

DETEKTOR



International

Publisher's comment

**The Pandemic's effects
on the security industry**

Security technology market

**Covid-19 precipitates new focus
for physical security market**

Business news

**Genetec recognised as World's
fastest growing access control company**

Product news

**Innovative Vourity cloud access
creates new revenue streams**

The voice of the security technology market

**Open access control systems
– a necessity for secured protection**

Anniversary

AR Media now 30 years!

The interview

Pierre Racz, CEO, Genetec

SPECIAL EDITORIAL FEATURE 1:

INTELLIGENT SECURITY SYSTEMS
Pandemic impact on the role of intelligent solutions

SPECIAL EDITORIAL FEATURE 2:

IOT & SMART BUILDINGS
The role of security technology in smart buildings



No party – but thank you very much!

We want to thank everyone who through their commitment to our media and events has contributed to the successes and the fun we have had over 30 years in the security trade publication business.

Readers of our printed media, users of our digital publications and visitors to our events – we look forward to continuing to serve you. You are our inspiration.

Advertisers, exhibitors and sponsors. A great thanks for enabling us to serve the security market 24/7 with interesting information via our publications and for helping us to arrange interesting events which in turn can generate business for the security market at all supplier levels.

Unfortunately, 2020 is not the right time for a celebration party, but for gratitude from our side to all of you. Let's have a party 2030 instead!



ISSN-1651-3800 published by **armedia**

Head office:

AR Media International AB
Västberga Allé 32 • S-126 30 Hågersten
SWEDEN
Tel: +46 8 556 306 80
E-mail: info@armedia.se
www.detektor.com
www.armedia.se

Asia Office

Asha Chang
AR Media Marketing Corporation
Address: 15F, No. 55, Bin-hai Road Sec. 1,
Tamsui District, New Taipei (251), Taiwan
Office phone: +(886-2) 2622 1365,
+(886-2) 2622 1385
Mobile: +(886) 922 116272 ,
Email: asha@armediaint.com

General Information

- Detektor International is published twice a year.
- No part of this magazine may be reproduced without prior permission from the publisher.
- Detektor International welcomes manuscripts, news, releases and photographs, but cannot be held responsible for loss or damage incurred in transit or in possession.
- News releases can be sent to intnews@securityworldmarket.com

Subscriptions

Anette Friberg
Rate for two issues is Euro 51
+46 8 556 306 80

Publisher

Lennart Alexandrie
lennart.alexandrie@armediaint.com

Editorial Team

Rachel Ward Owens, Henrik Söderlund,
Jonny Sjöberg, Lennart Alexandrie
info@armedia.se

Art Director

Linn A. Maddern
linn.maddern@armedia.se

Advertisements

Deniz Baykal
deniz.baykal@armedia.se

Printing

Stibo Complete, 2020



Lennart Alexandrie, Publisher

The Pandemic's effects on the security industry

During the pandemic, one strong trend has overshadowed all others. Fewer physical meetings and more digital meetings. It is a tendency that will last, albeit more evenly, once the pandemic has subsided. Then the fear of infection will not be the driving force for a proportionally increased share of digital meetings, but the ambition within companies and organisations for increased efficiency and sustainability.

Physical meetings can mean large or small events, but also individual meetings between customers and suppliers. Digital technology enables them all. Furthermore, opportunities to offer technical service and actions at a distance is another advantage.

The pandemic has made an increasing number of people and companies realise what can actually be achieved more efficiently via digital solutions. Now companies have increased their use of digital tools and become comfortable with them. Not least when it comes to internal meetings and pure customer meetings. Many have also realised that they have waited too long to take advantage of the digital opportunities in terms of technical service and customer support. A low degree of digitisation means a continued strong need for manned service visits. During the peak of the pandemic in the spring, this particular shortcoming in a security company's offering was brought to the fore, as companies and other businesses were not so inclined to accept service technicians due to the risk of infection.

Remote service and support should thus be a matter of course, but first it is essential to update the delivered and existing technology that the customer already has. This is a development for which the security industry must take responsibility. The shift in technology from analogue to digital means great opportunities for increased revenue for suppliers. For customers, increased digitalisation means opportunities for better service and that more precise needs can be met, for example via suppliers offering cloud-based Security as a Service where customers are enabled to just pay for the services they want to use.

Remote services also means a contribution to increased sustainability, as vehicles are no longer needed to serve customers.

Another accelerating effect of the pandemic is that people will work to a greater extent from home. As companies have created better routines

for following up work from home, an employee's place of residence will have less geographical significance when recruiting, which means a positive economic equalisation between people living in the cities and the countryside.

Of course, the pandemic has affected the security industry in many ways. Above all, it has accelerated digitalisation and revealed its many possibilities. But it also highlights some of its limitations. Replacing a physical conference or security fair with a webinar or a major digital event cannot be done so easily.

For my own part the impact of both the lack of arranging and attending physical events has been great. As an organiser, we have sadly had to postpone both the conference # Trygghetnu and the security fair Sectech Denmark a few times.

I would also have liked to visit ISC West in Las Vegas as well as Ifsec in London and Security in Essen this year to get a global perspective on how the industry is doing, what new products have been introduced, what is the latest industry gossip and so on. But all three of these big events are cancelled this year, together with all other events.

Physical security events usually provide opportunities to get closer to the players in the security market - companies, individuals and technology. Planned meetings are mixed with chance encounters with acquaintances and spontaneous events that can sometimes test the senses.

Meeting new interesting contacts that can generate business or inspire new ideas and solutions is what happens at physical events. Feel free to call it necessary, at least for companies that want to be constantly changing with the times or keeping that one step ahead.

The dynamics that physical events offer are still far superior compared with those offered by webinars or other digital events today. Neither participants nor sponsors at digital events are exposed to coincidence in the same way as they would be at physical events, where the unplanned and unpredicted meetings are often the greatest treasure of the event.

We, therefore, continue to need good physical events, which are additionally complemented by interesting digital events. Hopefully we will get there in 2021.



- 3 **Publisher's Comment.** The Pandemic's effects on the security industry.
- 8 **Security Technology Market.** COVID-19 precipitates new focus for physical security market.
- 10 **The voice of the security industry.** Open access control systems.
- 12 **Anniversary.** AR Media now 30 years!
- 14 **Tema: intelligent security systems.** Pandemic impact on the evolving role of intelligent security.
- 22 **Business news.** Genetec recognised as World's fastest growing access control company.
- 27 **The interview.** Pierre Racz, CEO, Genetec.
- 36 **Product News.** Innovative Vourity cloud access creates new revenue streams.
- 34 **Tema: IoT & smart buildings.** The role of security products in the IoT society.
- 42 **Security events.** 2020 – a disastrous year for security events.



The role of security products in the IoT society

Today, people expect connectivity and convenience everywhere – and with IoT it can be realised. But what role do security products play in the fast-growing IoT society? *Page 34*



The voice of the security industry

Open access control systems – a necessity for secured protection.

Page 10



AR Media 30 years!

In 1990 AR Media International was founded with one start up-product in the portfolio – the security trade magazine Detektor.

Page 12



Tema: intelligent security systems

Pandemic impact on the evolving role of intelligent security.

Page 14



The interview

Pierre Racz, CEO; Genetec: Face recognition works best when you need it the least.

Page 27

Stop unwanted activity in its tracks.



Audio for security

By adding audio to your surveillance system, you can either trigger a prerecorded message with analytics in the camera or speak live to the scene. Adding spoken response takes you from passive surveillance to active deterrence.

Axis offers complete, high-quality network audio systems that are not only perfect for security purposes but also for public address and background music in schools, stores and other settings. In our portfolio you find speakers, microphones, amplifier, audio bridge and audio management software. They all let you enjoy the many benefits of network audio.

Learn more about our network audio systems at www.axis.com/products/audio



AXIS[®]
COMMUNICATIONS

Dahua Technology to Launch Three-in-One Camera Solution (TiOC)



As the application scenarios are becoming more and more demanding, traditional security systems are having problems catching up and often face issues such as: too many false alarms triggered by pets, insects, leaves and other non-target objects; can only rely on video playback for confirmation after an event; and difficult evidence retrieval due to uncoloured images at night with black and white monitoring.

What's worse, for a relatively comprehensive system, you will need to spend more money on additional accessories like external mic, speaker, detector, and alarm light, not to mention the extra time and costs on installation.

To address the above mentioned issues once and for all, Dahua Technology launches its innovative and powerful Three-in-One Camera solution, also known as the TiOC. This automated and comprehensive security solution effectively solves the aforementioned problems with the following key features.

Accurate Alarm

False alarms are always considered a headache for users. With AI-powered perimeter protection and SMD Plus, the Dahua TiOC offers accurate alarm function by precisely targeting people and vehicles, while filtering out non-target objects such as animals, leaves and car headlights. While keeping the false alarm rate under 2%, its powerful AI algorithms also deliver a quicker, more accurate and longer range motion detection (detection distance is increased by more than 185%), considerably improving the efficiency of the whole TiOC solution.

Active Deterrence & Real-time Alarm

Instead of only relying on the recorded videos as evidence after an event, the TiOC makes it possible to respond during the event with its Active Deterrence and Real-time Alarm functions that can significantly prevent such events from happening. Active deterrence is more effective with red and blue light, which is more eye-catching than white light, and is also visible even in dense fog and heavy rain. An enhanced speaker delivers up to 110 dB, featuring a wailing siren or a recorded voice.

APP Alarm Push provides alarm notifications in real-time, allowing users to respond in time such as sending a voice alarm using the two-way talk function. In addition, the system also allows pre-recorded announcements or customised recordings, which enables users to realise content customisation and language localisation. The mobile APP also supports one-tap arming/disarming function that brings great convenience to users.

Full-colour

Sufficient reliable information is key during evidence retrieval. With industry-leading Full-colour technology, the Dahua TiOC delivers colour images day and night,

considerably enhancing the ability to identify suspects, while increasing the quality of video evidence.

Three-in-One

TiOC integrates 24/7 full-colour monitoring, active deterrence and AI into one smart, innovative solution, greatly saving time and financial costs for distributors and installers.

Application Scenarios

TiOC is suitable for private properties that need to maintain order and warn off intruders, such as villas, shops, warehouses, etc. TiOC can accurately identify real targets with real-time, accurate alarm signalling, effectively deterring and warning them off, and simultaneously notifying the user. The full-colour image that the camera records provides more useful human/vehicle evidence for future checking and analysis, offering an enhanced protection to residents, shop owners and warehouse managers.

TiOC is also ideal for outdoor scenarios such as fire lanes, which need to be always free of obstructions, in most cases vehicles. Give it a try, and you keep emergency lanes clear, working like a responsible guardian that fulfills its duty to enhance public security.

The powerful Dahua TiOC Solution offers 24/7 full-colour monitoring, active deterrence and AI with WizSense IP cameras,

HDCVI 6.0 cameras & XVRs, and upcoming PTZ cameras, making it ideally applicable to villas, shops, warehouses, fire lanes, and places the likes. With its mission of "Enabling a safer society and smarter living", Dahua Technology will continue to focus on "Innovation, Quality and Service" to serve its partners and customers around the world.

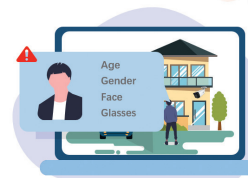
**Product launch date may vary from country to country.*



Accurate Alarm



Timely Alert



Visual Verification

About Dahua Technology

Zhejiang Dahua Technology Co., Ltd. is a leading solution provider in the global video surveillance industry. In 2019, Dahua Technology was ranked 2nd in "Security 50" by a&s international. Dahua Technology is committed to providing the highest quality solutions and products with the latest technologies to enable our end users to perform their business successfully. The company has a high-level group of R&D engineers and technical staff working on cutting-edge technologies in camera lens, image sensor, video encoding & transmission, embedded processor, graphic processing, video analytics, software reliability, network security and other technologies.

Facebook: Dahua Technology • **Twitter:** Dahua Technology

YouTube: Dahua Technology Channel • **LinkedIn:** Dahua Technology Co. LTD



Your Effective Deterrent Against Intruders

Three-in-One Camera (TiOC)



- Full-color, Active Deterrence and AI integrated into ONE solution delivers reduced system deployment costs.
- Over 98% High Alarm Accuracy for human/vehicle guaranteed by Perimeter Protection or SMD Plus.
- Actively warns off intruders with red & blue flashing light and speaker even before users are aware of the incident.
- Timely voice warning to intruders for enhanced property protection through two-way talk (IPC Models).
- More vivid evidence to accurately identify suspects provided by 24/7 colorful monitoring.

Recommended Models



IPC-HDW3549T1-AS-PV



IPC-HFW3549H-AS-PV



HAC-ME1509TH-PV



HAC-ME1509TQ-PV



XVR5000-4KL-I2

CE FC CCC UL RoHS ISO 9001:2000

DAHUA TECHNOLOGY

No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053

Tel: +86-571-87688883 Fax: +86-571-87688815

Email: overseas@dahuatech.com

www.dahuasecurity.com



Covid-19 precipitates new focus for physical security market

Stockholm, Sweden

Many businesses have shifted fast through the Covid-19 pandemic pushed by changes in people behaviour. The world has entered into uncharted waters and a deep recession. However, according to researcher James McHale at Memoori, the good news is that these changes have given the Physical Security business some new growth opportunities

The Physical Security business has not suffered as severely as many others, partly because its products and services have been able to contribute to controlling the pandemic in buildings and the growing demand for delivering VSaaS and ACaaS. Customers, now with limited financial resources, are less likely to invest upfront in a "grudge purchase".

Growth in "Building Wellness" systems

Memoori analysts suggest that Covid-19 has driven growth in "Building Wellness" systems as building operators are now in the process of installing a variety of products in preparation to meet

the new standards for opening up their buildings. Demand for thermal cameras to detect the temperature of staff and visitors to their buildings has grown fast and is now a multi million dollar business.

Damaged market by false marketing

As part of a wider tracking and testing system they can provide employees and clients with a safer environment to work in. Covid-19 has therefore directly delivered the physical security business a significant new growth opportunity. However demand has recently fallen off as some suppliers have offered their systems as "fever cam-

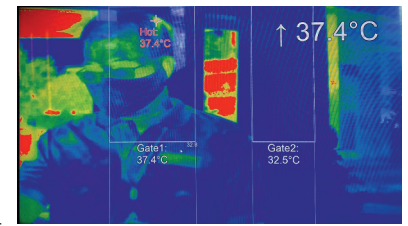
eras" when in fact thermal cameras can only detect body temperature.

The drive to improve the performance of Physical Security products will not be stunted by Covid-19 in particular video analytics software developments have now proven that they can deliver such benefits to users and that they will get a return on their investment.

Boost the market for SaaS

In this challenging economy, customers will be demanding more value from their investments and will be less willing to commit to upfront capital expenditure. This is making concepts based on ACaaS (Access Control as a Service) and VSaaS (Video Surveillance as a Service) even more attractive.

This shifts the investment off the building's balance sheet, as the total service eliminates upfront capital expenditure. Memoori also expects alliances and acquisitions



Memoori expects alliances and acquisitions will become more important in strategic matters as opportunities open up during the next 24 months.

will become more important in strategic matters as opportunities open up during the next 24 months.

The most optimistic scenario

The Physical Security industry now waits for Q3 financial results to find out how fast the industry will bounce back. At this time, the most optimistic scenario would be a return to pre-Covid business trading in Q2 2021 provided that the virus is contained by the end of 2020; and a proven vaccine is made available to the world by mid 2021.

Impressive growth predicted for anti-drone market

Nothbrook, IL (USA)

In their latest research, the anti-drone market was valued by Market-sandmarkets at USD 0.6 billion in 2020 and is projected to reach USD 2.4 billion by 2025; it is expected to grow at a CAGR of 32.2% from 2020 to 2025.

Major factors cited by the analysts as driving the growth of this market are, increasing use of drones, terrorism and illicit activities worldwide and rising incidences of security breaches by unidentified drones.

The new report on the Anti-Drone Market with Covid-19 Impact to 2025, suggests that the detection and disruption application holds the larger share of the

anti-drone market and that it is likely to continue to do so during the forecast period. The growth is attributed to increased number of terrorist groups, which are demonstrating the ability to operate a wide range of drones, including armed systems. Furthermore, detection and disruption systems have major applications in the military & defence and homeland security verticals wherein the entry of any unauthorised drone in the prohibited area of a country is detected, and then, the drone is disrupted on the spot.

Peaking during the period

The anti-drone market for the commercial vertical is expected to grow at the highest CAGR during the forecast period. Key factors responsible for this growth include increased awareness and rapid development of inexpensive

drones in the market. Drones are evolving beyond their military origin to become powerful business tools. They have already made the leap to the consumer market, and now they are being put to work in commercial applications such as firefighting, mining, surveying, and farming, among others.

Drone accidents drive growth

In terms of geography, it is the Americas that the researchers believe is likely to account for a major share of the global anti-drone market during the forecast period. Factors contributing to the growth of this market include increasing incidences of security breaches by unidentified drones and rising number of terrorist attacks in American countries, especially in the US. The dramatic growth in drone accidents and incidences has

raised fundamental questions about national security, public safety, and privacy regulations. This compelled the government to deploy anti-drone systems to ensure safety and security from illicit drones.

The growth can also be attributed to the presence of several key players in this region, such as SRC, Inc, Raytheon Technologies Corp, Lockheed Martin Corp, The Boeing Co, and Detect, Inc.

In addition to these firms, other players noted by the analysts as being prominent in the international anti-drone market include Thales, Blighter Surveillance Systems Ltd, Israel Aerospace Industries Ltd, Leonardo S.p.A, Rafael Advanced Defense Systems Ltd, Droneshield Ltd, Liteye Systems, Inc, Dedrone, Northrop Grumman Corp, MBDA, Battelle Memorial Institute, Saab AB, and CACI International.

Fire protection systems market set to reach \$155 billion

San Francisco, Ca (USA)

The global fire protection systems market size is expected to reach USD 155.03 billion by 2027, expanding at a CAGR of 7.5% over the forecast period, according to a study conducted by Grand View Research, Inc.

Increasing adoption of wireless technology, growing human and property loss owing to fire breakouts, and stringent fire safety regulations are projected to fuel the market growth.

Increasing implementation of building safety codes and renovation projects is also anticipated to be a major factor positively influencing the market growth. The application and usage of the fire protection systems are anticipated to increase continuously with the developments of commercial entities and corporations. Furthermore, technology enhancements such as extinguishing technology based on mist and products such as laser optical/infrared smoke detectors, alarms with embedded voice evacuation announcements, hypoxic air fire suppression systems, and wireless fire alarm systems are expected to gain traction in the market globally. Moreover, in 2020, the market will be hampered due to

the Covid-19 outbreak, which has interrupted production, impacted demand, and caused supply chain disruption.

The growing trend of integrating fire alarm and detection systems with building automation systems offers vast growth opportunities to market growth. Connectivity with building automation systems is increasingly becoming a major feature of fire protection systems in commercial, industrial, and residential applications. The researchers believe that this can be attributed to the fact that such integration allows for the development of systems that are capable of sharing and gathering data, which can help in alerting individuals about fire safety issues in the premises. A notable rise in investments in smart building automation technologies across several regions is expected to lead to new opportunities for building automation systems in the industrial and commercial sectors.



The growing trend of integrating fire alarm and detection systems with building automation systems offers vast growth opportunities.

Consumers in developed regions such as Europe and North America have seen a steady rise in demand over the past few years, and the growth trend is also projected to continue over the next few years. However, a lack of stringent regulations and high cost of advanced fire protection systems has kept the markets in emerging countries largely untapped. Nevertheless, improving economic conditions in countries, including Brazil, and India, are anticipated to boost the demand.

Infrastructural development activities across the Asia Pacific

region owing to the rising demand for new transport and utility infrastructure will drive demand. The high rate of urbanisation is placing increased pressure on under-invested, weak city infrastructure. The consecutive rise in focus on new residential and infrastructural development projects is expected to propel the demand across this region; thus, such factors fuelling market growth.

Major players named by the researchers as being active in the fire protection system market include; Gentex, Siemens, Bosch, Halma and Eaton.

Capital investment drives the IAM markets

Northbrook, IL (USA)

The identity and access management market is projected to grow from USD 12.3 billion in 2020 to USD 24.1 billion by 2025, at a Compound Annual Growth Rate (CAGR) of 14.5% during the forecast period, according to the latest research coming from Marketsandmarkets. Increased venture capital funding and growing investments in IAM technology is said to be driving the market growth.

The analysts predict that by service, the support and maintenance service segment will register the highest growth rate during the forecast period. Support and maintenance services include support related to IAM products. IAM vendors provide technical support during the implementation and use of IAM solutions. Maintenance services include providing enhancements to solutions

and assisting in resolving issues in deployed solutions. The demand for support and maintenance services is expected to increase with the deployment of IAM solutions.

Strong growth in the healthcare sector

It is estimated that the healthcare sector will register the highest growth in vertical markets, as this area is rapidly deploying

cutting-edge technologies to offer patients improved, intuitive, and personalised care and experience. IAM solutions help healthcare organisations address the security issues related to users' credentials and help them deliver an enriched experience to their patients.

North America dominates

As might be expected, North America has the presence of several prominent market players delivering IAM solutions to all end-users in the region. The US and Canada are expected to be major contributors to the growth of the IAM market. The geographical presence, significant Research and Development (R&D) activities, partnerships, and acquisitions and mergers are the major factors



The identity and access management market is projected to grow from USD 12.3 billion in 2020 to USD 24.1 billion by 2025

for the deployment of IAM and services. Major vendors, such as IBM, Microsoft, Salesforce, SAP, and Broadcom are all present in the region.

Open access control systems – a necessity for secured protection

Can anything else other than open access control systems really secure what you are trying to protect? The question comes from Robert Jansson, Director of sales at Stid Security, Nordics and Eastern Europe. In this article he explains the importance of using security systems based on open platforms and how to keep the systems secured.

Companies and organisations around the world are spending millions every year on access control systems. Most of these buyers purchase one, or maybe two large access control systems in their entire professional career. So, when customers are ready to spend the money to secure their premises, the required specifications they use in their tender documents are very often those recommended by consultancy companies.

My work involves edifying people as to the importance of a tightly controlled access system, and how to ensure that system does what it was built to do. That is, allowing the right persons in and keeping the wrong persons out. In my experience so many of the mistakes that are made are actually built into the systems, and that makes them extremely hard to fix when they are identified later.

An access control system in most cases, in simple terms, has a four-level architecture:

- A software with a database, on premises and or in the cloud, to manage the people with calendars and timeclocks.
- A controller level where the autonomous life of an access control system is managed without a connection to the “mother system” above. A controller can be both a physical controller but also residing for example, a phone.
- A reader connecting to the controller where a badge from a card, key fob or most likely, in newer systems, from a phone, is presented with an identity.
- And obviously a carrier of your identity. The above-mentioned

card, key fob or virtual card on a mobile phone.

Proprietary systems – still a problem

20–30 years ago the market was extremely fragmented, and, in principle, all systems were proprietary built from one vendor on all or most levels above. So, once you had installed the system you were locked to this vendor for life, and life was, and still is very often much longer than the anticipated secure life of the system.

The problem with proprietary systems still remains, even though there is a strong trend toward open platforms. The transformation is at a very early stage and the customers are paying the price.

Imagine you bought a car and you were obliged to purchase all tyres, and petrol from one vendor that controls the price and quality for as long as you own the car.

Who would do that?

Well this is in fact what you do when you buy a proprietary system where you cannot update one, or for that matter, any of the above-mentioned levels of architecture individually. It should be as clear as that to access system customers, that the need to be able to choose is essential. You should be able to choose, for example, the readers or card technologies from a range of various vendors over time. This clearly enables you to obtain the value beyond the system you originally put in place for a reason, and, provides a route to mitigate the risks introduced by new threats that may develop further down the line.

Updated security necessary

If you think about it, no intruder will break a window to get through a door if he can walk right in through that door. And, an expensive access control system would not be in place if there was not something to protect. Your asset has a value, and this is what the thief is interested in.

Generally in this case, the intruder is not armed with a crowbar, but with highly sophisticated tools to digitally break into your system, possibly without leaving tracks. This toolbox is growing every day and an access control system needs to be able to mitigate these new threats at the same pace.

Basic security – abandon password

Most readers of this article know that using a username and password to log in to a security system is unsafe. But still they do it. Therefore, the first step is to firmly close this open door in the security system.

“I would make sure that the software systems are able to deal with at least three various controller brands and preferably simultaneously.”

Controllers – compatibility demands

This is arguably the easiest part to address and can be done with open standards together with your IT department. At the second level are the controllers, and I would make sure that the software systems are able to operate with at least three different controller brands, and preferably simultaneously. The development and competition of keeping, transporting and handling your data safely is constantly evolving, so at each given time you should be able to use the latest and safest product choice.

Open source secure protocols

The readers connecting to your

controllers are equally as important to keep open yet safe.

For this reason, there are a set of open source secure protocols to use. Most producers of controllers and readers use them as standard. OSDP (Open Supervised Device Protocol) listed by the SIA and SSCP (Smart Secure Communication Protocol) listed by the SPAC are two of the most common secure protocols between controller and readers that also provide for remote updates both using open standard AES encryption and beyond, to protect the flow of data from the readers to the controllers.

GDPR concerns

Today, governments, especially since GDPR became law in the EU, are putting more and more pressure on keeping the flow of personal data, often in peripheral devices such as card readers, secure. Security at all levels, is upheld by use of encryption and key management. But how safely and where should you store the keys to

access your credentials? I strongly recommend never to go below the common criteria EAL5+ in the key storage of peripheral devices, such as, card readers that normally are installed at least partially outside of your perimeter.

No keys stored in the readers

I would also look at using so called “transparent mode” where no keys are stored in the readers but the crypto card is communicating transparently through the reader with the controller.

Make sure that you as an end user have full control over the security at all levels and that you can source your reader products to fit controllers above in the system, as



Robert Jansson, Director of sales at STId Security, Nordics and Eastern Europe.

well as the cards below, from many vendors.

The readers should never force you to be locked in by proprietary technology or key management.

And, they should always be ready to be updated to use the latest credential technology.

A safe choice of a “defacto” standard should be the NXP Desfire family now at evolution 3. Desfire is used widely all over the world and trusted, due to the fact that it is built on open standards.

In addition to this we see benefits for many reasons like security, flexibility but also huge cost savings with a movement towards virtual cards.

Most employees are today equipped with smart phones with either a pin code lock or in

“ But how safe and where shall you store the keys to access your credentials? ”

most cases biometric lock – and so, if you can – make it so that the virtual high security card will only be recognised if you have unlocked it with a pin code or a biometric template.

These cards can normally be revoked either

by offline solutions and / or online solutions.

Virtual cards can in most cases work in parallel to ordinary cards in the readers and this is an important factor as the transition might take time.

The conclusions in short

To conclude this, use a two or three factor authentication to both log in as a user to the security system controlling from one to thousands of doors. Never use username and password in any security systems. Use open source and try where possible to do this with qualified certificates to ensure the integrity of the users and validity of the log files.

Turn on encryption between the system and system devices and never trust a proprietary encryption, as if you knew that there is no such thing as an un-hackable code.

Use a reader that is open both upwards and downwards and make sure to let the latest open technology work for and with you to protect your asset. And, finally, never let yourself be kidnapped by obsolete or proprietary technology.

Robert Jansson, Director of sales at STId Security, Nordics and Eastern Europe.

ASSA ABLOY
Opening Solutions

SIMPL  THE
BEST*



* According to industry media
in 2018 and 2020

Aperio® H100:

**Three times
awarded by
the industry**

Learn more:

campaigns.
[assaabloyopeningsolutions.eu/
aperio-h100](https://assaabloyopeningsolutions.eu/aperio-h100)

**Experience a safer
and more open world**



AR Media and Detektor

The founder: "Not the right time to celebrate an anniversary"

AR Media International and Detektor magazine was founded in 1990.

"It is truly an anniversary, but this pandemic year is not the right time for a celebration party. All we can do is recall and reflect", states Lennart Alexandrie, the founder and the publisher of the company.

"30 years in the security trade media business is a long period of time. And it gives perspective."

In 1990 AR Media International was founded with one start up-product in the portfolio – the security trade magazine Detektor. There were already two quite big security trade publications in Sweden at the time, but there were no magazines focused entirely on security technology. The lack of security technology magazines was understandable – the suppliers of electronic security products for the Scandinavian physical security market were mainly quite small importing distributors selling intruder alarm products. Several of them also represented some locally established access control manufacturers, of which there were quite a few in Sweden.

Alarm manufacturers ruled

For a newly established publishing company in Sweden, there was not a great deal of revenue to be expected from this security product sector, but the niche offered AR Media Inter-

national an exclusive starting point within the market.

"The advertisement market was hard and we had to choose to widen our topics in the magazine or to create relations with overseas manufacturers of electronic security equipment to get the business going and to grow. We chose the latter alternative," recalls Lennart Alexandrie.

During the early nineties most advertisers in the beginning were alarm manufacturers trying to sell their control panels and/or PIR-detectors. The control panel market in Sweden was based on domestic brands. However, that changed over the years to come. By the end of the decade there were not many domestic brands left. Companies like Detection Systems and DSC with a less costly and more updated design on their control panels became too tough competition for the manufacturers in Sweden.

During the first five years there were several overseas intruder alarm detector-manufacturers that were keen on advertising, according to Lennart Alexandrie.

"As a publisher we worked hard to make them support their Swed-



The Detektor magazine – one edition for Scandinavia and another for EMEA.

ish and Scandinavian distributors with advertisement contributions. Brands like Alarmcom, Elkron, Visonic, Rokonet, Racal Guardall, Pyronix, Optex and C&K were our target clients. We visited some of them at their headquarters, but most of them we met at exhibition all over the world", he says.

The first online news portal

In 1998 AR Media launched Securityworldmarket.com (then named Securityhotel.com), the first Scandinavian online portal with daily updated security industry news.

"As the market started to change in favour of video surveillance we realised that we could not keep on expanding if we continued to focus only on the Swedish market. Especially as Swedish privacy laws were very harsh towards use of video surveillance cameras at the

time, which had a severe impact on the market," explains Lennart Alexandrie.

First to write about IP-video

From an editorial point of view AR media's interest in video surveillance was seriously awakened in 1996 when Martin Gren, co-founder of Axis, visited the publisher to demonstrate the first network based surveillance camera.

"This innovation was truly interesting because of its potential to change the whole surveillance industry. However, when we published the first articles about it, representatives from the video surveillance industry were far from convinced that networked security products were the right path. We were even accused of not taking it seriously when we published articles proclaiming that IP-cameras were the future. It would take a long time before many of our critics changed their minds."

Video surveillance took over

At the time when the video surveillance market took off in a big way in the late nineties, Sweden was not a very interesting market to invest in for manufacturers. In order to be able to grow and also to get closer to the sources and the expertise of the security industry, AR media launched a global market edition of the news portal Securityworldmarket.com (then named Securityworldhotel.com) in 1999.

"During the same period we

THE AR MEDIA HISTORY IN BRIEF

1990. AR Media International is founded and the Detektor magazine is launched.

1998. The launch of Securityworldhotel.com – the first online portal with daily updated news from the security industry.

2000. Detektor International magazine is launched to serve the EMEA market.

2001. The first Scandinavian Ssectech event is taking place in Stockholm.

2004. The new online media product – SecurityUser.com – is launched on the Swedish market.

2005. Based on a survey among 600 security professionals all over the world by IMS Research. Detektor ranks as the most well-known and regularly read security trade publication in EMEA and in the Nordic countries. In the online security media category SecurityWorldHotel.com tops the list in EMEA and in the Nordic countries.

now 30 years!

launched a Norwegian edition of Detektor, and a Norwegian market edition on Securityworldmarket.com and a branch office in Oslo. Norway was at the time a strong video surveillance market due to its offshore industry."

A Danish market editions of Securityworldmarket.com followed in 2000 and after that AR media added a market edition each for the markets of UK, North America and Middle East.

Detektor International

In 2000 AR Media launched Detektor International to cover the EMEA-market. The industry prize "Detektor International Award" was also introduced to encourage innovation within the security technology market.



Securityworldmarket.com – the pioneer for online news in the security industry.

One year later AR media launched Sectech in Stockholm. And in 2002 the security exhibition was also established in Copenhagen and in Oslo. As a market place Sectech became a great success and it has also served as the host of the Detektor International Award prize ceremony.

Video surveillance in focus

At the time Detektor began to write in much more detail about video surveillance. competitor in Europe was the UK magazine CCTV today and the Taiwanese publication A&S Magazine, also very focused on video surveillance. The success of these publications reflected the booming market of the video surveillance market.

"Our approach to video surveillance was different was different to that of our competitors, since we were pushing hard for solutions and innovations with network based products and systems. This was very much confirmed when our panel of judges decided on the products to be nominated for a Detektor International Award.

"Open platform based solutions were always in favour when compared with proprietary systems."

With a rising demand for the capacity to handle and store increased volumes of video data over the Internet, the interest in IP-surveillance took off with a vengeance and truly turned the first 15 years of the new century and millennium into a golden age for video surveillance.

With scalable open platform IP-video surveillance, so many opportunities opened up. Not least creating offers based on Security as a Service (SaaS).

"Well, we actually launched the term Security as a Service in the physical security market, because everybody was talking about video as a service (VaaS), but customers



The founder of AR Media, Lennart Alexandrie, recalls and reflects.

do tend to focus on the security issue as a whole, not the particular technology being used. We were criticised a lot for the term Security as a Service, and especially to shorten it to SaaS, because it can be mixed up with Software as a Service."

"However, Security as a Service is now an established term in the physical security industry, but not really practiced as much as it is in many other industries.

Most companies are still practicing a traditional business model, based on installation hours and hardware sales. But we will see more service oriented companies, offering subscription deals with their customers."

Golden age for IAM

For some years now digitalisation has had an increasing impact on the innovation and usability of today's security systems. Not only for video surveillance systems. Now, the IAM (ID and Access Management) market is experiencing a boom in technological achievement and in terms of business. In this early stage of the IoT-era IAM is central, the secured ID of a person or a "thing" is the critical core in the IoT-society. Furthermore the IAM-sector is full of innovational power to meet constantly new de-

mands that go hand in hand with the progress of IoT.

Lennart Alexandrie believes IAM is at the beginning of a golden age.

"We will see a lot of development within both the identity management and access control areas because ID is the fundament for a secure smart building, smart city and an entire IoT society".

"The overall trend is of course IoT itself and the challenge to securely integrate different technologies in order to create secured, smart and efficient homes, offices, including better life quality for its citizens."

Cyber security – a challenge

Lennart Alexandrie also places great emphasis on the risks and the importance of cyber security.

"It is becoming the critical core of all kinds of communication, which will constantly challenge the security industry for a long time to come," he says.

Lennart Alexandrie looks ahead to a further exciting and interesting ten years to come for the security industry, and hopes that the current health issues will also improve during that time. "Hopefully the pandemic will be gone and that 2030 will allow us to celebrate our 40th anniversary," he concludes.

2007. The launch of Skyddgolften Detektor Open – the world's largest golf competition dedicated for security professionals – is launched.



2013. The founder of AR Media, Lennart Alexandrie, receives the Gold Shield Award "for outstanding contributions in the global security industry" from the Global Security Industry Alliance (GSIA) at a prize ceremony in Shenzhen, China.

2016. AR Media launch the printed magazine Tryggare Samhälle (Safer Society) in partnership with SSF Stölskyddsföreningen (i.e. the Loss Prevention Council in Sweden).

2020. Lennart Alexandrie is nominated for the Grand Security Award by the Swedish security industry association Sakerhetsbranschen.

2017. Securityworldhotel.com changes name to Securityworldmarket.com



The first prize trophy for winners of the Detektor International Award.

Increasing applications:

Pandemic impact on the role of intelligent systems

Covid-19 has increased the demand for video analytics and not least for people counting applications. However, the pandemic has also accelerated the development towards solutions that go well beyond security and it has very swiftly changed the growth opportunities in different verticals. Detektor talked to five leading manufacturers in the industry about intelligent security technology solutions in the corona era.

By Henrik Söderlund

The corona virus pandemic marks the biggest global disruption since World War II, according to **Koen Rommel**, Senior Vice President Sales EMEA, Bosch Building Technologies. He refers to a recent market survey that shows that 60 per cent of those asked were afraid of going grocery shopping and says businesses now are doing their best to alleviate these fears and create safe environments in and around their buildings. He says: "As a consequence, building operators, retail shop owners, and other stakeholders are looking to save costs by potentially leveraging

the need for artificial intelligence in new software applications, for example mask detection to be utilised in public and private areas. "Some vertical markets, such as the government sector, may increase further while we also estimate that other markets may see reductions due to restructuring in some companies based on Covid-19", he says.

Florian Matussek, Product Group Director at Genetec, stresses that Covid-19 has brought video analytics into the limelight since many of the solutions that are needed now are based on this technology. "We have seen a great



Covid-19 has increased the demand for video analytics and not least for people counting applications.

to customers, employees, travellers etc", he says.

When it comes to video analytics, he sees a raised interest for Covid-19 solutions like temperature screening, mask detection and people counting for commercial buildings, industrial sites and retail.

Jimmy Ek, Axis' Nordic Sales Manager, believes that Covid-19 has accelerated some of the trends that were already there before the pandemic. One of them is computing at the edge of the network. He says: "As more and more products are connected to the network, the management of data must also take place at the edge. We get the opportunity to make decisions based on data that has been analysed directly in the camera and in this way, we go from a reactive to a proactive approach. This trend is even clearer now in the prevailing circumstances where the need to protect and prevent is so great."

Solutions that can fight the pandemic

How can intelligent security systems contribute to fighting Covid-19? Florian Matussek says Genetec launched a new occupancy management offering after the start of the pandemic.

"It allows customers to leverage our people counting analytics to know how many people are

in a certain area, be it a store, a university, a library and so on. If a defined number of allowed persons inside is reached, numerous actions can be triggered, such as switching a light to red or notifying an operator that can make sure no more people are entering", he says.

Jimmy Ek highlights frictionless access control, managing occupancy and network audio as tools that can make individuals feel safer in their everyday lives. With the help of a network-connected intercom, face recognition analysis, QR codes and access cards, a hands-free access control solution can be implemented for all staff and visitors. Jimmy Ek says: "Different types of analysis can also be used to control queues, and to count people in a room. With the help of network-connected sound, pre-recorded messages and instructions can be called out about for example, if a queue forms and is detected by the analysis in the camera/sensor".

Koen Rommel gives an example of a beach in Spain where built-in video analytics provide metrics to officials about the crowd density and the number of people on the beach. If certain pre-defined thresholds are reached, the security operators will be alerted automatically to take appropriate action to maintain safe social distancing.

"We have seen a great surge in demand for video analytics, specifically for people counting applications." Florian Matussek.

new functionality from their existing security infrastructure beyond the realm of security space". For example, retail shop owners now would like to receive live data about how many people already entered their store to avoid overcrowding enabling safe social distancing. Or they would like to receive metrics to help optimise their store lay-out again to facilitate social distancing."

Therefore, he believes IP cameras equipped with AI-driven analysis capabilities or intelligent security solutions will become even more popular.

More people counting

Mobotix CEO **Thomas Lausten** believes the pandemic will escalate

surge in demand for video analytics, specifically for people counting applications", he says.

At the edge

Roy Band, Community Manager, Middle Europe, Milestone Systems, says that the security industry has been quite fast in developing new solutions because of the exponential infection rate, but also because of business opportunities. He also stresses that in recent years, video management software has increasingly been used for solutions that go well beyond security. "This development has accelerated with Covid-19 as it has clearly expanded the need and market for solutions that can provide health and safety



How intelligent security systems are evolving

During the last couple of years, video analytic capabilities have improved, and many video surveillance systems and applications have become more cyber secure. At the same time, the market has become more differentiated and there is an increased use of edge-based systems and an interest in using the generated data.

By Henrik Söderlund

The physical security industry agrees that video analytics has improved in recent years. **Florian Matussek**, Product Group Director, Genetec, believes people counting is a good example. The accuracy has increased and there are more possible applications today. He says: "New technology such as deep learning has allowed manufacturers to increase accuracy dramatically. The scenarios where you could leverage it in the past were limited to top-down views with few people walking through. Today, we can also handle high-volume people counting and can even leverage tilted views from already installed surveillance cameras".

Better cyber security

Roy Band, Community Manager, Middle Europe, Milestone Systems, agrees: the accuracy of video analytics has improved: "But also the amount of data we can extract from live and recorded images. This data is the most valuable for users, because it allows them to search more efficiently, to create dashboards about specific data, to spot future trends based on data, and to act for prevention instead of merely reacting to an incident", he says.

Koen Rommel, Senior Vice President Sales EMEA, Bosch Building Technologies, also thinks video analytic capabilities have developed and have had substantial impact on robustness (capable of functioning under extreme circumstances), customisation (introducing machine learning capabilities enabling devices to learn customer specific situations that

need monitoring) and accuracy.

Thomas Lausten, CEO of Mobotix, claims that many video surveillance systems and applications are more cyber secure today than previously. He also says: "Software analytics and artificial intelligence solutions are much more reliable and provide better analysis than first generation systems".

A differentiated market

Jimmy Ek, Nordic Sales Manager at Axis Communications, says that the market for intelligent security systems is very differentiated today with various types of customer needs. "Some end customers want simple solutions from one supplier, while others want customised solutions and a close dialogue with the manufacturer", he says.

Thomas Lausten says that Mobotix has experienced a significant increased focus on cyber security compared to before when mainly features and price were requested. He says: "System quality and reliability also seems to be more requested especially by many larger end users and this has increased demand in some vertical markets combined with increased usage of analytic integrations".

The usage of edge-based systems has been predicted to increase and Thomas Lausten confirms this trend, including analytics at the edge securing a higher level of cyber security.

Customers want more data

Florian Matussek says the days are gone where customers buy a VMS, a business intelligence application and video analytics separately. "Customers demand



Roy Band, Community Manager, Middle Europe, Milestone Systems.



Koen Rommel, Senior Vice President Sales EMEA, Bosch Building Technologies.



Thomas Lausten, CEO of Mobotix.



Jimmy Ek, Nordic Sales Manager at Axis Communications.



Florian Matussek, Product Group Director, Genetec.

easier setup and use of these systems. Buying video analytics as a separate application is still being done but increasingly only in situations where specialised analytics are demanded that are not already available in a platform", he says.

Florian Matussek also stresses that more and more customers want to leverage their existing camera network and get more data out of it, and not just for security reasons, but for operational use.

Koen Rommel also highlights the rising importance of data that is collected via multiple sensors and consolidated into actionable insights that can be used to improve overall security or support new opportunities like receiving live metrics about crowd density, store traffic etc.

Video analytics today and in the future

Florian Matussek sees a continued growth in demand for perimeter protection analytics and he believes more data from video analytics will be connected to other data in the future, since the true value of the data is created when this happens. He says: "For example, can I combine access control and video to detect tailgating? Can I combine radar and video analyt-

ics to get more accurate perimeter protection?"

Roy Band thinks that the popularity of edge processing will grow, and more analytics will be processed at the edge and/or in the cloud.

Thomas Lausten sees customer demand from areas such as crowd management, face recognition (with and without masks) smoke and analysing behaviour based on age, gender etc.

"Video analytics will increase in quality and development will be even faster. Video management will be even more geared towards data analysis, and cyber security will become even more important to secure reliability and compliance with local laws and regulations combined with GDPR", he says.

Jimmy Ek believes that the video analytics most in demand are those for perimeter protection and customer experience analysis. He stresses that in these times when e-commerce is growing, competition for customers is increasing and, stores and facilities will need more data about customers to be able to meet their expectations. Here, intelligent video technology and analytics can be helpful for both retailers and customers.



Optex:

The benefits of sensor-led visual verification

Intrusion alarm systems with visual verification is becoming a 'must' throughout the security industry. "Using reliable and accurate sensors together with good quality cameras managed by a high-performance video management system will give the best of breed to the end-users", says Mark Cosgrave, Division Manager for Western Europe at Optex.

The question some are asking now, however, is: does it make the sensor redundant? As much as camera technology and video algorithms have evolved, there is still both a risk and limitation in using a single technology to do everything, according to Mark Cosgrave. He says there are clear benefits in an outdoor environment for using sensors as the first line of defence in detecting intrusions.

Faster response

First of all, it gives reliable detection even in difficult lighting conditions.

"Physical intrusion sensors have

been developed around a number of different technologies such as passive or active infrared, microwave, Lidar, radar and fibre optics, but the common characteristic of them all is that they do not need light to detect and they incorporate the ability to self-adjust their sensitivity thresholds under varying conditions", says Mark Cosgrave.

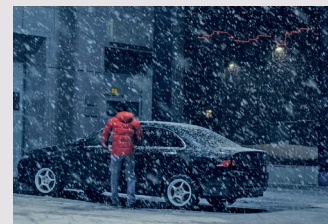
Secondly, he stresses detection speed and faster response in the event of an intrusion. The sensors are dedicated to one task: detecting. And sensing technologies like the ones implemented in Optex sensors are using algorithms to process

data and eliminate noise to detect quickly and accurately to give a reliable response to events.

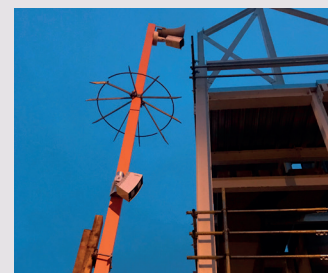
Cooperation with video manufacturers

Finally, he stresses consistent detection ranges to help take the appropriate action: "Sensors are designed to provide a detection range that will be consistent throughout the day and weather conditions. The ability to maintain the quality and distance of detection is critical to guarantee the integrity of a security system. If the luminosity is poor in the secure area, or it is raining heavily, this will not affect the ability of the sensor to "see" the intruder", he says.

Mark Cosgrave also stresses that in the last few years, Optex has worked in close cooperation with video manufacturers and has seen the true value of bringing the two technologies together.



Sensors are designed to provide a detection range that will be consistent throughout the day and weather conditions.



"It is now time that installers realise the benefits that such cooperation can bring to their business and their customers", he concludes.



vario2

HYBRID

ONE PRODUCT TWO ILLUMINATORS

Outstanding
Performance

Combined White-Light
and Infra-Red

IP Enabled

rayTEC
www.rayteccctv.com



XPROTECT® VMS IN THE CLOUD



Flexible

Deploy systems globally
and dynamically scale
in minutes



Cost effective

Reduce initial investment
and turn expenditures
to predictable costs



Reliable

Utilize AWS Infra-
structure as a
Service and ensure a
continuous operation

Axis Communication:

The state of AI in the surveillance sector

Everybody is talking about artificial Intelligence, AI, these days. But what is AI? How do we define it in the security industry?

Detektor decided to interview Mats Thulin, Director Core Technologies, at Axis Communications regarding AI and its potential in surveillance applications.

Artificial intelligence (AI) is a branch of computer science that studies and develops methods that allow computers to simulate intelligent behaviour.

“In general terms AI is a very broad concept, but in the specific context of video analytics the principal focus is to increase operational efficiency and add value by automatically processing and analysing video streams,” states Mats Thulin.

“In this context a subcategory of AI, machine learning (ML), is more specifically relevant. As its name suggests, machine learning allows computers to improve algorithms through ‘learning’ based on real-world examples. The improved algorithms are then used to analyse images or video sequences to generate alarms, metadata or other information.”

Deep learning

Furthermore Thulin claims that attention has the last few years turned to a subcategory of ML, deep learning (DL), which describes algorithms based on simulated neural networks.

“The idea for this type of algorithm was inspired by the human vision system, hence its name – neural networks. In DL networks, layers of operations are arranged in a hierarchy of complex and abstract layers, each layer using information from the previous one to draw its final conclusion,” he says.

Mats Thulin emphasises that DL models enable more complex analytical algorithms and generally achieve greater precision than traditional ones.

“In video surveillance systems they are used primarily in the

detection, classification and recognition of different types of objects. However, one drawback of DL algorithms is that they require more computational power and more mathematical operations in comparison to traditional algorithms.”

Demand for lots of data

ML and DL require huge amounts of relevant input data for training to achieve good quality results. If enough relevant data – and computing power – is available for training, ML- and DL-based methods can efficiently process it to achieve algorithms with higher precision. The computer can analyze thousands of images to find details that characterize specific objects in different scenarios.

“If the data and their descriptions are of high quality, an application based on DL is able to achieve even greater accuracy. But availability of high-quality data can be a challenge,” claims Mats Thulin.

“Perhaps countering the general perception of AI, today’s technologies still lack awareness or what might be referred to as general intelligence. In applications where the technology is used, it focuses on very specific problems in limited domains.”

“For example, for a voice application such as Siri or Alexa to accurately answer our questions, we need to ask very specific and explicit questions. Otherwise, we will get a completely incomprehensible answer. Similarly, in surveillance systems, a poorly defined use case without proper delimitations may result in applications achieving low accuracy.”

Based on the current limita-

tions in accuracy Mats Thulin emphasizes that we must be cautious on how and where to use these technologies.

“The technology today improves efficiency but the actual decision making in a surveillance scenario must still lie with the security guard or the operator. We must keep a ‘human in the loop’, he says.

The surveillance in focus

As any new technology matures beyond the initial ‘hype’, weaknesses and limitations of the technology will become clear and only in the areas where the technology provides real value we will see growth, according to Mats Thulin.

“In surveillance it is important to start with the use-case: what problem are you trying to solve, or which effect are you looking to achieve? Based on a good understanding of the specific use-case it is much more feasible to apply ML and DL to achieve a good result.”

However, Mats Thulin also comments that there are applications and use-cases in which DL analytics is already providing real value for organisations, like when browsing large amounts of recorded material in search of specific objects or events, often referred to as forensic search.

“The use of DL analytics surveillance systems will increase, but a cautious approach is needed. Truly understanding the use-cases, the limitations of the technology and thorough testing and evaluation to make sure the intended result is achieved is crucial,” he says.

Image usability important

Fundamental to the ability to analyse video is the image quality, which directly reflects in the quality of the video analytics accuracy. Surveillance camera systems need to operate 24/7 for 365 days a year. No matter temperature fluctuations or/and different lighting conditions, it should still analyse the image correctly in real-time.



Mats Thulin, Director Core Technologies, at Axis Communications.

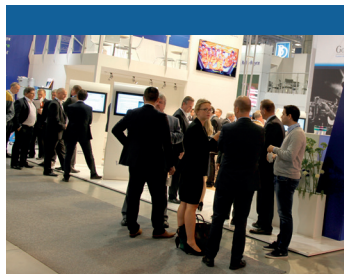


Artificial intelligence (AI) is a branch of computer science that studies and develops methods that allow computers to simulate intelligent behaviour.

Edge-based analytics

An industry trend is that more advanced video analytics are moving to edge devices, with applications running on the cameras themselves. It means saved bandwidth since only the extracted data needs to be transferred from the camera which also may address privacy concerns. Furthermore, it means savings on expensive server-side hardware and more accurate analytics, as the video is analysed before the video is compressed which avoids the risk of quality degradation in the video compression.

“Intelligent analytics on the edge will open up numerous new opportunities for applications that will further enhance safety and security and deliver additional benefits in operational efficiency” concludes Mats Thulin.



- Exhibition
- Open forum
- Seminars

SECTECH

EXPO & SEMINARS / NORWAY

LILLESTRØM 10-11 MARCH 2021

Welcome to the first Scandinavian security event in 2021

Yes, we still believe in it, despite the pandemic. The 10th Sectech in Norway is set to take place on the 10th and 11th March 2021. The venue for the exhibition, the conferences and the Open Forum will be at the Norway Trade Fairs in Lillestrøm. The exhibition will host companies from all over Scandinavia showing the very latest when it comes to products and services based on modern security technology.

Entry sponsor:

SOTERA | SOLUTIONS

For updated information:

www.sectech.nu

Arranged by:

armedia  **Stockholmsmässan**

AR Media International AB, Västberga Allé 32, 126 30 HÄGERSTEN, Sweden, Tel +46 8 556 306 80, www.armedia.se, www.sectech.nu

Media partners:

DETEKTOR 

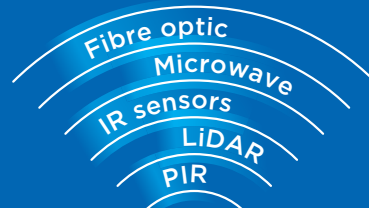
 **security**
WORLD MARKET.COM

 **OPTEX**
Sensing Innovation

Empty threats waste time and missed threats could have disastrous consequences.

For enhanced security, it makes sense to bring the power of two technologies together. Our intelligent sensors can detect without being influenced by light or weather conditions and integrate with video systems to provide visual verification. Because vision can't do it all, it makes sense to have sensor-led visual verification.

**For more information
visit www.optex-europe.com**



Expert in sensing technologies

INTRUSION DETECTION | TAILGATING DETECTION
VEHICLE DETECTION | PEOPLE & VEHICLE COUNTING
ENTRANCE DETECTION

**DON'T WASTE TIME
ON EMPTY THREATS**
Get the power of sensor-led visual verification

Malou Toft, VP EMEA, Milestone Systems:

“5G is setting new standards for speed and bandwidth”

Artificial intelligence relies on the ability for computers to translate and process massive amounts of data. This places cameras – referring to a unique lens and sensor used for image capture – at the epicenter of the upcoming IoT era. But, how are we preparing for it?

That is the subject that Malou Toft, VP EMEA, Milestone Systems, was asked to discuss with Detektor.

Telecommunications operators have been racing to build the fifth generation (5G) of wireless technology and it is now being rolled out around the world. Just a few months ago it also reached Denmark, where Milestone Systems headquarters is located and where Malou Toft is based.

“Having spent 16 years in the telecommunications industry, and the past 3 years in the video tech business, I am hugely excited about the development,” states Malou Toft who believes that the IoT era will truly come into its own in the wake of 5G.

“It will have as big an impact on the daily world as the smartphone had in the 2G era,” she says, and explains further how 5G will have an impact on our daily lives.

A technological revolution

There is no doubt that Malou Toft is convinced that 5G will be the real take-off for IoT, and big changes in the way we use technology ahead.

“5G is setting new standards for speed and bandwidth – and it goes way beyond downloading a movie in seconds on your phone. It will expand to encompass all sorts of “things,” from autonomous cars, to augmented reality glasses, as 5G’s greater capacity and reduced latency will enable humans to act on societal challenges in new and far more effective and better-informed ways.”

New opportunities and risks

For Malou Toft 5G is the foundation for realising the full potential of the Internet of Things (IoT) with the purpose of measuring,

collecting, and analysing data, in order to make cities, homes, and businesses work better. But she is also aware of the fact that with new technologies come new risks.

“Indisputably, the new technologies also come with new risks – namely around cyber security and data privacy. Risks that government bodies, companies and we as individuals need to take seriously. But even with the risks and uncertainties involved, I feel confident that the 5G infrastructure will enable huge advancements to society that will outweigh the potential downsides. If we take conscious and responsible choices about how we apply the technology at hand.”

The pandemic and how technology can do good

As an example of how technology can do good Malou Toft takes the pandemic’s impact on innovation and adaption.

“Just look at the world during COVID-19. In the past six months, technology has come to the fore to mitigate the crisis. We have seen that hospitals have explored greater use of video to consult with patients and manage ongoing care where appropriate to reduce unnecessary close contact. Many patients have applauded this. Some have even attended more therapy sessions remotely than they would otherwise, because of the convenience. This indicates that this may in fact be the preferred option for some people – even after the pandemic.”

Technology saves lives

5G and IoT technology bring further advancements to many



Malou Toft, VP EMEA, Milestone Systems, is convinced that 5G will be the real take-off for IoT, and big changes in the way we use technology ahead.

sectors, such as transportation and retail to mention a few, not only health care, but the importance of how technology can contribute to increase good health and save lives is truly obvious to Malou Toft.

“Machine type communications will be used to monitor patients via massive sensor networks, and to power smart pills that can record drug ingestion to avoid medication errors, which cost lives. Ultra-reliable low latency communications (URLLC) will power telemedicine, remote recovery, augmented reality physical therapy and even remote surgery.”

Visual data – the artery for AI

According to Malou Toft visual data is the main artery for artificial intelligence and she explains why that is.

“More than 50 percent of the human brain, is devoted to processing visual information. Therefore, the majority of the data needed for artificial intelligence to automate processes and enable humans to make more efficient and better-informed decisions, will rely on the ability for computers to translate high quality visual data,” she says and adds:

“This places cameras – referring to a unique lens and sensor used for image capture – at the epicenter of the upcoming IoT era. Coupled

with the right analytical tools, cameras will not only monitor, but also facilitate an automation of the many complex processes involved in, for example, manufacturing.”

AI may be the solution for many applications, but Malou is also eager to emphasise the importance of how to implement the technology.

“Artificial intelligence may be the core of a connected and digital organisation, but it is human intelligence that is the core of a successful implementation.”

Important to eliminate risks

Milestone Systems is a global leader within video management software. Standing at the edge of the IoT era and considering the importance of strong, reliable software to manage and process the huge amounts of visual data to be collected in the years to come, Malou Toft cannot think of a more exciting company and industry to be in.

“But even if we are looking into a blue ocean of opportunities, and we are here to make a profit, it does not mean that we should pursue the opportunities in an uncritical manner. We all have a responsibility to mitigate and try to eliminate the risks involved. As a leading global video management software (VMS) provider, it is our obligation to help set the agenda for secure and responsible video technology use.”

The advantages of pulsed lighting for intelligent transport systems

Raytec is a world leader in LED lighting for security and safety applications. The company is consequently a strong supplier in the market for Intelligent Transport Systems (ITS).

“Lighting is an essential part of an effective transport system, but when designing an Intelligent Transport System, you need to consider what ‘type’ of lighting suits your project,” comments Callum Ryder, Product Manager at Raytec.

Intelligent Transport Systems (ITS) are a combination of advanced information and communication technologies used in transportation and traffic management systems to enhance the efficiency, safety and sustainability of transportation networks.

“When it comes to lighting there are two different approaches to this type of scenario, ‘constant’ and ‘pulsed’ illumination,” says Callum Ryder and explains the difference between the two.

Constant Illumination

Constant illumination is when a light is switched on 100% of the time, usually due to a specific user requirement, where they want the light to be constantly available.

“When it comes to lighting there are two different approaches to this type of scenario, ‘constant’ and ‘pulsed’ illumination.”

However, for automatic number plate recognition applications the camera is not constantly capturing images, for every frame it is effectively taking a 1,000th of a second snapshot.

Pulsed Illumination

Pulsed illumination refers to fast flashes of light that sync directly with the camera’s shutter. Using pulsed lighting provides on-demand lighting to accurately record imagery of fast-moving

objects. The illuminator can be synced with the camera’s shutter via a digital input to ensure there are maximum levels of light when required. Pulsed lighting is usually triggered by a moving vehicle.

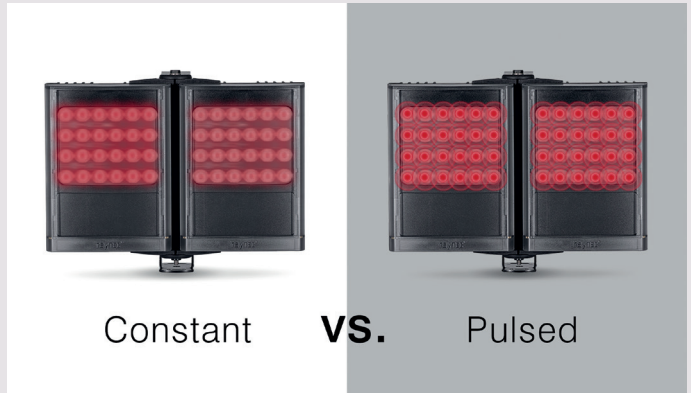
The benefits of pulse illumination

According to Raytec, pulsed illumination provides a number of advantages over constant lighting when being used for transport applications. Some of the main benefits include the following:

- **Power.** When the illuminator is pulsed, it is only operational for short bursts of time. This means the LED’s can be driven harder (more power input to the LED’s) without reducing the lifes-

pan of the LEDs. The maximum power input to the illuminator depends on; the particular LED used (this can be 3-5 times more power), the time the LED is illuminated versus the power cycle, and the limitations of the drive circuit.

- **Consumption.** Pulsing an illuminator can also reduce the overall power consumption of the unit by a significant amount. By only deploying the pulsed illumination as and when required,



Pulsestar illuminators typically provide 400% power output compared to the equivalent constant illuminator.

running costs can be significantly reduced, and it can also help the illuminator to last longer (compared to an illuminator that is on constantly). If power saving is a requirement, then the overall power consumption can be reduced by as much as 95% with pulsed LED’s, or by 75% if they are driven at a higher pulse power.

- **Operating Temperature.** In pulsed mode, the illuminator will only be on for 1/20th of the time (and off for 19/20ths). This means that the illuminator will remain at a cooler temperature compared to a unit that is running constantly. This has a huge benefit when it comes to operating in hot climates. Pulsed lighting can offer considerably lower operating temperatures, making it safer and increasing illuminator reliability. LED lifetime is 100% controlled by the heat of the unit; turning the LED on and off when needed helps to lower the ambient temperature and dramatically prolongs the life of the unit.

- **Visual Impact.** With traffic applications, using white-light can interfere with the driver’s vision and can become extremely distracting especially when on constantly. Therefore, using pulsed technology means that it is on only when required meaning that it lowers the visual impact of the illuminator for drivers.



Callum Ryder, Product Manager at Raytec.

Pulsestar confirms the advantages

The advantages of pulsed illumination is confirmed by the performance of Raytec’s high-intensity pulsed LED illuminators in the Pulsestar range.

“Pulsestar illuminators typically provide 400% power output compared to the equivalent constant illuminator. This means that the pulsed lighting can achieve longer distances, or brighter light at a shorter distance,” comments Callum Ryder.

“Alternatively, it could allow a smaller unit to be installed while still achieving the same output and distance, reducing overall capital costs. Compared to constant lighting (where the power is constantly outputted), with Pulsestar technology there is no reduction in the life of the LED’s within the illuminator,” he adds finally.

Hikvision and Nedap integrate on access control management

Hoofddoorp ane Groenlo,, The Netherlands

Hikvision and **Nedap** have integrated the Hikcentral video security platform with the AEOS access control solution to provide single-platform operations for users who maintain both companies' systems.

The integration, via Nedap AEOS Connector, provides event information, alarms, and person-data synchronisation of access control and intrusion events between AEOS-connected hardware and HikCentral. This integration enables operators to manage doors, detectors and intrusion areas, as

well as visually verify and handle alarms in Hikcentral Clients.

"With the integration, security personnel are able to greatly enhance their situational awareness and control in large installations," said *Jens Berthelsen*, Global Partner Alliance Manager of Hikvision.

"The integration leverages the Hikvision Optimus framework to ensure a long lifespan for the installation. It also makes future upgrades of both systems seamless and simple – without compromising the continuous operation."

"Hikvision skipped half-measures and created a very complete integration for both access control and the intrusion part," said *Wesley Keegstra*, Integration Manager at Nedap. "Linking events and alarms to Hikcentral creates a single-platform solution to visualise the status of a security system with the corresponding video recordings. Besides visualising a system, users can also control it. Whether they open a door or lock one, or remotely arm or disarm an intrusion area."

The Nedap AEOS Connector

is developed under Hikvision's latest Optimus framework, which enables systems integrators to easily tailor integrations to individual customers' needs, building suitable workflows and event-to-action protocols. This is based on a very intuitive and easy-to-use graphical user interface that does not require coding.

The Optimus and Nedap AEOS Connector are available for Hikcentral version 1.6 and AEOS version 2019.1.5 and are ready for deployment now.

Mobotix gains cyber security approval across entire range

Langmeil, Germany

The M73 high-performance camera based on Artificial Intelligence (AI), is the latest in the Mobotix lineup to have received the SySS IT security certificate.

After completing multiple tests, SySS GmbH now attests that the entire **Mobotix** IoT camera series has a particularly high level of cyber security. In addition to the M73, the M16, representing the entire Mx6 series, has also earned the SySS certificate. This is a continuation of the Mobotix Cactus Concept, which aims to offer a reliable, end-to-end video system protection against hacker attacks.

In several scenarios, the hardware and software components of the M73 were subjected to simulated state-of-the-art hacker attacks. The penetration testers at SySS GmbH are very familiar with attack methods on IT systems and are researching new ways and means of preventing intrusion into digital infrastructures. With this extensive know-how, SySS GmbH is the penetration test market-leader in Germany as they test IT landscapes, looking for both common and unique weaknesses and other security vulnerabilities.

"With the SySS certification of our new M73 video system, we are proving that Mobotix continuously strives for the best possible cyber security for all of

our camera series," emphasises Mobotix CEO, *Thomas Lausten*. "Our Mx6 range is one of the market-leading systems for classic security camera applications and is the first choice for many of our customers. The robustness and durability of the power-saving system is in line with the classic Mobotix DNA and is ONVIF-compliant despite the decentralised approach. The SySS certification of the new, open Mobotix 7 platform and the M73 proves that we have achieved the goal of 'highest data and cyber security' even with our most powerful camera series," says Lausten. "This also applies to the Certified Apps that are integrated in the firmware, which comprehensively extend the



In addition to the M73, the M16, representing the entire Mx6 series, has also earned the SySS certificate.

modularity of our systems."

The Mobotix Apps based on deep learning and solutions from renowned partners are explicitly verified and certified by Mobotix. Users can use exactly the apps in their video systems that they need for their requirements.

Iloq appoints new CSO

Espoo, Finland

Thomas Thörewik has been appointed as CSO and member of **Iloq's** management team. Before joining Iloq, Thörewik has been working as Senior Vice President, Head of Global Sales & Services in Danfoss Drives. He is located in Stockholm, Sweden.

Thomas has worked as Vice

President at Danfoss Drives (2015–2017), Vice President, Northern & Eastern Europe at Vacon Plc (2013–2015), Managing Director at Vacon Drives A/S (2009–2013), Managing Director at Vacon AB (2008–2013) and Manager at Omron Electronics AB (2000–2008).

"We are delighted that Thomas is joining our growing team. He has widespread experience in the manufacturing industry, a strong background in sales and service and a passion for bringing added value to customers," says *Heikki Hiltunen*, Iloq's President and CEO. "



Thomas Thörewik begins his new role as Chief Sales Officer at Iloq this week.

Genetec recognised as World's fastest growing access control company

Montreal, Canada

According to Omdia (Informa)'s latest access control report, Genetec Inc., a leading technology provider of unified security, public safety, operations, and business intelligence solutions, is the fastest growing access control software provider in the world.

The report showed **Genetec** rising to 4th position globally (up from 6th and 8th positions in 2018 and 2017 respectively) with a growth rate of nearly 5 times the pace of the market.

"Genetec was the fastest-growing software provider in the Americas in 2019, increasing by over 1 percentage point to reach over a 9% share and maintaining its 3rd place ranking in this region. The company's rise over the past several years has been emblematic of a broader trend favouring vendors that actively sell first-party access control and video surveil-

lance solutions. The Synergis access control software from Genetec readily supports integrations with VMS software and video analytics," said *Bryan Montany*, Physical Security Analyst at Omdia.

Enterprise, government, education, and public safety organisations are moving away from proprietary solutions in favour of secure access control solutions that are part of a unified physical security platform. This allows them to make clear, timely decisions based on a richer understanding of their security and operational environment. Delivering on this require-

ment has resulted in Genetec not only outpacing market growth for access control, but also continuing to be recognised as the global leader in video surveillance software according to another recent Omdia research report.

"While much of the industry has been concerned with traditional access control needs, Genetec has taken a radically different approach that looks beyond the door," said *Léon Langlais*, Vice President, Product Engineering at Genetec. "As the market moves away from legacy technology, enterprise customers want to invest in a modern, open-architecture access control solution that enables their organisations to not only strengthen their security, but also extract actionable intelligence to improve operations."

Genetec offers an open platform solution that supports a wide



Léon Langlais, Vice President, Product Engineering at Genetec.

range of 3rd party access control devices. The company's flagship access control system, Security Center Synergis, enables customers to leverage existing network and security equipment investments, while also offering flexible deployment options based on the latest in information technology to ensure enterprises have flexibility while optimising their spend.

HID wins award for innovative pandemic technology

Austin, Tx (USA)

HID Global's, HID Location Services for Workplace Safety has been named as a 2020 Pandemic Tech Innovation Award winner.

The **HID** Location Services for Workplace Safety employee social distancing application leverages Bluetooth Low Energy (BLE) HID Beeks Aware fobs that alert employees when they are closer than 6 feet (2 metres) for a specified period of time. Contact tracing is easily performed using the same HID Beeks Aware fob. Real-time reporting and analytics provide a full digital trail

of an employee's whereabouts and historical interactions while at work. This makes it possible to rapidly respond to cases and activate isolation procedures as needed.

"We are pleased to receive this award for our secure and privacy-preserving solution and HID applauds TMC for showcasing products that empower organisations to increase workplace safety during

the global pandemic," said *Mark Robinton*, Vice President of IoT Services, Identification Technologies with HID Global. "HID Location Services solution for Workplace Safety is helping organisations simplify and streamline employee social distancing and contact tracing protocols while also driving compliance to federal, state and local requirements to help prevent workplace exposure to COVID-19."

The Pandemic Tech Innovation Awards recognise hardware, software, devices/peripherals, applications and

services that help society and business function effectively in the face of challenges caused by pandemics.

"HID Global has displayed its commitment to quality and innovation in the development of their tech solutions contributing to managing and overcoming pandemic outbreaks," said *Rich Tehrani*, CEO, TMC. "I look forward to more innovation from HID Global and their continued effort toward improving the future of the current challenges faced by the most recent pandemic."

Dahua donated food supplies after the Beirut explosion

Hangzhou, China

The massive explosion in Beirut on August 4th had a devastating impact on Lebanon and its citizens, killing at least 180 people, injuring thousands and tens of thousands residents were left homeless after the blast.

This led **Dahua Technology** and its Lebanon team to immediately donate 350 cases of

food supplies to help the affected residents tide over this extremely pressing circumstance.

"Dahua Technology stands in solidarity with the Lebanese people and we are working together to help them rebuild their homes," comments *Lori You*, Country Manager of Dahua Lebanon.



Dahua Technology donated 350 cases of food supplies to help the affected residents.

Google finalises deal to buy 6.6% of ADT

Boca Raton, FL (USA)

ADT has issued and sold in a private placement to Google 54,744,525 shares of Class B common stock, par value \$0.01 per share, for an aggregate purchase price of \$450 million.

The shares of Class B common stock issued to Google represent approximately 6.6% of the issued and outstanding common stock of ADT on an as-converted basis. The Company expects to use the net proceeds for further growth initiatives and to reduce debt over time.

The original announcement made at the beginning of August set out the main details of the investment, which will see a close working partnership between Google and ADT, giving Google access to ADT's 6.5 million custom-

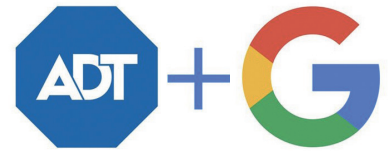
er base and its skilled technicians, through which the two will offer Google's Nest series of products. As a result, Google's Nest hardware combined with ADT's professional installation and monitoring service will create a fully integrated set of devices, software and services for the secure smart homes market.

According to Reuters, the investment gives ADT the backing of a high-profile technology partner and broadens its services business and in return, Google strengthens its presence as it competes with

Amazon.com's AMZN.O Ring and Boston-based Simplisafe, among others.

Blake Kozak Principal Analyst, Smart Home and Security Technology, Omdia, recently published an analysis on the potential short and long term implications of this move and he believes that this equity investment from Google could be the differentiator the industry was looking for to bring a tech company together with an alarm brand. He suggests that this new partnership could be the initial step that disrupts the smart home and alarm monitoring markets.

ADT expects to offer certain Google devices to its customers beginning this year and to expand the integration in 2021. The com-



plete ADT + Google helpful home security solution will utilise a secure platform for a seamless experience that prioritises privacy and interoperability for greater customer peace of mind and choice.

Each company will also commit an additional \$150 million, subject to the achievement of certain milestones, to be used for co-marketing, product development, technology and employee training to advance the partnership. These investments are expected to accelerate ADT's capital efficient growth and drive broader consumer awareness and deeper product innovation for both companies in the fragmented yet rapidly expanding smart home market.

Addsecure finalises Dualtech IT acquisition

Stockholm, Sweden

Addsecure has completed an agreement to acquire Dualtech IT AB, a leading supplier of secure IP based alarm communication terminals and innovative services, to strengthen its smart alarms portfolio, expertise, and market coverage in Europe.

"We are delighted to have reached agreement with a company that has demonstrated consistent innovation and dedication to their customers over a long period of time", says *Stefan Albertsson*, CEO of **Addsecure**.

Dualtech's experience of digitisation is of particular importance with the forthcoming technology shift, i.e. the closing down of 2G and 3G networks that is taking place throughout Europe.

"As the technology shift will take place across Europe, there will be a large number of customers with similar needs around Europe. Dualtech's platform and experience in the field are therefore of great value to Addsecure", Albertsson continues.

By combining offerings the companies are also well positioned considering the new alarm transmission EU standard 50136-3 required by 2021, which stipulates

that an alarm system must be tested end-to-end, and will be able to provide European customers with future-proof, secure and reliable end-to-end solutions.

Dualtech will be part of Addsecure, and the product portfolio will coexist together with Addsecure's existing smart alarms offering. Future offerings will combine the innovative solutions from both portfolios. The Dualtech founders and staff will continue to drive and grow the market and Dualtech's solutions portfolio.

"This transaction provides Dualtech customers with an excellent outcome in terms of their ability to access the latest technology and solutions available. It also provides



Stefan Albertsson, CEO, Addsecure.

an exciting future for our staff with an expansive growth company," says *Anders Johansson*, Managing Director of Dualtech.

Dualtech has customers in over 20 countries around the world, and has delivered over 250 000 secure alarm communications products.

Motorola acquires Callyo

Chicago, IL (USA)

Motorola Solutions, Inc. has acquired Callyo, a cloud-based mobile applications provider for law enforcement. Terms of the transaction were not disclosed.

Callyo is a software as a service company (SaaS) serving thousands of public safety customers across North America. Its portfolio includes two application suites – 10-21, which simplifies commu-

nication between first responders and citizens, and Callyo, which provides investigative tools that improve digital evidence collection.

This acquisition adds to Motorola Solutions' existing com-

mand centre software suite critical mobile technology capabilities that enable information to flow seamlessly from the field to the command centre.

"First responders are increasingly looking to mobile applications to boost productivity and enhance community relations," said *Andrew Sinclair*, senior vice

president and general manager, Software Enterprise, Motorola Solutions. "With Callyo's technology, agencies can improve collaboration and enhance the evidence collection process to build stronger cases more efficiently, ultimately enabling them to better serve and keep communities safe."

Assa Abloy sells sensor technology company in Switzerland

Stockholm, Sweden

Assa Abloy has signed an agreement to sell its sensor technology business Cedes in Switzerland to Capiton AG.

Cedes is a leading sensor technology company in the elevator and door industry. Cedes was established in 1986 and has some 320 employees. The company is headquartered in Landquart, Switzerland. Sales in 2019 amounted to

about 51 MEUR.

"I find it very satisfying that with Capiton AG, Cedes and its employees and customers gain a committed long-term investor, creating new opportunities for the future and I wish them every success," says *Nico Delvaux*, President and CEO of Assa Abloy.

"Cedes now has the investment and expertise to grow and expand

its core business of elevator sensors, allowing us to focus our resources on our core business of automated doors. Cedes is a well-performing business with high quality products, and we will continue to partner with the company as a preferred external supplier," says *Christopher Norbye*, Executive Vice President of Assa Abloy and Head of Entrance Systems Division.



Nico Delvaux, CEO & President, Assa Abloy.

G4S UK rejects £2.95 billion bid from Canadian rival

London, UK

G4S is currently urging its shareholders to dismiss and ignore offer attempts from privately owned Canadian security company, Gardaworld.

The latest offer of 190 pence per share, was estimated to be valued by Reuters at 2.95 billion pounds and was unanimously rejected by the board of **G4S** as significantly undervaluing the company.

Established in 1995, and based in Montreal Canada, Gardaworld is the largest privately owned security services company in the world. The company offers security solutions and professionals to protect people, assets and reputation glob-

ally. Gardaworld employs around 102,000 trained and dedicated professionals serving clients in North America, Africa and the Middle East, including Fortune 500 companies and governments and it has also served in the UK for around 15 years.

According to reports Gardaworld has made various attempts to engage with G4S over the last three months, but without success, and now is urging G4S sharehold-

ers to take note of this latest offer of 190 pence per share.

Reuters reports that G4S recently revealed it had already declined two previous offers in June for 145 pence per share and 153 pence per share each.

The Board at G4S believes that the timing of the proposals is highly opportunistic, coming as it does at a time of severe turbulence in global financial markets.

Earlier this year, we reported that G4S sold the majority of its conventional cash businesses for 727 million pounds to The Brinks Company, and the board believes this move greatly enhances the

group's strategic, commercial and operational focus and strengthens further its financial position. It says that the company is increasingly well placed to deliver growth, profitability and substantial free cash flow and that the group's resilient performance in the first half of 2020 provides confidence in the strategy and its execution.

Stephan Crétier, Founder, Chairman, President and CEO of Gardaworld, acknowledges that G4S is an important UK employer and a significant provider to both the public and private sectors, but said that he believes G4S "needs an owner not a manager."

Stanley Security's business in five countries acquired by Securitas

Stockholm, Sweden

Securitas is acquiring Stanley Security's electronic security businesses in Germany, Portugal, Switzerland, Singapore and India.

The acquisition is aligned with **Securitas'** ambition to double the size of its security solutions & electronic security business and expands Securitas' electronic security footprint and capabilities. The purchase price is estimated to MUSD 64 (MSEK 563).

The entities to be acquired provide an integrated electronic security offering to their clients - from design to installation and from maintenance to alarm monitoring - based on a complete portfolio of advanced

security solutions such as access control, intrusion, video, fire and integrated systems. The business has approximately 580 highly skilled employees operating in five countries through 20 branch offices out of which 11 are located in Germany.

The business also has two alarm monitoring centres, one in Germany and one in Portu-

gal. Total sales of the in-scope business amounted to MUSD 85 (MSEK 748) in 2019, mainly driven from installation sales, recurring monthly revenue and maintenance services.

"We are very excited to welcome the electronic security specialists from Stanley Security to Securitas. Through this acquisition, we add significant electronic security expertise and deepen our capabilities in Germany, Switzerland and Portugal, while also establishing our first electronic security presence in



Magnus Ahlqvist, Securitas President and CEO.

Singapore and India. This is an important step forward to deliver high-quality electronic security services to our clients in key markets," says *Magnus Ahlqvist*, Securitas President and CEO.

The acquisition-related costs are expected to be MSEK 60, some to be recognised in 2020 but mostly in 2021. The acquisition is expected to be EPS accretive as of 2022. The acquisition will require customary regulatory approvals and is expected to close during the fourth quarter of 2020. The acquisition will require customary regulatory approvals and is expected to close during the fourth quarter of 2020.

Airbus selects Nexus Smart ID platform to enable secure digital transformation

Stockholm, Sweden

Airbus Digital Trust Solution

(ADTS) has chosen Nexus Smart ID to enhance their information security processes through a state-of-the-art corporate PKI (public-key infrastructure) platform.

The Airbus team required a secure solution to issue and manage the full lifecycle of a large volume of identities, adhering to new compliance measures such as GDPR, eIDAS and governance levels of assurances (LoA). As Airbus looks to continue their digital transformation path, it was also important for the new PKI to be innovative, scalable and future proof, covering existing and future use cases from ADTS.

Airbus Digital Trust Solution selected Nexus Smart ID as it provides a reliable foundation for issuing and managing trusted, certificate-based identities, ultimately helping to strengthen information security within the organisation. Nexus' PKI platform is certified according to Common Criteria EAL 4+, proving its strong security and high quality and making it the most modern PKI platform available. Through Smart ID, ADTS also has access to flexible options for virtual smart cards to support mobile smart devices as well as high security physical smart cards.

The Smart ID Corporate PKI

platform is a flexible and scalable solution that ensures seamless configuration, customisation and migration. ADTS can control the full lifecycle of their trusted identities for multiple endpoints that include people, infrastructure and things.

"The digital economies are under severe pressure from cyber security threats and not a day goes by without us noticing the vulnerability of companies and organisations that handle information that is critical to society at large," states *Magnus Malmberg*, CEO at Nexus.

"Therefore, we at Nexus are proud to announce that a company



Magnus Malmberg, CEO at Nexus.

such as Airbus takes information security very seriously and invests in modern security infrastructure, especially during current commercial challenges due to the Covid-19 pandemic."

Eagle Eye Networks raises \$40m expansion funding

Amsterdam, The Netherlands

Eagle Eye Networks, a global leader in cloud video surveillance, has raised \$40 million of Series E funding from venture capital firm Accel to continue its growth.

Eagle Eye is leveraging artificial intelligence (AI) on its true cloud platform to dramatically reshape video surveillance and improve safety, security, operations, and customer service for businesses around the world.

Today's video surveillance systems have multiple security

features, such as motion detection and standard analytics. However, these systems require either monotonous monitoring or a meticulous manual review after each triggered event to extract useful information. Similarly, business operations analytics are still in early development.

"There is a tremendous opportunity to leverage AI and alter



Dean Drako, founder and CEO, Eagle Eye Networks.

the very nature of video surveillance.. Eagle Eye Networks now has the means and the technology to enable cloud video surveillance to transform how companies manage security and business operations, in the same

way self-driving electric cars are transforming transportation", said *Dean Drako*, founder and CEO of

Eagle Eye Networks

"Ultimately, smart cloud video surveillance with appropriate privacy and cyber security protections will make the world much safer, for example: detecting dangers such as weapons, erratic driving, active robberies, and traffic accidents. Furthermore," continued Drako, "it will help businesses provide better service by reducing wait lines, ensuring displays are organised and stores clean, and assuring product quality."

Milestone appoints new CEO

Copenhagen, Denmark

The Milestone Systems Board of Directors has appointed *Thomas Jensen* as Chief Executive Officer, and assumed the role on October 1, 2020.

With his background in Hewlett-Packard and most recently in Europe's largest IT integrator company Bechtle, Thomas Jensen is an executive leader with a strong global footprint that includes P&L responsibility for international businesses in software and hardware. He has deep business experience with IT and technology, and an understanding for the dynamics of business communities, technology partners

and integrators. People are at the core of Thomas Jensen's leadership philosophy, which resonates well with Milestone Systems' Scandinavian leadership values and People First approach to management.

Thomas Jensen said: "I am both humble and very proud to become part of Milestone Systems. Their strong focus on people was crucial to me when I accepted the position and I'm determined to continue with this as CEO. Combine this with Milestone Systems' influence in transforming how video technology is used, both in security and in new applications

beyond the industry, makes this a dream job for me."

Thomas Jensen joins Milestone from Bechtle, Europe's largest B2B IT service provider, where he was Executive Vice President and member of the Management Board.

Before this, he was Head of Worldwide Channel Sales Strategy for HP Inc. in Palo Alto, California, United States, where he drove the global channel development. During the separation of Hewlett-Packard into HP Inc. and Hewlett-Packard Enterprise, Thomas led the channel separation, and was responsible for preparing the new



Thomas Jensen will take up his new position of CEO at Milestone Systems at the beginning of October 2020.

strategy and organisation for the indirect revenue of HP Inc. Before moving to the United States, Thomas was General Manager for Hewlett-Packard's PC & Print Division in Denmark.

Pierre Racz, CEO; Genetec:

Face recognition works best when you need it the least

Genetec CEO Pierre Racz believes face recognition works best when you need it the least and therefore, it gives a false sense of security.

In this interview, he also says artificial intelligence does not exist and he gives his view on how Covid-19 will affect the security industry.

Pierre Racz founded Genetec in 1997 and has become one of the most influential persons in the security industry. He is also an outspoken person who has not been afraid of criticising the industry's use of the concept artificial intelligence.

He says: "Artificial intelligence does not exist. What you have is something that can do statistical reasoning, but statistical reasoning is not good at picking out things that happen rarely. What these technologies can give us is that they have removed very labour intensive parts of the job, which is extracting the important features from the picture, because the machine learning will figure out, on its very own, what are the features of the image that are useful."

“Facial recognition really works well when you are tracking innocent people.”

Face recognition has become somewhat a buzz in the physical security industry, but you remain sceptical about it?

"It is an example of a technology that works best when you need it the least. Facial recognition really works well when you are tracking innocent people. When you want to track a bad guy, the system works least well since they have counter measures. To use facial recognition as a credential for opening a door is probably one of the better applications because people at that point want their faces to be recognised. It is just that it is not a very safe credential. But as long as facial recognition is protecting something with not very big value, you are okay."

What impact do you think Covid-19 will have on the industry?

"It is going to affect the security industry as it is going to affect the whole planet. I think that we are all going to have a hard time – it will get worse before it gets better. What the security industry can do to be useful is to help our customers to be able to get through this situation as efficiently as possible."

How?

"It is very complicated to re-open shutdown businesses. So, what we are doing with Mission Control is we are trying to support our customers so that they can first of all share workflows to re-open the business. And when re-opening a business, you might want to put directional markers on the floor,

so when people walk around the quarters of a building, they will walk in a certain direction so they will not accidentally meet face to face. You would want to do things like we have done in Korea, every four hours they go and disinfect all the door handles, and they disinfect the buttons in the elevator. So, you want to decide which of these procedures you want to institute, and then you want to be able to make sure that these workflows are actually being followed. These are the type of things that our industry can do to help."

Will the pandemic increase the development towards Security-as-a-Service and more remote service?

"Well, this general trend was there

before. I think that the physical part of the business will not change, and in fact, if you look at some of the stuff in the news generally, the first responders, and the people who are on the front line are being hailed as heroes, so I think that our installers are going to be the heroes of the future."

There is an on-going discussion that covid-19 will speed up the digitalisation in general – will it affect the security industry in the same way?

"Yes, it will. For example, I have been working from home since the 1990's. And I remember a quote in the ninety's that said: how do you know people are working when they work from home? And the answer is: well, when they work at the office, how do you know that they are working? However, the bell curve on premises versus in the cloud will shift a little bit more towards the cloud, but it is not going to go all the way there because there are still things that cost money."

What about Covid-19 and privacy?

"There is a danger that authoritarian leader shallow thinkers will try to present us with the false dichotomy of choosing between health and privacy, but that is a false choice, you do not have to give up privacy

“I think that we are all going to have a hard time – it will get worse before it gets better.”

for more health. Germany has been doing something really good, a smart phone application that will be able to map out contact reports without violating privacy. We can do it, the liberal democracies can do it and my hope is two years down the road, we will be able to demonstrate that even though, liberal democracies are much noisier and decentralised and seemingly more chaotic than these totalitarian countries, that liberal democracies



Pierre Racz founded Genetec in 1997 and has become one of the most influential persons in the security industry.

will have actually gotten out of this better than the authoritarian states."

What do you see as the biggest trend now?

"There are a whole bunch of them. One is towards cyber security, strong multi-factor authorisation and zero trust architectures. Another is accountability and governance – there will be more accountability for the government and the information that is trusted to people, we see that with the GDPR. But there is also going to be accountability

for the stewardship of the infrastructure, if you let the bad guys launch an attack on your country because you were sloppy of how you configured your computing resources, you are going to be held accountable for that. I see there is also an architectural paradigm shift moving more towards hybrid computing architectures and more cloud mobility where it does not really matter if you run in the cloud or you run it on premises."

Innovative Vourity cloud access creates new revenue streams

Stockholm, Sweden

Innovative Swedish startup company, Vourity, is now launching a new access control system that is completely software-controlled and offers customers a way to activate and pay for only the functions they need, as and when they need them.

New features can easily be added or removed via the cloud. This enables property owners to easily offer customers and visitors the opportunity to buy access, services and products around the clock.

The main element of the access control system is the "all-in-one" door terminal Vourity POS 3. It handles both common access functions (tags and PIN codes) as well as various types of payment services. It is even certified for payment with regular credit cards and handles modern mobile payment methods such as Apple Pay, Google Pay and Swish.

"All functions in the terminal are dynamically controlled from the cloud, based on what needs you

have and the access system becomes better and more secure over time through ongoing software updates that are made automatically from the cloud", says *Hans Nottehed*, CTO at Vourity AB.

Core parts of the access control system are the functions for "paid access" where it is possible to charge for access to premises and resources. The idea is that, for example, property owners should be able to create additional revenue by selling new services and charging for them, for example, meeting rooms, event rooms, saunas, electrical vehicle charging, vending machines and renting out various resources, etc.

The payment is completely unattended (self-service) and is

therefore well adapted for times of social distancing and where customers and visitors may need the ability to purchase access, services and products around the clock.

"Paid access can thus create completely new sources of income for property owners and the access system can become a source of income instead of just being a cost", says Hans Nottehed.

Door terminals are controlled via the cloud, where the user easily selects functions and which messages are to be displayed using a graphical flow diagram. The flow chart then controls how the door terminals work and what information is displayed to users and visitors. There are ready-made flow templates for the most common use cases, such as when staff have to pass with an RFID tag and / or PIN code, meeting rooms (booking and payment), electrical vehicle charging, public / customer restrooms, car wash, booking of



The Vourity POS 3 door terminal handles both common access functions (tags and PIN codes) as well as various types of payment services.

laundry, entrance to amusement parks, camping and guest harbours and much more.

"The flow can control the opening of doors, turnstiles, speed gates, take in sensor signals, take in signals from fire alarms to show information about evacuation in the displays at all door terminals, play sound / speech, show advertising, integrate with alarm systems and much more", says Hans Nottehed.

All the information can also be presented in several languages.

"This is a flexible access control system as a service where you only pay for the functions you use and where the system actually gets better with time", Hans Nottehed concludes.



Civintec: HTTP touch screen reader to identify QR codes and a new OLED multi factor access control reader

Hong Kong, China

Civintec has recently released the latest software version of its *Crystal Touch*, adding new features including scanning of QR codes for visitor identification.

The *Crystal Touch*, CT9, generates dynamic QR codes for advanced visitor access security. This feature is also available to authorise a visitor with their allocated valid access time or for a preset duration.

CT9 is designed with a stylish and modern Linux based 3.5" touch screen reader incorporating TCP/IP Ethernet HTTP for both LAN and internet cloud server softwares with relay control for both online server real-time moni-

tor and standalone access control solution. The CT9 supports RF dual 125KHz & 13.56MHz contactless smart cards, and functions with NFC/BLE/QR code mobile phone access ID and Pincodes.

Furthermore Civintec launches an Oled multi factor access control reader.

For access control systems supporting an OSDP secure channel, a credential transaction can be securely AES 128 encrypted during the card reading and transmitting process between the reader and the access control system.

In addition to traditional radio frequency technologies such as 13,56MHz and 125KHz, BLE 5.0



The Crystal Touch, CT9, generates dynamic QR codes for advanced visitor access security

and SAM AV2 are also supported. This combination makes the product flexible for all kind of security applications and future technology requirements applicable for the security industry. The LED symbol indicates in combination with display text and a buzzer sounds user-friendly and clear information



Civintec's latest Crystal keypad incorporates several chip technology and communication interface standards.

in real time for the user.

The Crystal keypad is tamper protected with a mechanical switch which allows for indication of both attempts to break it away and manipulation of the reader.



Business & Product News – Every Day!

www.securityworldmarket.com

TBS introduces new biometric workforce management solution

Pfaffikon, Switzerland

TBS is introducing the 2D Time, a fingerprint recognition device with a large screen for workforce management and time and attendance applications.

Touchless Biometric Systems (TBS) has carefully created a solution to address the versatile needs of attendance and workforce management. The TBS 2D Time fits in with the already traditional market desire of combining sleek design, comfortable interface and accuracy, a trait that TBS identifies with in the world of biometric solutions.

TBS 2D Time incorporates various technical features that make the device adaptable to many applications and different settings. The large screen (9") highlights the importance of a comfortable and spacious interface from the user's perspective. This feature allows the presence of several custom touch-screen buttons that give a variety of attendance status, triggering events, surveys or other actions.

On the connectivity side, several options are possible with in-built capabilities to connect to a single or widely distributed network via LAN, WLAN and 4G. Via TBS Biomanager, the device offers several opportunities to connect to 3rd party software applications.

User authentication can also be explored



TBS 2D Time incorporates various technical features that make the device adaptable to many applications and different settings.

thanks to its combination of biometric, PIN and RFID which, together with the TBS Biomanager software, can be further customised at an individual level. The software allows for very precise reporting, offering valuable data for a wide range of analytical tools.

Time & attendance and workforce management

The two most immediate use cases for this device are time and attendance and workforce management.

User authentication can also be used to identify users with a specific set of certifications. Timestamp recording allows for a transparent way to track extra-hours and give accurate data to payroll systems. A biometric credential can also be used as a form of esignature for person-based authorisation to access resources, like machinery in fabrication.

The device enables intelligent functions for a smart building as it permits connectivity with other machines and systems. Interactivity with staff, customer loyalty and POS solutions can easily be put in place thanks to the vast customisation features of the screen. As a result, organisations become more flexible, more efficient and more responsive in managing their human resources.  

All in one-reader from Stid

Greasque, France

The French access control company **Stid** has launched Architect Blue. This combined RFID, NFC and Bluetooth reader has a QR code module to simplify all temporary access control applications.

The Architect QR Code access control offers convenience to temporary visitors and is fully integrated into the global security organisation. It improves the efficiency of visitor management for the building/security manager. The QR Code module is designed to ensure successful identification in all conditions (full sunlight, reflections, etc.).

The QR Code module can be retrofitted to any existing compatible Architect reader.

The multi-technology Architect Blue range makes it easy to manage extensions, upgrades and technology migrations.

- QR Code: Multiple formats supported (1D & 2D Codes): QR Code, code 128, Aztec and Datamatrix. QR Codes can be generated by existing systems/software and used in paper format or directly on the smartphone

(email, virtual cards, etc.)

- Bluetooth, low energy and NFC. The smartphone becomes the access key by eliminating the constraints of traditional access control. The user can choose their favorite identification mode and make their access options both secure and much more instinctive.

- RFID, Mifare, Desfire and EV2: The reader supports the latest contactless Mifare Desfire, EV2 chips with new data securisation systems: Secure Messaging EV2.

Stid emphasise also that the Architect series are compatible with all access control systems.



The French access control company Stid has launched Architect Blue.



 The suppliers web site is linked to the global security web portal, www.securityworldmarket.com

 For more info about the products, contact the suppliers directly by looking in the Security Buyers Guide on page 41

ASSA ABLOY
Opening Solutions

eCLIQ:

The key to electronic locking



eCLIQ is a durable and secure electronic locking system utilizing web-based software

campaigns.

assaabloyopeningsolutions.eu/ecliq

Experience a safer
and more open world

Latest Milestone upgrade facilitates smarter searches

Copenhagen, Denmark

With the latest update of *Milestone Xprotect video management software* (VMS), 2020 R2, **Milestone Systems** offers three new search categories and improved geographical awareness.

Searching for evidence is one of the core missions of video management operations but it can sometimes become a time-consuming task. With Xprotect the ambition is to enable users to work smarter by allowing them to spend less time searching and more time finding.

This ambition led Milestone Systems to introduce a new centralised Search framework in the 2019 R3 software update. The Search framework enables users to search for motion, alarms, events, bookmarks and other types of

data, in one single place making it quicker, easier, and more efficient to find specific video sequences. With the 2020 R1 update, the centralised Search framework was expanded to include license plate recognition searches.

Now, in the 2020 R2 update, the Search framework is extended once again, to include three new Search categories allowing users to search through ONVIF compliant metadata. This means that users can now also target their searches by searching for people/humans, vehicles and location. This provides users with more filtering options to work smarter and find what they are looking for fast, easy and targeted.

“With the extended centralised Search framework, our customers

will spend less time on searching and more time on finding. The new Search categories work out of the box and support any device generating ONVIF-compliant metadata. This is another important benefit of the Open Platform proposition,” says *Jesper Just Jensen*, Vice President Products, Milestone Systems.

Often large-scale installations make use of multi-layered maps in their video operations to create a visual overview of for example camera placements and incoming alarms. With the 2020 R2 update it is possible to visualise the centralised Search results on a Smart Map, ensuring that the operator immediately understands where the potential incident is happening. This capability ensures



The 2020 R2 update, includes three new Search categories allowing users to search through ONVIF compliant metadata.

complete situational awareness and enables the operator to make fast and evidence-based decisions.

The 2020 R2 release contains many more new and improved features and capabilities such as direct streaming, improved security, a new Server Configurator, new device packs and improvements to the Customer Dashboard. 

Videx enhances Miaccess portfolio

London, UK

Videx has introduced a new handle for its range of Miaccess proximity readers. The *HL1000-MF* provides an ideal access control solution for small to mid-sized installations including offices, guest houses, industrial units and schools.

The Mifare proximity handle can be used as a standalone unit or as part of a system including Miaccess readers and other accessories, such as the AL500-MF handle.

It's very easy to install and use too; all you need is the handle, a PC and a USB desk reader for programming alongside the user's cards or fobs. User cards and fobs

are programmed at the PC and then issued to the users without the need to visit the site or development to programme anything further; saving time and cost because no wiring connections or power supply are required.

Fobs are also available in a range of colours to further simplify the management of the system. It is compatible with both the Proa MS and Proh MS Miaccess software, where programming, configuration settings and event logs of the built-in reader can be transferred between the PC and the reader. This is carried out via the micro-USB or with program-

ming cards where the programming information is transferred from the card to the reader. User cards can be created via the software with the Prox-USB desktop enrolment reader where access rights can be registered directly onto each corresponding card.

The battery powered handle can be used internally or externally and has a robust stainless-steel body and handle. It also includes a dead lock with a key override facility to the secure side and thumb turn release for the inside. Two override keys are included. It can be used on up to a maximum of 80 doors, has an unlimited user



The HL1000 MF handle can be used as a standalone unit or as part of a system.

capacity and up to 3,500 events can be logged. There are four variants of the handle which can be used for inward or outward opening doors and doors which open to the right or the left.

The handle is powered by 4x standard AA batteries giving on average 60,000 opening cycles. 

New body worn camera with field swappable battery

Rolling Meadows, IL (USA)

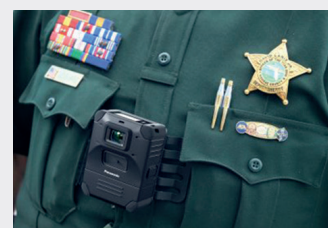
The *BWC4000*, body-worn camera featuring a unique 12-hour field-swappable battery.

The BWC4000 provides law enforcement and security officers with extended camera operation without having to deal with cumbersome charging cables. All they need to do is quickly and easily swap a discharged battery with a charged replacement if they remain in the

field for more than 12 hours.

The new I-Pro BWC4000 also features the ability to quickly tag videos with essential metadata using an easy-to-use LCD menu; MP4 file recording; H.264/H.265 video compression to maximize recording capacity; and 1080p, 720p or 360p HD resolution in either the 16:9 or 4:3 aspect ratio. For use in harsh conditions, the new BWC4000 is

built to the demanding MIL-STD 810H military testing standard with an IP67 weather-resistant rating. For added deployment versatility, the new BWC4000 also offers built-in GPS, Wifi and Bluetooth, and seamless integration with I-Pro's Unified Digital Evidence management software. It also works in unison with the Arbitrator in-car video systems and I-Pro's fixed-surveillance



cameras to form a unified evidence management platform that preserves the chain of custody.

New Face Station F2 combines visual and IR face recognition

Seoul, Korea

The Suprema Facestation F2 Fusion Multimodal terminal is a biometric solution designed to deliver high authentication accuracy and anti-spoofing performance by the fusion of visual and infrared face recognition technology.

The Facestation F2 can also be combined with the Suprema thermal camera to detect users with high skin temperature, and features mask detection capabilities to help prevent the spread of infectious viruses such as Covid-19.

The Facestation F2 Fusion Multimodal terminal optimises IR and visual face recognition designed to provide exceptional authentication results, achieving extremely low false acceptance rate

(FAR) of 1 in 10 billion. Facestation F2's unique deep-learning fusion algorithm provides effective face recognition and anti-spoofing performance, regardless of user ethnicity and face changes. The innovative multimodal solution offers various means of authentication including contactless facial recognition, mobile credential, fingerprint and card. The new Fusion Multimodal terminal also supports access-on-card feature that enables identification with

biometric data saved on cards. With massive memory capacity, Facestation F2 can register up to 100,000 users' fingerprints or 50,000 users' face data.

To meet the increasing global demand for hygiene safety and protection, Facestation F2 can be combined with Suprema's thermal camera to detect and identify individuals with elevated skin temperature. The unit's on-board analytics can also automatically screen



Facestation F2 also offers remote enrollment that allows user registration by uploading profile photos, reducing physical contact, and improving convenience and safety.

and notify when an individual is not wearing a mask in areas where facial masks are mandatory. This screening feature can be used in conjunction with face recognition as Facestation F2 is able to recognise faces with masks without sacrificing accuracy. Facestation F2 also offers remote enrollment that allows user registration by uploading profile photos, reducing physical contact, and improving convenience and safety.

The new Facestation F2 is built on the highly secure Android platform and encrypts all biometric credentials to help best protect individual's personal information from cyber theft.

swm

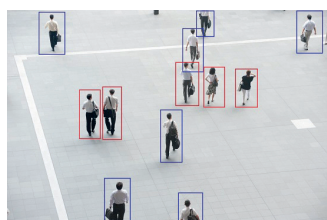
Hanwha adds AI based social distancing app

Chertsey, Surrey (UK)

Hanwha Techwin has launched an AI deep learning based video analytics Social Distance Measuring application which, in a Covid-19 affected world, is designed to help businesses implement their social distancing policies.

Developed by A.I Tech, Hanwha Techwin's award winning technology partner, the server based Social Distance Measuring application is able to accurately measure the distance between people in a camera's field of view and will generate an alarm if social distancing rules are not being complied with. Users can also be alerted if the number of people within an area exceeds a specified threshold.

Compatible with all Wisenet cameras, the application has been developed for use in workplaces,



The server based Social Distance Measuring application is able to accurately measure the distance between people in a camera's field of view and will generate an alarm if social distancing rules are not being complied with.

such as offices and factories, as well as a wide range of other indoor locations including art galleries, museums and places of worship.

The Social Distance Measuring application performs equally well in outdoor environments and offers a highly effective social

distancing implementation tool for public transport environments and in city centres where local authorities are looking to monitor and manage the crowds which may gather in popular locations.

The application has been integrated with Wisenet Wave video management software (VMS), with users having the option to use web-based AI Tech dashboard to collect, aggregate, view and act on alarms and events from multiple camera streams. The data can also be visualised through charts, tables and images, whilst data is easily exported through .csv, .jpeg or .pdf and integrated into third-party systems. The dashboard is fully customisable to meet individual user's operational requirements and is accessed via a PC, smartphone or tablet.

"In our 'new normal' world, there are countless businesses who wish to give their colleagues, customers and visitors confidence that the need for a safe distance between them, is being respected," said Uri Guterman, Head of Product & Marketing for Hanwha Techwin Europe.

"The Social Distance Measuring application will help them do so and as such, perfectly complements the capabilities of our licence-free Occupancy Monitoring solution which is designed to be installed at entrances and accurately counts the number of people entering or leaving a building. Both are part of a suite of Covid-19 related solutions offered by Hanwha Techwin, which also includes a Face Mask Detection application."

swm

swm The suppliers web site is linked to the global security web portal, www.securityworldmarket.com

Business & Product News – Every Day!

www.securityworldmarket.com

Raytec upgrades Vario2 illuminator series

Ashington, Northumberland (UK)

Raytec has upgraded and added new features to the company's series of *Vario2 IP PoE illuminators*. During setup, each individual lamp is now automatically assigned a random IP address. This ensures lamps never become 'lost' during setup and increases the ease and speed of commissioning.

Combined with Discoman, Raytec's new discovery and management tool setup and access of Vario2 IP PoE illuminators has never been easier. Accessed via the integrated web interface, lifetime diagnostics are now also available to provide information about the lamp's usage and history, such as

the max voltage input and total illuminator on-time since being installed.

Furthermore Vario2 IP PoE offers greater diagnostic functionality for those using the illuminators as part of a third-party system. Fault triggering is now available which allows the user to detect faults using the external output. As well as enabling the user to monitor the illuminator's input voltage status, it can also be used to identify any LED faults or power outs.

With high levels of security being paramount for many applications, Raytec has established higher levels of security through stricter

access control and the availability of a secondary access port. Stricter access control means that Vario2 IP PoE means now, even before being able to access the integrated web interface, the user is forced to change the password. This means the user is no longer able to use a default password to set up the lamp and ensures a greater level of site security.

Access via a secondary HTTP Port is now available with Vario2 IP PoE. The standard Port 80 can be disabled, and the lamp accessed via a secondary HTTP port. With generic webpages normally hosted on Port 80, having a secondary access



Raytec has upgraded and added new features to the company's series of Vario2 IP PoE illuminators.

port increases the overall security of the lamp, decreasing the risk of the lamp being hacked. The secondary port also makes Vario2 IP PoE an ideal solution for applications where port 80 has been blocked for greater system security. 

Axis launches 3D people counter for challenging scenarios

Lund, Sweden

Axis Communications is launching the *Axis P8815-2 3D People Counter* that combines 3D imaging software and hardware in one device to provide real-time counting of people passing through a pre-defined area.

From retail stores to museums, the data can provide insights into visitor trends that can help businesses optimise their operations.

The Axis P8815-2 uses images delivered by two sensors to generate a 3D depth map that strengthens the people counting accuracy. It is ideal for challenging environments where there are shadows, strong sunlight, glares, or high volumes of foot traffic. It is especially useful in areas with revolving doors or unconventional entrances. It is possible to connect two counters for

wide entrances. And with optional accessories, it can be pendant-mounted or recessed in a ceiling.

The 3D imaging allows the counter to sense the size and height of moving objects, enabling higher objects (people) to be distinguished from lower objects – so the counter avoids counting things like carts, strollers and shadows.

The Axis P8815-2 comes with

preloaded and pre-calibrated software, so installation is quick and easy.

Optimised for challenging conditions the Axis P8815-2 provides a flexible counting area allowing users to gain insights into visitor trends, for example.

The Axis P8815-2 is available through Axis distribution channels in all regions except the Americas. 

Vanderbilt launches cloud-based credential platform

Wiesbaden, Germany

V Credential is a cloud-based credential management platform that offers users the ability to create and manage Bluetooth credentials independent of the access control platform. Its key benefit focuses on intuitive usability and the opportunity to benefit from the latest industry technology trends.

"V Credential clearly expands our footing in this market following our successful Bluetooth reader launch last year. Now, our BLE readers no longer only support our award-winning ACT Enterprise system. Instead, thanks to the V Credential platform, they

support all Vanderbilt systems. This includes Omnis, ACT365, SPC, as well as multiple third-party partner systems," explains *Nadine Frost*, Senior Product Manager at Vanderbilt International.

The benefits of Bluetooth have always been convenience and ease-of-use. Following a global pandemic, they have never been more apparent or needed. This is the take of Ross Wilks, Head of Marketing Communications at Vanderbilt International.

"For example, smartphone credentials are time and cost-effective alternatives to managing

physical credentials," said Wilks. "Their convenience is that they enable mobile phones to be used just like a traditional access control card or tag. Moreover, the creation and management of Bluetooth credentials can be carried out by the administrator directly in the cloud-based V Credential management platform for easy management."

"Why we feel so strongly about this market approach is because by introducing Bluetooth readers into existing systems, it reduces the total cost of ownership. This is because it extends the life of the existing system controller and hardware,



V Credential key benefits focus on intuitive usability and the opportunity to leverage the latest industry technology trends.

allowing a smooth migration to mobile credentials. This benefits everyone." 

The access control you demand, the flexibility you need

ASSA ABLOY
Opening Solutions

New Incedo™ Business

The future-proof platform you scale up and down whenever you need.
All your security hardware and software on one control panel.
Incedo keeps everyone moving. Together



Download a free introductory guide

campaigns.assaabloyopeningsolutions.eu/incedo-business

Experience a safer
and more open world



The role of security products in the IoT society

Today, people expect connectivity and convenience everywhere – and with IoT it can be realised. But what role do security products play in the fast-growing IoT society? Detektor has talked to some industry professionals to find out more.

By Henrik Söderlund

Thomas Schulz, EMEA Product Marketing Director, at Assa Abloy Opening Solutions, claims that with ongoing rapid urbanisation and the accelerating adoption of technology, we are seeing people's daily security and access management routines change in a way that enables them to keep moving freely yet securely. He believes the next step for access control is comprehensive integration of and with building systems, including an increasing number of IoT devices.

"According to our "Wireless Access Control Report", around 90 per cent of security procurement experts say interoperability has become more important over the last five years and this will continue, without doubt," he says.

Deliver added values

Jack Lyu, Product Manager of Intelligent Building, Overseas Business Center, Dahua Technology, points out that a traditional building intercom system has security as its main purpose, but in the fast developing IoT society, wireless technologies like Zigbee, Z-wave, etc., intercom devices gradually integrate with peripheral detectors, including light, curtain, audio, home appliances, etc.

"This means in addition to security, video intercom can deliver added values such as better convenience and a smarter home", Jack Lyu says.

Jaroslav Barton, Director of Product Marketing, Physical Access Control, HID Global, says

IoT can make buildings smarter and more secure.

"But ironically, the enormous upside to a robust IoT ecosystem is part of the problem when it comes to security. The broad IoT

network has a lot of access points and vulnerabilities, so any IoT device or system needs security and access control, just like the buildings and IT networks themselves have always done", he says.

Jaroslav Barton refers to a high-profile example of a North American casino, where a fish tank's internet-enabled thermometer was the point of entry for a devastating hack. Accessing the casino's network through the thermometer, hackers were able to lift 10 gigabytes of info, including sensitive data on high-roller clients. Jaroslav Barton says: "The potential benefits of IoT are huge, so that is why it is important to set it up correctly with the right security in mind, keeping devices properly patched and updated and taking steps to increase visibility".

Face recognition on the rise

How has the pandemic affected the shift towards IoT and smart buildings and cities?

James McHale, founder and CEO of the market research company Memoori, believes it is too early to tell, but the general consensus is that there will be a more hybrid approach towards office work. He says: "Let us say companies will decide employees can work from home two days a week. That is a 40 per cent reduction in occupancy, and I would say that will definitely have an implication of how much space companies require. And they may never want to go back because they will be saving money", he says.

Jack Lyu stresses that with the outbreak of the Covid-19 pandemic, touchless access with face recognition is gaining popularity, especially products that combine



Photo: Tumisu, Pixabay

Today, people expect connectivity and convenience everywhere – and with IoT it can be realised.

temperature measurement and touchless access control. He says: "These products are speeding up the popularisation of face recognition in smart building solutions."

He points out that traditional verification methods are mostly using cards, passwords, etc., although biometric technologies such as face recognition and fingerprints recognition have been around for many years and various manufacturers have also promoted them, but it is still difficult to realise mass popularisation in many traditional overseas markets, as privacy and security are still a major user concern. The question is whether the pandemic can change this.

Technology for safe workplaces

Jaroslav Barton stresses that the pandemic is a driver for digital transformation across many industries and technologies. And as the world prepares to reopen after a long shutdown as a result of the Covid-19 pandemic, employers are now faced with how they can enable a safe return to work for their employees. For example, by risk assessment, redesigning workspaces to maintain social distances, car-

rying out more frequent cleaning, managing the transmission risk and finding alternatives to touch-based security devices. There is an increased desire from organisations to implement technology solutions to tackle the challenges that arise from getting people back into buildings safely. He says: "We've seen an increase in requests for a contactless experience in secure workplace access, including automatic doors and turnstiles, contactless cards and mobile access. Contactless technologies can help enforce social distancing and reduce touchpoints on common surfaces like taps, doorknobs, kitchen areas, etc."

HID are also providing organisations with contact tracing tools. Using beacons and a cloud-based software-as-a-service, the system records when two beacons are signalling from the same zone, which indicates contact between employees. The system records – historically and forensically – who was near whom (and for how long) and if someone then gets ill, organisations will know if they need to close off a certain area for deep cleaning rather than quarantining a whole building.

How security technology can add value in smart buildings

Security solutions and access control are increasingly being used for non-security applications in buildings.

“Security products or solutions that can only provide “monitoring” functions are becoming less and less popular, because people need more”, says Jack Lyu, Product Manager of Intelligent Building, Overseas Business Center, Dahua Technology.

By Henrik Söderlund

James McHale, founder and CEO of the market research company Memoori believes the security industry is not grabbing the opportunity as forcefully as it could when it comes to smart buildings. He says: “Security has to a large extent remained a grudge purchase. It is not something that make people excited. It has been considered as something that has to be done to ensure the ability to collect evidence if something happens. It is not directly impacting the bottom line, but IoT gives the opportunity to become more involved in the business process in the enterprise.”

He also stresses that a security manager’s job is not to think about business opportunities, so there is no strong incentive to use video surveillance, access control and the like for other things than security.

“They need to get their heads around that and they need to think about how they can sell into different areas of the business. That is how it can develop”, James McHale says.

Effective streamlining

Thomas Schulz, EMEA Product Marketing Director, at Assa Abloy Opening Solutions, says that the technology to power security and access control for the next generation of smart buildings and cities is here.

“Intelligent data capture, real-time (or near real-time) analysis and automation will power the buildings of the future. Therefore, wireless, connected, digital door locks will join a web of around 200 billion IoT objects globally. For example, many building systems are used in parallel on a daily

basis, often creating unnecessary, duplicated administrator workload across platforms. Connected, interoperable systems which constantly communicate with each other will make this process more efficient. They eliminate redundancy”, he says.

Schulz also stresses linking access control devices to other security and building management solutions, such as CCTV or energy management, pushes data between silos which can be analysed further and then prompt actions relevant to overall building management.

He says: “On the most basic level, when the access system knows you are present and (approximately) where you are, functions which vary with occupancy like energy use can adjust automatically. Genuinely flexible access technologies offer rapid scalability, so that when business needs change, security is able to adapt or grow to meet new demands.”

Demand for more functions

Jack Lyu from Dahua Technology, stresses that security scenarios have become more demanding than ever. He says: “Security products or solutions that can only provide “monitoring” functions are becoming less and less popular, because people need more”.

Therefore, the market turns towards products that feature multiple functions.

Jaroslav Barton, Director of Product Marketing, Physical Access Control, HID Global, believes blending access control with mobile and cloud technologies enables many new connected-workplace experiences. He says: “It



James McHale, founder and CEO of the market research company Memoori.



Thomas Schulz, EMEA Product Marketing Director, at Assa Abloy Opening Solutions.



Jack Lyu, Product Manager of Intelligent Building, Overseas Business Center at Dahua Technology.



Jaroslav Barton, Director of Product Marketing, Physical Access Control, HID Global.

establishes a common understanding of trusted identities so that organisations can define who individuals are and what benefits they are authorised to receive. Today’s solutions can incorporate everything needed to connect to and interact with a building’s other security systems, services and enterprise applications. They also boost building security and performance while giving users the same kind of digital experiences in the workplace as they enjoy at home”.

He also says occupancy management is one of the main deliverables enabled by IoT. It allows organisations to know when employees and visitors enter or exit the building, easily understand occupancy of the building, at floor or room level, set up virtual security zones and automated alerts or alarms for violations, and locate building occupants in the event of an emergency.

Reduced costs

How can security technology offer other functions that add value for the customers? Thomas Schulz

believes access control devices can make a significant contribution to an organisation’s energy efficiency. He says: “Estimates state that commercial buildings currently waste up to half of the energy they consume. Smarter energy management can help to minimise the waste. Access control plays a pivotal role here, because if your building management system knows who is present, it can modify heating or cooling systems automatically. This optimises comfort for occupants, while reducing energy consumption (and therefore costs).”

Jack Lyu stresses that the development of face recognition access control technology brings more added value: higher efficiency with touchless access, less companies’ management costs, and additionally, face recognition solves the problem of users forgetting their password or forgetting to take their card when leaving, delivering great convenience.

He says: “In addition, replacing physical cards with face recognition also saves user expense in the long run”.

Robert Jansson, Stid:

"Open and GDPR-safe technology is the way forward in the age of IoT"

The French company Stid is one of the world's largest manufacturers of non-contact readers for access control. The company's technology is based on an open platform and designed to meet the requirements of today's GDPR regulations.

"Stid is the first manufacturer in the access control market to have component certification by an EU government organisation ANSSI", states Robert Jansson, sales director for Stid in the Nordic region and in Eastern Europe.

As we are heading towards smart buildings and smart cities, the importance of secure and reliable identities has become obvious to everyone. Fully functional identity management and access control solutions are crucial for the success of emerging IoT projects.

"That is very true. Secured identification is the core of all smart buildings or smart cities. Everyone and everything needs to have an identity that can be trusted by the systems of the buildings or the cities," states Robert Jansson, who also emphasises the value of using open technology and GDPR-secured solutions.

USP 1: Open technology

Stid is one of the world's largest manufacturers of non-contact readers for access control for both people and vehicles. Stid has delivered over a million readers used by over 100 million users. With its open technology approach Stid expects the growth to continue.

"Many markets in Europe have been heavily dominated by local manufacturers and brands offering proprietary technology. It means that the same manufacturers have delivered all parts of the system, including the readers. This has made it more difficult to establish international brands like Stid," explains Robert Jansson.

The ongoing digitalisation, and today's increasing needs for access control solutions offering scalability and simple technology integra-

tion, are all factors that contribute to the rising demands for open systems. And this development suits Stid like a glove.

"Not only do we offer one of the market's widest ranges, but our non-contact readers are also based on open technology that is compatible with all access control systems via the use of approved security algorithms and interoperable

Everyone and everything needs to have an identity that can be trusted by the systems of the buildings or the cities."

communication technology such as RFID, NFC, HCE and Bluetooth. Our philosophy is that Stid's secured quality readers should be able to be used by everyone," comments Robert Jansson.

USP 2: GDPR-secured technology

The implementation of GDPR in the EU is of course another strong growth factor for Stid due to the accomplishment of receiving the ANSSI product certification. But what does that mean?

"GDPR tells us what we are not allowed to do, but not how to do it. Now there is ANSSI, a European standard that actually does that. It covers everything that has to do with how the flow of identities can be secured in systems, whether it is for access control systems or PKI," states Robert Jansson.



Stids non-contact readers are based on open technology that is compatible with all access control systems via the use of approved security algorithms and interoperable communication technology such as RFID, NFC, HCE and Bluetooth.

"The ANSSI standard helps customers to GDPR-secure their systems – and above all – their identities, so that they can avoid large fines due to theft and misuse of these," he adds further.

This is how ANSSI is measured

The ANSSI norm can be divided into different levels, beginning with the access control system components: the sub-central, the

"It feels very good to work with a brand with as much emphasis on security and openness as Stid does", says Robert Jansson.

He also enjoys the fact that Stid sticks to a simple product-oriented business model.

"We only charge for the hardware. We have no intention of terminating the service and charging license fees. Although the trend is towards charging for services, we will focus on producing really good readers that our partners can then use in their service businesses", he says.

Always tested products

Stid emphasises security and quality, and tests all its products for different classifications according to existing accepted international standards. The tests cover all kinds of issues, such as the manufactured units' resistance to weather or to physical attacks, but also other aspects, such as communication.

Against this background it is not surprising that Stid also became the first access control manufacturer in the access control market to have the ANSSI-certification for the GDPR-readiness of their products called CSPN. This quality confirmation is very important, according to Robert Jansson.

"GDPR-safe access control is very viable. Both in the Nordic countries and in Eastern Europe, which are my markets, open and GDPR secured technology is the way forward in the age of IoT," he concludes.

Deep-in-Business

Creating More Attentive Healthcare

*We provide Modular AI Applications for
assisted living facilities & nursing homes:*

- Fall Detection
- Queue Management
- List Notification
- ANPR
- Perimeter Protection
- Illegal Parking Detection



Hikvision Headquarters

T +86 571 88075998
overseasbusiness@hikvision.com



@HikvisionHQ



@HikvisionHQ



@Hikvision

www.hikvision.com

The future of access management: seamless and scalable

Building administrators want a single solution which unites all the functions relevant to them: access, locking, CCTV, energy management and everything else into a single, flexible software environment, stresses **Stephanie Ordan**, VP Digital and Access Solutions at Assa Abloy Opening Solutions EMEA. She also believes the recently launched Incedo platform-based access management solution will meet the changing landscape of access control.

Stephanie Ordan believes the access control market is on the brink of significant change. She says: "In fact, change beyond access control. It is becoming ever less useful, from a forward-looking perspective, to talk about building management functions in isolation. Rapid urbanisation and technological change mean systems are being used simultaneously, every day, and often with unnecessary duplicated administrator workload across platforms."

She stresses that Assa Abloy's challenge is to develop solutions which create a seamless experience for security managers and building users.

How would you define a smart building that provides a seamless experience?

"A smart building needs an ecosystem where data flows in every direction. Intelligent analytics track use, the environment and more data points to make better, automated decisions in real time. The way we live, work and move continually evolves. At Assa Abloy Opening Solutions EMEA, we understand that when it comes to securing your doors and spaces, adapting to diversity is everything. Flexibility and simple scalability allow security and other building functions to facilitate the changing ways we move in and through buildings."

What are the benefits with smart buildings?

"Smarter buildings deliver many concrete benefits. For example,

commercial buildings currently waste up to half of their energy consumption. Smart energy management can help to minimise this waste. Access control has a role here, because if your building management system knows who is present, it can modify heating or cooling systems automatically. This optimises the thermal comfort for occupants, while reducing energy consumption, cost and overall carbon footprint. This only happens when your systems are joined up. The European Council for an Energy Efficient Economy estimate smart building technology will reduce energy use by at least 15 per cent. Automated controls and smart software are the key ingredients."

Integration has been a growing trend in access control and security over many years.

"At Assa Abloy, we have long

Intelligent analytics track use, the environment and more data points to make better, automated decisions in real time."

pioneered the benefits of integration. Our award-winning Aperio wireless locking technology, for example, is integrated with access control systems from over 100 different manufacturers. The next generation of buildings demand we take another big leap forward. Across multiple industries, leaders identify "ecosystems" as the main driver of change for their existing business models. Security is no different."



Stephanie Ordan, VP Digital and Access Solutions at Assa Abloy Opening Solutions EMEA, stresses a smart building needs an ecosystem where data flows in every direction.

What do the customers demand?

"Building administrators want a single solution, available everywhere, which unites all the functions relevant to them: access, locking, CCTV, energy management and everything else into a single, powerful, flexible software environment. The latest access control software report from Omdia Technology says

building. It is modular, making it flexible and easily scalable — in any direction. You pick the most suitable options from a growing range of Incedo-enabled security and access control hardware. Assa Abloy wireless digital locks and wired wall readers secure interior and exterior doors. Also, already available, a choice of card and token credentials helps users enjoy safe and convenient access to, and movement around, your premises. Incedo mobile keys let you open doors securely with a smartphone. Incedo's system management options — Lite, Plus and Cloud — run from entry level up to cloud-based administration. You can manage multiple sites and third-party integrations, including CCTV, when these options become available. Scale up and down, add or remove hardware and credentials on demand — or switch system management options — all within your single environment. Migration between Lite, Plus and Cloud options is always seamless in any direction, ensuring flexibility and peace of mind."

access control software will play a critical role for future innovation. Our new Incedo ecosystem is the logical step and its first iteration for commercial businesses is called Incedo Business."

How does the new system work?

"Incedo is an ecosystem, based on a true platform. This will be the place where you combine and manage all the electronic security devices and systems within your



**NEVER
OBSOLETE
NEVER
OUTDATED**

ARCHITECT®



**Invest in an access control Reader
that meets the needs of today
and tomorrow.**

Architect® High Security Readers are modular and offer real alternatives to updating your access control system.

Architect® Readers can evolve by simply adding Biometric, QR-Code and Multi-technology Prox Modules to meet your everyday demand for functionality and safety.

Architect® Readers are the most efficient and reliable readers in the security marketplace, making them the most awarded range worldwide.

WE'VE GOT YOUR BACK



Hikvision:

Cameras can protect the elderly with intelligent fall detection

For an elderly or vulnerable person, falling over can have serious health consequences. “Thanks to the latest AI-powered cameras, fall detection is being improved within care organisations around the world: saving valuable time, and helping to save lives”, says Max Fang, Director of CCTV Products at Hikvision.

When we start to walk as babies, falling over is a natural part of the learning process. But as we age, falling becomes more serious – and for some, it can be fatal.

A huge problem

According to the World Health Organisation, falls are the second leading cause of accidental death anywhere in the world. And for the elderly, the risks associated with falling are especially high. Research from the US reveals that more than one in four people aged 65 and above fall over every year, and a fifth of those falls results in a serious injury such as a hip fracture or a head injury. Importantly, falling just one time will double someone's chances of falling again.

The challenges of traditional fall detection

So, for those organisations tasked with caring for elderly or vulnerable people – such as hospitals, care homes, and retirement communities – steps must be taken to prevent falls, and to deal with those that do happen as quickly as possible.

According to Hikvision, the problem is, current fall monitoring methods still leave vulnerable people at risk.

“The simplest way to find out if someone has fallen is to sched-

ule regular visits to check in on them. But this is labour-intensive, and not necessarily effective, as someone could remain fallen and hurt for some time before they are discovered”, says Max Fang.

He stresses, over recent years, elderly and vulnerable people have used personal pendant alarms, which require them to press a button to alert someone when they have fallen over. But these devices have several limitations. Max Fang says: “For a start, individuals must choose to put them on, and then leave them on – something that is especially challenging for people with conditions affecting memory, such as dementia. The devices must also be fully charged, or have their batteries regularly changed to keep them working. And of course, wearers must then press the button to raise the alarm when they have fallen over. But what happens if they are unable to move, or rendered unconscious?”

Fall Detection cameras: always on, instant alerts

According to Hikvision, to provide continuous, reliable fall detection and monitoring, more forward-

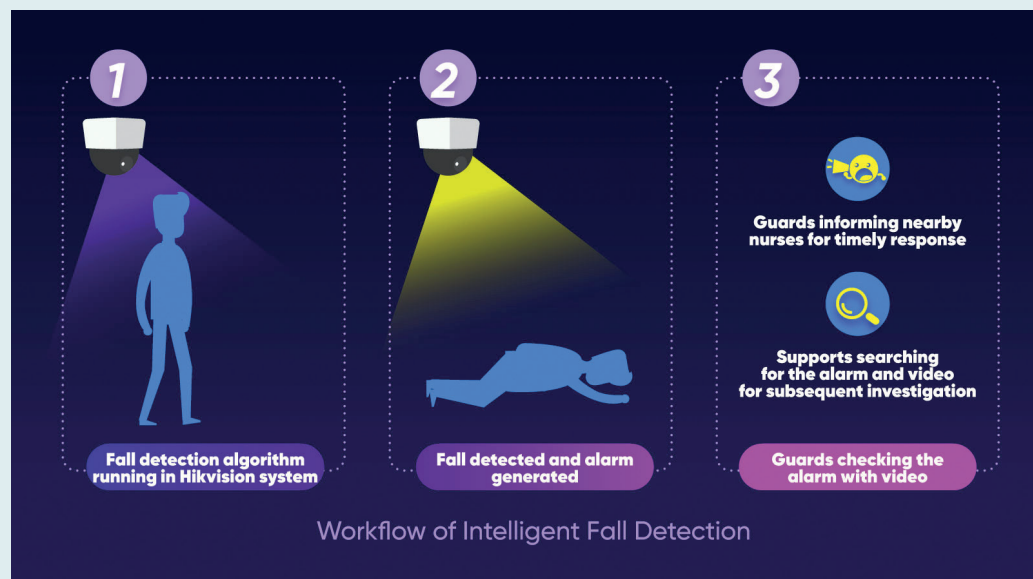
thinking hospitals and care organisations are installing fall detection cameras.

“These cutting-edge AI-powered cameras use artificial intelligence to spot when someone has fallen over, and to raise an instant alarm. Artificial intelligence often receives bad press, while being depicted in the movies as something to be feared. And yet, AI is used around the world to help and protect people in thousands of different ways as they go about their work and their lives”, Max Fang says.

Using a fall detection algorithm

An AI-powered fall detection camera constantly scans and monitors a location, detecting when a person is in its field of view, and using pre-programmed height thresholds to identify if that person is upright or not. If the person in the camera's field of view moves below a specified height, and remains in that place for a set period of time, the camera will classify this as a fall – instantly raising an alarm.

Hikvision's AI-powered fall detection cameras use the company's custom-built fall detection



For an elderly or vulnerable person, falling over can have serious health consequences.



“These cutting-edge AI-powered cameras use artificial intelligence to spot when someone has fallen over, and to raise an instant alarm”, says Max Fang, Director of CCTV Products at Hikvision.

algorithm to rapidly detect if a person has fallen over, and send an alert within seconds when a fall is detected. The cameras can be unobtrusively installed within and around care complexes such as canteens, lobby areas, and open spaces outdoors, providing a valuable network of extra eyes to support caregivers in their safeguarding work.

“What is more, through full HD recording, Hikvision cameras allow caregivers to easily investigate the reasons for a fall, enabling them to boost preventative measures if necessary”, Max Fang concludes.



No party – but thank you very much!

We want to thank everyone who through their commitment to our media and events has contributed to the successes and the fun we have had over 30 years in the security trade publication business.

Readers of our printed media, users of our digital publications and visitors to our events – we look forward to continuing to serve you. You are our inspiration.

Advertisers, exhibitors and sponsors. A great thanks for enabling us to serve the security market 24/7 with interesting information via our publications and for helping us to arrange interesting events which in turn can generate business for the security market at all supplier levels.

Unfortunately, 2020 is not the right time for a celebration party, but for gratitude from our side to all of you. Let's have a party 2030 instead!



2020 – a disastrous year for security events

Covid-19 has hit the security shows very hard. Since the start of the pandemic, a long line of security shows has been postponed, some have transformed into virtual events and many have been cancelled. The last major show that actually took place was Sicur in Madrid 25–28 February. Here is what has happened to the others:

ISC West, Las Vegas



Original date: 17–19 March 2020
Postponed to: 23–26 March 2021

The largest of the North American security shows – ISC West in Las Vegas – was first moved from March 2020 to July and then again to October, but was later cancelled due to industry and market circumstances.

“While we are very disappointed to not be able to meet face-to-face this year in Las Vegas, we look forward to continuing to help the ISC West community engage via digital programmes, resources and connections. Our team, along with our valued venue partner, Sands Expo and Venetian, is working on detailed planning and protocols for ISC West 2021, which will take place March 23–26, 2021”, said Will Wise, Group VP, Reed Exhibitions.

ISC West was finally transformed into an all-virtual event that took place 5–7, October 2020 and the smaller scale ISC East 2020 in New York City, will also be transformed into an all-virtual event on November 18, 2020.

Sectech Denmark



Original date: 25–26 March 2020
Postponed to: 1–2 December 2021

Sectech in Copenhagen was set to be Denmark’s only security event in 2020. The show was first moved from the end of March to December, but in early October, after consulting with exhibitors and discussions with the Bella Center in Copenhagen where the event was to take place, the organiser AR Media International took the decision to move Sectech to 1–2 December 2021.

Lennart Alexandrie, CEO, AR Media International, the organisers of Sectech, together with Stockholmsmässan, said the decision was due to health concerns and the fact that several of the exhibitors would have been prevented from attending due to quarantine regulations. The decision, therefore, to postpone the fair, was quite easy.

Sectech is an exhibition and a seminar programme in a compact format, focused entirely on security technologies and alternates between Copenhagen, Oslo and Stockholm.



The Security Event, Birmingham



Original date: 28–30 April 2020
Postponed to: 27–29 April 2021

The Security Event was first due to take place in Birmingham at the end of April, but was moved to September. However, at the end of July it was decided to postpone it again – now to 27–29 April 2021.

According to the organisers, Nineteen Group, the feedback across all shows for September was understandably mixed, ranging from ‘supportive’ to ‘not sure’ and ‘prefer to postpone’. Additionally, they say that at the time of their announcement the NEC had not received the authorisation from the Government to open for shows, which it says it needs.

“Without this authorisation and guidance, we cannot commit to September as we are prevented from having sufficient time to ratify exactly what, and how, we can work with the venue and partners to finalise what a Covid-secure event looks like,” says the statement released by the Nineteen Group marketing team.

“We are confident that this postponement is in the best interests of all and will give us the best opportunity to deliver top-quality content and the best ROI for all participants. We will continue with our digital series of events and Connect+ services, uniting buyers with sellers before, during and after our physical events.”

Visitor registrations will be automatically transferred to the new dates 27–29 April 2021.

Ifsec International, London



Original date: 19–21 May 2020
Postponed to: Cancelled. Next show 18–20 May 2021



After postponing Ifsec 2020 from its original May 2020 dates, and moving it to September 2020, at the end of June, the organisers of the event, Informa, made the decision to cancel the Ifsec International 2020 event.

In a letter to stakeholders, Chris Edwards,

Event Director, said, “We know how important our events are as a forum where our communities come together to learn, network and meet suppliers. Our focus over the last three months has been on ensuring that we can provide a safe and secure environment for our visitors and whilst we felt confident of achieving this, we also have a duty to provide an event that matches the high standards that customers expect of us. Additionally, these events have strong international participation, and this would be severely compromised given the current restrictions.”

“After carefully considering the options and following discussions with exhibitors and event partners it became clear that postponement is the most sensible option”, he stressed.

Ifsec is one of the biggest security events in the world – and probably the most international. The next event will be held at London’s Excel 18–20 May 2021.

Security Essen



Original date: 22–25 September 2020
Postponed to: Cancelled. Next show in 2022

The international trade fair Security Essen was planned for 22–25 September 2020 – Europe's biggest security exhibition – but was cancelled due to the unforeseeable developments of the Corona crisis.

Security Essen is a biennial event, taking place every two years. The decision to cancel this year's show was taken in mid-May by Messe Essen in close consultation with the partner associations:

"The anticipation of this year's edition and the new concept of Security Essen was great among all those involved, and so all the more difficult for us to decide to cancel the fair", explained Oliver P. Kuhrt, Managing Director of Messe Essen. "However, the current dynamic situation and the continuing global travel restrictions unfortunately do not permit serious preparations for the fair. As a result, our exhibitors and visitors and also we as the organisers lack the planning perspective which would have been a prerequisite for the customary professional staging of Security Essen this September."

"Since the majority of our fair participants come to Essen from abroad, we had to act with particular prudence. Due to the unclear worldwide development of the Coronavirus pandemic and the associated uncertain travel planning, there was unfortunately no alternative in the end", added Norbert Schaaf, Chairman of the Management Board of the Federal Association of Safety Engineering (BHE) and Chairman of the Security Essen Advisory Board.

The next Security Essen will take place at Messe Essen 20–23 September 2022.



Intersec, Dubai



Original date: 24–26 January 2021
Postponed to: 16–18 January 2022

At the beginning of September, organisers Messe Frankfurt were still fully committed to the Intersec show going ahead in January 2021, but at the end of the same month, it was cancelled.

In a statement addressed to industry partners, Alexandria Robinson, Show Director, Intersec, expressed, on a positive note, that they had been lucky to be able to hold the 2020 show before the pandemic escalated. The announcement continued with the explanation that following extensive discussion with stakeholders, participants and partners Messe Frankfurt had taken the decision to move Intersec 2021 to January 2022.

There has already been a series of intersec webinars hosted by Messe Frankfurt in recent months, which Alexandria Robinson says have been well attended and respected for their content. "We will continue to create digital platforms to connect our 122,000 business contacts globally" she confirms.

Skydd, Stockholm



Original date: 20–22 October 2020
Postponed to: Cancelled. Next show 25–27 October 2022

Skydd is the biggest Scandinavian security show and was planned to take place from 20–22 October 2020. However, at the end of June it was decided the show would be cancelled.

"Our expectation has long been to be able to arrange Skydd 2020 according to the original plan, but we have also been ready to reconsider this plan if the situation required it", said Annika Linderöth, Project Manager for Skydd.

Skydd is a biennial show with around 10,000 visitors and it was decided not to postpone the show but to move forward the next planned dates for Skydd, for 25–27 October 2022.

"Much of the work we have done before Skydd 2020 is also useful in 2022, so the positive aspect is that we have a lot in place and that we have additional time to prepare for the event", commented Annika Linderöth.



Expoprotection, Paris



Original date: 3–5 November 2020
Postponed to: 2021 (exact date not yet set)

Expoprotection in Paris is one of the major security shows in Europe and was planned to take place 3–5 November. However, in September, the organisers decided to postpone it to 2021. Expoprotection is normally a biennial event but will now take place both in 2021 and 2022.

At the beginning of summer, and in spite of the health crisis, Expoprotection was still planned to take place in early November, enjoying loyal support from industry trade associations, widespread backing among exhibitors, and encouraging feedback from the visitor survey.

Expoprotection (like many other shows) had taken measures like mandatory face mask, digitalised access passes and payment, compliance with capacity limits and regulation of visitor traffic flows, touch free hand sanitisers and more. The organisers were however unfortunately forced to accept that the health situation in many parts of France, including the Paris Region has deteriorated and, resulted in more stringent regulations and travel restrictions that make international travel difficult, or impossible, for clients, exhibitors and visitors alike according to the organisers.

Jean-François Sol Dourdin, Expoprotection Director, explained: "As from 2021, we will be offering our clients new, high-added-value meetings. The 'hybrid' approach, combining both physical and digital events, will be at the heart of our programme. As for the Expoprotection that we know, we'll be announcing the 2022 dates shortly."

Classified Ads

Access Control



Touchless Biometric Systems AG

Rietbrunnen 2, Pfaffikon SZ,
CH 8808, Switzerland
Tel +41 (0)55 533 20 00
tbs@tbs-biometrics.com
www.tbs-biometrics.com

Perimeter Protection



TAKEX Europe Ltd.

Aviary Court, Wade Rd, Basingstoke,
Hampshire RG24 8PE, UK
Tel +44 1256 475555
Fax +44 1256 466268
sales@takex.com • www.takex.com

Security Trade Press

Spread your word!
ADVERTISE HERE
security
WORLDMARKET.COM
SecurityWorldhotel.com



Hik-ProConnect

Convergent security service solution

Energize your business
with *added efficiency* and *peace of mind*



Enables **remote maintenance, proactive status monitoring** and services to enhance your efficiency

Addresses your customer needs with **converged physical security devices**

Increases the **speed of deployment** with reduced complexity of device installation and configuration



Scan and register
on **Portal**



Scan and download
the **App**

HIKVISION®