCTS

### Comelit Fire Detection Protects Newly Reopened St Catherine's Church

Comelit's fire detection systems have been installed at the newly reopened St Catherine's Church and Pastoral Centre in Coventry, which was initially built to serve the local community prior to the outbreak of the Second World War. It was forced to close in January 2011 as the maintenance of the building was no longer sustainable. The new building, opened by the Bishop of Coventry has a multi-purpose hall. The building is accredited fire-safe with the installation by Avalon Technology Group of Comelit's Atena Easy Single Loop System. This solution is a compact, entry level fully addressable control panel system. Finished in line with Comelit's focus on aesthetics, its stylish design can accommodate up to 500 devices.



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

### Flexible Fire Protection with New Bosch Wireless Detectors

A new generation of wireless detectors from Bosch Building Technologies offers a flexible fire protection solution that works almost entirely without cabling. It is therefore ideally suited for historical buildings, for retrofitting and expansion of existing buildings, and for temporary installations. The new system provides high availability thanks to the combination of two frequency bands and highly reliable mesh technology. The solution consists of a gateway, connected to the fire alarm system by cable, as well as up to thirty detectors and ten manual call points, which communicate with the gateway by radio and can therefore be installed anywhere. Up to ten gateways can be networked that are compatible with every Bosch fire panel.



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

Aperio electronic wireless handles provide simple and efficient control in this hospital

COVER  
STORY

URGENCES

ACCESS CONTROL

# Why Are We Waiting?

Wireless Access Control: Multiple Solutions for a More Efficient Workplace

Access control is becoming a wireless-first technology. No ifs or buts. The advantages of wireless over wired locking — in installation and operating costs, flexibility, control and more — are just too clear. One of the selection of products from Assa Abloy described below could provide your first taste of the convenience of wireless locking systems.

**O**f course, you can still secure some doors effectively with traditional, wired electronic locks. The front door, genuinely high-security interior doors, and so on. But if you want to gain real control over your premises, there is no sensible, cost-effective way to do that without wireless devices and solutions. This applies whether you are looking for

a new system — your first or an upgrade — or extending existing security to more doors or new sites.

The next step is matching your needs with the capabilities of different technologies. Wireless is not a one-size-fits-all solution. Its effectiveness hangs on making the best choice for your specific business. The right solution will make

your workplace run more efficiently, and be more convenient for users, as well as boosting security by controlling everyone's access better.

## Removing the Key Management Workload

A specialist security team is beyond the budget of many small businesses. For

building access control in these settings, CLIQ Go offers an easy, app-controlled way to run a programmable key solution. Any non-specialist can issue and program access rights into battery-powered keys via a user-friendly app. They can cancel any keys which are lost and those held by departing employees. Restricting temporary workers' and contractors' access to specific times only takes a few taps on a screen. CLIQ installation is simple, too: these key-operated locks are wireless, so there's no drilling or cabling around the doors.

Another option for small to medium-sized businesses, SMARTair, is an access management system that offers an easy upgrade from physical keys to digital credentials. Stored on an RFID card, fob, wristband or smartphone, these encrypted electronic credentials can be cancelled or reissued at any time, so you wave goodbye to tracking down lost keys and changing locks.

At the Hippodrome Côte d'Azur for example, managers faced a familiar security dilemma: how to stop mechanical keys being duplicated without authorization, jeopardizing employee and visitor safety. They chose a SMARTair Update on Card access control solution to drastically reduce the time and money wasted in getting locks replaced and keys recut. With their new system, they can delete users' lost cards instantly. Easy, flexible credential management enables them to program granular access personalized for every site user.

"In the long term, SMARTair access control is cheaper than keys to manage," says Bernard Arnaud, Supervisor for Accommodations at Hippodrome Côte d'Azur. And because SMARTair is a modular system, scalability is built in. The Hippodrome Côte d'Azur can extend or fine-tune its access system as required.

**There is no need to carry multiple mechanical keys with you when wireless systems are installed**



**Code Handle is a quickly-fitted access control solution for individual doors**

### Single-Seat Management

In large-scale organizations, access control often operates within a complex security or building management system. Integration is the number one priority. Another Assa Abloy wireless technology, Aperio, is built on an open platform specifically for interoperability. Aperio wireless cylinders, electronic handles, escutcheons, server rack devices and security locks work seamlessly with security systems from more than 100 different

third-party manufacturers. The wireless locks offer more control through the building than would ever be cost-effective with wired doors. One control panel still manages everything, minimizing workload and complexity.

At the Centre Hospitalier Métropole Savoie (CHMS), a large new hospital for France's Haute Savoie, Aperio wireless escutcheons and electronic wireless handles work alongside wired doors secured with the system's wall readers. The battery-powered devices integrate natively and online with an ARD access management system. A network of 228 communications hubs connects every Aperio lock wirelessly to the central access system, so wired and wireless access points at CHMS are managed together, with real-time management logs, remote door opening and free time slot management.

Because Aperio locks are wireless, the hospital could introduce many more layers of security and secure doors without incurring excessive installation or operating costs, including for sensitive offices and drug stores. Now staff no longer haul around bunches of keys or waste time hunting down the right key. All their individual permissions are stored on a single, programmable RFID credential. Having one management interface means that security teams administer and maintain



Wireless access control offers a security solution to meet the needs of any building or business

access control autonomously and time-efficiently, in part by streamlining laborious everyday tasks.

### Smart Devices Become Mobile Keys

Almost a fifth of respondents to one security survey admitted losing a credential during the previous twelve months. A new generation of mobile phone-based access solutions offers a cure: it's harder to lose your phone, and you will quickly spot it missing. Passwords, PIN codes and biometrics add on-device security.

The fast-growing coworking and flexible workspace sector is already an enthusiastic adopter of mobile keys. At ULab in Spain, savvy managers chose Openow, the mobile key solution for SMARTair. It gives workspace residents an option to carry virtual keys on their smartphone. In this sector, image matters, and premises offering mobile credentials like Openow make a good impression. Phones replace plastic keycards, so there's no need for a terminal at the reception desk. It's slick, efficient and millennial friendly. "I would definitely recommend the SMARTair system, because of its design and technology," says ULab director, Enrique Burgos Pérez.

### Efficient Contractor Management

CLIQ Connect is an access solution designed to boost efficiency and sustain-

ability for utilities or any business with a remote workforce or multiple contractors. In such a system, each keyholder carries one programmable key loaded with all their access permissions. To update key access rights, they pair it with the CLIQ Connect app. Facility and security managers amend access permissions via a Web Manager, online or back at base. Keys are updated remotely via a secure cloud connection between app and system. Keyholders can also be required to enter a PIN, for an extra layer of authentication.

At French fiber optic network operator ZeFil, physical key management had become a hassle. CLIQ electronic, key-operated cylinders were available to fit each of ZeFil's multiple door types, wire-free. To change a CLIQ Connect keyholder's access permissions, ZeFil's system administrator accesses the CLIQ Web Manager and updates it. The keyholder makes an encrypted Bluetooth connection between their programmable key and the app to instantly update permissions from the cloud. Keyholders no longer update in person, carry additional programming devices, or return to base to amend their access rights. All they need is a smartphone and the CLIQ Connect app. The resulting cut in fuel use means lower costs and a reduced carbon footprint.

### Entry-Level Access Control

The easiest access solution to implement, Code Handle, is a battery-powered digital locking handle with a PIN keypad. It adds PIN code security to almost any interior door, without any need to install or manage access control software. This means that you no longer carry or keep track of mechanical keys for any public-facing door where you wish to restrict access — a stock room, a private office, a treatment room, a customer toilet or a medicine store, for example. Code Handle auto-locks when closed, adding another layer of safety and peace of mind.

Managers at the UK head office of marketing agency Thirst identified two doors that required an easy, low-cost security boost. Staff and visitors come and go all day, but they wanted to ensure that not everyone had open access to the server and the private meeting room. "We found Code Handle easy to install and a perfect solution for keeping private rooms accessible only to those employees that require access," says Nigel Catermull, founder, owner and managing director at Thirst.

**Learn more about wireless access control from Assa Abloy with these free downloadable solution guides:**

**CLIQ Go:** <https://campaigns.assaabloyopeningsolutions.eu/cliq-go>

**Aperio:** <https://campaigns.assaabloyopeningsolutions.eu/aperio>

**Openow:** <https://campaigns.assaabloyopeningsolutions.eu/smartair-openow>

**CLIQ Connect:** <https://campaigns.assaabloyopeningsolutions.eu/cliq-sustainability>

**Code Handle:** <https://campaigns.assaabloyopeningsolutions.eu/codehandle>

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## KEY MANAGEMENT

# Corona and Keys

## How Key Control Helps Businesses During a Pandemic

In times like these, it is crucial to think about how everybody can help together containing the spread of Covid-19. Utilizing key management for this matter is one way to help, because it can aid in maintaining the security of the facility itself if it is not in use.

The sudden onset and rapid spread of the Coronavirus has disrupted business operations for virtually every organization around the world. Some businesses are fortunate to be able to continue functioning with all personnel working remotely, or by shifting towards online communications and sales. Still, with the population being told to stay at home as much as possible, and with the forced closure of non-essential businesses, there are now many facilities standing virtually empty. Even for essential businesses that are staying open, there may be a much-reduced workforce present on the premises. This presents a higher security risk for theft, vandalism and other crimes.

Making matters worse, for those establishments which have been deemed essential there is a very real concern of spreading the virus through contact with objects that are touched or handled by numerous people.

### Containing the Virus with Key Control

For both of these situations, key control offers a useful solution. Use of a key management system can help in containing the spread of a virus and can also aid in maintaining the security of the facility itself if it is not in use.

When a building is empty, or there are fewer people on the premises than usual, it can be more vulnerable to threats. Even for those individuals who have authority to be in certain sections of the facility, an office, storeroom or other area devoid of other people can present an unusual level of temptation.

By keeping every physical key used by an organization in an electronic key control system, management can tightly contain the permissions for their removal and use. Because each key has specific parameters defining who has authority to take it, the provisioning for each key can be individually controlled. With networked systems, this makes it possible to make changes quickly and easily in the

permissions for each key as well as for each user.

### Airports

For example, at an airport, there may be gate doors and other portals to the tarmac area that are not actively in use at the current time given the reduction in flights. The maintenance hangars need additional security oversight as well, as they may be lightly staffed.

In that same airport, or any organization which has been deemed essential and is remaining open to the public, there is the additional pressing need to limit the transmission of the virus between people. Any object or surface that is touched by more than one person on a regular basis could be a carrier. As mentioned above, a key management system enables strategic reduction in the number of people who touch any given key. It is simple to remove access permissions for most of the individuals who would typically have the ability to remove a key, keeping it in the hands of only the people who need it most. This will also limit the likelihood that a person carrying the virus (and possibly not showing symptoms) might use the key and potentially transmit the virus in this way.

### Containing the Spread

And key control can do even more to help organizations contain the spread of illness during a pandemic. Consider this: when all the physical keys used by any organization are secured and managed using an electronic key control system, no key can be removed for use or returned without the action being logged. The time, location, key and user are all part of the data recorded for each transaction.

This means that should an employee test positive for the virus, it will be possible for management to audit the key control system and determine who else has recently used any key which was also used by the sick individual. Those employees could then be informed that they

had been exposed to the virus and could be tested or treated accordingly.

### Keys as Transmitter

Of course, there is no getting around the need for multiple individuals to touch the exterior portions of a key management cabinet. It is necessary in order to use the touch screen or keypad, enter credentials, open the outer door etc. Given this reality, it is important to educate staff on the best way to clean and disinfect the system. Key cabinets, including individual keys and fobs, should be wiped down every day with a damp disinfectant wipe or a cloth with a mix of water and rubbing alcohol. Liquids or wipes that contain bleach must be avoided, since bleach could harm sensitive electronic surfaces. The cloth should not be dripping wet, as moisture could seep into delicate circuitry and cause damage. Only gentle pressure should be used on the touch screen. Users may also want to place a box of medical gloves near each cabinet, with signage encouraging their use.

### Conclusion

It can be frightening for employees to have to go to work during a pandemic, when every touch could have potentially life-threatening consequences. While it is just one small step, leveraging the features and capabilities of a key management system can help make a meaningful difference in keeping a workforce – and their families – healthy and safe.

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Steve Hough, President of Soloprotect

## LONE WORKER

# Alone at Risk

## Interview with Steve Hough on How Working Alone Carries an Increased Risk Potential

Steve Hough, President of the British lone worker company Soloprotect, is familiar with some of the potential dangers, where and when people working alone could possibly get into trouble and how employers can identify and reduce the various safety risks for their employees.

**GIT SECURITY:** Mr. Hough, how can employers and managers even know if and when their staff are potentially at risk?

**Steve Hough:** To do this, those responsible must first identify the possible risks, then list them and finally classify them according to type and relevance. Awareness of potential risks, dialogue with all employees involved and their cooperation in risk assessment around their specific areas of responsibility are important components of this process. Finally, in order to minimise the risk that can be identified from a business management perspective, it may also be necessary to change work processes of individual departments and employees and to use certain aids.

**How can employers protect their employees?**

**Steve Hough:** There are many ways to do this, but first you should look at the corporate culture of your own organisation. If you can create a uniformly applicable safety standard, this is a good start for the whole process. Part of this development is also the definition of a dynamic safety regulation for sole employees, which is known to every employee and which must be constantly renewed and individually adapted. Any security measures for single workers should also include the use of technologies that are

used throughout the company. This makes it clear what is expected of everyone involved and the benefits these measures provide to the entire organization.

**What can be done if employees do not follow the established safety measures?**

**Steve Hough:** I think it's less about cooperation and more about shared values and responsibilities. After all, everyone shares responsibility for safety at our workplaces. The issue should be seen as a constant initiative that all parties are working towards or actively maintaining. This approach is an essential part of developing our own corporate safety culture. It is important to involve all employees in the issue as a collaborative project and to effectively communicate the benefits of a safer workplace to the whole organisation.

**How can an employer determine whether the safety measures in place are being ignored by employees?**

**Steve Hough:** Where technology is used, it provides actionable figures on the acceptance and ongoing use of the safety equipment, which are important indicators of the company's return on investment. If defined security measures are not adequately implemented by employees, this should be clearly addressed in a personal discussion about the mandatory security guidelines. There should also be regular checks, safety training and a constant dialogue on the subject of occupational safety. The regular awarding of so-called "safety champions" – people who implement the defined safety measures in the company in an exemplary manner – can support the ongoing discussion on the subject of occupational safety and point out where any problems require further attention.

**How can the employer ensure that the employees themselves recognise potential risks in the long term and report them as early as possible?**

**Steve Hough:** Provide a communication platform accessible to all employees for regular dialogue on best work practices. This could be in the form of a special forum on your company intranet, for example, or in monthly departmental meetings. Have them report success stories and potential risk factors and continue to encourage your staff to identify and dynamically assess risks in their day-to-day work. Here, too, the use of technology can help by periodically executing specific functions.

**How much time, manpower and budget should companies spend on effective health and safety measures?**

**Steve Hough:** I think this is individual for each company. It depends on the risks involved and the corresponding corporate sense of responsibility, to what extent you can and want to meet the safety needs of your workforce in accordance with the resources available. Everyone who goes to work should come home unharmed at the end of the day, but unfortunately this is not always the case. I also think, moreover, that, from a sober business point of view, it is advisable not to regard expenditure on security measures as a mere cost, because in the long term they are an investment in the physical and mental health of the staff, which in the long term benefits the organisation – satisfied employees and, as a result, fewer absences and leavers.

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Martin Bemba (left),  
Abus Security Center's  
CEO since May 2019



## COMPANIES

# Security at the Core

The Expectations of Security Technology in these Times of Digitalization – an Interview with Martin Bemba, CEO of Abus Security Center

Intruder protection, video surveillance, access control & co. – they are increasingly blending into other systems within a building, such as the window control and the lighting systems. But the security technology should always play the primary role, says Martin Bemba. GIT SECURITY spoke with the CEO of Abus Security Center about security technology in the era of digitalization, about partnerships and alliances, about innovation and growth plans.

**GIT SECURITY:** Mr. Bemba, the readers of GIT SECURITY have known you for many years in management positions within the security industry, and as a member of the board of the ZVEI. You have been Chairman and Managing Director of Abus Security Center since May 2019. How have you enjoyed your first six months and what sort of company did you discover?

**Martin Bemba:** Abus is a family-run company with a long tradition, which brings obligations with it. The employees of Abus Security Center have fully understood the subject of security. I have come to know a company that maintains a respectful appreciation of its employees – and also of its partners and customers. This influences the company culture at Abus. Added to that, there is an orientation to long-term goals and the corresponding investment. Short-term shareholder-value thinking, such as can be found in many larger concerns, has no place here.

**By appointing you, Abus Security Center wants above all to continue and strengthen its digital strategy in the areas of electronic security and building technology. The company has already made great strides in recent years with the enlargement of its portfolio with IP technology and the consolidation of its alarm, fire protection, video and access control activities under the Abus Security Center name. What new priorities do you want to set, according to your experience?**

**Martin Bemba:** I can see a number of things that we want to drive forward together. The subjects of User Experience (UX) and Installer Experience (IX) are, of course, important here. We must also have our installers and our end customers equally in focus – and both are highly exciting matters for which we have developed policies. Don't start your thinking from the problem, rather ask yourself what does the customer want – that summarizes our way of thinking.

**Could you give us an example?**

**Martin Bemba:** Take the owner of a family home. What he wants is to protect his house and his valuables. For us, this means that, for example, he no longer has to activate and deactivate his alarm system. As soon as he gets near, the door will automatically be unlocked, the light goes on, and so on. We want to make this intuitive operation of a Smart Home possible. And we're always also thinking about other systems, for example in conjunction with "Senior Care" and "Baby Care". We must always include interfaces to non-security devices as well. But security must always be encapsulated so that the security technology itself stays secure and reliable. Even if the security technology should always play the primary role, there should also be other interfaces, to the window shutters, to the music system, etc. And amongst all this, we want to emphasize that digitalization also means saving costs: it's all about security, but also about energy efficiency, about sustainable living.

Another matter that we will pay more attention to is the partnership with the installers. We want to support in particular the many smaller installers with the realization of corresponding business plans. At the end of the day, it's all about taking everyone on the journey – the installers and naturally also the end users – with good business models and easy-to-use products.

**Let's have a look at the subjects of standards and partnerships. What are you doing currently about these?**

**Martin Bemba:** In general we consider new partnerships to be necessary. The reason for this lies above all in the fact that, from our point of view, no particular standard has become dominant. We naturally have to serve all the existing standards such as Z-Wave, etc. But it's important to remember that security is a differentiated domain. In particular, no security-sensitive data must be allowed to be transferred, for example when a light is supposed to be activated by an alarm. We therefore work with a cloud that we host ourselves. We are already demonstrating such partnerships under our 'Smart Friends' program. But we can also imagine a 'Security Alliance', similar to the 'Star Alliance' of the airlines. We're looking here for partners that will provide problem-free Plug & Play and very good interconnectivity.

**Mr. Bemba, at Abus Security Center you have a multidisciplinary R&D team for digital building technology. Which areas of expertise are represented, how large is this team and what is it working on exactly?**

**Martin Bemba:** all the relevant areas of expertise are represented: software, hardware, firmware, mechanics, and also external partners. We place great importance on the User Experience (UX) – and with this we mean far more than just the individual products. We look at the whole chain, from the first call right through to holding the product in your hand and using it. This is about total solutions for security technology with access control, video and alarms, including totally new aspects such as sensors and artificial in-

telligence. So we will build strategic partnerships for these: quite a lot is created these days in exclusive, small start-ups – we then want to make these innovations available to a larger public. In total, we employ some 50 people internally in Affing – a still larger number works externally at our technology partners and providers.

**Let's also talk about products – what would you consider the most important recent innovations?**

**Martin Bemba:** We have a lot of great new products ready to go – such as the Abus Wlan Accu Cam that has just been launched on the market. It can deliver video surveillance in or to a building without any cables. The camera is suitable for use outside and provides excellent images – even at night. The images can be sent and stored on an SD card or a mobile phone – via a push message or actively to watch – including the ability to talk back.

**There are similar products available from other suppliers . . .**

**Martin Bemba:** ... but we really do have some unique selling points to offer. For example, our Wlan Accu Cam can be recharged within just four hours – for a subsequent operating time of the camera on up to 13 months. In addition, we offer the advantage of data storage on an SD card, internally and securely, even if the router should fail. With regard to access control, we also have a great new system: wAppLoxx Pro can also be used for larger properties. We will also introduce a new alarm system – this was originally planned for March at the now postponed Light + Building 2020 event – as well as another version at Security 2020 in Essen

in September. It is a system that consolidates the various security systems of a building, and provides additional intelligent building applications.

**There is increasing concern about subjects like cybersecurity, data security, and hacker attacks – also within Abus Security Center?**

**Martin Bemba:** Secure stays secure – that means that Abus systems are encapsulated and will always be so.

**Your extending your financing options; amongst others, there is the a Lifecycle package?**

**Martin Bemba:** A new finance scheme is first of all the ability just to pay for what you actually use. For example, those who are nearly always at home have different needs to someone who is always traveling. If the house is empty and unguarded, I'll need some more security measures – that's different if I'm at home anyway. We offer finance plans for intruder protection systems through the KfW (lit. 'Kreditanstalt für Wiederaufbau' – the German state bank for the finance of development). The customer can also choose particular services as and when they are required; for example if the family grows. And if I go on a longer holiday, I might need – or most definitely need – more protection for my house, my apartment or my office.

**Mr. Bemba, you have determined significant growth to be the primary aim of your company. How are you going to achieve this?**

**Martin Bemba:** the keywords for us here are digitalization and integration – in addition, new products and technology



**Martin Bemba with digital lock – talking with Steffen Ebert (left) from GIT SECURITY**

such as KI are on our agenda, and in particular special products for special target customers. We will also stimulate growth through international expansion. The installer and end-user sales channels are equally important to us. We will be focusing mainly on private households as well as small businesses through the installer channel, although we will still be involved in larger projects. And that applies to all our systems. We cover the complete range – from an individual family home right up to large project tenders. It is important for us to communicate that Abus is not only a synonym for security, but also one of the very few companies – if not the only one – that combines mechanical and electronic systems the way we do. Abus already offers a highly secure product against burglary that can prevent an intruder from even getting into a building by giving massive mechanical resistance and using modern alarm technology. To combine this with convenience and the ever more frequently demanded

interoperability is a logical consequence that will gain importance.

**You were awarded the Red Dot Design Award 2019 for Abus surveillance cameras last summer. How significant is design for Abus Security Center and its customers?**

**Martin Bemba:** The design of our products is very important. Our products are visible, and everything that is placed in a room must look stylish. But design at Abus is a lot more than just that. As I mentioned at the beginning of this interview, both the Installer Experience (IX) and the User Experience (UX) are crucial for us. Our product designs are therefore fundamentally so conceived that they look good, and also completely satisfy both the installer and the user when they are installed, put into operation and used.

**What can we expect to see from your firm during 2020?**

**Martin Bemba:** Apart from the new items I mentioned, we can see some consolidation of products. Customers don't want five separate apps for each device. They would like unification of different systems.

I'll take just a small excursion into the world of Abus beyond the Security Center if I may, because there are also quite a few security innovations to be found here too. Some examples would be not only the front door of the house that I can unlock via Bluetooth, but also the Abus cyclist's helmet that recognizes when the wearer falls. I'll have a good feeling of safety and security knowing that I, or those that are dear to me, will be helped quickly after a nasty fall.

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

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SPECIAL FOCUS AIRPORTS

# Drones Are An Issue

**A Report on Drone Security Around the Airport**

GIT SECURITY takes on the topic of drones to talk about the latest incidents, regulatory situation and about many questions that come up around the topic of drones. Let's take a look around an airport!

**SPECIAL FOCUS**

One of the most crucial parts of any airport is the runway. Not only are starting and landing supposedly the most attention-seeking times for captain and crew, even the smallest disruptions like birds or anything on the runway can cause lots of damage or an immediate call-for-action. This leads to distress not only with the crew, but also for the passengers.

### Drone Incidents at Airports

Time and again, the media reports on drone incidents that are causing air traffic to be disrupted. The number of drones, especially in private use is rising and with that, so do drone incidents at airports all around the world. For example, many flights were diverted from Dubai International Airport in 2019 due to suspected drone activity. Maybe one of the heaviest impacts of drone activity in 2019 happened at Gatwick Airport, when approximately 140,000 passengers and over 1,000 flights were affected. The Guardian then wrote "Heathrow and Gatwick invest millions in anti-drone technology". In February 2020, many newspapers reported on a disruption at a Madrid Airport caused by drone sightings. For over one hour, flights to and from Adolfo Suárez-Barajas airport were disrupted and the airspace around the airport had to be closed. In March 2020 – a similar scenario at the Frankfurt Airport: According to Frankfurter Allgemeine Zeitung, air traffic had to be suspended for 90 minutes. Drones are an issue and the numbers rise with every month.

### Drone Detection

Drones represent a very large safety risk in many respects: They are very small, so they are often discovered very late or only with the naked eye as conventional radar systems often fail to detect them. The area around the airport is always a restricted area. Nevertheless, drone owners manage to penetrate these areas again and again. It often takes a long time from drone detection to alarm and localization. Entering such areas is not only a security risk, but also a criminal offence, which is why the police are also notified of such incidents. They have to patrol the extensive area around the airport to locate the drone and its owner. If a police helicopter is on duty, it must also follow the flight zones. Thus, from a drone sighting to an arrest is a troublesome process.

### What Can Security Systems Currently Do?

Security systems at airports often consist of multiple layers of security. Drones fly

with radio frequency, which sends signals about location, battery etc. to the station. These radio frequencies can be received and analyzed by sensor manufacturers. With an intelligent analysis behind the sensors, it is now even possible to differentiate between different models of drones. This happens at a range of about 1-2 kilometers. In case of an alarm, the surveillance cameras are used to provide video evidence. In some cases, it is even possible to send interfering signals to the drone, which triggers the drone's home function to force it to land safely. One can imagine that in an area as large as an airport, 1-2 kilometers covers a big distance, but is not enough to secure it all the way. If you consider that landing strips have a length of around 1.5 kilometres and upwards, and considering that aircraft fly with high speed, you soon realise that the drone defence system still needs to be upgraded considerably in terms of safety.

### The Legal Situation

The topic of drones is overshadowed by a large grey cloud of ambiguity, because the legal situations in countries across the world differ greatly. In June 2019, there was an overarching decision by the EU that defines the use of drones for their owners, but there are still large gaps and question marks in the legislation. For example, in the defense against drones. What happens if a drone that is in a high-risk zone is taken out of the air? Shooting down a drone proves to be much more difficult than initially assumed. The shot may miss, parts of the drone may splinter off, and then the drone has to be brought to the ground, which also poses a safety risk. So far, the regulations for unmanned aircraft vehicles are not yet fully developed.

Another problem arises when thinking about regulations concerning manned aircraft. Whether and how manned aircraft may and should evade drones is always accompanied by the question of extreme safety and is therefore too complex for a simple solution to be effective. So, it is probably easier to clarify the legal situation on the drone side. However, a great deal of research is still needed.

### Impact Tests

Questions about the impact of a drone collision with an aircraft are dealt with by the University of Dayton. A team of researchers has been investigating the impact of birds on aircraft parts for over

40 years. Since drones are very similar in weight and size to birds, they are currently testing how the situations develop in drone collisions. In one experiment, the researchers compared the impact of a gel bird and a drone on a wing selected to represent a leading edge structure of a commercial transport aircraft. They came to the following conclusion: "The bird did more apparent damage to the leading edge of the wing, but the Phantom penetrated deeper into the wing and damaged the main spar, which the bird did not do," said Kevin Poormon, group leader for impact physics at UDRI. Another consideration regarding the regulations falls onto the production of drones. It may already help to make the drones more fragile so that they break more quickly on impact. A weight limit can also help. In logistics, there are already



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efforts to use drones for parcel deliveries. If drones were to perform such tasks, they would increase in size and weight. This also increases the security risk enormously. Tests with bird types comparable to the Canada Goose have already reported tremendous damage to aircraft parts. The "post drones" would far exceed the weight of a Canada Goose.

Perhaps with the maturing of artificial intelligence in video surveillance systems, it will soon be possible to distinguish between the flight of birds and the flight of drones - be it through sophisticated thermal image analysis or the recognition of wing beat movements or typical flight patterns of birds and drones. The development and use of drones is an extremely dynamic process. Politicians as well as researchers and developers of security systems have to keep pace to ensure highest possible security standards, especially at airports.

### Author

Lisa Schneiderheinze,  
Deputy Editor in Chief of  
GIT SECURITY EMEA



◀ Intrusion protection for Italy's major Airports, Malpensa, Linate (near Milan) and Fiumicino (near Rome)

## SPECIAL FOCUS

### AIRPORTS

# Safe Fences, Safe Runway

## Three Major Airports in Italy Chose Cias Sioux Mems Fence-Mounted System To Protect Their Perimeters

Perimeter protection has become an important part of security systems, since in recent years to protect large and crowded facilities with enhanced defense became more and more a priority. Among those critical infrastructures' perimeters there were airports, which were specifically addressed for protection by European Union regulations, topping the list among all public places for their size and for the large numbers of people moving through daily.

It's well-known that unwanted intrusion begins earlier than entering a facility, i.e. from the border of the property itself. A passive physical hindering measure, like a fence, can become more effective deterrent in combination with electronic systems, able to transform it into an active line of defense.

### The Sight

In 2018, three of Italy's major Airports, Malpensa, Linate (near Milan) and Fiumicino (near Rome) chose Cias' full IP solution with Sioux Mems 3.0 to provide intrusion protection to their secured perimeters, achieving sound results in terms of detection performance and reliability. Totalling more than 75 kilometers of perimeter coverage on fence, installation of Sioux Mems fence-mounted system proved to be of high quality and cost-effective,

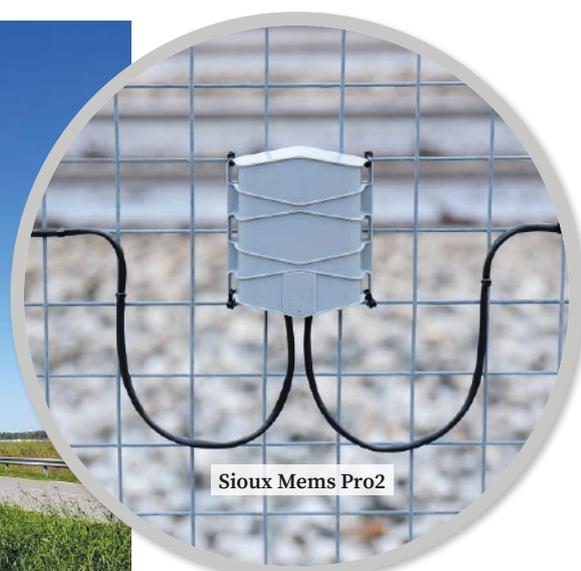
thanks to its unique analysis of the digital signal based on fuzzy logic, coupled with the simplicity of its design for a fast deployment on the fence line.

### The Technology

Cias' Sioux Mems Pro2 is the latest release of the Sioux Mems 3.0 firstly introduced to the market in 2012. The high-performance detection is based on self-addressing electromechanical micro sensors technology. The accelerometric sensors, structured in groups of 7, are distributed along the perimeter to analyze the vibration on the 3 spatial axes, and are connected to their Controller which continuously interpolates these data reporting the electrical noise perceived throughout the fence. The signal is finally analyzed with Fuzzy Logic algorithms, at a level which provides



Detection of any climbing, cutting, lifting the fence or displacing of the sensors



the exact intrusion point with an accuracy of 1 m.

### The Installation

With Mems sensors every 5 meters, deployed with easy plug-and-play RJ-45 connection, the system provides excellent detection of any climbing, cutting, lifting the fence or displacing of the sensors, giving utmost accuracy of alarm pinpoint. It therefore suits any kind of fence, from flexible woven or welded mesh to rigid mesh or palisade type, which can also present contemporarily in large perimeters. Using the patented 'Touch & Zone' sensors' configuration method, alarm zones were simply and quickly defined. The Sioux Controller Unit, being natively IP, was enabled with PoE allowing for optimal cable saving installation. The system at that time could provide up to 700 meters of perimeter coverage and was equipped with up to 20 zone-alarm relay contacts for simple and universal integration – whereas now it can reach up to 1.500 mt per CU and up to 80 alarm zones.

### Alarms

Compliant to – but in fact exceeding – the strictest requirements of the airports' protection bidding, Sioux Mems offers extremely low nuisance alarm and false alarm rates (NAR/FAR), along with the highest probability of detection (PoD) available on the market, over 95 percent. Qualifying alarm events are reported as quickly as 500 ms, well below the typical requirement of 3 seconds not a standard performance!

High-level and accurate IP-based alarm integration was provided by IB-System-IP: communications gateway software. Last, by using the freely available SDK, the simple and open architecture protocol allowed for ready integration to any alarm or video management platforms – already functioning at that time, or to come in the airports' premises. Effectiveness and reliability of the system's IP alarm communications has been thoroughly and successfully tested and proven by the airports' authorities during all those years.

◀ Sioux Mems Pro2 enables the extension up to 1500 m per Control Unit

### Development Highlights

In 2019, Cias released the more powerful version Sioux Mems Pro2 which adds a series of advanced functions to the system, for example the extension up to 1500 m per Control Unit. The number of alarm zones is increased to 80 zones, whether as a logical subdivision via the dedicated Sioux Test Pro sw or as a physical section via relays.

The most evident novelty of this release is the new mechanics. It is completely screwless and suitable for a practical fixing with ties on any type of fence. Depending on the fence being mesh, rigid or high-security, various presets helps the configuration, however freedom of fine calibration is granted. The IP66 increased rating, the inclinometric anti-removal embedded tool and the special bracket accessory complete the sensor innovation.

At the level of analysis, the Enhanced Cut Fuzzy Logic provides even more sophisticated cut detection. It is up to now, the most difficult parameter to obtain in fence detection systems – together with the possibility of managing one cut per branch without loss of functionality of the whole system. A real advantage for high-risk sites is the redundancy function. It enables the system to be short circuit-proof even in the event of cable cutting.



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RADAR

# Equipped for All Applications

## Radar Rises Even to High Demands

Functionality is the be-all and end-all when it comes to security technology. The systems used must work as accurately and reliably as possible in order to avoid missing and false alarms. If the technology reaches its limits, new approaches are called for.

In order to yield progress, security equipment manufacturers are currently pursuing a wide array of approaches. For example, camera systems now increasingly rely on artificial intelligence in order to harness relevant innovations in parallel to their highly sophisticated lenses. While cameras are used for visual representation and identification, radar is responsible for anonymous surveillance. Thus, another industry trend lies in the use of multifunctional radar systems.

### Extensive Measurement Data

Beyond such standards as infrared and cameras, new possibilities for security technology are emerging: the days in which radar was suitable only for perimeter monitoring are long gone. The technology is predestined for use in protecting buildings.

Why? The sensor technology offers extensive measurement data. It is also insensitive to external influences such as weather or lighting conditions.

The technology's potential for the security sector has not nearly been fully exploited. With radar as well, clever algorithms are becoming increasingly

important: with complex signal processing, new features can be implemented which enhance and bolster the functionality of the systems.

### Demands Are On The Rise

The market very much welcomes these developments. Mere motion sensors no longer suffice for users to secure buildings or areas. Increasingly high demands are being placed on the functionality and accuracy of security systems.

But what expectations must a new security system meet? In order to find this out, the radar experts from Innosent conduct regular surveys. The findings are then incorporated into product development.

### Greater Functionality Required

Currently, customers are particularly demanding more individual customisation options. After all, the environment to be secured exhibits a very wide range of customer-specific challenges.

For example, certain areas should be able to be delimited for monitoring. Users also desire sensitivity thresholds. This way, the system reacts more or less sensitively to events in the detection area

depending on the desired application. In addition, detections should be able to be filtered and categorised in order to concentrate on what is essential.

The radar has to detect multiple targets simultaneously and unambiguously.

### State-of-the-art Radar Solutions

Bearing these factors in mind, Innosent got right to work on developing a complete series of products. After all, the technical innovations should not be reserved for one single use case. The aim was to develop a product series with different ranges. The systems serve a different purpose depending on the design of the detection area.

The basic functions should be available to the customer with each variant: object locating, delimited zones, multi-target capability with good object differentiation, individual filter and adaptation options, and optional tracking.

In order to handle these numerous tasks, very complex systems are required. Only advanced radar technology meets the high demands of the market. However, this meant pioneering work on the development side. According to Innosent, such radar solutions had not been

previously available to the security sector. The radar experts specifically used the Mimo method to develop an FMCW radar with three-dimensional resolution.

### Mimo Proves Indispensable

Let's delve a bit into the ins and outs of radar technology. 'Mimo' stands for multiple input – multiple output and refers to the use of several transmitter and receiver antennas. Radar systems emit electromagnetic waves in order to detect objects.

The term 'radar resolution' refers to a radar's capability to precisely differentiate multiple targets from each other. The higher the resolution, the better the system differentiates individual objects. Radar experts also often use the related term 'multi-target capability'. This describes a radar's capability to clearly recognise and differentiate target objects.

Radar resolution can be divided up into measurement dimensions. It is defined via variables of speed, distance, and angle offset and is determined by the selected radar type (CW, FSK, FMCW, Mimo).

Through the arrangement of several antennas, the detection area can be divided up into individual, virtual segments. This results in a field that is broken down according to distance and angle and which invisibly spans the detection area.

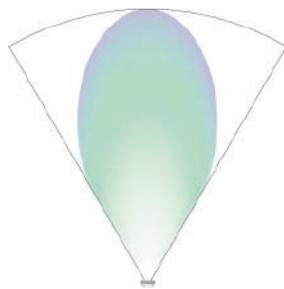
The more antennas, the higher the number of angle elements and the finer the segments. The distance resolution is derived from the bandwidth used. This enables an object to be located more effectively. The more precise, spatial differentiation enables the multi-target capability and has a positive impact on the susceptibility to interference.

An FMCW Mimo radar has a three-dimensional radar resolution: the first dimension differentiates objects based on speed, the second based on distance and the third depending on the classification into the angular segments (Mimo procedure).

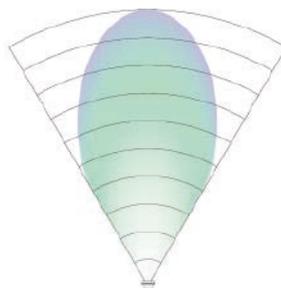
Only with a 3D Mimo radar are such required functions possible as multi-target capability and object location in complex environments. Radar systems with lower resolutions without angular selectivity (CW, FSK, or FMCW without Mimo technology) would not have done the job.

### Algorithms Expand the Functionality

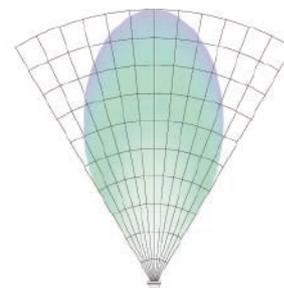
All other requirements are fulfilled by signal processing. Using clever algorithms, Innosent have developed a Smart Tracker feature, which enables objects to be tracked and located over time. They also created different filter functions that



**1D-Radar (CW): Measures only one parameter (velocity) and can therefore not localize objects**



**2D-Radar (FMCW): Measures velocity and range and can therefore localize objects in distance to the sensor**



**3D-RADAR (Mimo): Measures velocity, range and angle and can therefore localize objects in a 2-dimensional environment**

eliminate false detections caused by rain or wind.

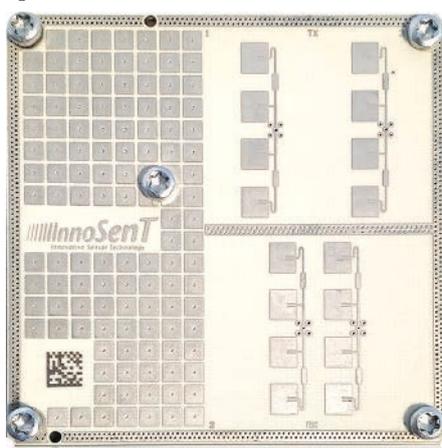
In the software development, Innosent implemented further user-friendly features: customers can define alarm and ignore zones in a GUI in order to focus on or ignore areas during security surveillance. Users can make configurations to optimally adapt the radar performance to their individual situation.

### Variations For All Cases

With the isys-50xx series, Innosent was one of the first companies that managed to offer a cost-effective solution boasting the advanced Mimo radar technology to the security industry. The product variations cover a very broad array of applications in security surveillance – from close-range to large-area surveillance and from movement detectors to perimeter protection.

When the first products, the isys-5010 and -5020 radar systems, were available from series production, they quickly conquered the market. They targeted the dual-technology approach. They left the customer leeway for individual signal

**Isys-5005 is designed for a relatively small range of 15 metres. Its equipment makes it ideal for use as a security system or door opener**



processing and are available without a tracking feature. The successors isys-5011 and -5021 feature the Smart Tracker.

### Rounding Off Series

The latest product in the series is the isys-5005. Compared to the existing systems, it is designed for a relatively small range of 15 metres. Its equipment makes it ideal for use as a security system or door opener.

The near-range sensor is now proving to be tough competition for more conventional technologies. Because the isys-5005 is the first sensor to offer more than just motion detection in the low-cost segment. For the first time, Mimo radar technology is also being used to secure private households, small shops, or companies cost-effectively. The integrated tracking feature enables people's or vehicles' movement behaviour to be monitored anonymously.

The system provides users with wide-ranging information about the events in the detection area (object type, x and y coordinates, speed, direction of movement of detected persons or objects). During development, the focus lay on user-friendliness and easy integration into the final product.

The result is a compact radar system that carries out signal processing directly in the product. Thanks to a quick start guide and the system's compatibility, the isys-5005 can be commissioned and configured in just a few steps. Its wide aperture angle means great freedom in placing the sensor.

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National and international limits have been set for dangerous substances, including radiation exposure, and these limits must be adhered to.

To assess whether these limits are being kept to or not, there is a need for reliable measurement procedures and measuring instruments. GIT SECURITY spoke to Martin Meisenburg, Managing Director at Narda Safety Test Solutions, about the latest developments in this field. Since its establishment in 2000, his company has grown into one of the world's leading suppliers of RF test equipment solutions thanks to their development of reliable, high-quality precision measuring instruments.

#### HAZARDOUS SUBSTANCES

# Safe, or Not?

## How Radiation Exposure Can Be Checked Reliably



Martin Meisenburg, CEO of Narda STS

**GIT SECURITY:** Mr. Meisenburg, you have been Managing Director of Narda STS for one year now. Can you give us a summary of your company's activities that are relevant to safety?

**Martin Meisenburg:** Narda Safety Test Solutions develops, produces and markets measuring devices for various applications. Alongside our RF testing and EMC measurement areas, our Safety area covers electromagnetic field (EMF) test equipment for measuring non-ionizing radiation for environmental and occupational safety. Our product range covers electric, magnetic and electromagnetic fields with frequencies from 0 Hz up to 100 GHz and beyond. Within this sector, we make a distinction between high frequency and low frequency field sources. Some of the common high frequency sources are radar, broadcasting and cellphone transmitters or base sta-

tions, satellite communications, microwaves, and also leaks from electric cables and waveguides, to name a few. Low frequency radiation or magnetic fields can emanate from power supply equipment for instance for railroads or public transport systems, or can be found close to industrial plant used for welding, smelting, and tempering, for example. Narda provides calibrated and accredited calibrated test equipment for environmental and occupational safety for making the necessary safety measurements. These devices deliver reliable, proven evidence of whether or not the national or international health and safety limit values are being adhered to.

#### What are your particular tasks?

**Martin Meisenburg:** I've been responsible for the technology company as its managing director for about a year now. My

main task in this capacity is to progress the profitable growth of the company. The main thrust of this is to anticipate the challenges in the EMF sector and be on top of the technology through the development of innovative products. That will make sure that we can continue to support our customers in the best possible way with attractive, future-proof products and services.

#### What new developments from Narda are there in the areas mentioned so far?

**Martin Meisenburg:** In the Safety sector, we recently introduced the new generation of our personal safety monitors with the RadMan 2. This device follows on from the original, first generation RadMan, which for over 20 years as the market leader provided operatives all over the world in the RF sector with reliable warning of danger due to impermissi-

bly high exposure levels. As well as this, we have begun further development work on our SRM-3006 frequency selective EMF meter to meet the upcoming requirements of the next mobile communications standard 5G with our usual reliability.

#### Where are these personal safety monitors used?

**Martin Meisenburg:** The new RadMan 2 is a personal safety monitor that is worn on the person. This personal monitor, as part of the personal protective equipment (PPE), monitors electromagnetic fields and reliably warns operatives when the field strength is impermissibly high. Such fields can be expected when working in the vicinity of industrial plant, broadcasting or mobile telecoms stations, radar equipment, or any source of electromagnetic radiation. As well as the standard RadMan 2LT version, which covers up to 8 GHz, there is an extended version, the RadMan 2XT, which reliably warns technicians at frequencies up to 60 GHz. This device can therefore be used when working on tasks that involve the new 5G mobile telecommunications standard. Both versions of the personal monitor give audible, visible and even haptic warnings: unmistakably loud, very bright 270° wide angle beacon, and an additional vibrating alarm.

#### Which instrument would you recommend for monitoring radiation exposure in the context of the new 5G mobile communications standard?

**Martin Meisenburg:** Concerning the new 5G mobile telecoms standard, for one thing our frequency selective meter the SRM-3006 will be extended with the addition of a new antenna to cover the upcoming cellphone frequencies in the millimeter wave range. This will also allow measurements to be made at these high frequencies that are going to be used in future industrial processes as part of Industry 4.0. As well as this, the SRM-3006 will be expanded by adding the so-called code based measurement, or extrapolation. The difficulty with measurements on systems, now including 5G, that involve beamforming and massive MIMO (Multiple Input Multiple Output) is that the results are highly dependent on the location and time of the measurement. The code base measurement provides advantages here.

#### EMF measurements are a sensitive issue right now. Can you give us an idea of what should be done while there are still no definitive regulations?

**Martin Meisenburg:** We already have test equipment for checking that limit values are not exceeded in the form of personal protection equipment, and broadband and selective measuring devices. The only thing that still has to be standardized and ratified by various national and international bodies is the technique for extrapolation from the received mobile signal. This extrapolation means being able to calculate the system maximum output from the cellular signal received at a particular moment. This involves automatically extrapolating to the maximum possible radiation level from the signaling – information that is continuously transmitted alongside the traffic as a permanent part of the signal. This is completely independent of the current traffic volume of a base station at the time. The test technician does not have to wait until the system is actually operating at maximum load to make the measurements. This type of extrapolation is already used for the older mobile communications standards such as LTE (FDD, TDD), and is employed throughout the world as a way to reliably determine the worst case scenario, that is, the maximum possible radiation from a mobile communications transmitter at any time.

#### Your practical handbook gives assistance for fast, reliable safety assessment in high frequency electromagnetic fields. Who is this guidebook aimed at?

**Martin Meisenburg:** Our practical handbook on field strength measurement is primarily directed at all current and future users of our SRM-3006 frequency selective meter. The guide essentially provides a broad range of users with the exclusive content of our special training courses and seminars on how to use the SRM-3006. The information it contains is drawn from scores of practical situations, users' actual measurement tasks, and the innumerable courses that Narda has run for our customers. These customers are mainly regulatory and frequency monitoring authorities, but they also include mobile telecoms providers, broadcasters, and RF security network providers as well as environmental authorities. The SRM-3006 has for many years now established itself as the standard instrument

for rapid and reliable safety assessments in high frequency electromagnetic fields.

#### Everybody is talking about 5G. Sceptics warn of the dangers of blanket 5G coverage. How do you view the technology, and what can be done to bring the discussion back down to the factual level?

**Martin Meisenburg:** As a manufacturer of test equipment, we do not wish to be involved in discussions about how dangerous or how safe the new mobile communications standard may be as regards the health of the general public or of workers. What concerns us is the ability to dependably verify the applicable limit values. The various national and international limit values set by ICNIRP, IEEE, or Safety Code 6 were determined by qualified experts, including medical professionals. Our measurement solutions provide support for these limit values. It is only on this basis that an electromagnetic field can be assessed to determine if it is dangerous or harmful to health.

It is our observation that public concern about possible health risks is always greatest when a new mobile communications standard is introduced, like with GSM back in the nineties, UMTS in around 2000, and LTE in 2010, and of course now with the introduction of the new 5G standard. But, such fears usually subside in the course of time.

We can, however, contribute to safety by providing facts and figures by means of reproducible measurement results, as we make the trustworthy measuring equipment available to monitor these limit values. It is because of our many years of experience in the extremely complicated, not to say complex field of EMF safety that we are always able to combat uncertainties regarding electromagnetic fields with reliable measured values. If there is a need to bring the sometimes quite emotional discussions back down to a factual level, unlike practically any other company Narda can check compliance with internationally applicable limit values in the field by means of actual, dependable measurements.

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FIRE ALARM SYSTEM

# Burning for Profession

Blaha Office Furniture: Fire Detection System by Labor Strauss Protects Multimillion-Euro Property

Fire detection systems are not only used to protect people, but also for the safety of machines and plants. The destruction of production equipment can lead to breakdowns and months of downtime in the production itself. To counter this risk, the Austrian family business Blaha commissioned the company Labor Strauss to design and install a tailor-made fire alarm solution.

For more than half a century, the Austrian family business Blaha Office Furniture has stood for individual furniture of the highest quality. At the company headquarters in Korneuburg/Lower Austria, innovative designer pieces from chairs to tables and storage space systems to accessories are created in only nine working days in the company's own wood and metal processing plant. Blaha has a share of approximately eight percent of the Austrian furniture market and made some €18 million in sales in 2019.

In Korneuburg, where the company has already been based since 1962, offices, production and sales are accommodated in ten buildings on a single site with an area of 20,000 m<sup>2</sup>. Here, 125 employees work on the highest level on the fulfilment of the customer's wishes, according to the motto „Different as a matter of principle“. Since 2019 the Labor

Strauss Group (LST) makes sure that the entire staff as well as machines and materials are protected against fire.

## Top Quality

The project of implementing the fire detection system was started in May 2019, since November 2019 the system has been in full operation. „LST has already impressed us in the offer phase, above all, with two points: Firstly, LST was the only bidder that already included precise implementation plans in the offer which exactly showed what should be implemented at which position within the building. Secondly, absolute dependability was important for us – with LST, which like Blaha is an Austrian family business, this was one hundred percent the case. The interpersonal chemistry simply was right“, says Ing. Walter Pajpach, Blaha's factory manager.

## Extensive Protection

„The choice of the right fire detection system plays a vital role in the early detection of a fire“, stresses Ing. Martin Fischer, LST's sales representative. Blaha's system includes the fire detection control panel itself, which consists of three networked sectional control panels, the fire detectors, as well as the fire brigade devices such as the key safe and the fire brigade control unit. In addition, with the remote access App React, the fire detection system can be operated via a smartphone which can also show the condition of the fire detection system.

## Installation

„Since we had to install the system in an existing object during normal operation, this was of course more difficult than in a new building“, explains Andreas Stöcklhuber, LST's project leader. But

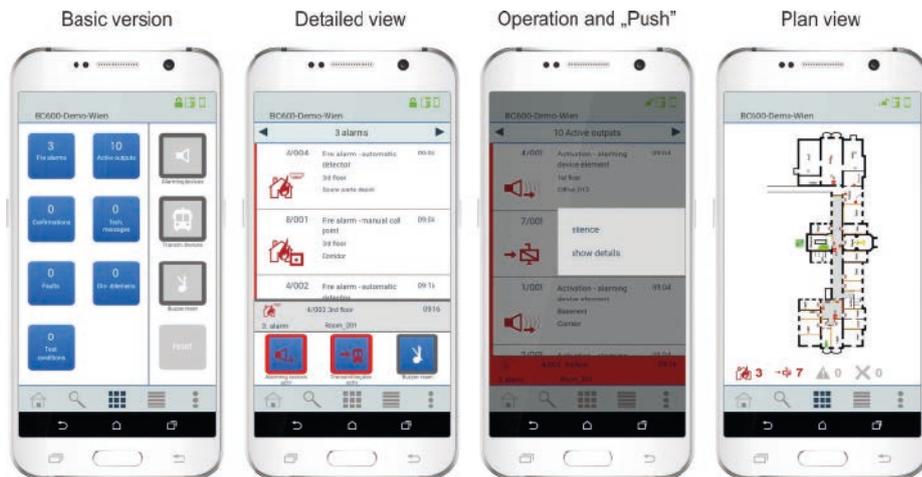
thanks to the good communication between a steady team of three electricians on site and the staff of Blaha, this challenge has also been met optimally.

**Detectors and Cables**

In all, 465 fire detectors, 40 manual call points and 104 sounders were installed in the eight production and dispatch halls, the office building as well as the three-storey showroom building. 9,000 metres of fire detection cable have been laid. „In the showroom areas, we had to adhere to high visual standards, cables should not be visible – here we could use 22 wireless fire detectors. In this way, expensive construction work such as opening the ceiling, painting, work with gypsum wallboard and through holes and the like could be avoided“, said Stöckhuber. In the attic area, a beam detector was used for monitoring the free space in order to save installation costs.

**Fire Detection Control Panel**

„The fire detection control panel has the main task: to process the data of the connected fire detectors and to react to dangerous events“, explains Fischer. What distinguishes the BC600 are a clear display, the user guidance which is self-explanatory, and the high ease of use, which reduces the training costs. The redundant construction ensures a high degree of failure safety. Further advantages of the BC600 are its modular design and that it can be networked. The showroom area and the production area were each



Some snapshots from the remote access tool React

provided with a sectional control panel, whose display shows an alarm, faults or disablements of individual areas at a glance.

**React App**

„In addition, we have chosen the React App so that we are always informed about a fault or fire and can react immediately – no matter whether we are on site or not“, says Pajpach. With the „Remote Access Tool“ React, you do not have to walk or drive to the fire detection control panel. Instead, the APP shows all important information, for example which fire detector has been activated in which hall, in a compact way, directly on the smartphone. If there really is a fire, React allows you to save valuable minutes, because relevant information – for example about local conditions, entrances or explosion hazards – can be exchanged in real time, which helps the fire brigade, to get prepared for the operation as quickly as possible.

**Other Systems**

Pajpach also mentions an important additional advantage of the fire detection control panel: „I am absolutely enthusiastic about all the things that can be connected to the fire detection control panel.“ For example, in addition to the information about the fire detection system, the control panel also shows information about the spark extinguishing system which is needed for extracting dust from the machines, as well as about the boiler. The connection of further systems, for example the air conditioning system, is also planned.

**Installation, Service and Maintenance**

The maintenance of the system, which is required once a year, will also be carried out by LST. „The people who install a system should also maintain it – they simply are the people who know most about it. When the spark extinguishing system was connected, I already saw that if there are questions, LST always comes the next day – the LST staff is really excellent“, says Pajpach. „A fire is the worst thing that can happen to you. If machines in a production hall are destroyed by fire, this can result in a breakdown lasting for months until new machines become available in Europe. But thanks to the fire protection by LST, we all can sleep in peace“, concludes the factory manager.



The Fire Detection Control Panel BC600

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**Company Index**

ABB Stotz-Kontakt ..... 14	Denios ..... 17	Intrakey ..... 25	Panasonic ..... 23
Abus ..... 20, 24, 28, 52	Dormakaba ..... 11, 24	KEB Automation ..... 15	Paxton ..... 39
AIT Solutions ..... 14	Düperthal ..... 17	Kentec ..... 39	PCS Systemtechnik ..... 26
Altronix ..... 49	Eizo ..... 21	Kentix ..... 18	Pilz ..... 16
Ansell ..... 7, 13, 17	Ejendals ..... 18	Ksenia ..... 39	ProViAlarm ..... 26
Arcules ..... 20	Eks Engel ..... 22	Labor Strauss ..... 62	Salto ..... 9, 26, 27, 44
Arecont ..... 11	Euchner ..... 15	Ledlenser ..... 19	Schneider Electric ..... 16
Asecos ..... 17	Euralarm ..... 8	Lupus-Electronics ..... 19	Securiton ..... 19, 37
Assa Abloy ..... Cover, 7, 23, 44, 46	Evva ..... 25	Mack Brooks ..... 8	Securiton IPS ..... 23
Axis ..... 28, 35	Fujifilm ..... 22	MB Connect Line ..... 15, 29	SIA ..... 7
Bihl & Wiedemann ..... 14	Genetec ..... Inside Front Cover, 25, 34	Milestone ..... 6, 31, 32	SICK ..... 16
Bosch Building Technologies ..... 7, 45	Georg Schlegel ..... 15	Mobotix ..... 11, 22	SimonsVoss ..... 27, 30
Briefcam ..... 20	Global Fire Equipment ..... 6	Morphean ..... 23	Soloprotect ..... 19, 51
BSIA ..... 7	Hailo ..... 28	Morse Watchmans ..... 26, 50	Stid ..... 27, 41, 44
Cias ..... 24, 29, 56	Hanwha Techwin ..... 22, 28, 35, 36	Moxa ..... 15	Telenot ..... 30
Claroty ..... 14	HID Global ..... 25	Narda ..... 19, 21, 60	Transgate ..... 30
Comelit ..... 45	Hikvision ..... 6, 18, 25, 38, Outside Back Cover	Netskope ..... 16	Verint ..... 30
Dahua ..... 8, 20	Hoffmann ..... 18	Novar (Honeywell) ..... 29	vi2vi ..... 30
Dallmeier ..... 21	Idis ..... 22, 39	Omron ..... 16	
Deister ..... 24	IEP ..... 18	Onvif ..... 10	
Dekom ..... 21	Innosent ..... 58	Optex ..... 6, 9	

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## Hikvision Launches LED Display Product Line

Hikvision has launched a full range of LED displays, providing seamless, high-definition and colorful imaging. The displays come with indoor fine pitch LED, indoor fixed LED, outdoor LED, and transparent LED technologies to cover a wide range of customization needs. The company has years of experience in providing monitoring screen displays for surveillance centers, and launching the new LED display product line also marks its entry into the global, commercial digital signage market. The displays are designed specifically to meet the growing market demand from enterprise and public safety organizations, advertising companies, and the entertainment industry. They were engineered to become the ideal option for monitoring centers, meeting rooms, indoor and outdoor advertising screens, live spectator events, and a host of other scenarios.



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

## Paxton Flex to Support Staff and Installers Amid Coronavirus

Paxton has put together an action plan to promote good health and wellbeing for their employees and customers during the Coronavirus pandemic. Paxton are open for business and can confirm that they will remain fully functional to support installers to help their businesses continue prospering. Sales and Technical Support are still available with no disruption to normal service. All face-to-face training has been postponed until the end of April and switched out for online training sessions instead. Paxton have even made their online training modules completely free for a month to make it easy for installers to get started.

[www.paxton-access.com](http://www.paxton-access.com)

## Kentec's Taktis Fire Panel Receives Certification from VdS

Kentec Electronics has achieved EN 54-2 and 4 VdS approval for Taktis, its analog addressable fire panel. The approval will enable the business to expand its operations into central Europe. VdS certification is required for manufacturers to sell and install fire safety systems in Germany and other central European markets such as the Netherlands, Switzerland, Austria, Czech Republic and Poland, where the UK's LCPB (Loss Prevention Certification Board) certification is not recognized.

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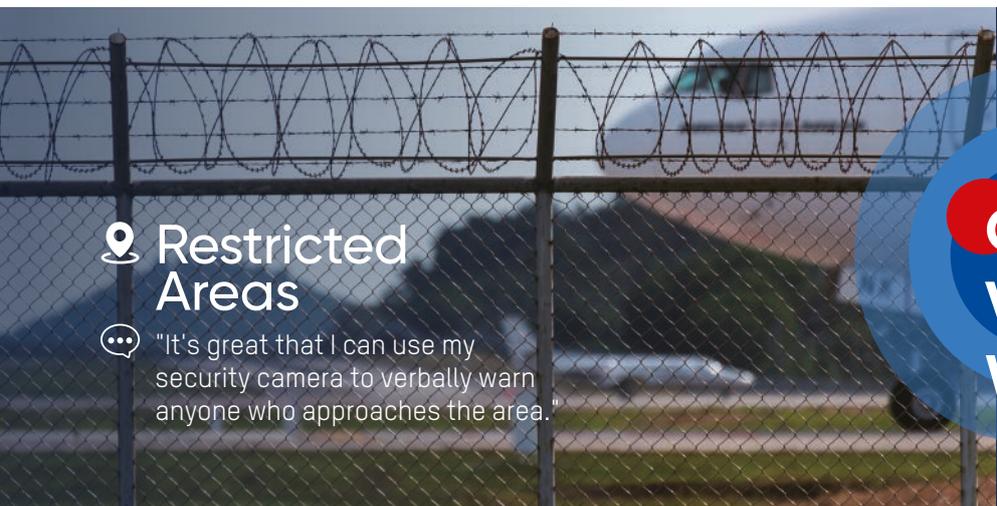
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