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Publisher's comment

So many challenges ahead

The Security Technology Market

**Global video surveillance market
set to register \$28.2 billion in 2022**

Business news

**Assa Abloy proposes divestitures to
prevent blocking of HHI acquisition**

Product news

**Cyber security feature added
to Axis' body-worn cameras**

SPECIAL EDITORIAL FEATURE 1:

INTELLIGENT SECURITY SYSTEMS

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Lennart Alexandrie, Publisher

So many challenges ahead

As I am writing this, it is just a few days before the security industry players gather at the Stockholm Fair (Stockholmmässan) to meet up at Skydd on the 25th to the 27th of October.

At Skydd, the biggest security event in the Nordics, exhibitors will show up to offer their very best services, solutions and products that can prevent, detect and possibly identify and initiate actions in case of crime. It will be a manifest for the power of the security industry.

The technology trends to be visualised will be just the same as they were at other recently organised security exhibitions in Europe, like Sicherheit in Essen and International Security Expo in London. The trends will mainly revolve around solutions linked to mobility, the cloud and AI, IoT, smart buildings and smart cities. Cyber security and its importance will also be emphasized by many exhibitors, especially the manufacturers of video surveillance equipment.

The overall business trends will also be reflected by several exhibitors in Stockholm. Most obvious is the shift towards Service-based business models which now are about to replace the reigning commodity trading business models. In the market for security in private homes, it is already common to see subscription-based service offers and it will become mainstream for small and mid-sized companies as well. Of course, the increased adoption of the cloud in recent years, has contributed to speed up this process.

With this ongoing paradigm shift the security industry is becoming increasingly more like other technology industries – but we are still at a very early stage.

So much of the changes are breathing new opportunities for the security industry. However, there are also many challenges that the security industry's players must deal with.

The need to quickly update communications in security systems that depend on 2G and 3G is one of the most urgent examples. The gradual shutting down of the old networks by the telecom companies aims to make room for the expansion of mobile networks based on 4G, 5G and other wireless technologies such as Wifi, LoRaWAN, Sigfox and BLE. In Sweden and many other EU countries 2G and 3G will be shut down no later

than the end of 2025 or 2026. It means that millions of security systems must be updated to 4G or 5G to be able to communicate. This work must begin as soon as possible.

NIS, the directive on security of network and information systems, is another challenge. Remember the introduction of GDPR and how stressful it became to prepare routines and systems to live up to the demands of this regulation.

Now, there are big differences between GDPR and NIS. GDPR was primarily focusing on protecting individuals' fundamental rights and freedoms, particularly their right to protection of their personal data, while NIS is aiming to promote security measures and boost EU member states' level of protection of critical infrastructure. In other words, NIS is the first EU-wide legislation on cyber security and provides legal measures to boost the overall level of cyber security in the EU.

Businesses identified as operators of essential services in the above sectors will have to take appropriate security measures and notify relevant national authorities of serious incidents. Key digital service providers, such as search engines, cloud computing services and online marketplaces, will have to comply with the security and notification requirements under the new directive. But also deliverances of network security technology products must live up to the demands, whether it is a video surveillance system or an access control system. The NIS directive will become national law in the EU countries in 2025, so it is about time to get prepared.

Other challenges for the security industry are related to competence and education, which is necessary to optimise the capability and precision of a security system using today's advanced analytics. Not least to avoid nuisance alarms, which are far too common in intelligent perimeter security system installations of today. It is also of utmost importance that the providers of physical security systems improve their cyber security competence to be successful within the physical network-based security systems sector.

With the war in Ukraine the cyber security threat has increased, due to the fact that Russian hackers have a long history of state-sponsored cyber attacks.



3 Publisher's Comment. So many challenges ahead.

6 Security Technology Market. Global video surveillance market set to register \$28.2 billion in 2022.

10 Special Feature: Intelligent Security Systems.

18 Business News. Assa Abloy proposes divestitures to prevent blocking of HHI acquisition.

22 Special Feature: Smart Buildings & Access Control.

30 Detektor International Award. Detektor International Award prize ceremony.

38 Product News. Cyber security feature added to Axis' body-worn cameras.

42 Security Events. Calendar for physical events.



Security Technology Market
Josh Woodhouse, Lead Analyst
and Founder, at Novaira Insights.

Page 8



Special Feature: Intelligent Security Systems
Advantages and flexibility
drive AI market to new heights.

Page 10



Illustration: Tumisu / Pixabay

Special Feature: Access Control Systems
Identity – the core of the smart
secure building.

Page 22



Product News
Cyber security feature added to
Axis' body-worn cameras.

Page 38



Detektor International Award prize ceremony.

The first prize winners: Baudouine Genouville , Suprema (Access Control), Johannes Ahlgren, Eagle Eye Networks (Video Surveillance) and Raffaele De Astis from Cias Elettronica (Alarm & Detection).

Page 30

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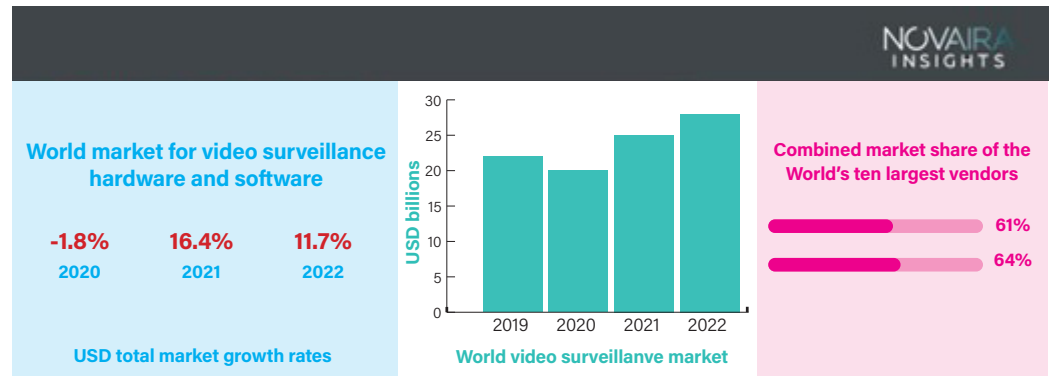
Global video surveillance market set to register \$28.2 billion in 2022

A new report from Novaira Insights reveals that the global video surveillance market grew 16.4% in 2021 as restrictions on movement due to the Covid-19 pandemic eased.

Wellingborough, Northamptonshire (UK)

The report, "The world market for video surveillance hardware and software" shows that shipment of surveillance cameras and related equipment grew as pent-up demand was served. However, there was a shortage of components used for production of video surveillance equipment in 2021 and this led to higher prices for those components. Many video surveillance equipment vendors were unable to absorb such cost increases and raised the prices of their own equipment. This dampened what would likely have been even higher unit shipment growth.

"The global average price of a network camera increased by over 7% in 2021. This made 2021 the first year in which the global



Novaira Insights predicts that the global video surveillance market for hardware and software will grow at 11.7% in 2022, compared to 16.4% in 2021.

average price of a network camera increased rather than decreased. Furthermore, general inflationary pressures will force vendors to increase prices yet further in 2022 and 2023," states Josh Woodhouse, lead analyst and founder of Novaira Insights.

Lingering Covid delays growth in ME and India

2021 saw high growth in most regions. But it was lower in the Middle Eastern and Indian markets, due to lingering Covid-19 restrictions causing continued disruption to the normal business

climate. Here, recovery from Covid has been delayed, leading to much higher growth forecast throughout 2022.

US quick on cloud uptake

The gradual trend to using the cloud for video surveillance also continued in 2021, particularly in the Americas region where the market for cloud video management software exceeded \$150 million.

"The United States has been quicker to adopt cloud for video surveillance than most other countries in the world. The cloud is often used for video surveil-

lance systems there by both small organisations and by large organisations with distributed sites, each with a small number of cameras", comments Jon Cropley, principal analyst at Novaira Insights,

The report forecasts the number of cloud connected surveillance cameras in the Americas will grow on average over twice as quickly as new network camera shipments between 2021 and 2026.

The global video surveillance market for hardware and software is forecast to grow at 11.7%, from \$25.3 billion in 2021, to an estimated \$28.2 billion in 2022.

Demand for cost and scalability drives VSaaS market

The VSaaS market is projected to grow from USD 3.3 billion in 2022 and reaching USD 7.6 billion by 2027, according to a new report from Marketsandmarkets; it is expected to grow at a CAGR of 18.0% over the forecast period.

Pune, India

Analysts found that the growth of this market is driven by factors such as the low cost of investment, the rise in demand for real-time surveillance data, and flexible scalability offered by VSaaS.

Hybrid VSaaS is expected to grow at high rates over the forecast period. The growth is driven by the combined benefits of on-premise video recording and managed video services, provided by hybrid VSaaS. In hybrid VSaaS, the recorded data is stored at both, the customer and service provider's end; the main

reason for the popularity of this model is concerns regarding the security of data. This model offers the benefits of on-premise video recording, along with those of managed video services. All day-to-day management of NVRs and cameras is handled by the offsite provider, thus saving time and effort. Moreover, it reduces the need to purchase and maintain a server and, hence, upfront costs are reduced. These benefits provided by hybrid VSaaS is expected to fuel the segment growth over the forecast period.

Infrastructure vertical shows high growth

The market for the infrastructure vertical is expected to grow at a high CAGR from 2022 to 2027. The increasing demand for VSaaS solutions across public places, transportation and city surveillance segments is expected to propel the growth of the market. Favourable government initiatives to develop smart city projects will add new opportunities for VSaaS providers. Various countries, such as China, India, and South Korea, are investing huge amounts in building smart cities. For instance, in November 2021, The Ministry of Land, Infrastructure and Transport, South Korea, announced plans to invest USD 215 million to establish 64 small and medium-sized smart cities in the country by 2025. This will create opportuni-

ties for the VSaaS service providers in infrastructure and city surveillance applications.

North America leads geographically

North America is expected to account for the high market share of the VSaaS market during the forecast period. In North America, particularly in the US, the government has taken several initiatives to implement advanced surveillance systems in public areas and government buildings. The focus of the government on boosting the penetration of VSaaS solutions across defence and infrastructure verticals is also high. Adoption in the military & defence sector to monitor security at the border and military bases has further driven VSaaS market growth in the region.

Top surveillance industry players expand their lead

Genetec, Motorola Solutions and Milestone Systems continued to grow their combined global share of the market for video surveillance software and service agreements in 2021, according to a new report from Novaira Insights.

Newport Pagnell, Buckinghamshire (UK)

The research shows that this global market was worth \$2.4 billion in 2021 with around 68% of this outside China. The, so-called, “big 3” grew their combined share of the market for video surveillance software and managed services to over 35% in the world excluding China.

China is a different market

The supply base for video surveillance software outside China remains very different to that of the Chinese domestic market. China continues to be mainly served by large domestic vendors. In contrast, the world excluding China is served, not only by the big 3, but also by a multitude of other suppliers, each with a small market share of less than 3%.

Cloud VMS will speed up the growth

Novaira Insights’ latest report, “The world market for video surveillance hardware and software”, shows that, outside China, the market for video surveillance software and managed services grew quickly at 10.1% in 2021, as restrictions on movement due to the Covid-19 pandemic eased and pent-up demand for video surveillance equipment was served.

“An important factor in the big three continuing to grow market share in future will be their strategies for cloud. We are forecasting that the market for cloud video management

“So far, each of the big three has adopted a different approach to cloud so it will be interesting to see how these approaches evolve going forward.”

software will grow much faster than the market for on-site video management software licenses,” states Jon Copley, principal analyst at Novaira Insights.



Josh Woodhouse, Lead Analyst and Founder, at Novaira Insights.

“So far, each of the big three has adopted a different approach to cloud so it will be interesting to see how these approaches evolve going forward”.

Cloud is increasingly adopted

The pandemic appears to have catalysed interest in cloud video surveillance. 53% of respondents in a Novaira Insights 2022 survey of North American end-users indicated that the pandemic had either started, accelerated, or greatly accelerated their organisation’s cloud strategy specifically related to video surveillance. Furthermore, 68.3% of respondents thought their organisation will move to managing or storing more of its video surveillance data in the cloud in the next two years.

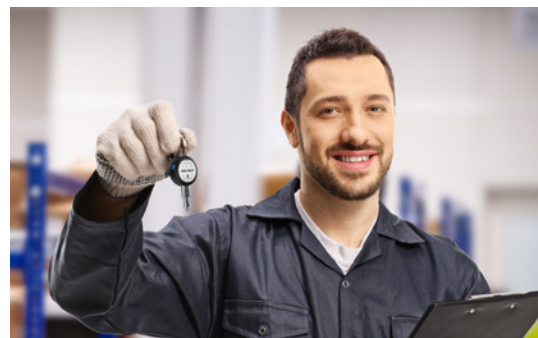
Increasing interest for a hybrid approach

According to lead analyst and founder of Novaira Insights, Josh Woodhouse, “The medium-term future for many video surveillance installations will be largely a hybrid approach in which software is hosted off-premise in the cloud but a primary tier of video storage is on-premise. Cloud storage will likely be increasingly used but this will be often in conjunction with on-premise storage tiers.”

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Perimeter security market set to reach \$132.4 billion by 2030

Grand View Research has estimated the Global Perimeter Security Market size to \$49.81 billion in 2021 and 54.82 billion in 2022.

New research from Grand View Research predicts that this market is set to reach USD 132.4 billion by 2030, registering a CAGR of 9.4% over the forecast period.

San Francisco, Ca (USA)

The increasing insecurities among civilians and the rising illegal activities, such as planned crimes, thefts, smuggling, and human trafficking, have led to a rise in the adoption of perimeter security systems. Technological proliferation has led to the growth of smart cities and smart infrastructure. New research from Grand View Research predicts that this market is set to reach USD 132.4 billion by 2030, registering a CAGR of 9.4% over the forecast period.

Video surveillance leads the growth

The video surveillance systems

segment is expected to register the fastest CAGR over the forecast period due to the large-scale investments in smart infrastructure projects by various nations. The global need to improve safety and security across many industries is considerably contributing to the market growth. In comparison to the preceding decade, the surveillance market has changed due to significant advances in cloud hosting and video surveillance software.

The alarms & notification systems are expected to grow at a slow pace in the market over the forecast period. The maintenance

and support systems are anticipated to witness the fastest growth over the next eight years.

Perimeter security systems are expected to find major applications in the transportation end-use segment.

System integration create opportunities

In summary, the key takeaways from the report suggest that the system integration and consulting services segment dominated the market in 2021 and is estimated to generate high revenue by 2030. "System integration and consulting services help businesses create opportunities to drive high performance and accelerate business innovation – thereby creating growth opportunities for the segment," claims Grand View Research.

Asia Pacific region grows fastest

The video surveillance systems

segment is anticipated to witness the fastest growth rate over the forecast period - increasing concerns regarding public security and safety, growing demand for spy cameras, and rising adoption of IP cameras are driving the video surveillance systems segment; the military and defence end-use segment accounted for the largest share of the global revenue in 2021.

The Asia Pacific regional market is expected to witness the fastest CAGR during the forecast period due to the increasing infrastructure developments.

Key players

Some of the key players mentioned in the research report include, Axis Communications AB, Barrier1 Systems, Inc., Optex, Inc., Honeywell International Inc., Tyco International Ltd., Puretech Systems, Senstar Corp., Delta Scientific Corp. and Cias Elettronica Srl.

Video encoder market predicted to hit \$3.3 billion by 2027

The global video encoder market is estimated to reach USD 3.3 billion by 2027 from USD 2.3 billion in 2022 with a CAGR of 7.6% from 2022 to 2027.

Northbrook, IL (USA)

The major factors driving the growth of the video encoder market, according to report publishers, Marketsandmarkets, include ease of connecting analogue cameras to networks, the use of cloud services to store a large amount of data, and the adoption of high-efficiency video coding (HEVC) standards for video encoding.

The analysts say that key players in the market are focusing on research and development (R&D) to enhance the functionalities of the video encoders offered. The growth of mobile-streaming videos and the optimisation of network bandwidth for cable operators are also

creating immense opportunities for the video encoder market.

Rack-mount show highest growth potential

The market for rack-mounted video encoders is expected to grow at the highest CAGR between 2022 and 2027. The adoption of standalone video encoders has increased in recent years, as they are cost-efficient and beneficial in situations that only need a few cameras to be connected. However, the rack-mounted video encoders segment accounts for a larger market share. This segment is also projected to register the highest CAGR during the forecast period. These video encoders are useful in instances where large installations with analogue cameras are required.

Single-channel encoders are the most popular

The market for 1-channel encoders is expected to hold the largest

share of video encoders market throughout the forecast period among security robot end users for UAV. Single-channel encoders are integral components of broadcast equipment, especially in the case of events with a large viewing audience. As the trend is shifting from standard-definition (SD) toward high-definition (HD), ultra-high-definition (UHD), and 4K, the significant demand for highly advanced video encoders is expected to sustain in the coming years. With the adoption of the HEVC standard, the cost of broadcast video encoders may increase further. This is expected to contribute to the large share of the segment, by value, during the forecast period.

Most economical path

Globalisation has increased the demand for high-quality security services but with limited investments. Thus, using video encoders for the existing analogue systems

is proving economical and creating several growth opportunities for the video encoder market in RoW. However, in 2022, North America is estimated to be the largest market for video encoders. Major drivers for the video encoder market in this region are collaborations between the government and network arenas, institutional partnerships between video encoder manufacturers and research collaborations, and large-scale investments in cloud-based services. The large economy, strong high-tech and media sector, strong connectivity, and highly educated population are some of the other factors driving the video encoder market in North America.

Major companies named by Marketsandmarkets as operating in the video encoder market include, Hikvision, Vitec, Harmonic, Motorola Solutions, and Cisco.

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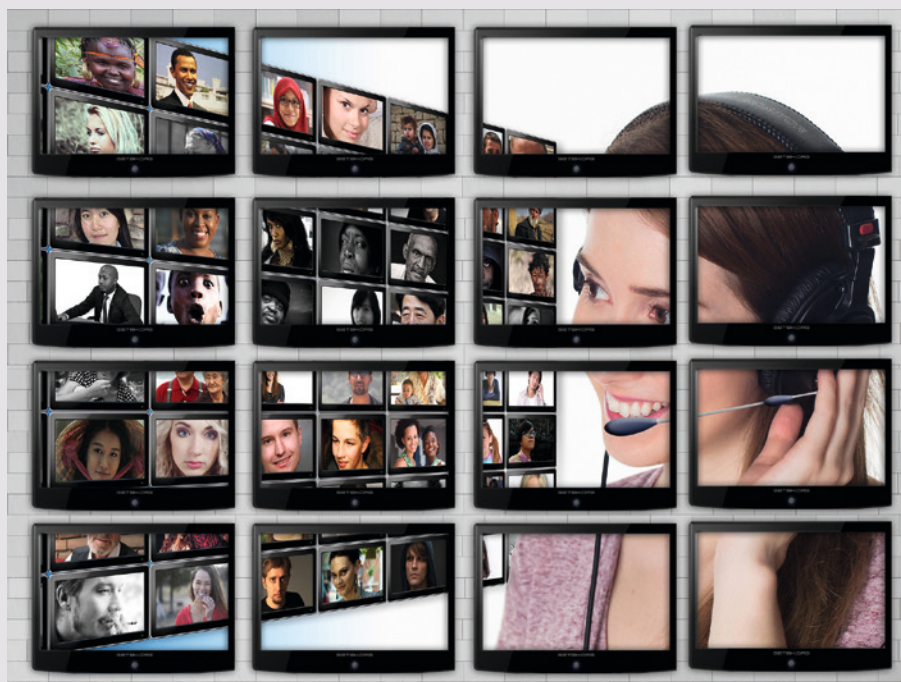


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Healthcare and life sciences, as an industry, is growing at a good pace and is expected to contribute significantly to the globally artificial intelligence market.”

The fast evolving and increasing use of artificial intelligence (AI) is opening new opportunities for a wide number of sectors.

Advantages and flexibility drive AI market to new heights

The fast evolving and increasing use of artificial intelligence (AI) is opening new opportunities for a wide number of sectors. This means also new business options for providers of physical security solutions – especially within risk management but also AI-equipped camera technology can also provide customers with data-based services beyond security.

A recent AI market report from Marketsandmarkets reveals a market with an enormous growth and potential.

In a new artificial intelligence market report Marketsandmarkets has divided vertical markets into BFSI, IT/ITES, telecommunication, healthcare and life sciences, manufacturing, retail and ecommerce, government and defence, automotive transportation and logistics, energy and utilities, and others, such as travel and hospitality, and education. Using these divisions, the researchers found that the healthcare and life sciences vertical is expected to grow at the highest CAGR during the forecast period

Extreme growth

Since its introduction in the market, artificial intelligence technology has quickly acquired acceptance. The worldwide artificial

intelligence market is expanding significantly as a result of the increasing demand for artificial intelligence technologies across numerous industry verticals, and according to the latest research on the subject, this sector is projected to show growth from \$86.9 billion in 2022 to \$407 billion USD in 2027.

Growth sectors

Healthcare and life sciences, as an industry, is growing at a good pace and is expected to contribute significantly to the globally artificial intelligence market. Applications for artificial intelligence in healthcare include patient data and risk analysis, medical imaging and diagnostics, precision medi-

cine, drug discovery, and much more. Patient data is expanding as a result of the widespread use of electronic medical records, and the risk analysis market is also expanding because of benefits like risk management and predictive analytics provided by AI systems to payers and healthcare providers.

Cloud deployments have most potential

The artificial intelligence market by deployment mode is segmented into cloud and on-premises. Various advantages, such as lower operational expenses, hassle-free deployment, and more, are provided by the cloud deployment approach. With increasing awareness of the advantages of cloud-based solutions, cloud adoption for Machine Learning and Natural Language Processing tools in AI is anticipated to increase. It gives businesses more operational flexibility and makes real-time analytics implementation easier for businesses.

Business decisions based on AI

In terms of geography, North America is set to have the highest

market size during the forecasted period. The Americas AI digital age that has grown in the retail operation is the foundation of AI in industrial developments. All sectors of retail have seen an improvement in speed, productivity, and reliability, in large part due to cutting-edge data and advanced analytical technology that help businesses make decisions based on data. Businesses are now able to compile and assess individual customer data in order to run promotional campaigns because of cutting-edge AI technology. For this reason, regional retailers are using cutting-edge technology to improve their e-commerce platforms.

Main players

Some of the major artificial intelligence market vendors named by the analysts, are, Google Inc, Microsoft Corporation, Nvidia Corporation, Intel Corporation, Samsung Electronics Co., Ltd, IBM Corporation, Amazon Web Services, Inc., Oracle, Meta, Salesforce, Cisco, Siemens, Huawei, Sap SE, SAS Institute, Baidu, Inc, Alibaba Cloud, Iflytec, and Hewlett Packard Enterprise Development LP.

Marketsandmarkets has recently launched a video analytics market report, which includes the Covid-19 impact, and offering a global forecast to 2026.

The report estimates this sector to grow at a CAGR of 20.4% during the forecast period, to reach USD 14.9 billion by 2026 from USD 5.9 billion in 2021.



Edge-based video analytics evolves with the emergence of new powerful in-built chipsets in cameras that offer higher computational capabilities at the edge.

Video analytics market to touch almost \$15 billion by 2026

There are a myriad of factors that the researchers expect to drive the growth of the market, including increasing investments and focus of governing institutions on public safety. The need to utilise and examine unstructured video surveillance data in real time and a significant drop in crime rates due to surveillance cameras, are other factors according to Marketsandmarkets. Add to that a growing need among enterprises to leverage building intelligence and actionable insights for advanced operations. The limitation of manual video analysis and government initiatives in adopting emerging technologies to enhance the public safety infrastructure have also a positive impact on the growth, just like reduced costs on video surveillance equipment and the demand for long term return on investment (RoI). Last, but not least, the demand for enhanced video surveillance is another growth trigger.

Strong growth in edgebased analytics

Based on the type, the market is segmented into two categories edge-based and server-based video analytics. It is the edge-based segment that is expected to grow at a higher CAGR during the forecast period. Edge-based video analytics evolves with the emergence of new powerful in-built chipsets in cameras that offer higher computational capabilities at the edge.

Such systems inform operators on a wide range of real-time video or audio events requiring attention and providing more sophisticated analytics, such as queue management and heat maps that offer new opportunities for business and traffic intelligence.

Advancements in deep learning and its integration with the edge system are also expected to drive the adoption in the coming years. Deep learning takes machine learning to another level, based on neural network principles that impersonate the complexity of the human brain. Earlier, the functionality was mainly available at server-side processes, which would require videos to be decompressed and processed. Edge-based devices need external inputs to learn from before proving as a useful tool to recognise known objects and behaviours.

On-premises vs cloud analytics

The video analytics market is segmented by deployment type into on-premises and cloud segment. The on-premises segment accounts for a higher share of the video analytics market during the forecast period according to the analysis. This approach is mostly adopted for applications that involve the processing of sensitive and confidential data volumes. These data volumes include internal and external surveillance footage and video feeds of business operations that contain

confidential information and crucial insights. In the on-premises deployment, companies have to install the required hardware parts, such as OS, storage devices, servers, cameras, and routers, as well as video analytics software. Several large organisations are deploying on-premises video analytics due to privacy and security concerns related to confidential data.

Transportation and logistics strongest vertical

Transport and logistics is one of the fastest-growing verticals during the forecast period. Video surveillance has become an important part of the transportation and logistics vertical. The various benefits of video analytics for the transportation and logistics vertical are the elimination of overcrowding, behaviour analysis, enhanced safety measures, incident recording, and detection of blind spots. Video analytics can contribute to the enhancement and betterment of this vertical for commuters while providing improved safety benefits. The various features offered by video analytics, such as facial recognition, object tracking, unidentified object detection, cargo and train carriage recognition, and intelligent traffic monitoring, can help transportation and logistics companies prevent disasters and detect emerging threats, which may lead to infrastructure destruction or vehicle crashing, resulting in the loss of life.

Geographical spread

The video analytics market in the APAC countries is expected to witness exponential growth, mainly because of the rising awareness about the potential security threats to individuals, and the growing manufacturing industry. The rapid growth in mobile device manufacturing has considerably reduced the cost of camera components, thereby making it cheaper for SMEs and private individuals to install surveillance cameras.

In addition, the rapid GDP growth in APAC countries has resulted in infrastructure modernisation projects, such as smart city projects and mass public transit systems, which have increased the demand for video analytics. The Yinchuan city in China, for example, is cited as one of the most advanced smart cities in APAC, with almost all infrastructure integrated into a unified system. Singapore is also moving toward the goal of becoming a smart nation, which would lead to an increased demand for efficient video analytics.

The video analytics report comprises many major providers, such as Avigilon, Axis Communications, Cisco, Honeywell, Agent Vi, Genetec, Intellivision, Hikvision, Dahua, Iomniscient, Huawei, Intelligent Security Systems, Verint, NEC, Briefcam, Bosch, Senstar, Qognify, and Ipsotek to name just a few of those included in the study.



Intelligent camera technology can improve transport in cities

Intelligent analytics in surveillance cameras can be used for much more than just security applications, for example to streamline transport in major cities.

“With intelligent analytics and object classification in the cameras, data can be collected and contribute to important facts for urban planners,” says Markus Lai, regional manager sales engineering and training at Axis Communications.

Markus Lai sees many opportunities in today's technology, for city planners who want to streamline and control traffic flows towards sustainability.

“Efficient transport is important for all cities, whether it is walking, cycling, electric scooters, cars or buses. With information from smart sensors, such as cameras and radars, you can find out how people make their transport choices,” he says.

Support for urban planning

One factor to consider is demographic differences in behaviours and preferences when it comes to choosing a mode of transport. For example, younger people are usually more likely to use the bicycle or the subway, while elder people choose the car to a greater extent for comfort and convenience.

Markus Lai sees cameras and people counting technology as a tool that can be of great use for urban planners.

“Before any changes can be made, it is important to understand exactly how people use different modes of transport. Collecting data will be crucial and people counting technology can contribute to increasing awareness, providing knowledge and improving sustainability in cities,” he believes.

Contributes to sustainability

People's choice of mode of transport can depend on many factors.

Residents may, for example, be concerned about safety or have limited access to public transport and therefore choose the car, which contributes to congestion, reduced air quality and increased noise pollution. Maybe there is a lack of available parking spaces in a high-traffic area or a tendency to use vehicles for short journeys because public transport is inconvenient. Insights into precisely these conditions form a good basis for bringing about concrete changes with an overall positive impact. But to achieve reduced congestion and improved air quality, which are important sustainability goals, it is important to create a transport profile where information about the area in question can be collected.

The transport profile

The first step in building a transportation profile is to collect the right data. Here, cameras equipped with person and vehicle counting software can be very useful. They collect information about the number of individuals and the type of vehicle used in the area in question.

“By placing these cameras in strategic locations and combining the data they collect with data from other sources to compare patterns with demographic profiles. In this way, understanding of different modes of transport can be created in an efficient way. Information that is extracted can



Collecting data will be crucial and people counting technology can contribute to increasing awareness, providing knowledge and improving sustainability in cities” states Markus Lai at Axis.

explain and predict the behaviours and transport choices that the population would need to make to achieve the goals,” states Markus Lai.

“Once the analysis of this information is complete, improvements to transport modes at the urban area level can be made and initiatives can be developed to encourage the use of alternative more sustainable transport.”

Traffic zones

Markus Lai also gives examples of which measures may be relevant based on the data that the cameras with people counting have produced.

“In areas that are found to have a high level of pedestrian traffic, a restricted traffic zone can be introduced where through traffic and parking are restricted during the day to prioritise pedestrian and bicycle flows, except for certain professional traffic.”

“If bicycle traffic increases, it can initiate a review of how to improve accessibility and safety, for example by changing the way the lanes for car traffic should look or

whether cycle lanes must be added or widened as well as if new parking areas for bicycles are needed or perhaps a carpooling system that could relieve traffic.”

Project in Lund in full swing

An interesting initiative was taken during the planning of the Brunnshög neighbourhood in Lund. The highest priority is to minimize negative environmental impact. To achieve the sustainability goals, city planners have decided that journeys to and from the area must consist of at least one third walking or cycling, one third using public transport, while the remaining third must be car journeys. The key to success in this ambitious project is the measurements made to see how residents use the different modes of transport over a defined period of time.

Measurements are made with a mix of different sensors where Axis tries out some of its new solutions where sensors with people counting technology and radar keep track of the number of vehicles and also measure speeds.

Measuring residents' reactions

The project goes by the name Flow and is based on a collaboration between several different organisations around the use of sensors to collect transport data to a digital transport platform for analysis that will lead the project to insights and wise decisions that support the original goals. This also includes measuring the residents' activity in order to understand their reaction to changes that are carried out. The project, which is financed by IoT Sweden, is supposed to last until June 2024 and ultimately aims to create a sustainable and attractive living environment with Lund's attractions within easy reach.

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Raytec:

How to choose lighting for container recognition systems

Raytec, is a world leader in LED lighting for security and safety applications. In this article Callum Ryder, market manager, his views on lighting requirements for a container recognition systems (CRS).

Container recognition systems use an automated system that utilises intelligent image processing to identify, check, and store a series of numbers, letters or barcodes that normally appear on the top, or side, of a container. The system will then store the information and use it to direct operations on-site and control the movement of goods. Some systems also capture the license plate of the vehicle carrying the container.

Container recognition systems operate often 24 hours a day and ambient light alone is not sufficient to provide the camera with high-quality images day and night. Poor, variable and changing weather conditions, which significantly affect the quality of the image that a camera can obtain, is another challenge.

“Unclear and inconsistent images may lead to incorrect data, producing errors within the system. This may result in containers becoming lost, or cause delays,” states Callum Ryder, who also emphasises that lighting helps to ensure high-quality, consistent images of the information on the side or top of the container and is a vital cog in the reliability of the entire system.

850nm Infra-Red (IR)

When specifying lighting for a CRS, one of the first considerations is the wavelength of light which will be most suitable for the system.

850nm Infra-Red (IR) is commonly used within container recognition applications. Cameras are most receptive to this wavelength of IR enabling them to support the best night-time images. IR is ideal for capturing the detail of a container number or barcode. Being semi-covert, an 850nm illuminator gives off a slight red glow,

but this is only visible up close, or when looking directly into the light, and generally is not a cause of concern when used for container recognition.

White-Light

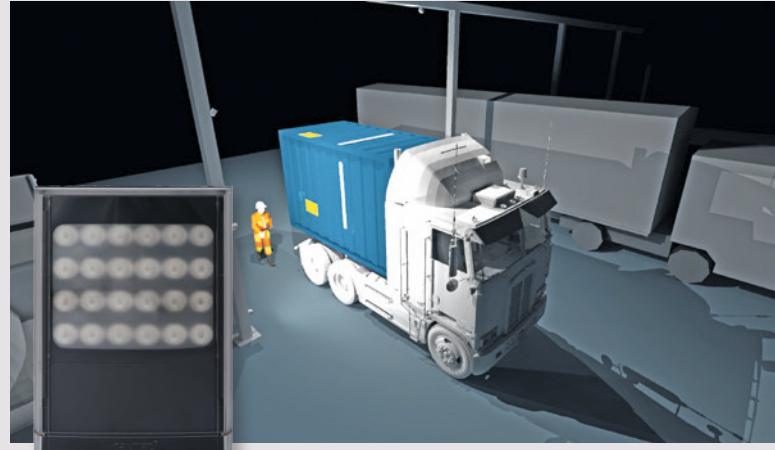
While 850nm IR may provide the best results for capturing the container number or barcode, many systems may have other lighting goals, which require colour images to be captured and damage identified. Then use of White-Light can provide a greater level of detail and increase the performance of the analytics software used to identify issues.

730nm

For systems which are also looking to illuminate inside the vehicle carrying the container, 730nm provides the best results for seeing through a vehicle’s windscreen and supports driver and passenger recognition which may be running in tandem with the container recognition system. “However, we’d only recommend the use of 730nm if there’s a need for the illuminator to provide a dual use of container recognition and driver recognition,” comments Callum Ryder.

Constant vs. Pulsed

Specifiers must also decide between using either constant or pulsed illumination. Constant Illumination means that the light is switched on 100% of the time. It is generally used when the vehicle is stationary or moving at lower speeds. While each application should be judged on an individual basis, it is less common for container recognition systems to encounter issues with motion blur, or other challenges associated with capturing images with higher-speed applications.



Container recognition systems use an automated system that utilises intelligent image processing to identify, check, and store a series of numbers, letters or barcodes that normally appear on the top, or side, of a container.

One of the benefits of using constant light is the easier set-up compared to pulsed.

Pulsed Illumination

Pulsed (or strobe) illumination is used to provide on-demand lighting to accurately record images of fast-moving objects. A pulsed illuminator is designed to sync directly with the camera’s shutter via a digital input. The increase in power that pulsed illumination provides can also help overcome issues such as challenging weather conditions and glare.

Avoiding Overexposure

Many applications suffer from overexposure to the container number or barcode. It generally occurs when the camera and illuminator are too close to the object or area in question. This generally causes a large white spot on the image. If the code is unclear, the system cannot work effectively and would likely lead to errors or inefficiencies.

Harsh Environments

Container storage sites are generally located in coastal areas where high levels of wind and rain are commonplace. This poses a challenge to capturing high-quality images, which means that the environmental protection of the illuminator is of highly importance. Raytec’s

Vario2 Extreme illuminators are rated (IP67 and IK09) for use in the harshest environments and operating conditions. Their extreme salinity and humidity protection, make them an ideal lighting solution for marine applications.

Control

It also important to consider how the illuminator in a CRS can be controlled, and how it can communicate with the system’s other devices. In many systems, the lighting is only activated during vehicle passage, helping to create smart, situational dependent lighting, which is far more efficient. For this reason, specifying an illuminator that is IP enabled so it can be connected to other devices via an ethernet connection is always a good option.

Testing

A good quality image for a container recognition system includes sharpness, spatial resolution and high contrast of the characters, as well as good positioning and an optimal viewing angle. Testing the final solution is extremely important.

“The more testing that can be done before full deployment the greater chance of achieving high-quality, reliable images”, concludes Callum Ryder.

- Exhibition
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Technologies, such as Lidar enable very precise detection areas, both vertically and horizontally.

Critical infrastructure demands combined security technologies

With growing concerns over security threats to critical infrastructure, the need for multi-layered protection has increased, according to Mark Cosgrave, Divisional Manager for Western Europe at Optex.

“A combination of different technologies that can help protect the perimeter, approach, boundary of buildings and internal areas, will help better to detect and deter any intrusion or malicious attack,” he says.

Mark Cosgrave is a warm advocate for the benefits of using a combination of technologies and solutions to effectively secure critical infrastructure.

“It is important to understand the limitation and the strengths of each technology and how they can complement each other in combination to provide a more efficient and effective security system.”

Early detection is crucial

“The importance of detecting an intrusion attempt as early as possible can’t be underestimated and this is the primary benefit of using detectors: they enable a proactive security system with intelligence to detect threats accurately and activate a suitable security response,” he says and gives an example.

“If the operator can identify unusual activity at the fence line or even beyond the perimeter line, it

is a powerful pre-warning to the security system that can stop threats before they happen. Technologies such as Distributed Acoustic Sensor (DAS) can be mounted on the fence to detect any breach by intruders climbing over it or cutting through it, but it can also be buried to alert, of a vehicle approaching or someone walking towards the fence line.”

Cameras and surveillance equipment allow classification of targets and recording of events, bringing in an additional layer of security, but should always rely on the stable detection of sensors, which are at the frontline of the security system, not affected by changes of weather, lighting or temperature.

Among other things, intrusion detectors improve the quality of the security system and avoid the risk of nuisance alarms in outdoor environments.

Lidar – detection with precision

Mark Cosgrave also emphasizes the ability to identify the exact location of the intrusion, which can be critical to deal faster with a situation. Technologies, such as Lidar enable very precise detection areas, both vertically and horizontally. Through the creation of virtual walls and virtual ceilings these sensors can identify the exact X,Y coordinates of intrusion, as well as categorizing events depending on target size or direction of movement. Sensors such as Redscan can operate extremely reliably in outdoor environments, in complete darkness and challenging weather conditions, from -40 degrees to +60 degrees.

A further aspect to consider when designing a high-risk security system is the need to use dedicated security devices, which have been specifically designed to focus on intrusion detection and

can provide reliable information and a safe transmission of the data directly into the system.

Combining technologies making sense

The level of data provided by intrusion detectors helps the security team take an appropriate and faster response, it can activate cameras to recognize and track intruders, it can lock security gates, trigger security lighting, voice alerts or dispatch security guards.

Multiple levels of protection

The initial step in securing the perimeter of any critical infrastructure starts with an in-depth risk assessment to assess any vulnerabilities and identify the most suitable security technologies to mitigate them.

“By combining different technologies that complement each other and implementing multiple levels of protection at the perimeter line, the overall security system benefits and becomes more effective, so facilities and assets are more secure today and in the future. This is one of the key benefits of working with Optex as we can provide multiple security technologies to achieve highly-reliable intrusion detection across the entire site,” he concludes.



Mark Cosgrave, Divisional Manager for Western Europe at Optex.

Achieve more automation with Hikvision AI-powered solutions

As technology advances, artificial intelligence (AI) is used in increasingly disparate ways to help achieve automated security measures. It's now also being used in business scenarios, making it possible for business owners to resolve complex issues or tedious jobs with minimal effort. AI-powered applications, such as automated event alerts, false alarm reduction, ANPR (Automatic Number Plate Recognition), and people counting, have already become popular in a variety of scenarios.

For security professionals, being able to provide innovative solutions with AI features is already becoming a vital component to make them more competitive. To help them meet common and unique challenges, Hikvision offers a range of products and solutions with AI-powered AcuSense technology, as well as DeepinView and DeepinMind series of products that can streamline and maximize automation of security protection and business operations.

Smarter perimeter security with AcuSense technology

Conventional perimeter protection solutions provide certain detection features enabled by video content analysis, such as motion detection, line-crossing detection, and intrusion detection, however, all these easily trigger false alarms when an animal, a shadow, or other natural movements are detected. As a result, security personnel need to spend time investigating each one, potentially delaying response to a valid alarm and generally affecting efficiency.

Smarter perimeter security solutions with "effective false alarm reduction" and "quick target search" capabilities can be helpful here, which can identify and react to perimeter breaches in real time, and automate footage searches to locate true events quickly.

AcuSense technology from Hikvision meets these needs with advanced AI features that support faster, more effective responses to

security incidents. With the ability to differentiate between humans and vehicles and other moving objects, AcuSense reduces costly false positives for customers. This means they can verify real security threats immediately, and benefit from automated video searches to save hours on manual video reviews.

Hikvision delivers a range of front- and back-end products with AcuSense technology, covering cameras, NVRs, and DVRs, which are also simple to install and configure. This means that security professionals can deliver the AI benefits of smarter perimeter protection for their customers quickly and easily, without additional training requirements.

Improved operational efficiency with DeepinView and DeepinMind series

With the advancement of algorithms and computing performance, AI technology has shown promising potential in creating intelligence and automation for different business processes. Besides perimeter protection, security cameras with AI features are also being used more by businesses to help improve their daily operations. This means great opportunities for security professionals to go beyond its traditional area to a wider business scope.

Hikvision offers DeepinView cameras and DeepinMind NVRs with embedded Deep Learning algorithms, such as ANPR, people



Hikvision delivers a range of front- and back-end products with AcuSense technology, covering cameras, NVRs, and DVRs, which are also simple to install and configure.

counting, and queue detection, to achieve a suite of intelligent functions for businesses.

In retail, as an example, people counting provides valuable insights for shopping center operators. It provides tracking patterns in customer footfall to predict when to expect a rush of visitors, allowing them to keep crowd density under control. At the same time, queue detection can calculate how much time people are waiting in line, notifying cashiers before a customer's patience runs out.

On the other hand, parking management can be a headache for apartment buildings, office towers, and business parks alike. Powered by Deep Learning, cameras with ANPR capture vehicle license plates, with sharp rendering of the letters and numbers to deliver clarity. When installed at parking entries and exits, these cameras trigger automated responses to open or close the gate as well as notify personnel when needed, greatly improving parking efficiency.

What's more, parts of Hikvision's DeepinView series cameras can now incorporate several AI-powered Deep Learning algorithms in one unit. Algorithms can be switched, essentially putting five or six unique cameras in one housing. Users can simply enable an algorithm manually for

dedicated use, then later switch to another algorithm as needed.

Unified management with HikCentral Professional

In addition, Hikvision provides a unified software, HikCentral Professional, for security professionals and customers to easily manage multiple products and systems in single platform.

HikCentral Professional, can flexibly unite applications, so users can build a tailored system to match their security and business needs. The unified approach not only creates greater situational awareness of a security environment, it also reduces real day-to-day management resources previously required by disparate systems.

Secure more with more assurance

Hikvision strives to help professionals from many walks of life stay confident and assured with future-shaping technologies, just as our advanced cameras address security challenges in protecting large sites and open areas. Apply for a smart trial today for a hands-on experience with Hikvision's high-performance products! Also visit our website to learn more. Or you can explore the Hikvision digital showroom for complete product lines, core technologies, scenario-based solution packages and more.

HID helps ensure Belgian rail service runs on time

Austin, Tx (USA) and Brussels, Belgium

The national railway company of Belgium, NMBS/SNCB, has successfully deployed a real-time location service platform with BEEKs Bluetooth Low-Energy (BLE) beacons from HID to accurately monitor train location and ensure on-time departures.

NMBS/SNCB maintains and operates 3,607 kilometres of track and approximately 30 train stations throughout Belgium with passenger safety and on-time departures serving as key priorities.

Limited cellular coverage

Prior to the HID solution, when an approaching train reached a preset GPS coordinate, an app on the onboard attendant's smartphone would signal software at the station to start running the digital safety-check programme to

ensure passengers can safely disembark and the train can depart for the next station on schedule.

However, many locations such as tunnels, have limited cellular coverage. When this happens, the train's GPS location can appear as far as 10 kilometres away from the station, thwarting the entire safety check process.

"We knew we had to find a different way to mimic someone's location within the vicinity of the station. That is when the idea of using HID beacons to transmit



HID Global's real-time location services platform and Bluetooth Low-Energy beacons is deployed on the platforms to ensure the safety check process would not be compromised.

a specific ID came into play," explained *Nathan Willekens*, Innovation Project Manager, NMBS/SNCB.

BLE beacons - the solution

NMBS/SNCB deployed HID Global's real-time location services (RTLS) platform and BEEKs Bluetooth Low-Energy (BLE) beacons on its platforms to ensure the safety check process would not be compromised. Now, when the system detects the Bluetooth device, it is given priority over the

potentially inaccurate GPS signal.

"We were impressed not only with the accuracy — we knew with more certainty that the train was in the location identified by the beacon — but also by the efficiency with which the beacons were able to operate and the area they could cover," said Willekens.

Ten additional stations

According to HID Global, NMBS/SNCB is planning the system to be deployed in at least ten additional stations across Belgium.

ADT closes \$1.2 billion deal with State Farm

Boca Raton, FL, USA

Further to the earlier announcement last month, ADT has now issued and sold in a private placement to State Farm 133.3 million shares of ADT common stock for a gross purchase price of \$1.2 billion.

In September, ADT announced a new partnership with State Farm to revolutionise the homeowner experience through innovation in the detection and mitigation of property losses.

Additional investments

In addition to the equity investment, State Farm has committed up to \$300 million to fund product and technology innovation, customer growth and marketing

activities in connection with the partnership. State Farm has funded the first \$100 million and the two companies will collaborate to approve initiatives utilising the funds.

"We're excited to begin innovative work with State Farm to develop new technology, products, and services that create safer, smarter and more protected homes while improving the overall customer experience for millions of homeowners," says

Jim DeVries, ADT President and CEO.

A seat on the board of ADT

As part of the equity investment, State Farm obtained a seat on ADT's Board of Directors. State Farm has designated *Paul Smith*, Executive Vice President and Chief Operating Officer, as their representative. Smith has joined the ADT Board of Directors as a Class II director with a term expiring at the 2025 annual meeting.

Assa Abloy proposes divestitures to prevent blocking of HHI acquisition

Stockholm, Sweden

Assa Abloy has formally filed its response to the complaint from the U.S. Department of Justice to block the proposed acquisition of the Hardware and Home Improvement division ("HHI") of Spectrum Brands.

On September 8, 2021, **Assa Abloy** announced it had signed an agreement to acquire the **HHI** division of Spectrum Brands for a purchase price of \$4.3 billion on a cash and debt free basis. On September 15, 2022, the DOJ announced that it will seek to block the proposed

acquisition of HHI.

Assa Abloy and Spectrum Brands are vigorously contesting in court the effort by the DOJ to oppose the proposed transaction. On the 14th of October, Assa Abloy filed its formal response to the District Court of Columbia noting

the following:

"To fully resolve all the alleged competitive concerns surrounding the acquisition of HHI, Assa Abloy has initiated a sales process of Emtek and the Smart Residential business in the U.S. and Canada. These businesses represented sales of about \$350 million in 2021. Residential businesses outside of the U.S. and Canada are not in scope to be divested."

"We believe strongly in the acquisition of HHI as we together will increase investments in the resi-

dential segments and strengthen our combined product offering for the benefit of consumers. The proposed remedies eliminate all competitive concerns alleged by the DOJ," says *Nico Delvaux*, President and CEO of Assa Abloy.

"The proposed divestitures are dependent on our successful defence against the DOJ regarding the planned acquisition of HHI. Assa Abloy will remain fully committed to these excellent businesses during the process and all the businesses will continue to operate as normal".

Genetec recognised as fastest growing firm in access control

Montreal, Canada

According to the latest report from research organisation Omdia, Genetec is ranked as the fastest-growing access control software provider in the world for the second year in a row.

The report shows Genetec taking market share from other access control vendors and strengthening its number two position globally. Regionally, Genetec experienced the most organic growth in the Americas and was the fastest-growing software provider in EMEA.

Migration to open platforms

Traditionally dominated by proprietary solutions with slow innovation cycles, the access control industry provided few options for IT and cyber-security conscious

customers. Modern enterprises of all sizes are now looking to migrate to unified, open-architecture, and secure access control solutions that allow them to choose hardware that best suits their needs. This has, in large part, according to Genetec, fuelled by the company's rapid market share gains.

"While traditional, proprietary access control vendors were hard hit the last couple of years, Genetec grew by almost 20 percent globally, gaining ground in both the Americas region and in EMEA," said

Bryan Montany, Physical Security Analyst at Omdia.

Organically growth

Genetec credits its growth to the continual innovation of its unified security platform, Security Center, where access control functions go beyond locking and unlocking doors and address non-traditional applications such as enclosure management. Genetec unified solutions are designed to reveal new insights that help organisations better understand their business and operations and provide customers with a measurable return on their investment.

"At a time when many traditional access control vendors are trying to maintain market share



Guy Chenard, Chief Commercial Officer, Genetec Inc.

through mergers and acquisitions, Genetec is growing its access control business organically by focusing on innovative, non-proprietary, and cyber secure solutions that meet the needs of forward-thinking organisations, while laying the foundation for their future growth," said Guy Chenard, Chief Commercial Officer, Genetec Inc.

March Networks transitions to the cloud with new acquisition

Ontario, Canada

March Networks, a global video surveillance and video-based business intelligence provider, has acquired the Focus business analytics platform from Do IT Software Sp.z.o.o based in Gliwice, Poland.

The transaction fast-tracks its transition to cloud video and gives March Networks a new cloud-based data analytics platform that will be integrated into its existing Searchlight software, further extending its ability to deliver operational and business intelligence to its customers.

Centre for advanced data and AI

March Networks completed the acquisition on October 1. The

majority of the Do IT Software staff will join the newly established March Networks Poland and the facility will serve as the company's newly created development centre for advanced data analytics and artificial intelligence (AI).

Searchlight is a highly flexible platform that combines high-definition video surveillance with various data sources including transactional data from point of sale systems, metadata from AI-enabled cameras and other

forms of sensor-driven data to give organisations a complete view of their business. Using the platform, corporations can address security and fraud concerns, while also gaining insights into operational, compliance, and sales and marketing issues.

Cloud-based platform

With the new Focus software integration, Searchlight will be further enhanced so all data lives in the cloud. A modern and intuitive user interface will also feature customisable reports and dashboards, allowing customers to configure a multitude of reports, establish key performance indicators (KPIs), monitor trends, and set targets for improvement.

Once the integration with Focus is complete, March Networks Searchlight users in 15 000 business locations worldwide will be able to upgrade to the new cloud-based platform and take advantage of its scalability and flexibility.

"We are very excited to add the Focus platform to the March Networks product portfolio. This represents our first acquisition since being acquired by Delta in December," said Peter Strom, President and CEO of March Networks.

Release in Q1 2023

Searchlight March Networks is targeting to launch the next evolution of Searchlight integrated with the cloud-based Focus platform in Q1 2023.

GJD sells into Ava Risk Group

Heywood, Greater Manchester (UK)

GJD Manufacturing Limited (GJD) has entered into a sale and purchase agreement to sell 100 percent of its shares to Ava Risk Group Limited. The Ava Risk Group provides technologies and services to protect critical and high value assets and infrastructure. It operates three business segments – Future Fibre

Technology (FFT), BQT Solutions and now GJD Manufacturing. FFT is a provider of 'smart' fibre optic sensing systems for security and condition monitoring for a range of applications including perimeters, pipelines, conveyors, power cables and data networks. BQT provides the market with high security bio-

metric readers, access control and electronic locking products while GJD is a manufacturer of perimeter detectors, illuminators and ANPR cameras.

"Our combined product portfolio is highly relevant to our respective end customers, and we can turbo charge their distribution by

combining GJD's go-to-market access with Ava's current growth strategy. Importantly, this transaction represents significant strategic value for both FFT and BQT and is complementary to their existing growth initiatives," comments Ava Risk Group Chief Executive Officer, Rob Broomfield.

Assa Abloy acquires German home automation firm

Stockholm, Sweden

Assa Abloy has acquired Bird Home Automation GmbH, a German manufacturer of IP door intercom for single and multi-family buildings, for indoor station or smartphone control, marketed under the trademark Doorbird.

“Doorbird is a strategic technological addition to the Assa Abloy Group and will reinforce our offering with IP door intercom and provide complementary

growth opportunities,” says *Nico Delvaux*, President and CEO of Assa Abloy.

“This acquisition supports our efforts to accelerate our growth in the smart residential segment and continue our journey as a leader in home security. Doorbird has built a successful and attractive product and service offering, that is highly respected in the markets they serve, and I look forward to working with them on their

evolution within the Assa Abloy family,” states *Neil Vann*, Executive Vice President of Assa Abloy and Head of EMEA Division.

Doorbird was established in 2014 and has around 110 employees, with its main office located in Berlin, Germany. Sales for 2021 amounted to about €21 million with a strong EBIT margin. The acquisition will be accretive to EPS from the start.



Nico Delvaux, CEO and President at Assa Abloy.

Securitas sets progressive financial targets following Stanley acquisition

Stockholm, Sweden

Following the acquisition of Stanley Security, completed and consolidated into Securitas towards the end of July, the group has defined new financial targets.

The new financial targets are aligned with the strategy to be a security solutions partner with world-leading technology and expertise, strongly positioned to deliver superior growth and increased margins:

- 8–10 percent technology & solutions annual average real sales growth
- 8 percent Group operating margin by year-end 2025, with a >10 percent long-term operating margin ambition
- A net debt to EBITDA ratio below 3.0x

The new margin target replaces the previous target of an average increase in earnings per share of 10 percent and the margin targets in the respective business segments related to the business transformation programmes in the Group.

The existing operating cash flow target of 70–80 percent of operating income before amortisation remains the same, and the new capital structure target of a net debt to EBITDA ratio of below 3.0x replaces the previous net debt to EBITDA ratio of on average 2.5x, and is estimated to

be achieved in 2024.

The dividend policy is unchanged, remaining in a range of 50–60 percent of annual net income over time.

The strategic transformation ambition – to double the security solutions and electronic security sales by 2023, compared to 2018, is discontinued as the ambition was already fulfilled by the acquisition of Stanley Security.

According to the company, the integration of Stanley Security is proceeding well and according to plan. In 2021, Stanley Security had an installation backlog growth of 33 percent. Adjusted sales were approximately MUSD 1 650 with organic sales growth of 7 percent during the year, and the adjusted EBITDA margin was 11 percent.

For the first six months of 2022, Stanley Security had a record installation backlog, with growth of 18 percent compared to the same period last year. Adjusted sales were approximately MUSD 805 with organic sales growth of 3 percent. The adjusted EBITDA margin was 9 percent, temporarily impacted by the corona pandemic, supply chain issues, inflationary cost increases and obsolete pricing processes. The profitability improved in the second quarter 2022 compared to the first quarter 2022 with continued positive trend. Pricing, efficiency and cost actions have been implemented, and together with solid commercial momentum and accelerated value creation execution, profitability is expected to improve going forward.

Acre completes acquisition of Security Identification Systems

Dallas, Tx (USA)

Acre has completed its acquisition of Security Identification Systems Corporation (SISCO.)

Founded in 1994 in South Florida, **SISCO** develops visitor management solutions for credentialing, compliance, and tracking. It provides world-class security products and services using state-of-the-art technologies and integrated security solutions for an ever-changing business environment that can be deployed on-premise or SaaS (hosted or cloud). SISCO operates

in various key verticals, such as airports, healthcare, education and cruise ships.

“SISCO has been a pioneer in the visitor management segment and has continued to innovate and expand its roadmap over the years,” said *Don Joos*, CEO, Acre.

“This acquisition will improve our reach and ability to respond to the ever-increasing need for greater

oversight of who is within a facility at any given time. It will also significantly increase our innovation capabilities. We are thrilled to welcome the talent and energy of the SISCO organisation to our team.”

The deal is part of Acre’s continued investment strategy in proven and trusted technologies that aim to propel organisations to better control risk and ensure security. Since its inception, Acre’s goal has been to bring the industry’s

best technology into its broader portfolio. At the end of 2021, it acquired Feenics and Matrix to address evolving customer requirements in rapidly growing cloud and vertical markets. Acre, which Triton purchased in March 2021, continues to look for opportunities to consolidate the industry, create global scale and expand the solution portfolio with innovative, leading technologies.

The financial details of the transaction were not disclosed.



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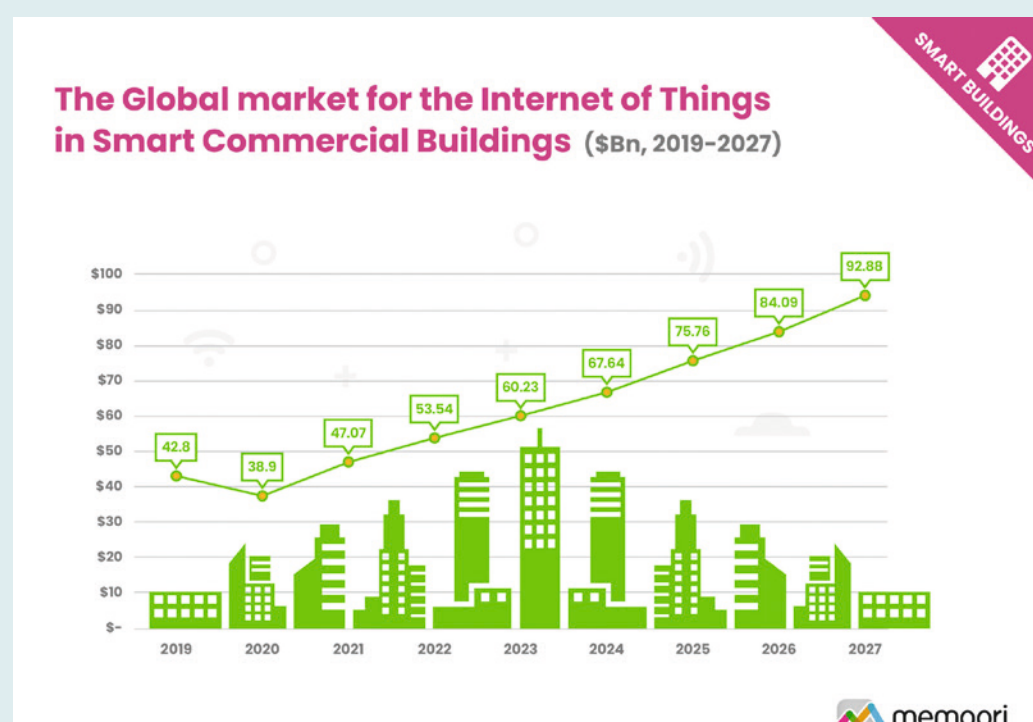
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The IoT in smart commercial buildings market sees healthy growth

The smart building market is heating up again, not least the market for Building Internet of Things (BLoT). According to the latest market research report from Memoori the BLoT market has made a healthy recovery through 2021, growing by 21% to rise above the 2019 market total, at just over \$47 billion.

The analysts forecast that the market will continue to grow at a healthy 12% CAGR, rising from \$47.07 billion in 2021 to a forecasted \$92.88 billion by 2027.

For example, remotely accessing building system networks and devices to monitor and configure performance during the pandemic proved challenging for those without the pre-requisite systems already in place. In many cases this led to energy being wasted on heating virtually empty buildings. Whilst office building occupancy dropped to near zero in some countries, energy use only fell by 10–15%.



The smart building market is heating up again, not least the market for Building Internet of Things (BLoT).

The latest information also makes the forecast that the number of connected IoT devices installed in commercial smart buildings could grow at a healthy 11.1% CAGR for the forecast period, rising from an estimated 1.264 billion in 2021 to over 2.5 billion by 2027.

The Building Internet of Things (BLoT) market is evolving. Where previously, the focus of the market was to deliver the prerequisite technologies in the BLoT hardware stack, such as devices, sensors, and connectivity. Now, there appears to be a transition to more results-based and analytics-driven applications that seek to bring about certain outcomes.

The researchers found there is an increasing industry push towards improving the value of data generated by the BLoT through improved systems integration, as opposed to limited siloed systems. To achieve this within buildings, a layered horizontal systems architecture is increasingly being advocated for, which is technology agnostic, by using open standards, open protocols, and non-proprietary solutions.

There is an increasing industry push towards integrating building networks, systems, sensors, devices, and cloud-based software to offer a robust and secure archi-

ture. Ensuring that all components can communicate with each other and act as a cohesive whole, instead of being limited as siloed systems. To achieve this, a layered horizontal systems architecture is increasingly being advocated for, to support delivery options in a structured way.

The BLoT digital divide

The pandemic has gone on to validate the BLoT investments of more forward-thinking building owners and operators. Effectively demonstrating the value of many previously existing BLoT solutions to deliver more resilient and efficient business operations.

Complex competitive landscape

The competitive landscape for BLoT remains incredibly complex and varied. The level of fragmentation continues to be observed in the market can act as a source of confusion and frustration for buyers, with many vendors of point solutions and platforms vying for attention. Leading platform solution providers are beginning to emerge, however, and the user base seems likely to coalesce around a more limited number of platform providers, with those unable to maintain a sustainable user base being forced to merge or withdraw from the market.

The analysts also see a greater degree of collaboration between the IT and OT worlds. A growing number of vendors are coalescing around cloud solutions provided by major IT companies such as Amazon and Microsoft. This should facilitate the development



Identity – the core of the smart secure building

Smart buildings are emerging to serve demanding efficiency needs for improved workflows, optimised building economy and sustainability.

In order to achieve these aims, secure identities are required. Therefore, it is natural that companies in ID management and access control are close to the market for smart buildings.

Investments in smart buildings are driven by efficiency goals, both from a financial and a sustainability perspective. There are big energy and administration savings to be made here.

Precisely the administration advantages are something that drives a lot of growth for companies in ID management and access control. The need to have control over individuals' identities in a simple way, to be able to allow or deny access to a building, should be just a few keystrokes away.

Assigning, blocking and requesting keys must be quick, easy and secure regardless of where the personnel concerned are located. The connected world offers just that.

New behaviours

Secure identities are thus a key factor when it comes to securing the smart building. Therefore, there is a large market here for companies in the security industry. The pandemic has definitely affected and accelerated developments in the efficient utilisation of commercial buildings. This, above all applies to offices, which in many companies are designed for significantly more people than those who are there at the same time. The staff now want and are allowed to work from home, often several days a week.

Property optimisation

Commercial properties are shared by people with both permanent and temporary permissions. The permissions often only apply to certain areas and certain times. In the emerging smart commercial properties, the effective utilisation

will certainly increase significantly. The spaces will be shared to an even greater degree both by permanent staff who do not have fixed workplaces and temporary guests who need an office or meeting room for the day or week. Or why not access rights to the gym, sauna or restaurants in the property.

The demand for booking services will explode and thus create new opportunities for the security industry's actors in ID and access control. With increasingly complex smart buildings, secure, efficient and flexible control and administration of the property's identities and authorisations is required.

The industry is needed

The security industry's suppliers can – with their solutions – contribute to both increased physical security and protection of data and, in addition, contribute to a number of other things such as occupancy management, which leads to a more efficient and sustainable use of properties. They are therefore an obvious part of the smart building ecosystem.

Security system is prioritised

That connected security systems in general and access control systems in particular have taken a pool position in today's increasingly smart buildings is confirmed by Schneider Electric's trend report from 2021. In it, the outcome of 125 conducted interviews with property managers, operations managers, energy managers and technical managers was published. Together they represented:

- **Private offices** (64 respondents)



Illustration: Timisu / Pixabay

Smart buildings are emerging to serve demanding efficiency needs for improved workflows, optimised building economy and sustainability.

• Publicly owned premises (61)

The respondents were asked which of the solutions for operation and control already exist today in all or parts of the property holdings? The answers were as follows:

- **Access control** 60 percent.
- **Burglar alarm** 56 percent.
- **Fire alarm** 55 percent.
- **Energy monitoring** 46 percent
- **Heating/ventilation** 36 percent.
- **Video surveillance** 29 percent.
- **Lighting system** 26 percent.
- **Sun shielding** 5 percent.
- **Don't know** 3 percent.

Access control systems, burglar alarms and fire alarms are at the top, ahead of energy monitoring and heating/ventilation. Furthermore, video surveillance is ahead of lightning systems and sun shielding.

Access control trends

In international reports on smart buildings, there is usually talk of an overarching trend, namely open systems. Other clear trends are wireless and touchless. It will also characterise the access systems in the future.

The time of the proprietary systems is thus at an end. Customers want to be able to change hardware and make their own choice. They don't want to be locked into a solution.

Another trend is touchless access control, where users simply hold their phone or other device near a sensor to gain access to a space. Paired with the right on-device authentication system, these systems can be as or more secure than "dumb" ID badges.

In high security areas, touchless access control can form only the first layer of security. Biometric identification can be implemented as the second.

Add to this AI-powered software for access control monitoring. It will be more common in the future. Using existing cameras without needing any additional hardware to be deployed, the software can contribute with a more tailgating detection, but also point out anomalies in cardholder behaviour, to mention a few examples.

A multi billion market

The smart building market will have an undisputable impact on the sales of security systems. And it is a huge market. According to a report from Fortune Business Insight, the global smart building market is projected to grow from \$80.62 billion in 2022 to \$328.62 billion by 2029, at a CAGR of 22.2 percent. This means big opportunities for the security technology market.



Ross Wilks, Head of Marketing, ACRE International

Cloud-based access control is the

Cloud-based access control offers many advantages, not least now that the market for smart buildings is starting to gain momentum.

Ross Wilks, Head of Marketing at Acre International, sees in the cloud that access control providers can offer end users so much more than just security.

The identity of people and things is the key in both smart buildings and smart cities, which must be characterised by efficiency, sustainability and safety. That whole thinking is in line with what cloud-based access control offers, according to Acre's marketing manager Ross Wilks, who gives his views on the advantages that cloud-based access control offers compared to traditional on-premise access control systems.

Cloud-based access control can be a valuable tool or service for any organisation looking to track and manage their access control system, on-site or remotely. When coupled with a surveillance system covering access points, a quality access control system ensures that only autho-

to manage and operate systems through the cloud, users can do so virtually anywhere using an Internet connection and a mobile or web browser or app rather than an on-site location. In a post-Covid-19 landscape, this can be a valuable capability to possess.

"The mobility and flexibility that the cloud provides allow organisations to manage their system remotely, adding an extra layer of flexibility for day-to-day operations. Take staffing changes, for example. Suppose an employee with access to sensitive areas makes a sudden exit from a company. In that case, that security team needs the ability to revoke their access to the site at a moment's notice. With a cloud-based system, this is no longer a

With a cloud-based system, companies can save time and money by avoiding tedious installations by linking their devices to the cloud."

risied personnel access the sensitive parts of any secure building. But what separates traditional access control systems from cloud-based access control systems?

"The big difference is that while conventional access control systems are typically managed and operated on-site, cloud-based access control systems can be managed and operated virtually anywhere via the cloud. However, numerous benefits present themselves to both end-users and integrators," states Ross Wilks.

Mobility and Flexibility

One of the main advantages, according to Ross Wilks, is that cloud-based access control systems provide mobility. With the capacity

problem," says Ross Wilks.

Ross Wilks also emphasises the power to grant and revoke access from individuals – be it in the office or at home – makes the process more manageable for the security team and ensures that sensitive materials are secured promptly after the loss of a team member.

"In addition, updating and maintaining the access control system is made easier on the cloud by providing staff members access to it remotely, allowing them the option to create modifications at any point in time. With traditional access control systems, organisations often experience problems with active key cards that weren't adequately deactivated, creating potential risks and possible security breaches."



Ross Wilks, Head of Marketing, Acre International.

Ease of use

In general, cloud-based applications are often considered user-friendly and straightforward to comprehend, claims Ross Wilks.

"With the mobility provided by the cloud and flexibility with multiple platforms and devices, security team members with access to the system will likely find the cloud-based applications preferable over the on-site alternative, given the options for customisation and simplicity for each available device," he says.

"With a solely on-premise access control system, training can take longer, and more responsibility is placed on the heads of the security team. While most security teams are able to appropriately use on-prem systems, the cloud creates a streamlined and simple solution that protects the infrastructure and cuts down on human error."

Lower Costs

Ross Wilks also highlights that cloud-based systems offer companies the option of a lower total cost of ownership, mentioning that the cloud can save organisations money by negating the cost of data storage on-site, the cost of powering extra hardware, and unnecessary on-site servers.

He also points out the business models have important differences. Traditional on-premise systems require an upfront investment meanwhile a cloud-based solution is an operating expense, which offers many advantages and ultimately

depends on the package selected, according to Ross Wilks.

"By moving access control to the cloud, none of these costs that come with operating on-prem are present, and all of these costs are covered in one fee from your cloud provider. When on-site access control data storage and maintenance costs stack up, it may be time to consider switching to an off-site alternative."

Data Redundancy

In the world of access control, retaining data is essential. It helps security teams track who is allowed access to certain areas of a site, and it ensures that individuals are who they say they are. It also ensures that data is protected in the case of an emergency. For instance, power failures, workplace accidents, hardware and software malfunctions, and various other factors can cause valuable company data to become compromised. However, this is only a problem if the company's security data is stored on-premises, claims Ross Wilks.

"Additionally, users can rest assured knowing that their data is cyber-secure and their system is compliant with the latest regulatory, security, and privacy regulations. When an organisation's access control data is stored in the cloud, we can rest easy knowing that the likelihood of catastrophic data loss is dramatically reduced due to the redundancy that the cloud offers with off-premises data storage," he says.

key to smart buildings

“This is not to imply that companies should not store data on-premises, but ensuring data redundancy makes for an excellent insurance policy.”

Easier Installation

With on-prem access control, companies often rely on abundant hardware to connect their various access control applications to one unified system. More often than not, this turns out to be costly and time-consuming, according to Ross Wilks.

“With a cloud-based system, companies can save time and money by avoiding tedious installations by linking their devices to the cloud. By connecting on-premises hardware and software to the cloud, access control installations can be made faster, easier, and more convenient overall for everyone involved by avoiding tedious maintenance and updates. Instead of halting day-to-day operations to update system software, companies can update everything all at once from the cloud, providing a smooth, seamless transition for workers and visitors alike.”

Sustainability

Furthermore, Ross Wilks claims that organisations looking for longevity, sustainability, and environmentally friendly solutions in their security infrastructure should seriously consider the cloud.

“Cloud solutions have been proven to help reduce an organisation’s carbon footprint. Besides the numerous benefits for both users and integrators, organisations that embrace cloud computing and storage solutions can decrease the emissions of running applications. In some instances, this can be reduced by 90% compared to using on-premise solutions,” he says.

Simple Integrations

“Integrations make the world of access control go round,” states Ross Wilks. He says that the ability to quickly and effectively integrate other valuable, highly sought-



With cloud-based computing and storage solutions, emissions can in some cases be reduced by 90 percent compared to using local access control.

after pieces of software into your hardware or the ability to make a piece of software compatible with hardware from other companies is a trait that genuinely sets high-quality organisations apart from the rest.

“Due to the nature of the cloud, it is much easier to integrate access control software into other systems, such as surveillance systems, intercoms, touch screens, and various other applications. Virtually any device with access to the Internet can be made to access the cloud, so it’s no surprise that cloud-based access control integrations are quick and easy compared to traditional access control integrations. But it is important to make sure that the hardware is compatible with the cloud provider’s solution beforehand”.

Customisation Options

While cloud apps are easy to figure out and are generally user-friendly, that doesn’t mean the cloud is a ‘one design fits all’ solution.

“Given the nature of most cloud applications, it can be reasonably easy to customise the user interface, depending on the app. But more

importantly, security personnel can customise the system itself. With the proper credentials, administrators can grant and revoke permissions, create varying levels of access for specific staff members and visitors, and develop notifications and alerts when activity is detected in the building,” says Ross Wilks.

“With an on-prem access control system, making such changes would be tedious and time-consuming, but on the cloud, it takes a few clicks and the proper credentials to tailor the approach to your liking.”

Scalability

Finally, the cloud provides endless options for scalability. For instance, what if an organisation has multiple sites? With on-prem solutions,

this can become a problem, as numerous access control systems would need to be set up individually, each operating independently of one another.

“This can be time-consuming, as well as costly. However, with the cloud, access control systems in multiple locations can be managed and operated remotely from the same device, virtually anywhere, on any device”, states Ross Wilks and adds another important advantage.

“By switching to a cloud-based solution, organisations don’t have to rely on IT team members to correct all system malfunctions, given that providers can maintain the systems at their end, allowing IT workers to focus more on hardware problems at their respective building”.



With a cloud-based system, businesses can save time and money by easily linking their devices to the cloud.



Robert Jansson, Stid Security:

Non-NIS-compatible access control systems are an important security issue

There is a lot of talk about the opportunities and challenges of the connected society. But it is relatively quiet about the NIS directive, according to Robert Jansson, director of sales at Stid Security, Nordics, Eastern Europe and South Africa. Jansson takes a tough stance on the matter.

“NIS is a law and has to be implemented before 2025 in each country and affects the security industry in general and everyone delivers systems that handle identities in particular” he says.

With a global development towards more and more smart buildings and smart cities where sensors capture events and where identities and other data are collected, stored and analysed in order to make operations and processes more efficient in various ways. The possibilities are endless, but it's also true that vulnerabilities are increasing as the IoT community expands.

For critical infrastructure, it is particularly serious. Therefore, the EU countries' joint cyber security agency Enisa has launched NIS, the Directive on security of network and information systems, which sets requirements for security in networks and information systems. The NIS Act covers all companies that deliver socially important services and certain digital services covered by the NIS Act.

Difference between GDPR and NIS

That NIS compliance will be tightened via legislation brings to mind the implementation of GDPR. The difference, however, is that NIS is an EU directive with the aim of increasing Europe's resilience against cyber attacks by protecting IT systems and infrastructure. The purpose of GDPR is to protect personal data.

Another difference is that the GDPR is an EU regulation that can be directly applied in the member states legal system while the NIS is a directive applied by

each member state introducing local laws in the local legal systems.

Important security issue

In interviews and in debate articles, Robert Jansson has taken up the importance of suppliers and users of systems for ID management and access control starting to discuss NIS. At the recent security exhibition in Stockholm – Skydd – he participated in a panel discussion on the subject.

“The security industry's actors in access control must start their journey now. Non-NIS-compliant access control systems are an important security issue, not only for the industry but for society at large,” he says.

“The NIS directive will raise the EU member states' level of protection with regard to socially critical infrastructure. Therefore, the directive will become law in Sweden and other EU countries in 2025,” he states further.

French initiative behind NIS

Stid Security's heavy involvement in NIS has a historical background. Stid Security is a French manufacturer and developer of smart identification solutions and it is France where work on protecting personal identity began, according to Robert Jansson.

“There was already national legislation regarding identity protection, long before the GDPR became law in EU countries. It was also French authorities that

wanted to create an order that clarified how different systems become GDPR-compatible,” says Robert Jansson.

“The French cyber security agency Agence Nationale de la Sécurité des Systèmes d'information (Anssi) was commissioned to create a standard that described in clear steps how to build systems that ensure protection of personal identity.”

GDPR is not enough

Robert Jansson highlights the need for the NIS directive by giving an example of a company that has a biometric solution for access control.

“The biometric signature is stored in a hardware, system or in the cloud. The supplier claims that the solution is safe and approved as it is encrypted and no one can read the information stored in an EU country. In addition, the manufacturer or supplier of the solution is a well-known company domiciled in an EU country. It may sound safe, but it is not,” he says.

“The important thing is who has access to the key. If the solution is sold to a company that is fairly uninterested in the European GDPR legislation, then they have access to the users' biometric values, i.e. the identity.”

In the worst case, people's biometric data may be bought by the highest bidder and used in a way that is not compatible with European legislation and ethical guidelines.

NIS complements GDPR

NIS will be introduced in January 2023 and all countries then have two years to implement what the directive requires before NIS becomes law in 2025.

“NIS clarifies how identities in a pass system can and must be protected. The example of the biometric signature is just a variant



Robert Jansson calls for a discussion of how access control technology must become compatible with the NIS directive which will become law in 2025.

of how identities in a pass system can come into operation,” states Robert Jansson.

Dialogue is important

In Sweden, access control providers do not seem overly interested in publicly discussing NIS. Jansson suggests why that might be.

“Maybe it is because you have insufficient knowledge and that you are late in the process. I hope that is not the case. An open dialogue between us suppliers where we discuss the way forward towards NIS-compatible solutions for systems that handle ID and access control should be a matter of course,” says Robert Jansson, who believes that Stid Security has a lot to offer in such a dialogue.

“We have followed the entire development of the NIS directive and made the technology available through the European organisation SPAC at SPAC's web page. Everything required to technically comply with the law and manage all flows of identities and identity-related information can be downloaded free of charge there.”

The SPAC organisation represents European technology and standards and works to secure identity-related information.

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Assa Abloy Pulse energy harvesting locks are the perfect access solutions for the sustainable construction project "A Place To" in Denmark and institutions. The offering includes doors, door and window hardware, locks, access control and services.

Photo: A Place To/ ASSA ABLOY

Assa Abloy:

Energy savings through wireless access control

Installation, daily operation and extending: Electronic access control uses energy over its entire life-cycle. Yet the energy used at each stage is not set in stone. One technology has a clear energy-efficiency advantage: wireless.

Wireless access control offers the same security benefits as wiring doors and other openings. However, because it is easier to install and powered by batteries or energy-harvesting technology, a wireless lock saves energy over an equivalent wired device.

Many advantages

Wire-free installation is faster and less intrusive. Most wireless devices require little or no drilling around a door, whereas every wired lock needs cabling. Wireless devices upgrade security without inconveniencing staff or disturbing work routines.

Typically, a wireless device is fitted without damaging walls or doors — a crucial advantage for businesses operating from rented office space. Quicker installation means fewer installer journeys to and from premises, another energy saving in fuel consumption.

Energy savings in use

The Harvard Business Review* suggests energy efficiency is now one of the "key levers for business success". In use, battery powered locks consume less energy than wired locks, which traditionally work via magnets connected to mains electricity. To maintain security, they are "always on".

Wireless locks, on the other

hand, only draw power when presented with a credential. This creates another potential energy saving: more than 70%, according to one Assa Abloy benchmarking study**.

Related costs are also lower for wireless. For maintenance, wireless locks need just a battery change, once every two years (on average). Such efficiency benefits were a major reason why the University of St Andrews chose Aperio wireless escutcheons for almost 1,700 student residences***.

Energy-harvesting technology

Self-powered access control uses energy-harvesting technology rather than mains electricity or batteries. In a self-powered locking cylinder, the energy generated by inserting or turning a programmable key is harvested to power digital security.

One such solution is Assa Abloy Pulse. Businesses issue an authorised user with one Pulse key pre-programmed with all their access rights. Premises can equip almost

any opening with Pulse, including door cylinders, cam-locks, furniture locks and padlocks.

"A Pulse energy-harvesting digital locking solution can be managed via the cloud as part of the Incedo access solution," says Joachim Mahlstedt, Head of Commercial Development Digital Access Solutions at Assa Abloy Opening Solutions EMEA.

Each Pulse key also has an RFID chip inside for readers on wireless locks or mounted on a wall: There's no need for a user to carry two credentials. This added convenience was one factor in Denmark's sustainable project "A Place To" for housing development, selecting Pulse. Residents just unlock apartments with a Pulse key which also operates RFID readers to open communal areas****.

Fitting Pulse locks is energy efficient, too – an installer simply swaps out its existing mechanical cylinder and slots in a Pulse device. No batteries, no wiring.

Enables changes in space use and work patterns

Wireless systems provide flexibility in reconfiguring office space. Locks give access control another stage in its life-cycle, because they are much easier to move than wired devices.

In this way, wireless locking gives businesses the flexibility to



This Scottish university recently installed Aperio wireless locks to integrate 1600 doors into their electronic access system - enabling them to manage student traffic better, in real-time, and cut energy costs.

Photo: A Place To/ ASSA ABLOY

adapt. A 2022 Future Forum survey found that 58% of knowledge workers already follow a hybrid work pattern: "Flexibility is the expectation – and increasingly the norm," the report concludes****.

While the task of relocating a wired door is complex and energy intensive – or impossible – wireless devices are simply moved to wherever is convenient. They help businesses rebalance their space between offices, co-working or hot-desking, for example.

"Walls cannot usually be moved," says Joachim Mahlstedt. "However, wireless locks can. Once again, the energy consumed when choosing wireless locks is minimal when compared to many alternatives."

*: <https://hbr.org/2017/01/energy-strategy-for-the-c-suite>

***: <https://campaigns.assaabloyopeningsolutions.eu/aperio-cost-savings>

***: <https://internationalsecurityjournal.com/access-control-education-institution/>

****: <https://internationalsecurityjournal.com/assa-abloy-pulse-access-control/>

*****: <https://futureforum.com/wp-content/uploads/2022/01/Future-Forum-Pulse-Report-January-2022.pdf>

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The winners: Baudouine Genouville, Suprema (Access Control), Johannes Ahlgren, Eagle Eye Networks (Video Surveillance) and Raffaele De Astis from Cias Elettronica (Alarm & Detection).

Detektor International Award 2021

On October 25, the 22nd Detektor International Award prize ceremony took place at an industry dinner, held at the International Stockholm Fair (Stockholmsmässan), after the first day of Skydd, the largest security exhibition in Scandinavia.

Stockholm, Sweden

Three first prize winners presented and celebrated as well as the other six finalists who received the Innovative Achievement Award.

The presentation on stage was made by Lennart Alexandrie, CEO of AR Media International and the founder and publisher of the security trade magazine

Detektor International. He said that innovation and usability are the key priorities for the editorial board of Detektor, when selecting nominees for the Detektor International Award.

So here are the products, rewarded for living up to these criteria in 2022.

Alarm & Detection

The overall winner 2022

Synapses from Cias Elettronica (Italy)

Self-adaptive multisensor system from Cias Elettronica (Italy), was presented as the first prize winner in the category of Alarm and Detection. Synapses is a multi-sensor system that combines perimeter sensors with intelligent video. It performs various video analysis algorithms including deep learning. The FoV (Field Of View) of each connected camera can be distributed in eight different areas and paired with 32 field devices.

In the video stream (via RTSP IP video stream), different targets can be distinguished, such as human, car or animal. The response is sent back to the sensor, which dynamically adjusts the actual threshold values to optimise its own detection behaviour.

THE JURY'S MOTIVATION: "This self-adaptive multi sensor system proves once again CIAS' outstanding ability to find new ways to use contemporary technology and create intelligent solutions to meet the complex challenges that go with perimeter surveillance."

The Innovative Achievement Award 2022

Ksenia Lares 4.0 from Ksenia Security (Italy)
Autovu Clouddrunner from Genetec (Canada)

Ksenia Lares 4.0 is a central device and an IoT platform that offers a combined security and home automation solution. No software is required as programming and control takes place via an app or a web

browser. A modular design makes the system easy to expand in case of new needs.

THE JURY'S MOTIVATION: "With its commitment to evolving an intrusion control panel into a versatile and user friendly IoT platform for security and home automation, there is no doubt that Ksenia is contributing to the modernisation of the professional security market."

Autovu Clouddrunner is a new cloud-based system which detects, analyses and stores accurate vehicle identification data to facilitate the work of the police to fight and investigate crime. Regardless of light or weather conditions, vehicles linked to crime are detected and identified. Clouddrunner uses a high performance solar powered automated license plate camera (CR-H2) powered by the Autovu Machine Learning Core (MLC) – a neural network-based analysis engine for vehicle recognition. The CR-H2 camera can also identify vehicle type, colour and react to behaviour, estimate speeds and record direction of travel which facilitates police searches, even when license plate information is missing.

THE JURY'S MOTIVATION: "With its solar-powered automated number plate camera and neural network-based vehicle recognition analysis engine, Autovu Clouddrunner can become a game changer for police investigations – a brilliant example of Genetec's innovation capability"



ID & Access Control

The overall winner 2022

Biostation 3 from Suprema (South Korea)

Biostation 3 is an access control terminal with facial recognition, but also offers other contactless authentication options to improve ease of use, including QR codes, barcodes, mobile cards and RFID cards. Biostation 3 uses AI algorithms locally, with a built-in NPU to maximize the performance of the AI engine. Accurate authentication is also offered for faces with different types and colours of masks, hairstyles, hats and glasses. To protect personal data, Suprema's Face Template on Mobile authentication method allows users to store and manage their face authentication template on their mobile phone without having to store it in the company's database.



THE JURY'S MOTIVATION: "With its powerful AI engine and unique face on the mobile feature, Biostation 3 offers the market a contemporary solution for secure authentication and protection of users' personal data – truly a winning concept"

The Innovative Achievement Award 2022

Specter Nano from Stid Security (France)

3D Fly from TBS (Switzerland)

With **Specter Nano**, both the vehicle and the driver can be detected with multi-factor authentication. The vehicle normally has a UHF tag that the Specter Nano reads at up to about seven metres, but it can also wait for a second authentication to start reading the tag through an input from an external system such as license plate recognition, vehicle detection device or ground loop. At the same time, the driver can also be detected and verified through Stid Mobile ID virtual high-security cards, at up to 20 metres, using one or two-factor authentication.



THE JURY'S MOTIVATION: "Once again Stid Security shows its capability to create innovative solutions that significantly improve the user experience while securing and eliminating vehicle access lines."



TBS 3D Fly is a contactless scanning terminal that uses fingerprints. In addition, the AI-assisted hand recognition technology increases user throughput without compromising security. With 3D Fly, users do not have to stay physically at the device. The 3D Fly sensor captures a high-resolution image of the entire hand and extracts the biometric characteristics from up to four fingers, resulting in superior recognition performance. This sensor technology – combined with fast data processing – identifies a person within a second.

THE JURY'S MOTIVATION: "With this remarkable touchless scanning terminal, using fingerprints mixed with AI-assisted hand recognition technology, TBS significantly increases user throughput without compromising on security."

Video Surveillance

The overall winner 2022

Smart Video Search from Eagle Eye Networks (USA)

was presented as the first prize winner in the category of Video Surveillance. Smart Video Search, a feature of Eagle Eye Cloud VMS that enables efficient search across all cameras and all monitored locations to quickly find the exact video sequence desired and smoothly share videos. No special cameras, hardware or local installation required. Similar to a web search, customers enter descriptions of what they are looking for, for example "man with blue shirt", "person with backpack" or "white Toyota car". The results can be filtered by date, time, location or camera. AI is used to index video in near real-time, making the video searchable almost instantly.



THE JURY'S MOTIVATION: "The Smart Video Search is a powerful response to the strong market demand for a video search function that offers ease of use, speed, search versatility and precision – a true victory for customised design."

The Innovative Achievement Award 2022

Axis M5000G from Axis Communications (Sweden)

Ava Quad from Ava Security, (UK)

Axis M5000-G is a PTZ camera for indoor areas up to 400 square metres. With three 5 MP sensors and a PTZ camera with 10x optical zoom and HDTV 1080p, you can get sweeping overviews and zoom in to get details with a single click on the monitor. The Axis M5000-G camera is also compatible with the Smart Home platform Z-Wave. This means that it can, for example, be connected wirelessly to, for example, a PIR detector that reacts to presence in a room and thus triggers the camera to switch on the lighting and send an alarm.



THE JURY'S MOTIVATION: "Offering an excellent surveillance solution for total situational awareness, Axis M5000-G is further proof of how Axis constantly finds new paths to serve the market's needs with contemporary technology solutions"

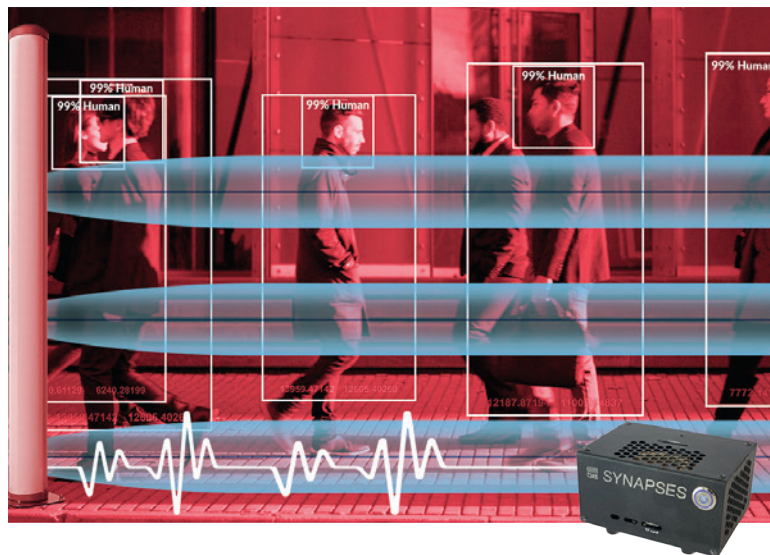
Ava Quad is said to be the first cloud-based security camera with multiple adjustable sensors. The zoom lenses provide complete coverage to up to four different areas over wide areas outdoors or indoor. The quad security camera has four independent 5 MP sensors with multi-exposure line-based HDR capabilities to deliver high image quality even in areas with high-contrast lighting. The quad multi-sensor camera includes embedded AI analytics, built-in storage of up to 30 days retention and integrates seamlessly with Ava Aware Cloud VMS system.



THE JURY'S MOTIVATION: "With the market's first cloud-based multi-sensor camera for security applications Ava Security is confirming its strong position at the forefront of the modern video surveillance technology sector."



**THE OVERALL
WINNER**
ALARM & DETECTION



Synapses
self-adaptive multisensor system

The jury's motivation:

*"This self-adaptive multi sensor system proves once again
CIAS' outstanding ability to find new ways to use contemporary technology and
create intelligent solutions to meet the complex challenges that goes with perimeter surveillance."*

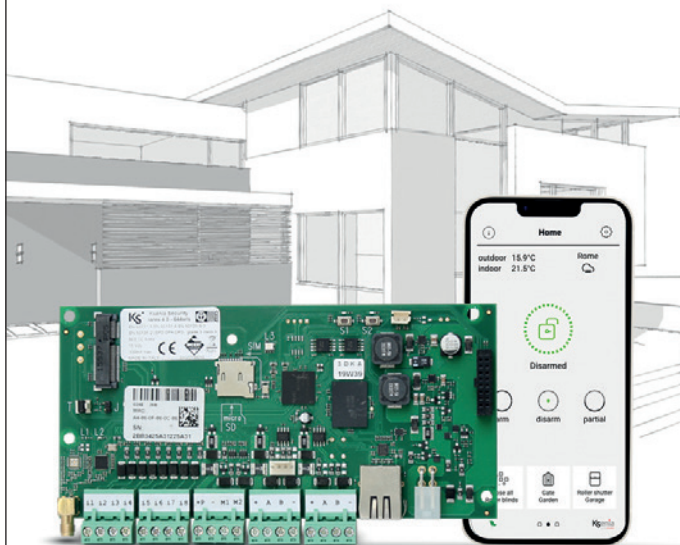


www.cias.it



Innovative Achievement 2022

INNOVATIVE ACHIEVEMENT AWARD
within the category of
ALARM & DETECTION



lares 4.0

The jury's motivation:

"With its commitment to evolving an intrusion control panel into a versatile and user friendly IoT platform for security and home automation, there is no doubt that Ksenia is contributing to the modernisation of the professional security market."

Ksenia[®]
security innovation

www.kseniasecurity.com



Innovative Achievement 2022

INNOVATIVE ACHIEVEMENT AWARD
within the category of
ALARM & DETECTION



Genetec Autovu Cloudrunner

The jury's motivation:

"With its solar-powered automated number plate camera and neural network-based vehicle recognition analysis engine, Autovu Cloudrunner can become a game changer for police investigations – a brilliant example of Genetec's innovation capability."

Genetec[™]

www.genetec.com



THE OVERALL
WINNER
ID & ACCESS CONTROL



BioStation 3

The jury's motivation:

"With its powerful AI engine and unique face on the mobile feature, BioStation 3 offers the market a contemporary solution for secure authentication and protection of users' personal data – truly a winning concept."

suprema

www.supremainc.com



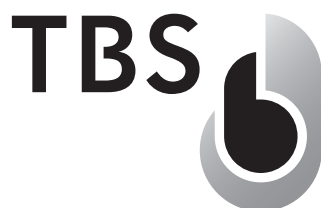
INNOVATIVE ACHIEVEMENT AWARD
within the category of
ID & ACCESS CONTROL



3D FLY

The jury's motivation:

"With this remarkable touchless scanning terminal, using fingerprints mixed with AI-assisted hand recognition technology, TBS significantly increases user throughput without compromising on security."



www.tbs-biometrics.com



INNOVATIVE ACHIEVEMENT AWARD
within the category of
ID & ACCESS CONTROL



The jury's motivation:

"Once again Stid Security shows its capability to create innovative solutions that significantly improve the user experience while securing and eliminating vehicle access lines."



www.stid-security.com



**THE OVERALL
WINNER**
VIDEO SURVEILLANCE



Smart Video Search

The jury's motivation:

"The Smart Video Search is a powerful response to the strong market demand for a video search function that offers ease of use, speed, search versatility and precision – a true victory for customized design".



www.een.com



INNOVATIVE ACHIEVEMENT AWARD
within the category of
VIDEO SURVEILLANCE



AXIS M5000-G

The jury's motivation:

"Offering an excellent surveillance solution for total situational awareness, Axis M5000-G is further proof of how Axis constantly find new paths to serve the market's needs with contemporary technology solutions."



www.axis.com



INNOVATIVE ACHIEVEMENT AWARD
within the category of
VIDEO SURVEILLANCE



Ava Quad

The jury's motivation:

"With the market's first cloud-based multi-sensor camera for security applications Ava Security is confirming its strong position in the forefront of the modern video surveillance technology sector."



www.avasecurity.com

Hikvision unveils industry's first 8K NVRs

Hangzhou, China

Hikvision is launching, what it claims to be the security industry's first "True 8K" NVRs that support video recording, storage, transferring, decoding and output of up to 8K super-high-resolution images.

The new M-Series NVRs can be used with a host of Hikvision cameras and are offered as being ideal for environments where a wide field of view, and extremely high image resolution is needed.

Hikvision has upgraded and optimised both the software and hardware of the M-Series NVR. These NVRs are equipped with an 8-core 64-bit high-performance SOC chip and high-capacity DDR4 memory kits, which provide full guarantee for, so called,

"True 8K" functionalities

The powerful hardware performance of the M-Series promises a stable guarantee for 8K video access. In the meantime, enabled with the innovative dynamic cache technology, the devices are able to adjust the cache required by each channel as per high-concurrency and high bit rate video stream. Being able to effectively adjust the dynamic application, the entire device's performance is improved, making it able to achieve efficient storage for 8K video stream.

The built-in high frame rate port forwarding optimisation technology not only ensures the data integrity, but also improves

the transferring efficiency of the 8K code stream, effectively reducing frame loss and delay.

Featured with a high-performance codec core that supports up to 32x 1080p at 30fps, the devices can efficiently decode 8K real-time streams for two channels at the same time, enabling smooth live view and playback.

The new series also adopts the HDMI2.1 interface, which supports an output resolution as high as 8K (7680x4320)/30HZ.

To ensure high-level system stability and data safety, the M-Series NVRs are equipped with an embedded file system that helps to increase productivity for data management tasks, a 1+1 re-



Hikvision claims that the powerful hardware performance of the M-Series promises a stable guarantee for 8K video access.

dundant power supply to provide load balancing, reduce pressure, and increase service life, as well as a "dual system" to avoid data loss and guarantee the reliability of the storage system.



Ksenia improves user convenience with Alexa integration

Ripatransone, Italy

With *Ksenia Security*, users can use voice commands to manage their home without making any efforts thanks to the control panel Lares 4.0 integration with Google Home and Amazon Alexa smart home voice assistants.

Both devices are equipped with a microphone, capable of recognising the voice and able to process the words pronounced

by the users to turn them into text, thanks to the Speech-to-text feature.

Subsequently, this text is interpreted thanks to an artificial intelligence on the cloud, allowing the voice assistants to generate the actions required by the users such as, for example, turn on/off the lights, arm/disarm an alarm system and much more.

Ksenia integration with Google Home and Amazon Alexa offers the opportunity to manage all smart devices in every moment of the day; combining comfort and innovation at the same time, it can greatly simplify daily actions within the home.

With this integration home automation becomes a comfortable ally, creating high levels of

interaction with the home thanks to a convenient user experience.

Moreover, the potential offered by the Lares 4.0 control panel makes it an ideal IoT platform with which Ksenia Home Automation devices and the intelligent assistants can cooperate to ensure efficiency, security, and home comfort.



Hanwha releases Wave VMS upgrade

Chertsey, Surrey (UK)

Designed in direct response to the prolific rise in the use of AI, version 5.0 of **Hanwha Techwin's** upgraded *Wisenet Wave VMS* expands its focus on leveraging the power of AI analytics, cyber security, system usability and new interactivity capabilities for administrators and end users.

Advanced Object Search is now available, so operators can search for objects which have been identified by analytics and stored in video archives by their specific attributes, such as object type, colour, gender, age, or clothing. This is also viewable in a new pop-out window to improve the flow of an operator's work.

Users can also configure backups of video archives based on associated system metadata, including motion, bookmarks, or objects, in addition to real-time, scheduled, or on-demand backups.

Other updates include new usability and admin features that make it easier to manage video footage from groups of cameras using a range of recording options, such as motion and low-res, or motion and objects. These can then be shared with specific user groups. Operators can also access easier playback features to see the last few minutes of an event and view more detailed information about the servers and cameras

recording an event. The login experience has also been improved to help operators easily sort, filter and hide systems.

The Desktop client will also download updates automatically and in the background to ensure the system is always entirely up to date with no vulnerabilities (users can choose to disable this automatic update if desired).

Cyber security has been enhanced with Two-Factor Authentication (2FA) as a system-wide setting that requires all users with cloud accounts to use an authentication app for access (Google Authenticator, Microsoft Authenticator or Duo Mobile).



Hanwha enhances Wisenet Wave platform in latest upgrade

VMS Server connections now use SSL/TLS Certificate pinning to prevent "man-in-the-middle" attacks. VMS Servers and Clients also use new session-based (bearer token) authentication by default. Video archives are encrypted and viewable only in desktop, mobile, and web clients — and work on any hard drive or storage medium.



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

Mobotix 7 series completed with three new models

Langmeil, Germany

Mobotix has completed its Mobotix 7 camera series with the Mobotix v71, c71, and p71 indoor cameras. The three new indoor models are designed to maximize the Mobotix 7 platform while lowering overall system costs relative to their outdoor counterparts.

In addition, the indoor models can be operated as energy-saving in *PoE Class 3* (max. 12.95 W) as an option. Depending on the application area, in many cases, the maximum illumination intensity or peripheral devices supplied via USB are not required. Easy switching to the higher PoE+ class for full power requirements is offered via the camera software.

Quality imaging day and night

The hemispherical c71 has a detailed 360° high resolution image sensor with 4K resolution, automatic day and night switching, and IR light. The v71 and p71 indoor domes - with and without domes - are available with

4K UHD (Ultra High Definition) or maximum light-sensitive 4MP Ultra Lowlight day & night sensors and lenses with 15° up to 120° (120° only for p71) horizontal viewing angle.

The new p71 is offered with an eye-catching design, which promises to completely avoid potential light reflections and thus guarantee the best possible view. For indoor applications with maximum lens and vandalism protection, such as in public buildings, the robust dome variant v71 with IK10 polycarbonate dome is recommended.

The wide range of lenses, the use of high-quality components and materials (e.g., aluminium housing), the additional IR LEDs



The three new indoor models are designed to maximize the Mobotix 7 platform while lowering overall system costs relative to their outdoor counterparts.

integrated into all models, and the high-resolution light-sensitive sensors ensure reliability, durability, and brilliant image quality in all lighting conditions, claims Mobotix.

Offer more than security

All new video systems are part of the open Mobotix 7 platform, designed to meet the most demanding challenges, using AI-based apps that enable customised and future-proof solutions.

"Video technology has long since gone beyond pure security applications," said Thomas Lausten, Mobotix CEO. "Our

intelligent systems detect hazards, support processes and workflows, and relieve the burden on people and equipment in many applications."

"For example, in healthcare, the systems take over monitoring tasks for nursing staff, freeing them up to provide more intensive personal care. In industry, we have already been able to achieve impressive savings through targeted process monitoring for companies in various sectors," said Lausten. "In some cases, the cameras pay for themselves in just a few months."



Genetec releases major upgrade for Security Center

Montreal, Canada

Genetec's newly released version 5.11, now offers customers access to every module of Security Center, including Omnicast (video monitoring), Synergis (access control), Autovu (automatic license plate recognition), Sipelia (intercom) and intrusion monitoring, right out-of-the-box.

Beyond simplifying the path to unification, *Security Center 5.11* includes a wide spectrum of powerful features as standard, including Kiwivision analytics (Privacy Protector, People Counting, Security Video Analytics, and Camera Integrity), Visitor Management, advanced mapping functions, threat level management, and more.

New Genetec web app

The new version of Security Center also features the brand-new Genetec Web App, a map-centric, portable, and intuitive interface that can be deployed on any machine/device with a modern

browser such as Chrome, Safari, Firefox, or Edge. This allows customers to monitor their facility, quickly respond to incidents in real time, follow guided procedures, collaborate with other operators, and manage card holders, from wherever they are.

A security system for everyone in the organisation

The new Genetec Web App extends enterprise security beyond the SOC (Security Operations Center) and empowers users who are not traditional security operators to interact with the security platform based on their role and needs. The app may be used by a

security manager wanting to look in on a satellite location remotely, or by a receptionist who needs to manage visitor access, for example. With event monitoring, card-holder management, and incident management, the Genetec Web App goes beyond security monitoring, in an intuitive, lightweight, web-based interface.

Easy reporting

The Genetec Web App also drastically simplifies investigations of specific events or incidents where very little is known about what happened except for where and when it occurred. Operators can easily produce reports that focus on specific types of events or investigate everything within a specific area and time range.

Simplified path to the cloud

Security Center 5.11 brings compatibility with the upcoming Streamvault Edge. Ideally suited



Genetec releases Version 5.11 of its Security Center management system.

for multi-site operations such as banking, retail, or businesses with remote or unmanned sites, Streamvault Edge simplifies the migration of existing security equipment to a hybrid-cloud architecture. The solution makes cameras cloud ready and enables secure local storage on cloud-managed appliances while removing the need for advanced IT expertise at remote sites.



Cyber security feature added to Axis' body-worn cameras

Lund, Sweden



All three new Ecliq programmable keys are IP67-rated with a long battery life

Axis Communications has added a new cyber security feature for its body-worn cameras.

Available with firmware release 11.0, signed video provides an additional layer of protection for

body worn solutions helping to enforce trust in video evidence. This valuable feature adds a cryptographic checksum into the video stream allowing the video to be reliably traced back to the unique Axis camera where it was produced and verifying that the footage hasn't been tampered with.

Investigation advantages

Whether in criminal or civil investigations, it's vital that the authenticity of video surveillance can be presented without question. Because any doubt, however small, can be used to undermine

the relevance of the video evidence. Now, thanks to signed video, it's possible to verify the authenticity of video throughout the entire chain of custody.

Within Axis cameras, signed video uses the Axis Edge Vault hardware component, one of the key security features built into Axis products. It is a secure cryptographic compute module which can be used for cryptographic operations on securely stored certificates. It provides tamper-protected storage, enabling each device to securely store sensitive data and provide for secure execution of applications.

Recorded images protected

Axis body worn solutions allow wearers to view video files on a mobile device or even in the VMS/EMS after the camera is docked and synched. However, for security purposes, camera wearers cannot access or share footage directly from the camera. Signed video provides an additional layer of protection for body worn solutions so assurance is promised that the authenticity of video evidence is protected – from the point of capture to the court room.



Collaboration results in smart outdoor latching solution

Oulu, Finland and Ennepetal, Germany

Collaboration between **Iloq Oy** and **Dirak GmbH** has resulted in a smart and secure latching solution for outdoor applications.

For the last two years Iloq and Dirak have been working together to develop a smart latching solution that would operate reliably in outdoor applications and provide enhanced security for critical infrastructure sectors such as power, utility and telecom.

For optimal protection against weather conditions and vandalism, the Iloq S50 half cylinder lock is fully integrated into the Dirak

swinghandle that is RC2-approved according to DIN EN 1630. The lock is opened using the power from an NFC-enabled smartphone making it a battery-free solution. Access rights to open the lock are sent to an app running on the smartphone. They can be updated and cancelled remotely and in real time. This keyless solution eliminates the risks related to lost or stolen physical keys and ensures that only the right people have access to the right sites at the right time.

The solution maximizes secu-

rity while enabling keyless access even in the most remote locations. The time and environmental impact of travelling between administration offices and sites to pick up and return keys has been eliminated. And with no batteries to be changed, there's never a risk of not being able to access the sites and no unrecyclable battery waste to be handled.

NFC technology, combined with cloud-based SaaS, PKI (Public Key Infrastructure), mutual authentication and strong AES-256 encryption (the highest



The new solution resulting from the Iloq and Dirak technical collaboration Image courtesy of Dirak via Iloq

Advanced Encryption Standard), has enabled Iloq and Dirak to produce a revolutionary concept for locking technology.



Optex launches new indoor Flip X detectors in EMEA

Maidenhead, Berkshire

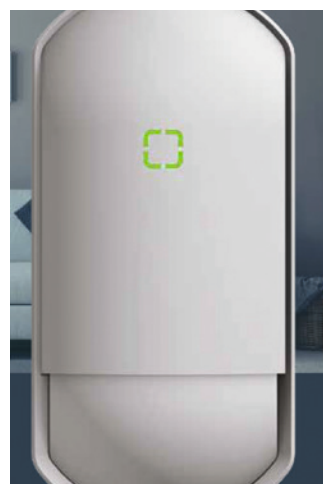
Flip X is a new range of flexible indoor sensors from **Optex**, featuring a bespoke pyroelectric sensor for increased performance that adapts to the human shape, and a unique lens that can be 'flipped' to provide both narrow and wide detection in a single sensor.

This 'flipped' lens effectively gives installers '2 sensors in 1' to satisfy multiple customer demands. By simply rotating the lens through 180°, the sensor can be used to protect narrow or long area such as a hallway up to 18m, or a wide, open area like a living

room or retail store up to 12m at 85°.

Flip X Standard, the first to be released from the new series, is a Grade 2 sensor, that also features a digitally enhanced signal recognition logic called Super Multi-Dimensional Analysis (SMDA), that means nuisance alarms caused by changes of light or temperature can be avoided.

Flip X sensors feature a sleek and compact design, with flexible mounting height options (between 2-3m) meaning they offer to seamlessly blend into the aesthetics of residential environ-



Optex' new Flip X detectors use a pyroelectric sensor for increased performance and a unique lens that can be 'flipped'.

ments, as well as buildings with higher ceilings. Thanks to an optional bracket it can be mounted on the wall or ceiling.

Flip X Standard is available as a PIR model, FLX-S-ST and for more challenging indoor environments as a dual-technology (PIR and microwave) model, FLX-S-DT. The latter is equipped with Optex' robust microwave module, ensuring the durability of the sensor in challenging environments, particularly humid climates, and higher levels of capture performance by tailoring the microwave to the IR detection area.



Bosch upgrades Praesensa PA and voice alarm system

Eindhoven and Grasbrunn, Germany

Bosch has released a new software upgrade for Praesensa, the IP-based public address and voice alarm system.

The new software version 1.50 features an improved user experience and enhanced connectivity, especially for large installations requiring multiple controllers and subsystems, along with more options for system redundancy. It is now possible to better use and directly assign multiple controllers in large networks with subnets, which is very often indispensable in typical projects like airports or oil/gas industrial applications.

Up to 3,000 networked devices



System designers will receive more flexibility designing large system networks with the updated release of Praesensa.

and 10,000 audio zones can be managed by a total of up to 20 system controllers, while both master controllers and subsystem controllers can be optionally utilised for controller redundancy.

Redundancy

The seamless EN 54 certified networked solution allows high-

level priority calls from fireman microphones to any zone or group throughout the entire Praesensa system, optimising security and fallback options. In case of a connection failure of a subsystem controller to the master controller, the subsystem controllers will continue to operate as an independent, self-sufficient system.

Easy-to-manage licensing system

Due to extended options to work with multi-controller systems, Bosch has established a new, future-proof and easy-to-manage licensing system; the user now only needs to acquire one license per subsystem, with no additional hardware purchases required.

The latest software allows the user to activate push-to-talk (PTT) messages more quickly when the call station is in idle mode, with a single push of a button. This is especially convenient when no extension keypad is connected and a handheld microphone is being used.

EN 54-16 certified components

In tandem with software improvements come several hardware enhancements. All Praesensa network components have EN 54-16 certification, including the Cisco IE 5000 industrial Ethernet switch, which can be utilised as a backbone switch in larger Praesensa installations.



Milestone adds incident management to Xprotect

Copenhagen, Denmark

The latest update of **Milestone System's Xprotect 2022 R2** video management software, offers incident management as a new feature.

The new *Xprotect Incident Manager* enables users to capture any live feed with a single click. When the incident is over, users can stop the capture and start filling in incident details. Incident types are fully configurable, allowing users to define incident types and details for reporting. Configuration options include free text, drop-downlists,

dates and time fields, and several other options. Previously recorded footage can also be added to an incident to strengthen the evidence.

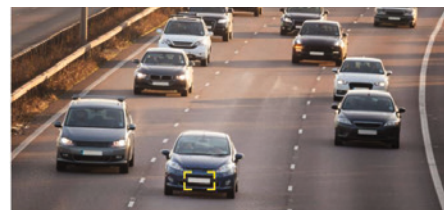
Milestone Xprotect Essential+ on AWS

With the new release of Milestone Xprotect 2022 R2, the Essential+ version of Xprotect will replace the previous version in AWS Marketplace. Users will now be able to have all Xprotect 2022 R2 product variants on AWS for optimised storage and transmission. The 2022 R2 version has been

added to the previous version in AWS Marketplace, since July.

Improved License Plate Recognition (LPR)

Xprotect 2022 R2 features also an enhanced license plate style recognition. The updated LPR feature enables users to recognise, sort and bundle license plate types by analysing motor vehicles more efficiently. Depending on the country's plate style, users will be able to distinguish trucks from private cars, or even police cars, limousines, trucks and buses from each other.



The new Xprotect Incident Manager enables users to capture any live feed with a single click.

Similarly, some countries have separate plates for gas driven or electric cars that will now be readily identified.



New NFC barcode passenger solution from HID Global

Austin, Tx (USA)

HID Global, a worldwide leader in trusted identity solutions, has released *Triptick Halo*, the company's latest contactless near-field communication (NFC), QR/barcode and contactless EMV payments solution to improve passenger throughput reliably and securely.

The new Triptick Halo is a robust NFC reader that only requires integration with one validator, thereby simplifying a solution that typically requires several readers and validators across multiple

entrance/exit points throughout a transport station.

For reliable and swift operations

In high-density urban areas, where efficient and reliable public transportation is a necessity, it is important to maintain reliable and swift operations at the lowest cost possible. Through its single user interface, Triptick Halo offers compliance to strict contactless payment standards, as well as reading capabilities of 1D/2D barcodes,

and NFC/RFID tickets and tokens from mobile phones, tablets, wearables, contactless cards and paper in any orientation. Its intuitive and quick interface for data reading and writing translates into improved passenger throughput and higher efficiency for operators.

For harsh environmental conditions

Triptick Halo features an LED illumination halo ring and Ethernet connectivity that provide unobstructed status view and loud



The new HID Global Triptick Halo NFC barcode solution reader to improve passenger throughput efficiencies.

sounder feedback, resulting in effective reading accuracy and speed. The reader can be mounted on a surface, pole or desk, and meets IP54 dust and water ingress protection rating, making it ideal for areas with harsh environmental conditions.



Security Events



Crowded event. Sectech Norway was successfully organised on the 9th and 10th of March 2022.

November

15-17 November Expoprotection - Paris, France

Venue: Porte de Versailles
Organiser: RX
Tel: +33 (0)1 47 56 50 11
Email: florian.lafitte@reedexpo.fr
Website: www.expoprotection.com

16-17 November ISC East - New York, United States

Venue: Javits Center
Organiser: Reed Exhibitions
Tel: +1 203 840 5602
Email: inquiry@isc.reedexpo.com
Website: www.isceast.com

30 November - 2 December Secutech Thailand - Bangkok, Thailand

Venue: Bangkok International Trade & Exhibition Center (BITEC), Bangkok
Organiser: Messe Frankfurt New Era Business Media (MFNE)
Tel: +886 2 8729 1099 ext 531
Email: Israel.gogol@newera.messefrankfurt.com
Website: www.secutechthailand.com

2023

January

17-19 January Perimeter Protection - Nurnberg, Germany

Venue: Exhibition Centre Nuremberg
Organiser: Nurnberg Messe GmbH
Tel: +49 911 8606 8499
Email: perimeter-protection@nuernbergmesse.de
Website: www.perimeter-protection.de/en

March

3-9 March Securexpo East Africa - Nairobi, Kenya

Venue: Sarit Exhibition Centre
Organiser: Montgomery Events East Africa Ltd
Tel: +254 (0) 769 358 111
Email: Jacob.Birundu@montgomerygroup.com
Website: www.securexpoeastafrica.com

8-9 March Sectech Norge - Lilleström, Norway

Venue: Nova Spectrum
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.Sectech.nu
Visit AR Media at Sectech Norge

28-31 March ISC West - Las Vegas, USA

Venue: Venetian Expo
Organiser: Reed Exhibitions
Tel: +1 203 840 5602
Email: inquiry@isc.reedexpo.com
Website: www.iscwest.com

April

20 April #TrygghetNU - Stockholm, Sweden

Venue: Clarion Hotel Stockholm
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.trygghetnu.se
Visit AR Media at Skydd

25-27 April The Security Event - Birmingham, United Kingdom

Venue: National Exhibition Centre (NEC)
Organiser: Nineteen Group
Tel: +44 (0)20 8947 9177
Email: info@theseurityevent.co.uk
Website: www.theseurityevent.co.uk/

26-28 April Secutech Taiwan - Taipei, Taiwan

Venue: Taipei World Trade Center Nangang Exhibition Hall 2
Organiser: Messe Frankfurt (HK) Ltd Taiwan Media Branch
Tel: +886 2 8729 1099
Email: services@secutech.com
Website: secutech.tw.messefrankfurt.com

June

6-8 June Securex South Africa - Johannesburg, South Africa

Venue: Gallagher Convention Centre
Organiser: Specialised Exhibitions
Tel: +27 (0)11 835 1565
Email: marketing@specialised.com
Website: securex.co.za

August

29 August SkyddGolfen Detektor Open - Nykvarn, Sweden

Venue: Golf South Sthlm (Vidbyns GC)
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.armedia.se/detektor/scandinavia/sv/SkyddGolfen.asp
Visit AR Media at SkyddGolfen Detektor Open

October

11-12 October FinnSec - Helsinki, Finland

Venue: Helsinki Expo and Convention Centre
Organiser: Messukeskus Helsinki
Tel: +358 40 450 3250
Email: customer.service@messukeskus.com
Website: finnsec.messukeskus.com

24-25 October Sectech Sverige - Stockholm, Sweden

Venue: Stockholmsmässan
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.sectech.nu
Visit AR Media at Sectech

November

15-17 November Sicurezza - Milano, Italy

Venue: Fiera Milano
Organiser: Fiera Milano S.p.A.
Tel: +39 02 4997.6224
Email: mara.borsani@fieramilano.it
Website: www.sicurezza.it

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- Exhibition
- Seminars



SECTECH

EXPO & SEMINARS / NORWAY

LILLESTRØM 8-9 MARCH 2023

Welcome to the first major Scandinavian security event in 2023

Get to know the Norwegian and Scandinavian market for technology-based products and services at the region's first security exhibition in 2023.

The 32nd Sectech expo will take place on the 8th and 9th of March 2023 at the Norway Trade Fairs in Lillestrøm.

The exhibition will host companies from all over Scandinavia as well as global market leaders, showing what today's security technology can offer, with special focus on video surveillance, access control, alarm and detection solutions.

Don't miss out!



Skip the queue – Pre-register your visit on Sectech.nu!

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Aktuell Sikkerhet

Hikvision
eDVR Series

Energy-efficient DVR for the future

Eco-friendly
Ultra-low power



Embedded SSD
No efforts on hard
drive installation



**Enduring
storage**
Longer life and less
maintenance



Easy to use
Compact design



**Efficient video
analytics**



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