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Publisher's comment

The new normal

The Security Technology Market

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AR Media International AB, Tel: +46 8 556 306 80, info@armedia.se, www.securityworldmarket.com, www.armedia.se

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

Asia Office
Asha Chang
AR Media Marketing Corporation
Address: 3F., No. 197, Xinshih 3rd Road Sec. 2, Tamsui District (251),New Taipei, Taiwan
Office phone: +(886-2) 2622 1365, +(886-2) 2622 1385
Mobile: +(886) 922 116272,
Email: asha@armediaint.com

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

Publisher

Lennart Alexandrie
lennart.alexandrie@armediaint.com

Editorial Team

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

Art Director

Linn A. Maddern
linn.maddern@armedia.se

Advertisements

Deniz Baykal
deniz.baykal@armedia.se

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The new normal

"The new normal" was one of the most widely used terms throughout 2020, and still holds true today. It is understandable. The pandemic's impact on our lives has led to major changes in how we work and how we live. And this impact will sustain even when the pandemic subsides.

More than anything else, the opportunities offered by digital technology have become clearer. It has been crucial for keeping in contact with customers, colleagues and friends, and helping to secure everyday life in general, during the ongoing pandemic. For example, shops, exhibition halls and restaurants etcetera can keep track of the number of customers/visitors that enter their premises in order to comply with the requirement for social distancing. That also goes for workplaces, where the technology can be used to count the number of employees entering, and also to manage and keep track of which spaces are available for people to use in the building.

For the security technology industry there are so many ongoing processes that have been accelerated – remote service and maintenance has boomed and the popularity of contactless access control solutions is also on the rise as a response to the organisation's ambition to avoid the spread of the virus.

All this leads us to the "new normal" – changes that will remain even after the pandemic.

When things happens so quickly, as during the pandemic, the changes become so vividly clear. When changes happen more gradually over a longer period of time, we do not notice when the changes occur. We probably don't even notice that they have even happened.

AR Media marked its 30th year in 2020, which made me reflect on how the security technology market has changed since 1990. One significant change is that the number of companies driven by entrepreneurs has declined dramatically.

During the nineties and even after the millennium shift there were many important manufacturers within different sectors in the security technology industry that were driven by entrepreneurs. Axis was one of them, Pelco was another just like Milestone Systems and Genetec to take a few examples from the video surveillance sector. Since then, Axis and Milestone Systems have become part of the Canon Group. And Pelco, first acquired by Schneider, now a Motorola company. Only Genetec has sustained as an entrepreneurial company, run by the CEO and founder Pierre Racz.

There is something special about entrepreneurs who take a strong business idea to build a successful company based on determination, competence and market-driven leadership. At a time when the dominant players in the security industry are listed on the stock exchange market or owned by venture capital companies, they have indeed become increasingly rare. But not less appreciated.

Being a public company entails obligations that put pressure on the organisation. How many employees and what type of skills are needed to live up to what is required by a public company? Resources must be devoted to other things than the core business of the company. Requirements needed to please the shareholders may compete with the customer and market needs. Requirements for growth can, for example, affect profitability, as the growth incentive can lead to price dumping, effectively enabling the public company to strategically "buy"market share and size. So how good is it for a small company to become a public company from a purely business economic perspective? What is required for a small public company to be profitable? Perhaps an even more important question, how good is it for the market when public companies, continue to deliver losses and all at the same time - with added share capital - expand and compete with healthy entrepreneurial companies, that are dependent on profit to remain on the market? These are the issues that perhaps should be being discussed more than they are at present.

When looking back on, let's say the last fifteen years, there are two things that have created "a new normal" for the security technology market industry. The migration from analogue to IP-network technology and the shift from an entrepreneur driven business to an industry dominated by stock exchange listed companies and venture capital owned companies.

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SECURITY EVENTS

July could be superhot – or ice cold!

Since March 2020, in principle, all physical security events have been postponed. With the ongoing vaccinations, there are hopes that some of them will actually happen already this summer. *Page 50*

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Photo: Turnisul, Pixabay (montage)

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AXIS COMMUNICATIONS

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Fulfill your surveillance needs

Dahua Technology, with 56 overseas subsidiaries and representative offices, 3 regional supply centers, and more than 100 after-sales service stations worldwide, has launched its core products for the year 2021: WizSense, WizMind, HDCVI 6.0 Plus and Full-Color 2.0 (check out The Launch of 2021 Core Products for more information). At the beginning of March 2021, Bob Chen, Vice President of Overseas Business Center at Dahua Technology, shares his views and expertise on these cutting-edge technologies and highly-efficient solutions.

"AIoT will profoundly boost the future development in the security industry," explains Bob. "With its core strategy of the year — Driving Innovation to an AIoT Future — Dahua Technology commits to further enhancing technology and product development in the pursuit of a better user experience and greater usage efficiency."

Since 2008, Dahua Technology has been committed to innovation, and successfully promoted its own-brand solutions with quality services to 180 countries around the globe. Through the accumulation of experience in the field and know-how gained with clients over the past decade, Dahua Technology's core products for 2021 are released to precisely answer the needs of vertical applications, such as Residential and Commercial Buildings, Traffic Management, Retail, Campus and Science Parks, and etc.

Among the advanced Dahua AI products and solutions, WizSense features of functional intelligence, simplicity, and inclusivity are ideal for use in small and medium sized scenario applications, such as Retail Stores, Residential Houses, and SME offices. The WizMind series on the other hand is most suited for larger and more comprehensive projects. With its wide array of cutting-edge technologies including Temperature Monitoring, Face Recognition, People Counting, Privacy Protection, Video Metadata, etc., the WizMind series offers a solution to various vertical market applications and fulfills the requirements for an innovative Smart City of tomorrow.

WizSense Application Scenario

Store owners can choose WizSense to protect their property and optimize business operations and management. The solution will not only record and store the video footage, but will also send push notifications to alert the on-duty clerk when frequent customers and/or VIPs walk into the shop. During non-business hours, perimeter protection can be set to safeguard the shop. When a suspicious individual has been detected by the camera, a siren and a red & blue light will turn on to warn off and deter that person. What's more, WizSense can save 50% of bandwidth and internal memory compared to H.265.

Upgrading to these AI-powered advanced functions of the WizSense system can be achieved at an affordable price, considering it's relatively similar to buying a typical traditional CCTV surveillance system.

WizSense Page: *https://www.dahuasecurity.com/products/keyTechnologies/722*

WizMind Application Scenario

As the Covid-19 pandemic wreaks havoc worldwide, it has become necessary to control social distancing and people flow in public places. The WizMind Thermal Temperature Monitoring Solution has been an ideal solution for these challenges. This system provides touchless temperature monitoring to prevent any unnecessary human contact.

The WizMind People Counting and Flow Control Solution is designed for scenarios such as shopping malls, restaurants, and food courts. It provides staff with statistics and flow maps of guests in order to keep necessary flow control and minimize group gathering. The system has been successfully deployed and implemented at Bakken Amusement Park and Arkaden Food Hall in Denmark.

In addition, equipped with advanced features such as LPR(or ANPR), Parking Violation Detection, Video Metadata (incl. colour, gender, etc.), and Privacy Protection, the WizMind Smart Solution has been deployed at a logistics park in Holland, successfully helping them improve their vehicle management and eliminate illegal parking and burglary issues.

WizMind Page: *https://www.dahuasecurity.com/products/keyTechnologies/742*

HDCVI 6.0 Plus series: Cameras and XVRs:

This series adopts Real 5MP Technology that achieves high-resolution 5MP display output at 16:9 ratio (instead of the traditional 4:3 ratio) to prevent video distortion and pixel loss. The Dahua HDCVI 6.0 Plus series also features Plug-n-Play, ambient illumination automatic adaptation, and low latency, providing our business partners (Distributors, Retailers, and Installers) with lower labor costs and less time consumption during installation.

HDCVI 6.0 Plus Page: *https://www.dahuasecurity.com/products/keyTechnologies/692*

Full-color 2.0 series: HDCVI, IP and PTZ cameras:

Equipped with F1.0 super aperture and high performance sensor, Dahua Full-color 2.0 series cameras can capture vivid color images even in extreme low-lux conditions, enabling a 24/7 colorful monitoring. Moreover, the combination of Full-color technology with AI improves the accuracy of autonomous detection and recognition in low-light environment. During application, the Full-color 2.0 series cameras can automatically trigger alarm and push information. When combining with a Dahua intelligent NVR, it can enhance the efficiency in searching the event videos based on the color of people/cars.

Full-Color Page: *https://www.dahuasecurity.com/products/keyTechnologies/732*

Benefits of Dahua Key Verticals Solutions:

1.Smart Security Surveillance

Empowered by AI and deep learning algorithms, big data, cloud computing and other advanced technologies, Dahua smart solutions can create more value for city operations, corporate management, and consumers.

A customer from South Africa

with Dahua Smart Solutions

runs a security service business and used to have traditional alarm and ordinary surveillance cameras. Almost 3 million alarms would hit the company per month, over 99% of which were false alarms. After they installed AI cameras, the false alarm rate has dramatically decreased, enabling them to provide better services while significantly saving cost.

In terms of traffic management, improving traffic safety has been a major concern. Traffic strategies have been launched throughout the world. Saudi Arabia released Saudi Vision 2030, a national program involving fiscal balance, housing, public investment fund, etc., has a positive impact on traffic safety. In addition, Ukraine launched Transport Strategy 2030, which aims to lower the road traffic injury by 90% by establishing over 100 important complex facilities on its road network. In one user case in the Middle East, Dahua Technology delivered an overall traffic management solution, which greatly optimized the accuracy of intersection signal release, and integrated multiple independent subsystems to achieve a unified management. After the Dahua system was delivered, over 1000 traffic violations were captured every day.

2. Better Living Experience

The Dahua smart solutions, when applied to building and residential complexes, can (1) open the gate to allow vehicle access with video recognition; (2) direct vehicles to quickly find a vacant parking space; (3) open doors, facilitate time attendance, call an elevator, etc. The solutions not only reduce hassle from using access cards, but also improve public hygiene with touchless access. Moreover, it provides an exclusive convenience and service for VIPs.

In the past decade, global traffic congestion has continued to increase, with traffic congestion time accounting for approximately 40% of driving time. The economic loss caused by congestion is incalculable. Thus, alleviating traffic jams has been a key to focus on. In Singapore, for instance, is on track to achieve their 'City in 45 minutes' vision that solves worsening problems of traffic jams. In the aforementioned middle-east country, for the intersections with Dahua smart systems, the overall traffic efficiency has increased by 12%.

3. High Operation Efficiency

It is feasible to accommodate as many technologies/functions as possible onto one platform. Seamless integration of various functions such as AI recognition, big data analysis, alarm, access control, intercom, etc. can help achieve highly efficient management and prompt service response with mobile devices and applications.

A customer from North America is the Home Owner Association of a high-end villa community. Together with Dahua Technology, the customer realized automatic management of remaining visitors, stolen vehicle warning, etc. In addition, they can also provide dedicated service for the elderly. It not only improved management efficiency, but also enhanced home owner satisfaction and living experience.

As a world-leading video-centric smart IoT solution and service provider, Dahua Technology will contribute consistent development in functional intelligence, digitalization, system integration and analysis. With expertise in system design, market surveys, data collection and analysis, Dahua Technology is very much willing to join innovative projects – from the beginning to the end. For example, Dahua Technology has been involved in the design and deployment of the city E-police enforcement system in 5 major cities in Syria since 2015. This solution, equipped with custom-made ANPR algorithms that can successfully recognize the diverse car plates of EU countries, can effectively control traffic violations in the region. Since the completion of the system, both traffic violations and accidents have dramatically decreased. Today, Dahua Smart Traffic Management Solution, with its self-developed ANPR algorithm that can be applied in over 100 countries, has been successfully adopted by clients in over 30 countries/areas around the world.

Focusing on its value proposition of "Innovation, Quality and Service" and exploring future market needs, Dahua Technology will continue to bring more advanced technologies and concepts into various vertical industries in order to achieve its mission of "Enabling a Safer Society and Smarter Living".

About Dahua Technology

Zhejiang Dahua Technology Co., Ltd. (Dahua Technology) is a world-leading video-centric smart IoT solution and service provider. Dahua Technology has deployed its products, solutions, and services in 180 countries and regions, covering key industries including safe city, traffic, retail, banking & finance, energy, etc. Committed to technological innovation and investing approximately 10% of its annual sales revenue in R&D, Dahua Technology continues to explore emerging opportunities based on video IoT technologies and has already established businesses in machine vision, video conferencing systems, professional drones, smart fire safety, automobile technologies, smart storage, robotics, etc., enabling a safer society and smarter living.

Contract security services or Security as a Service?

Stockholm, Sweden

Buyers of Access Control and Video Surveillance Services now have the choice of using Contract Security Service companies or the new breed of ACaaS & VSaaS suppliers now coming from the physical security manufacturing business, with many looking to sell direct to the end user.

Selling solutions direct to buyers will conflict with the more traditional routes to market, so this is not an inevitable win/win solution.

The latest research information from analysts at Memoori looks at the development of these two options and predicts the direction of the market in the future based on current market activities.

"Both are delivering sophisticated services that are reducing the total cost of ownership and at a time, when the pandemic has ravaged many of the buyers finances, allowing them to pay for the service on a RMR basis," states James McHale, Managing Director at Memoori, the market research company behind the report "The Physical Security Business 2020 to 2025"

Contract Security Service

The Contract Security Service business has been operating over 40 years and is now dominated by a few major international companies and hundreds of small local operators. Most have been born out of the manned guarding business and offer comprehensive management services including security, energy management, lighting control etc. Today they take a major share of this service business. They buy, install and operate some or all of the high tech services and are paid through a monthly fee.

The major international companies over the last few years have acquired manufacturers of physical security products and installers / system integrators. They therefore now have the technical expertise backed up with financial resources to build on their professional services.

New breed of market players

A new breed of ACaaS & VSaaS suppliers primarily coming from the physical security manufacturing business have developed their solutions built on their hardware and software skills in Video Surveillance and Access Control including A.I Software. A few have been developing the business for almost a decade but it is only in the last few years that the business has gained serious traction and more companies have recently joined the ACaaS and VSaaS business, selling solutions direct to the end user.

Previously, the traditional route to market through System Integrators has stifled ACaaS and VSaaS some what, as some SI's were not interested in this approach.

"Now it seems the direct route to market will grow and has the possibility within the next ten years to take a significant share of the business. But selling solutions direct to buyers will conflict with the more traditional routes to market, so this is not an inevitable win/win solution," comments James McHale.

A number of Physical Security manufacturers have developed systems that use cloud storage from the major IT companies. They are delivering sophisticated systems and are selling on a RMR basis, many claiming they are growing rapidly. However there is a limited amount of market data on VSaaS.

James McHale, Managing Director at Memoori.

> ***"Our best estimate is that world sales in 2019 was around $1.6Bn which includes the hardware and software cost at installed prices together with a relatively small contribution of RMR revenue at this time."***

"Our best estimate is that world sales in 2019 was around $1.6Bn which includes the hardware and software cost at installed prices together with a relatively small contribution of RMR revenue at this time. The Contract Security Services revenue in the USA including manned guarding was estimated to be $28Bn in 2020 and of this $2Bn included electronics and system integration revenues", claims James McHale.

Perimeter security market estimated at $96.5 billion by 2026

Northbrook, Il (USA)

Recent analysis shows that the perimeter security market is projected to grow from USD 61.3 billion in 2020 to USD 96.5 billion by 2026, at a compound annual growth rate of 7.9% during the forecast period.

The perimeter security market is projected to grow from USD 61.3 billion in 2020 to USD 96.5 billion by 2026.

The rise in perimeter intrusions, theft incidences, burglary, cross-border terrorism, illegal immigration, and other intrusions are thought to be driving the market growth.

These latest findings from Marketsandmarkets broadly categorises the systems segment of this sector into perimeter intrusion and detection systems, video surveillance system, access control, alarm and notification systems, and other systems. The sector involves the use of a wide variety of systems to enhance security measures. These systems investigate and prevent crime in public places, such as airports, shopping malls, and banks. The increasing concern for safety and the rising incidences of terrorism are expected to drive the demand for perimeter security systems, globally.

The largest vertical

In the commercial segment, various commercial areas, such as IT and telecom, warehouses, retail, BFSI, media and entertainment, lodging, hospitality, and healthcare, are considered. The commercial vertical is expected to be the largest vertical in the perimeter security market. The rising demand for perimeter security systems in the retail and banking sectors is driving the growth of this market. Furthermore, the implementation of intelligent perimeter security solutions enhances the security in office buildings and healthcare industries.

Largest market share

The perimeter security market in North America, covering the US and Canada, accounts for a high regional defence budget and expenditure and increasing needs for security against attacks are among the main factors responsible for its larger market size. In the US, the government has taken initiatives to implement advanced surveillance systems at government buildings and high-security areas. North America is considered the pioneer in adopting perimeter security systems for public safety.

Demand in all industries

Also, there is constant progress in adopting new technologies, mainly the transition to IP-based video surveillance. The need for perimeter security systems has been observed in all the major industries, such as transportation, government and defence, critical infrastructures, nuclear plants, chemical industries, power, and oil & gas, across the region. Due to increasing perimeter intrusion threats, the requirement for multilayer perimeter protection has also increased, thus offering huge growth opportunities for the perimeter security market.

Gas detection market could be worth $8.38b by 2028

San Francisco, Ca (USA)

The global gas detection equipment market size is expected to reach USD 8.38 billion by 2028, according to a new report by Grand View Research, Inc. It is anticipated to expand at a CAGR of 9.7% from 2021 to 2028.

The research attributes the growth to the increasing awareness among governments regarding the harmful effects of greenhouse gases, coupled with their increased efforts toward protecting the environment.

Major industries such as petroleum, oil, and gas, among others are needed to comply with safety and environmental regulations which are also major factors driving the market growth in this sector.

Drone-based detection equipment

According to the analysts, many companies are focused on introducing drone-based gas detection equipment, which is expected to create new opportunities for market growth in the coming years. For instance, in February 2019, Flir Systems, Inc. announced the launch of Flir Muve C360, a multi-gas detector built for unmanned aerial systems. Flir Muve C360 aims to transform the way emergency teams approach environmental, chemical, and industrial incidents.

IR Cameras

IR camera-based gas detectors are gaining traction owing to their capability of detecting combustible gases that are not visible to the human eyes. Uncooled IR cameras are widely in demand by various industries, which has resulted in increased efforts by companies worldwide to address this demand. As a for instance, the report cites an instance in February 2019, when, again Flir Systems, Inc. announced the launch of Flir GF77 Gas Find IR, an uncooled thermal camera for detecting methane.

The Covid effect

The Covid-19 pandemic is anticipated to favourably impact market growth in the near future. Hospitals have been using gas detection equipment for monitoring oxygen tanks during the pandemic. Also the report states that during the Covid-19 situation, the U.K. government laid down guidelines highlighting the hazards caused by the increased oxygen level due to the high density of ventilators. This initiative is also expected to contribute to market growth.

Products and technologies

In terms of product, the fixed gas detector segment is expected to retain its dominance over the forecast period. The ability of fixed gas detectors to ensure workforce safety is driving the segment growth.

As for technology, it is the infrared gas detection technology segment that dominated the market in 2020 and is expected by the analysts to witness growth over the forecast period. Infrared gas detectors are maintenance-free, which is one of the major factors driving the market growth

Mining industry – a strong market

In terms of end-use, the industrial segment dominated the market in 2020. The increasing demand for detectors in the mining industry is driving the segment growth

Finally, geographically, the increasing adoption of gas detection equipment in emerging economies such as India and China is expected to create growth opportunities for the market players in the Asia Pacific region over the forecast period.

Contactless payment market to grow by almost 20% by 2027

San Francisco, Ca (USA)

The global contactless payment market size was valued at USD 1.06 trillion by transaction value in 2019 and is anticipated to expand at a compound annual growth rate (CAGR) of 19.8% from 2020 to 2027, according to Grand View Research.

This shift in demand can be attributed to the mass adoption of the system by several sectors, including retail and transportation, thereby offering convenience to the customers.

Furthermore, the rising adoption of contactless technology by the users or customers for small value transactions is expected to drive the growth. The continuous enhancement in payment security technologies and innovation in products and services is strengthening the market growth. Contactless payments enable transactions to be carried out without any physical connection between a consumer's payment device and point-of-sale terminal.

Mobile phone payments, key fobs, stickers, and cards are some of the devices used for conducting contactless payments. Technological innovations, such as contactless rings or bands, in the wearables segment, are expected to drive the market demand. Growing contactless technologies in various applications such as vending machines, ticketing, toll booths, and fuel stations are expected to boost the market growth over the forecast period.

Covid-19 impact insights

Current developments in digital payments have encouraged the use of contactless payments amid this pandemic. In April 2020 Neobank Upgrade (U.S.) launched the new contactless credit card available in digital form that supports Google Pay and Apple Pay mobile wallets. Furthermore, bank authorities and card networks in the U.S., Germany, Netherlands, Austria, and Hungary, among other countries have set higher transaction limits than usual for contactless payment methods. In April 2020, U.K. Finance Limited increased the spending limit for contactless card payments from 30 pounds to 45 pounds. Therefore, the market is expected to stimulate, with the growing concerns over virus transmission via cash flows.

Device insights

In 2019, the smartphones & wearables segment accounted for around 59% of market share, in terms of the transaction value. The use of smartphones has drastically increased in daily activities. For instance, individuals now use smartphones to make payments at stores. Moreover, innovations in wearables such as payment bands and payment rings are expected to drive the demand over the forecast period.

Further, smart cards are expected to gain significant market share over the forecast period, owing to its easier usage as compared to that of PIN-based Euro Mastercard Visa (EMV) cards.

Security concerns

Customers are mainly concerned about security surrounding contactless payments, since there is often a fear of fraud. Companies attempt to address such issues by providing secure payment systems that are authenticated through passcodes. The latest technological advancements have led to the invention of new ways of authentication, such as fingerprint authentication, for contactless payments.

The security and fraud management segment is expected to expand at a CAGR of 21.7% over the forecast period. As transactions carried out through contactless payments are susceptible to fraud due to which individuals have become more conscious about using these systems. Prominent contactless technology providers, including Gemalto and Visa Inc., are continuously upgrading their security protocols to enhance the security management of the contactless payments. Enhanced security systems and product developments have urged consumers to adopt contactless payments.

ACaaS market set to grow to $1.6b by 2024

Stockholm, Sweden

Memoori's World Market 2020-2025 report on the physical security business shows that all types of organisations across the world are investigating how they can leverage the cloud, as it is proving to be a very attractive proposition.

The researchers estimate that in 2019 ACaaS investment was worth $620 million and of this approximately 40% was installed in North America. Demand is expected to rise to $1.6Bn by 2024.

Analysts found that as more IP Network access control systems are installed and the technology surrounding identity validation increases its penetration, the attraction of ACaaS and managed services has become more appealing to end users particularly those who are already used to enterprise cloud services.

TCO – a driving force

With ACaaS, end users no longer need internal IT departments to build up and maintain the servers and infrastructure at the business facility, which incurs more upfront capital expenditure. With cloud-based solutions, onsite servers and appliances are eliminated; the research suggests that this should reduce the total cost of ownership (TCO) while not losing any functionality. In the opinion of the analysts, migration to cloud services will also make the integration of access control with enterprise systems like identity & access management (IAM) more likely, extending the usefulness of building systems and adding more value.

ACaaS has penetrated the small to medium building sector where tenants favour a regular monthly rental payment rather than a one-off payment, which includes service and maintenance of hardware and software. Existing owners of video surveillance and access control systems who need to upgrade their operations will increasingly investigate the "as a Service" option.

Covid drained financial resources

Covid-19 has over the last twelve months drained the financial resources of many of these customers making reduced upfront costs even more attractive.

With cloud-based solutions, onsite servers and appliances are eliminated.

The report concludes that access control has traditionally been supplied through system integrators and whilst they are gradually becoming persuaded that the growth of ACaaS is inevitable, this process of mainstream cloud adoption will take some time.

Feature rich monitored alarm systems on the increase to 2024

Gothenburg, Sweden

The number of professionally monitored alarm systems in Europe is forecasted to grow at a compound annual growth rate (CAGR) of 3.9 percent from 16.5 million in 2019 to 20.0 million in 2024, according to IoT market research providers, Berg Insight.

In North America, the number of monitored alarm systems is forecasted to grow at a CAGR of 2.7 percent from 31.7 million in 2019 to 36.2 million in 2024.

In its new report, Berg divides security systems for small businesses and private homes into three main categories – local, self-monitored and professionally monitored security systems. When activated, a local security system emits an alarm sound to alert the surroundings and scare off intruders. Such systems are not monitored and cannot be accessed emotely. A self-monitored security system is connected and informs the owner of the premises upon activation by sending a text message, email or push notification. A professionally monitored security system is connected to an Alarm Receiving Centre (ARC). When the system is activated, the ARC can dispatch a security patrol and contact emergency services.

ADT is cited as the leading provider of professionally monitored alarm systems in North America with 6.5 million residential and business customers at the end of 2019. Vivint, Comcast and Brinks Home Security (Monitronics) follow and had 1.55 million, 1.38 million and 0.85 million residential and small business customers respectively. The telecommunications company Telus has emerged as one of the leading providers of home security systems in Canada according to the research. The company acquired around 500,000 customers of ADT Canada in late 2019 and reached a total of around 0.6 million customers at the end of 2019.

A professionally monitored security system is connected to an Alarm Receiving Centre (ARC).

In the European market, the research shows that Verisure is the leading player, with a total of 3.35 million customers across several European countries as well as a few countries in South America. Berg found that the second largest player in the residential and small business segment in Europe is Sector Alarm with 0.55 million customers. The company is primarily active in Sweden, Norway and Ireland and also has some customers in Finland, Spain and France. Additional Europe-based companies include Securitas, Prosegur, EPS (Crédit Mutuel) and G4S.

"The shift towards interactive security systems, where users are able to access and control the security system emotely using their smartphone, has been an ongoing industry trend during the last decade", says Martin Backman, Senior Analyst at Berg Insight. Interactive services are now increasingly complemented by smart home services and live video monitoring solutions featuring advanced video analytics. "Modern home security systems provide a much richer set of features and capabilities, which adds value for customers and at the same time allows home security system vendors to generate additional sales", concludes Mr. Backman.

Commercial security market set for 9% growth to 2026

Northbrook, Il (USA)

The latest information from Marketsandmarkets on the Commercial Security System market with Covid-19 impact analysis to 2026 predicts that the sector will grow from USD 223.9 billion in 2021 to USD 342.6 billion by 2026, representing a CAGR of 8.9%.

A rise in the number of terrorist attacks and organised crime across the world, the growing construction industry, the expanding adoption of IP cameras, an accelerated implementation of stringent fire protection-related regulations, and a rise in the adoption of IoT-based security systems powered by cloud computing platforms are cited by the researchers as the major factors for propelling the growth of the commercial security system market.

Demand for cameras drives demand for storage

Video surveillance hardware was found to be the largest sub-sector in the hardware field of commercial security systems during the forecast period. The growth in safety and security concerns, the rise in crime rates, and the increase in the number of terror attacks are major factors affecting the growth of the market for cameras used for video surveillance. The continuing decrease in the prices of cameras has resulted in the increased adoption of surveillance cameras across the world, which, in turn, has created significant demand for storage solutions and monitors. Technological advancements have resulted in highly specialised surveillance cameras that can be programmed to zoom-in to scan items such as harmful equipment.

VSaaS on the rise

In terms of services within the sector, the video surveillance service market is also expected to be the fastest-growing segment over the projected period. The analysts suggest that a rise in the adoption of Video Surveillance-as-a-Service (VSaaS) could be the driving factor, as this application offers new benefits such as remote access and management. As video feeds are stored in the cloud, customers can access and manage them using a desktop, laptop, or mobile device from any location with an internet connection.

North America leads the way

As one of the earlier adopters of security technologies such as access control, video surveillance, and fire protection systems, North America is at the forefront of implementing access control systems to improve safety measures and security and accounts for the largest proportion of the sector geographically. Countries such as the US, Canada, and Mexico are increasing their expertise in access control systems to drive innovations in the technology and services of these systems to gain a competitive advantage and increase their shares in the access control system market in the region.

9%

This year's market and technology trends

Several of the major global access control manufacturers have – just as the market research companies – listed the biggest trends for 2021. Here, we present a summary of some of the most important aspects of these predictions.

By Henrik Söderlund

THE MARKET FOR ACCESS CONTROL

The global market for access control systems is expected to grow from 8.6 billion dollars in 2020 to 12.8 billion dollars by 2025 – with an 8.2 percent CAGR.

The technological advances and increased use of wireless security systems are some of the key factors driving growth in the access control market, according to Marketsandmarkets.

At a global level, biometric readers are expected to have the highest growth.

Biometric solutions are increasingly used in government facilities, the manufacturing industry, power plants, and by the military according to Marketsandmarkets. The market research company also believes that housing will be the fastest growing vertical in the coming years. The demand for electronic products is increasing in line with the growing trend of home automation.

At the same time, the transition towards service-based business models continues. The market for ACaaS (Access Control as a Service) is expected to be 3 billion dollars in 2027. That equals a 19 percent CAGR. In both the US and China, the market will grow by almost 25 percent annually, while growth in Germany will be slightly lower: just under 17 percent.

According to a new market report by Memoori, a new breed of ACaaS suppliers primarily coming from the physical security manufacturing business have developed their solutions built on their hardware and software skills in access control. A few have been developing the business for almost a decade but it is only in the last few years that the business has gained serious traction and more companies have recently joined the ACaaS business, selling solutions direct to the end user.

Previously, the traditional route to market through system integrators has stifled ACaaS somewhat, as some system integrators were not interested in this approach. Now it seems the direct route to market will grow and has the possibility within the next 10 years to take a significant share of the business. But Memoori also stresses that selling solutions direct to buyers will conflict with the more traditional routes to market, so this is not an inevitable win/win solution.

MULTI-FACTOR AUTHENTICATION AND CYBER SECURITY

Cyber attacks have increased during the pandemic and IT personnel have experienced a very abrupt change of security conditions when large parts of the workforce suddenly started working from home. Not least, ransomware attacks targeting companies have received a great deal of attention during the past year.

Many combinations

Genetec points out that a secure IT perimeter no longer exists – physical security professionals must put measures in place to deter hackers and protect their businesses. Encryption and multi-factor authentication are very important parts of this.

Multi-factor authentication means having to prove identity/gain access by using more than one credential. For example, an employee must both have a credential in his/her phone and use a pin-code to get access to the workplace.

Quick growth

Video intercom, fingerprint, SMS text and e-mail are other credentials that can be combined in a multi-factor authentication solution.

Earlier, multi-factor authentication was most common in high end security applications, but now it is accessible to every industry and is expected to continue growing.

A main reason for that is many people are already used to multi-factor authentication in their private lives, for example banking matters and identifying themselves when contacting authorities online.

TOUCHLESS SOLUTIONS

Peter Boriskin, Chief Technology Officer, Assa Abloy Opening Solutions Americas, believes one of the most significant changes the pandemic has brought is the emergence of solutions for frictionless access and touchless door openings. He thinks this will become the standard for high traffic doors in public facilities.

"The demands of the Covid-19 pandemic have accelerated the need for and adoption of both existing and emerging technologies to create a safer environment", he says.

Face recognition and iris recognition are two of technologies that are expected to grow rapidly.

Fivefold market

According to a report by 360i Research, face recognition will see a 20 per cent CAGR until 2025. Another report, from Future Market Insights, estimates that the market for frictionless access control will increase fivefold between 2020 and 2030.

Michael Gips points out that face recognition has become cheaper and easier to install and use.

"In the Covid-19 world and beyond, face recognition will be a critical form of authentication, given the touchless experience. Past implementations of face recognition access control systems suffered from poor accuracy, anti-spoofing issues, and lack of privacy controls. But advances in recent years have catapulted the technology into the mainstream."

However, in the Western world there are major concerns regarding privacy.

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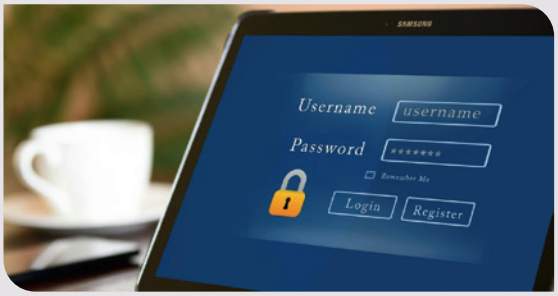

Earlier, multi-factor authentication was most common in high end security applications, but now it is accessible to every industry and is expected to continue growing.

CLOUD SOLUTIONS AND HYBRID SOLUTIONS

There is a clear shift towards cloud-based access control, partly due to the advantages it provides in terms of being able to handle access at several locations at the same time, but also because of scalability and higher security since security updates can be done remotely.

Access management has previously required that, for example, if an employee is visiting a different branch office, it would require notification multiple days in advance in order to prepare for their arrival in terms of security and access. With a cloud solution, it is done quickly and smoothly and authorisation levels can be easily managed, time-limited and changed over time.

Hybrid makes transition easier

Genetec believes that the pandemic has accelerated the transition to cloud solutions and according to a report conducted by the company last year, only 20 per cent of respondents had already deployed cloud solutions in their physical security environments. This means the business possibilities are very good ahead and hybrid solutions are part of it. Genetec believes more chief security officers will let go of the division between cloud and on-premises physical security systems and embrace a hybrid deployment model.

A hybrid model makes the transition to cloud solutions easier and enables end customers to implement specific systems or applications in the cloud while keeping existing on-premises systems, the company stresses. "A hybrid approach makes for an easier transition to the cloud. It can also be the simplest answer when deciding how to enhance scalability, redundancy, and availability to meet changing needs", Genetec writes.

"Old model is being phased out"

Michael Gips stresses that a hardware sale driven business model has been dominating the access control business. End customers have bought readers, key cards and panels from distributors and have let an integrator assemble and programme the on-premises server. Updates have been done manually and IT staff have been needed for managing operations.

"Times change, as has our culture and security landscape. And such, this model is now being phased out and replaced by subscription-based access control operated from the cloud to give end users the control and flexibility they want", he says.

According to Researchandmarkets, hosted access control is the most prominent service within ACaaS (Access Control as a Service). The owner of the solutions offers various types of hosted access control as a service and the end customers do not have to pay for the maintenance of the servers. This has been the main driver in the market for hosted services.

The possibility for third parties to update access rights for the end customer saves time and costs that would otherwise be spent on monitoring and managing all access control activities.

IHS Markit predicts a steadily increasing demand for ACaaS, and especially among new users such as small and medium-sized companies.

MOBILE ACCESS CONTROL

IHS Markit has predicted more than 120 million mobile credentials will be downloaded in 2023. In 2019, HID estimated that 54 per cent of businesses had upgraded or would upgrade to a mobile access control system within three years.

"Key card access control systems are quickly becoming obsolete, cards can often be lost, misplaced and hacked", states cyber security advisor Michael Gips. Mobile credentials on the other hand, provide a safer and more convenient solution. And because people carry their mobile phones everywhere, they are natural to use for access control.

Remote access necessary

Furthermore, mobile access control enables remote applications.

For example, a tenant or employee can grant access to a visitor from a mobile app on their phone after receiving a notification from the intercom. And this can be done from anywhere as long as the resident or employee uses their mobile.

Peter Boriskin, Chief Technology Officer, Assa Abloy Opening Solutions Americas, states that remote applications are now more important than ever before and are also becoming more of a necessity since many people work from home. In addition, solutions are needed to control access to unmanned infrastructure. On the Asis blog, Peter Boriskin says: "The ability to issue access rights over the air eliminates the need for key holders to go to an office environment to have keys programmed, reducing the potential for germ transmission, and enables better control and auditability of who is accessing various locations".

Less people at offices

Another big change that he emphasises is that many companies will implement more of a hybrid strategy for their staff – with fewer employees in the office at the same time.

"This will necessitate a change in workforce management, and solutions for hoteling or co-working spaces will continue to grow. There will also likely be an increased demand for solutions that support a multi-step process to gain entry to an area as enterprises implement pre-entry health checks that require validation and auditing capabilities", Peter Boriskin says.

Location services can also be used to support contact tracing and enforce social distancing.

Jaroslav Barton, HID Global:

Returning to the workplace is

It is one year on from the Covid-19 pandemic taking hold. Most countries in Europe have been through one, two or three waves and months of lockdowns that have seen workplaces closed and employees working from home, where possible.

Jaroslav Barton, Director Product Marketing, Global Regions, HID Global, reflects on the next step – returning to the workplace – in this article.

By Jaroslav Barton, Director Product Marketing, Global Regions, HID Global

After all this time, a physical return to the workplace can be exciting for some people and a daunting prospect for others. Even with vaccines and a relaxation in some social distancing rules, organisations must look at how they can ensure employees and visitors feel safe. This means adapting to new requirements, implementing new procedures and using new technologies and tools so people can trust that the organisation is looking after them.

Policies may come down from CEO and HR teams, but it is going to be the building and facilities managers and security teams that will need to turn policy into practice.

Physical access is a prime area of interest. Crowded entrances, elevators and shared working spaces are a threat to safe social distancing. Likewise, some security processes, like credentialling, have always relied on face-to-face contact. Access control management can help route employees, in tandem with efforts to stagger work times. Physical access control systems (PACS) can also leverage location services to support contact tracing and reduce crowding, and these same systems can be used in support of thoughtful visitor management.

Touchless access control

Automatic door operators, revolving doors, and sliding doors can all help to reduce contact at high-volume entry and exit points. These can be coupled with contactless credentials and readers to ensure security while minimising surface contamination.

Another strategy involves the use of long-range capable readers that leverage Bluetooth Low Energy (BLE) connections to deliver read performance at a distance. With a read range of up to several metres, BLE can further distance employees who might otherwise crowd up around readers and doors.

Touchless credentials also support more hygienic protocols for logging in to networks, paying for vending, or activating printing.

> ***"While technology can play a significant role in supporting social distancing and other pandemic-related needs, policies are at the core of any successful return-to-work effort."***

Over-the-air credentialing

Modernised systems can send credentials to any authorised device, anywhere, so employees and visitors can have their credentials delivered contact-free.

Visitor management

Visitors introduce a new variable. They must be credentialled upon entry, and you need to know where they are in the building for security reasons and should contact tracing become necessary.

Solid policies and advanced technologies can ensure safe movement of visitors. Visitor management solutions can be used either standalone or in conjunction with an organisation's access control system. Visitors self-register in the lobby and hosts are notified when they arrive. Driver's licence scanners, barcode scanners, cameras, and printers all help support those front desk processes.

Location services

Key to keeping people physically distanced is knowing where they are at any given time. Much how GPS is used in outdoor settings, location services leverage BLE beacons to ping off gateways that in turn can identify the location of individuals in a physical space. An individual's identity can be based on an ID card which broadcasts continually, creating a virtual map of location relative to the fixed gateways.

Location services give management a means to be proactive rather than reactive in their efforts to promote physical distancing by knowing at any time how many people are in a particular space.

Connected beacons could also broadcast room occupancy, for example, letting people know which spaces are free and which are in use. What is more, these systems can automate contact tracing because they know if people have come into contact with someone that has tested positive for Covid.

Making the most of PACS technologies

For those charged with implementing and overseeing physical access control, these are extraordinarily challenging times. There may be fewer staff on site and those that are will potentially experience a higher workload. In order to operate safe spaces, there is a need to streamline operations, to make sure staff are asking for the right information and that people entering the building are aware of what the policies are

While technology can play a significant role in supporting social distancing and other pandemic-related needs, policies are at the core of any successful return-to-work effort.

It is critical, for example, to have solid audit systems in place. PACS systems generate logs, reports, and archives – invaluable information, if put to good use. Building managers can leverage this key data to see who was in the facility and when, in order to build a fuller picture of the operational risks.

Best practices

To make these measures effective, employers will need to implement certain general best practices around space utilisation and hygiene in particular.

Some policies are a must-have:

- **Signage** – Key to enforcing new policies and procedures, signage is a clear way to communicate evolving expectations.

- **Hand Sanitisation** – Hand sanitiser stations must be readily available to all employees and everyone should be encouraged to wash or sanitize their hands often.

- **Physically-Distanced Areas** – Reconfigure seating to allow for appropriate social distancing, add signage on the walls and indicators on the floor to direct traffic flow, discourage in-person meetings, and temporarily close common-area amenities.

- **Touchless Options** – Wherever possible, eliminate processes that require touch, or limit them to a single individual. Work with service providers to identify and implement hands-free technologies and processes, especially at

built on trust

Jaroslav Barton, Director Product Marketing, Global Regions, HID Global.

high-touch areas like doors and elevators.

• **Personal Protective Equipment (PPE)** – Health experts around the globe recommend that everyone wear a mask over their mouth and nose. At minimum, employers should make masks available to all employees.

• **Increased Routine Cleaning** – All frequently-touched surfaces should be cleaned and disinfected several times a day. That may include tables and doorknobs, light switches, desks, and phones. PACS technology such as keypads and biometric readers likewise should be subject to

• **Frequent disinfection.** Where possible, configure access control devices for contactless card or mobile use, rather than fingerprint or touch screen.

• **Updated Visitor Policies** – Implement visitor access policies that limit contact while on premise, include a health status questionnaire and/or temperature screen, and restrict unnecessary movement.

Moving forward

While the pandemic presents formidable challenges to building management and security, it also represents a unique opportunity.

In addressing the new needs around social distancing, contact tracing, and space utilisation, there is also the chance to examine access control in depth. A holistic view of PACS can help to create workplaces that are safe and secure, empowering building operators with the knowledge they need to minimise crowding, to trace the whereabouts of individuals, and to manage the use of space according to well-defined best practices.

> ***"Physical access control systems (PACS) can also leverage location services to support contact tracing and reduce crowding, and these same systems can be used in support of thoughtful visitor management."***

Jaroslav Barton,
Director Product Marketing,
Global Regions, HID Global

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Vanderbilt:

The undeniable advantages of the cloud

The global usage of cloud based access control solutions has grown exponentially during the pandemic.

"The discussion with customers is not about what the cloud is anymore but about the services and what the benefits are", says Michael Byrden, Vanderbilt's Business Development Manager – Access Control for Northern Europe.

During the pandemic, many companies have realised the benefit of remote maintenance that cloud based access control provides, and also the advantages of being able to integrate access control to other solutions.

Michael Byrden says: "If you go back 2–3 years, we had to explain our cloud solutions, but those conversations have completely changed now, as companies are starting to adopt cloud technologies in all aspects of their business. The discussion is not about cloud anymore but about the services that we provide as opposed to what the cloud is, and what the benefits are."

Lower TCO

He points out convenience and cost effectiveness as some of the main benefits for the end user – they can manage their access control system from anywhere they like and they can do it from their mobile devices.

"Especially now when people are not working in the office all the time, it is essential to have solutions that can be managed off-premises, and you do not have to be there. So, the conversation has shifted and from our point of view, the cost of ownership is very interesting, as many customers are not that familiar with total cost of ownership being lower within a cloud solution than for an on-premises solution", Michael Byrden says.

Over the lifetime of a system, Vanderbilt estimates a cloud-based solution is about 15–20 per cent cheaper than an on-premises solution in terms of total cost of ownership.

Always upgraded

Vanderbilt also estimates that a typical installation of a cloud-based access control system is about 35 per cent faster than an on-premises solution. One of the main reasons for that is that no software needs to be installed on local computers.

"With the benefit of remote maintenance, all these companies have started to see the benefits of having this cloud-based access control product that could be integrated with other software solutions. That is a strength we have with the flexibility and an open mindset, we want to be a company that other companies want to integrate with", says Alex Holmström, Global Sales & Marketing Director at Acre International, the group organisation under which Vanderbilt operates.

With an on-premises solution, perhaps in two years' time, the operating system has to be upgraded and then the database has to be upgraded and at some stage, the servers have to be swapped out – which is not needed with a cloud-based access control system where the firmware within the hardware can be upgraded remotely.

"The number of security installers around the world that are using our cloud-based access control solution increased by over 25 per cent in 2020 and that is a clear indication of the strength that ACT365 offers. With a cloud solution you will always have the latest version. So, the longer it goes on, the more cost-effective the cloud-based system will be", says Alex Holmström.

Great for multiple sites

Michael Byrden says multiple locations with a relatively low number of doors per site is a sweet spot for cloud solutions: "Take a supermarket with 20 stores, and in each store, you might have 5-6 doors that need protecting. The cloud solution is perfect for that", he says.

Vanderbilt estimates that a typical installation of a cloud-based access control system is about 35 per cent faster than an on-premises solution.

Alex Holmström, Global Sales & Marketing Director at Acre International, the group organisation under which Vanderbilt operates.

Michael Byrden, Vanderbilt's Business Development Manager – Access Control for Northern Europe.

Vanderbilt released Bluetooth Low Energy (BLE) readers at the end of 2019 and they were followed by the new Vcredential, a cloud-based credential management platform at the end of last year.

"One of the things that makes it unique is that system integrators and end user can manage all their mobile Bluetooth credentials, and, independent of which access control platform they are utilising", says Paul McCarthy, Product Manager for Cloud Access Control at Vanderbilt.

Mobile credentials

He claims it is a future proof investment because the market is transitioning more to mobile and Bluetooth credentials.

"And it is easy to administrate, it is secure, and it will extend the life cycle of your whole security installation. Using Vcredential allows for a smooth migration to modern technology, independent of what you are using today", he says.

Paul McCarthy also highlights the fact that mobile credentials are available through a convenient perpetual licence with no hidden costs as the price per credential is paid up-front.

The pandemic has increased the demand for touchless access control solutions. And in some countries, the demand for facial recognition and temperature detection has increased as well as the demand for counting people that enter a premise, and this has been driven by governmental regulations.

"Post-Covid, touchless solutions and mobile credentials usage will only continue to increase", says Alex Holmström.

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Founding member of SPAC Smart Physical Access Control

Thomas Schulz, Assa Abloy, Opening Solutions:

Digital keys and access management by smartphone are already changing the market

Mobile access is impacting how we interact with buildings and view their security. For users, a device they already carry unlocks doors or other openings, across one or many sites. For facility managers, the device achieves this more securely. Businesses benefit from time-saving access management at a lower cost.

In this article Thomas Schulz, EMEA Product Marketing Director at Assa Abloy, Opening Solutions, gives his views on mobile access control and its benefits.

Foto: ASSA ABLOY Opening Solutions

Mobile access with Aperio wireless locks saves money and boosts building security, according to the author.

Almost two-thirds of organisations have already adopted mobile access control – or plan to do so within two years*. According to analysts Omdia, mobile credential downloads grew by 220% between 2018 and 2019**. This growth will continue. One recent market survey uncovers the main benefits reported by users: convenience, cost and security*.

The security of mobile credentials improves on traditional smart-cards and fobs. Biometrics are built into almost every modern smartphone, via fingerprint or face ID unlocking. Human behaviour is also on the smartphone's side. How quickly would a student or employee notice a missing plastic access card? Everyone is more careful with their handset.

Mobile access done right

For users, convenience benefits are obvious – and have already powered a mobile revolution in banking, travel booking, food delivery and many more sectors. Yet not all solutions are created equal: The user's experience and privacy are critical considerations.

Mobile access via battery powered Aperio locks, for example, is built on Seos, a platform with class-leading cryptography and privacy protection. Unlocking an opening secured with an Aperio device is easy and intuitive: Users simply present their phone at the RFID reader, just as they would a smart-card. They don't even need to open an app. Aperio locks are already compatible with all major RFID credentials and NFC. The E100 Electronic Escutcheon is also compatible with Bluetooth Low Energy – which will be offered with more Aperio devices in the near future. User experience at the door is always identical.

Businesses can run RFID and mobile in parallel, if they choose. Every technology is always inside the Aperio package: There is no need to decide at purchase. And because Aperio is built on an open platform for maximum compatibility, locks integrate seamlessly with over 100 different security and access systems.

Streamlining access management with a smartphone

For facility management, security, cost and convenience are all enhanced by mobile. Lost physical credentials pose a major threat to workplaces. Over 17% of respondents to one survey admitted losing an RFID card or fob in the previous 12 months***. Mobile credentials can be cancelled or amended over the air, without any need for updaters or a credential handover meeting. Nobody is left waiting for their access permissions to update.

At Arkansas State University's new campus in Mexico, for example, a Smartair Openow mobile access control solution offers management of virtual "keys" inside a secure app. Keys can be created and sent from anywhere. With app-based control, security managers check and amend a virtual key's access rights whenever they want. When a virtual key is cancelled, it vanishes instantly from a user's Openow app.

Where intelligent key credentials are deployed, mobile management saves time and money. Cliq Go is an extension of the Cliq programmable key-based access solution, specifically tailored to small and medium-sized businesses (SMBs). SMBs often lack the budget for a dedicated security department or even a specialist manager. The Cliq Go app makes access management easy. Business owners can manage their locking system from almost any smartphone.

Another Cliq extension for mobile management, Cliq Connect is a previous Detektor International Award winner which streamlines security workflows for off-site staff and contractors. To change a keyholder's access rights, a system administrator simply accesses the Cliq Web Manager software – from anywhere – and updates it. The keyholder makes a secure Bluetooth connection between their Cliq Connect key and the mobile app to instantly update permissions. It saves time and money by reducing wasted journeys for any business where workers are always on the move.

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

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

Sources:

** Wireless Access Control Report 2021, pp. 5-7; download a free 19-page report at https://campaigns.assaabloyopeningsolutions.eu/wacreport2021*

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**** www.buildings.com/articles/27520/access-control-technology-eating-key-cards.*

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Robert Jansson, Stid, on requirements for access control:

Completely flawless security

Stid is one of the world´s largest manufacturers of non-contact readers for access control and the first to have component certification by an EU government organisation (ANSSI).

Robert Jansson, sales director in the Nordic region and in Eastern Europe, explains why Stid have earned such a strong position on the global market in this interview.

Robert Jansson, sales director in the Nordic region and in Eastern Europe, thinks the time has come for open GDPR compliant technology.

The access control market is a tough one for manufacturers aiming for international success. In comparison with the video surveillance market there are much more local manufacturers with strong market shares to compete with. A good example is Sweden, where Robert Jansson is located. It is not just the country where Assa Abloy's headquarters are located, there are several other manufacturers here as well. But Robert Jansson believes there is plenty of space for Stid to develop good and growing business in this market, just like they do in other countries with strong presence of local manufacturers. He thinks the time has come for open GDPR compliant technology.

So what are Stid's keys to success in the access control market?
Stid's success is based on our ability to combine two contradictory needs: the requirement for flawless security from security departments and the necessity for a seamless user experience by removing identification restraints.

So how does Stid respond to these requirements?
With Stid, access control becomes instinctive and guarantees data protection. Our access control solutions are futureproofed and can easily adapt to evolution in customer needs.

Why is open technology so important?
Because organisations will be independent and have autonomous management of their security. This freedom is vital for us and for our customers. They should not be locked into a solution or tied down by proprietary technologies. This bold positioning entices and retains our customer-base.

You are also claiming Stid's capacity to offer uniformed end-to-end security as an important strength. What do you mean by that?
We ensure impeccable end-to-end security between the card and the reader – with Mifare Desfire and EV2/EV3 technologies – and between the reader and the controller/LPU with systems capable of supporting OSDP and SSCP protocols.

In short, what are your customers' expectations in terms of access control?
Completely faultless security.

And how do you approach them?
The Architect Reader with capacitive vandal-proof keypad is a perfect example. With combined reader and keypad, this unit offers dual identification by combining card and or PIN code identification in perfect harmony with all market access control systems. A good example of how to ensure that the user is the card holder and it effortlessly reinforces access control security.

What else can you say about Stid's Architect reader?
Well, to add a new security mechanism requires having a well-designed keypad.

Stid's capacitive keypad is sealed and protected from accumulation of dirt. It also prevents the premature mechanical wear of individual keys, a common fault found in the majority of conventional keypads available within this market.

What about the resistance against tough weather conditions and other environmental challenges?
The reader's IK08 certified vandal-proof structure has been optimised to resist heavy knocks and malicious acts. It is designed to withstand harsh environments (IP65 level excluding connectivity): dust, heavy rain, frost, etc.

Any other specific design features that you think make a difference?
Yes, our reader with capacitive vandal-proof keypad has a curved body design which means keys cannot easily be pressed by accident. Unlike traditional capacitive keyboards, a visually impaired person can gently navigate our keypad using their finger-tips without actually falsely activating keys. Stid delivers the best of capacitive without any heavy mechanics. Add to this our lifetime warranty on most of our readers.

You have worked for Stid for two years now. How is business developing in the market you operate in?
Stid's growth continues. Recently, we partnered with Elektroskandia, a leading distributor of electrical technology based in Sweden. Our customers can access all Stid's products and services directly through this robust distribution network.

Stid is one of the world´s largest manufacturers of non-contact readers for access control.

Another among our customers is Aras, a security specialist operating within the Nordic Countries. We share the same requirements on flawless security and uncompromising quality. The synergy between our two entities is natural.

Finally, how do you look on the future and Stid's role on the market?
We shall continue to develop and design products and solutions that grow with ever-changing security needs. The current health crisis is a typical illustration of the importance of modularity.

And what is the next step for Stid?
To advance identification processes to be even more instinctive, smarter, and, innovating and strengthening the levels of trust and powerful relationships with our partners and customers.

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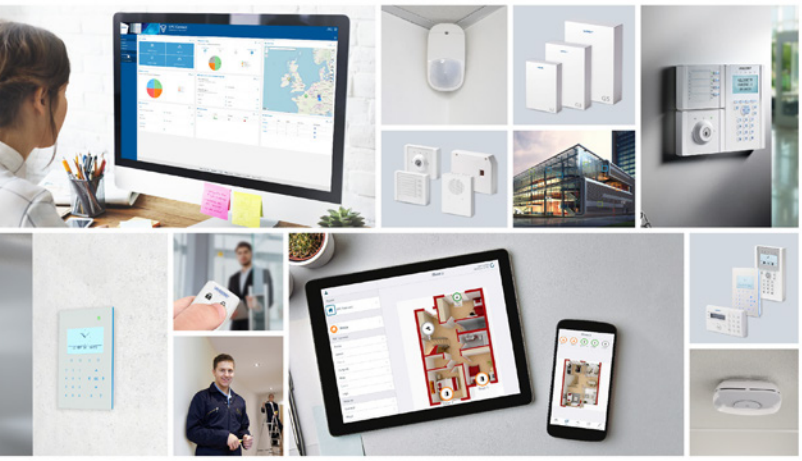

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Smart card market to reach 13.9 billion dollar by 2021

Northbrook, Il (USA)

A new report on the Smart Card market including Covid-19 impacts by Marketsandmarkets, estimates that this sector is projected to reach USD 16.9 billion by 2026 from USD 13.9 billion in 2021, with a CAGR growth of 4.0% from 2021 to 2026.

Illustration: Kalhh, Pixabay

Major drivers for the growth of the market are surged demand for contactless card (tap-and-pay) payments amid Covid-19.

Major drivers for the growth of the market are surged demand for contactless card (tap-and-pay) payments amid Covid-19, proliferation of smart cards in healthcare, transportation, and BFSI verticals, transportation, and BFSI applications; increased penetration of smart cards in access control and personal identification applications; and easy access to e-government services and risen demand for online shopping and banking. Moreover, new modes of user information security enabled by blockchain and adoption of smart cards in populated countries of APAC act as growth opportunities for developers of smart cards.

Contactless smart cards – largest market share

A contactless smart card includes an embedded smart card secure microcontroller or equivalent intelligence, internal memory, and a small antenna; it communicates with readers through a contactless radio frequency (RF) interface. Radio-frequency identification (RFID) or near-field communication (NFC) communication technologies are primarily used for contactless smart card applications. Covid-19 is positively impacting the contactless smart card market as the World Health Organization (WHO) and governments across the world are advocating the use of contactless smart cards for various purposes to ensure social distancing to contain the spread of the virus. Contactless smart cards provide ease, speed, and convenience to users. The contactless interface has become highly relevant in the current Covid-19 situation, especially for payment applications, as it facilitates safe and secure transactions without physical contact.

Telecommunications – strongest vertical

A subscriber identity module (SIM) card is a type of microcontroller-based smart card used in mobile phones and other devices. A SIM identifies and authenticates a subscriber to a wireless cell phone network. The telecommunications segment accounted for the maximum share with 42% of the smart card market in 2020. Expanding global mobile network and improvements in its infrastructure are boosting the growth of the market. In addition, Covid-19 led to an increased demand for connectivity, and the researchers found that the current crisis provided a push to the trend of digitalisation of business and private communication with cellular technology, along with the generalisation of digital conferences. Moreover, the penetration of high-end SIM card technologies, such as LTE, 5G, M2M, eSIM, and SWP, is expected to augment the market growth in the coming years.

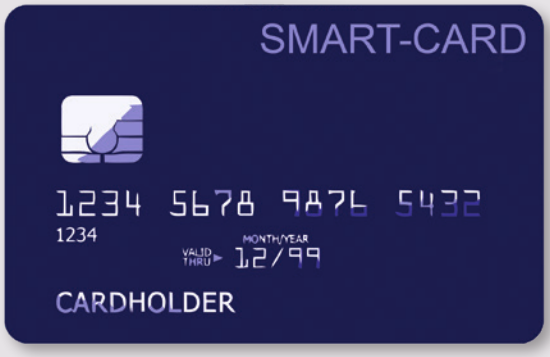

Illustration: Pixabay (montage)

Smart cards in populated countries of APAC act as growth opportunities for developers of smart cards.

Geographical stronghold

The analysts suggest that the APAC region is the largest market for smart cards and is expected to lead the way for a few years. The robust financial system that is being increasingly digitised and government agencies incorporating smart chip-based systems for better monitoring of processes are propelling several APAC countries to adopt smart card solutions owing to increasing demand, specifically in the transportation, BFSI, retail, government, and healthcare sectors. Smart cards are used to purchase tickets in metros, buses, and ferries, amongst others, in several countries in APAC countries. China is projected to witness the highest demand for smart cards in the region with its large consumer base and the presence of a number of smart card manufacturers.

Properly implemented smart cards in all sectors have proven highly effective in combating thefts and fraud. Government projects, such as the Aadhar card in India, drive the demand for smart cards for use in a number of sectors. Moreover, security concerns, particularly within the public sphere, are also expected to fuel the growth of the smart card market in APAC.

Some of the major companies playing a prominent role in this market and named by the researchers in the report include, Thales, Idemia, Giesecke + Devrient, CPI Card, HID Global, Watchdata, Eastcompeace, Inteligensa, AB Corp, and Cardlogix.

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Triton acquires Acre – including Vanderbilt, Comnet and Razberi

London (UK)

Triton has signed an agreement to acquire Acre, a leading end-to-end security solutions provider based in Dallas, USA and Dublin, Ireland. This agreement means that Acre brands like Vanderbilt, Comnet, and Razberi – well known in the global security technology industry – now have a new owner.

Triton will invest alongside the current management team of Acre. Acre's previous majority investor, LLR Partners, who has partnered with the company since 2013, will exit the business. Houlihan Lokey acted as exclusive financial advisor to Acre and LLR Partners. The financial terms of the transaction were not disclosed.

Strong security industry brands

Acre is a global leader in the delivery of security systems for access control and intrusion detection as well as video solutions with a communication networking and intelligent appliance portfolio. The software and solutions provided by Acre's family of companies (Vanderbilt, Open Options, RS2 Technologies, Comnet and Razberi) help secure the highest valued assets of large and small customers operating in the private and public sectors. Triton will bring industry expertise and additional capital to support Acre's continued innovation and proven buy and build strategy.

Peder Prahl, Director of the General Partner for the Triton funds, said: "We look forward to actively supporting the management and employees of Acre as a stable owner by investing in the growth and development of the company. Our industry expertise and international network will further strengthen Acre's position as a leading global provider of intelligent electronic security solutions."

More acquisitions to come

Joseph Grillo, Acre's CEO, stated: "As we reach our next stage of growth and strive to hit new milestones, we are pleased to welcome Triton as the partner to help us expand our presence and capabilities organically and via new acquisitions. This partnership will allow us to continue to invest in innovation and bring our market-leading solutions to customers."

"Acre operates in the structurally growing, fragmented and resilient electronic security market, with an attractive product portfolio and strong market position in the geographies it operates in. We look forward to partnering with Joe and the team as Acre embarks on the next phase of its journey," adds *Sachin Jivanji*, Investment Advisory Professional and advisor to the Triton Funds.

325 employees in 25 countries

Acre is a global leader in the delivery of integrated technologies and services. Since its formation in 2012, Acre has played an instrumental role in the development and implementation of security technology initiatives on a global scale. Its Vanderbilt, RS2, Open Options, Comnet, and Razberi brands deliver advanced solutions to thousands of customers around the world. Today, Acre employs approximately 325 employees in more than 25 countries.

Joseph Grillo, Acre's CEO.

Triton – an 18 billion Euros business

Since its establishment in 1997, Triton has sponsored nine funds, focusing on businesses in the industrial, business services, consumer and health sectors. The Triton funds invest in and support the positive development of medium-sized businesses with a strong European heritage. Triton seeks to contribute to the building of better businesses for the longer term. Triton and its executives wish to be agents of positive change towards sustainable operational improvements and growth. The 45 companies currently in Triton's portfolio have combined sales of around €18.2 billion and around 100,800 employees.

BUSINESS PEOPLE

Olivier Dussutour, new CEO at Nexus.

Nexus appoints new CEO

Stockholm, Sweden

Nexus, a part of the French IN Groupe, has appointed Olivier Dussutour as CEO. He will move from his current position as Group Innovation Director at IN Groupe to replace former CEO, Magnus Malmström who decided to follow a new professional venture outside the company.

After IN Groupe acquired Nexus last year, the group has laid the foundation to accelerate growth and to be a leading player in identity and secure digital services globally. To achieve this goal, IN Groupe management has appointed Olivier as CEO of Nexus as of March 1st, 2021. Nexus will be a part of the newly created Digital Services Business Unit.

Olivier joined IN Groupe in 2015 as Head of Development & Integration and led innovation for the past 3 years where he initiated the work on Digital ID. With his cross sectors and functional teams, he designed and developed user-friendly and frictionless solutions around Digital ID, authentication, and services. Olivier has 15 years of experience in the security industry with deep technical knowledge in the identity market from companies such as Entrust and Gemalto.

Nexus will continue developing the Smart ID platform and services for Workforce and IoT. The demand for Nexus solutions has increased vastly over the last years with leading organisations such as Airbus, Banque of France, Danfoss, and others depending on the Smart ID platform.

"I'm excited about the challenge and the opportunity to lead such an extraordinary team," adds Olivier Dussutour, CEO of Nexus. "Nexus is at the heart of the digital transformation within IN Groupe and our solutions and services are cutting edge for both IoT and Workforce. We will continue to innovate and secure society by enabling trusted identities."

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BUSINESS PEOPLE

Michael Larsen, Country Manager for the Benelux and Nordic countries at Hanwha Techwin Europe.

New manager for Hanwha Benelux & Nordics

Chertsey, Surrey (UK)

Hanwha Techwin Europe has appointed Michael Larsen as its Country Manager for the Benelux and Nordic regions.

Prior to joining Hanwha Techwin Europe, Michael Larsen was the Sales Director for 7 years of Nokas, a leading provider of security and cash handling services.

As Country Manager for the two regions, Michael will have the opportunity to capitalise on his extensive knowledge of local market conditions to develop and implement sales strategies which reflect the requirements of customers in the region.

"I am excited to have this opportunity to progress my career within the security industry with a company which has an enviable reputation for producing products and solutions that are ultra-reliable and offer true value in terms of their price/performance ratio," comments Michael.

"The Benelux and Nordic countries are important target markets for us. We are therefore very pleased to have been able to recruit someone of Michael's caliber to help us build on the success we have already achieved in the region," states Jeff (Chae Won) Lee, Managing Director of Hanwha Tecwhin Europe.

Strategic acquisition expands RFID scope for HID Global

Austin, Tx (USA)

HID Global has acquired the Invengo Textile Services Business of Invengo Information Technology Co., Ltd. The acquisition adds radio frequency identification (RFID) tags, readers and cloud-based inventory management services for linen and laundry management to HID Global's industry-leading RFID portfolio.

"The acquisition of the Invengo Textile Services Business further extends our identification technologies offering to meet the escalating demand for loss prevention capabilities, high-value analytics and real-time inventory visibility that increase efficiency in commercial laundry management," said *Björn Lidefelt*, CEO of HID Global.

"This addition to the HID family complements our existing business and capabilities in the RFID market, enabling our partner community to create robust solutions for this fast-growing market."

Beyond healthcare and hospitality sectors, streamlined linen and laundry management is also necessary for staff uniform laundry in industrial settings, such as power and oil plants, transport facilities, and mining, engineering, chemical, construction and utility companies.

Based in La Ciotat, France with around 45 employees, the Invengo

Björn Lidefelt, CEO of HID Global.

Textile Services Business, formerly known as Tagsys and established in 1993, is now part of HID's Identification Technologies Business Area led by *Marc Bielmann*, Senior Vice President and Head of Identification Technologies.

Securitas acquires FE Moran

Uniontown, Oh and Champaign, Il (USA)

Securitas has acquired **FE Moran Security Solutions**, a top 30 alarm monitoring and electronic security systems integration company in the U.S.

The acquisition increases Securitas' density and offerings in the United States' Midwest region and is aligned with Securitas' ambition to double the size of its security solutions and electronic security business. The purchase price is approximately 82 million US-dollars.

Founded in 2003, FE Moran Security Solutions provides an integrated electronic security offering – from design to installation and from maintenance to alarm monitoring – and focuses on commercial clients in several Midwestern states across the U.S., as well as numerous marquee national account clients. Their portfolio includes electronic security services such as intrusion, video, fire and access control systems, as well as a UL-listed, TMA Five Diamond certified alarm monitoring centre.

Total annual sales amounts to approximately 53 million dollars, mainly driven from a sizeable recurring monthly revenue base and installation sales.

"This acquisition supports Securitas' global strategy, strengthens our position as a leader in protective services and our ambition to double the size of our security solutions and electronic security business by 2023. This acquisition complements our North American electronic security business model and will further strengthen our position as the leader in protective services," says *Magnus Ahlqvist*, President and CEO, Securitas AB.

FE Moran Security Solutions will become part of Securitas Electronic Security, Inc. (SES) further strengthening Securitas' leadership in the commercial electronic security industry across North America. SES, like FE Moran Security Solutions, serves the commercial alarm monitoring and systems integration market. The two companies combined further provide a unique specialisation in serving large multi-site enterprise-wide national and regional clients.

The acquisition-related costs are expected to be MSEK 60, mostly to be recognised in 2021. The acquisition is expected to be EPS accretive as of 2022.

Milestone delivers successful result in a challenging year

Copenhagen, Denmark

Milestone's net revenue amounted to DKK 1 billion in 2020, a decrease of 1% compared with 2019. The operating income (EBIT) was DKK 112 million, a decrease of 9%, reflecting the pandemic's impact on sales, an increase in development capacity, and investments in new head counts to fuel future growth.

"We quickly turned around how we manage the company and found new ways of supporting our network of partners. This resilience combined with the adaptability of our people and partners prepared us to face the new challenges," says Chief Executive Officer *Thomas Jensen*, Milestone Systems.

Looking ahead, Thomas Jensen expects challenges but also looks forward to Milestone's continued growth journey. He concludes:

"Covid-19 created a lot of uncertainty and unpredictability in 2020. The pandemic is not behind us yet, and therefore we see challenges as well as opportunities ahead. But with our strong Covid-19 continuity plan, we are confident that 2021 will become another growth year for Milestone."

Addsecure aims for pan European growth with latest acquisition

Stockholm, Sweden

Addsecure has completed its acquisition of International Security Group GmbH (ISG), a German innovator in technology-driven video Surveillance-as-a-Service; and as a result, now adds Smart Surveillance to its expanding product portfolio.

Closing of the acquisition follows the announcement on November 24, 2020 of Addsecure's intention to acquire ISG. By entering and capturing market share in the fast-growing video surveillance market, the investment supports Addsecure's ambitious growth strategy.

ISG provides a comprehensive portfolio of mobile video surveillance solutions marketed as Video Guard to customers within industries such as construction, logistics and infrastructure. The common objective of the two companies is to jointly become a leading provider of video Surveillance-as-a-Service across Europe.

Stefan Albertsson, CEO of Addsecure, says: "I am very excited to welcome ISG to the Addsecure family. With ISG's market leading solutions, we are strengthening our offering and taking an important step by setting up the new business area, Smart Surveillance. Video Surveillance-as-a-Service presents compelling future growth opportunities and the solution is ideally suited for internationalisation and new use cases."

Jörn Windler, Managing Director of International Security Group, says: "For us the acquisition is an opportunity to join an expansive European provider. With Addsecure as owners, ISG can continue to grow and evolve in Europe."

With the acquisition now closed, ISG's Managing Director Jörn Windler will continue to lead the ISG team, reporting to the CEO of Addsecure, Stefan Albertsson.

Stefan Albertsson, CEO, Addsecure.

Idis acquires controlling stake in KT Powertel

Seoul, Korea

Idis, one of South Korea's largest video security technology manufacturers, has acquired a controlling (44.84%) stake in KT Powertel, the radio communications subsidiary of telecoms giant KT Corp.

Mobile communication leader

KT Powertel has been leading the development of LTE broadband wireless radio technologies in Korea's world-beating domestic market. The acquisition will now enable Idis to capitalise on this expertise in South East Asia and expand its capabilities globally. The move will strengthen the company's position as a provider of complete, end-to-end video solutions that are easier to install and that offer true flexibility and ease-of-use, and deliver on the promise of low total cost of ownership.

"In Korea's highly competitive and advanced home market KT Powertel has been a mobile communications leader for over 35 years, with more subscribers nationally than any other provider, delivering consistently strong sales and profits," says Idis, Chief Executive Officer, Y.D. Kim.

Will boost Idis's R&D capabilities

KT Powertel developed one the world's first blind spot-free LTE radio services, Power Talk, and PoC communications solutions. PoC radios support advanced functions including instant group calling, messaging, GPS location tracking, and emergency notifications. This, combined with LTE cellular networks, provides the bandwidth necessary for advanced video and data applications.

KT Powertel's depth of expertise in communications technology aligns well with Idis's focus on video surveillance and analytics solutions operated through a choice of video management systems and controlled via authorised access to client software or mobile applications. The acquisition, from KT Corp, will strengthen Idis's position in key markets including critical infrastructure applications, and both government and commercial sectors.

The move will further boost Idis's R&D capabilities in crucial growth areas including IoT.

Sensor technology – a growth driver

According to Idis, recent analysis estimates that the number of businesses using IoT technologies has risen from 13% in 2014 to around 25% today, with rapid acceleration now expected. Growth will be driven by the introduction of new and more capable sensors, more computing power, and more reliable mobile connectivity. As sensor technology becomes more powerful and affordable, it will become easier to expand and adapt security systems with a growing toolkit of remote add-on devices.

Idis aims to strengthen its offering in the security and safety sectors, with customers being able to benefit from powerful push-to-talk over cellular (PoC) communications solutions.

"As we look forward, video solutions will need to be increasingly convenient for customers to use on the move, and they'll need to be more flexible to install and extend with IoT and wireless technology. In all these specialisms, Idis's acquisition of KT Powertel will extend its expertise as it develops leading-edge solutions to increase security and safety in a range of applications," added Mr. Kim.

Strong 2021 start for SecurityWorldMarket.com

Stockholm, Sweden

In 2020 *Securityworldmarket.com* registered 559,221 visits, compared to 516,788 visits during the full year 2019, an increase of 8.2% – a new record for the website. The trend seems to continue. In the first quarter of 2021, Google Analytics recorded 157 753 visits, an increase of 7.7% compared with the corresponding period in 2020. The number of users in 2020 amounted to 402,450 an increase of 15.1% compared with the previous year. In the first quarter of 2021, 115, 726 users were registered, an increase of 9.9%.

"We will continue to work hard with the editorial content to increase the website´s traffic," comments *Lennart Alexandrie*, publisher, **AR Media International.**

HID selected for Libya's first e-passport programme

Austin, Tx (USA)

The company was selected to supply Libya's Ministry of Foreign Affairs (MOFA) with its HID Integrale, a secure end-to-end solution that expedites the application and issuance processes and manages the entire e-passport lifecycle. For improved security, the redesigned and modernised booklets include a durable polycarbonate datapage and are personalised using new laser engraving and chip encryption equipment.

HID Global designed, engineered and delivered the identity solution to the Libyan government in four months, even amid travel restrictions due to the Covid-19 pandemic.

"We are pleased that our collaboration with HID Global has yielded a robust and complete e-passport system that we have seamlessly integrated with our existing processes," said *Mohamed Elkoni* with Libya's Ministry of Foreign Affairs. "HID's identity document expertise, the delivery of the solution in record time against the current restrictive backdrop, and ongoing technical support has greatly simplified the implementation of our new systems."

To ensure compliance with ICAO standards, HID Integrale's public key infrastructure (PKI) service creates and manages Libya's Country Signing Certification Authority (CSCA) keys and certificates to sign personalised e-documents and enable verification. By implementing the PKI service, Libya can connect with the ICAO Public Key Directory, which enables the global use of their new e-passports and the potential for future security enhancements, such as biometrics. In addition, the solution's web-based platform makes it possible for HID engineers to efficiently train the ministry's staff as part of HID Integrale's customer support package.

"A successful migration to an e-passport system requires a solution that enhances each touchpoint of the user experience, from application to travel," said *Craig Sandness*, Senior Vice President and Head of Secure Issuance and Citizen ID Solutions with HID Global. "By opting for HID's Integrale software suite, the Libyan government has created a solid and future-proof foundation to issue diplomatic and special e-passports."

Libya's first diplomatic and special e-passport programme has been deployed by HID.

Allegion acquires Yonomi to help accelerate seamless access

Dublin, Ireland and Austin, Tx (USA)

Allegion plc, a global security products and solutions provider, has acquired privately held technology company **Yonomi**.

Founded in 2013 by building automation and enterprise cloud computing experts, Yonomi was the first to create an agnostic smart-home ecosystem that automatically discovers and coordinates devices. Today, Yonomi solutions are used in more than 150 countries, and millions of IoT devices are connected to its platforms.

According to Allegion Senior Vice President and Chief Technology Officer (CTO) *Vince Wenos*, Yonomi also holds unique intellectual property that matches well to Allegion's strategic priorities for accelerating growth through seamless access, innovative solutions and meaningful partnerships.

"Yonomi's patented technology and technical capabilities will help accelerate Allegion's vision of seamless access and enhance the breadth of our software development capabilities," states Wenos "It also opens avenues for integration with leaders in home and enterprise solutions for the IoT – supporting our 'partner of choice' strategy."

Yonomi's CEO *Kent Dickson* will become vice president and general manager of the Yonomi business unit within Allegion. Dickson noted that Allegion has been an investor in Yonomi since 2017 and this acquisition was a natural evolution for the Yonomi business.

"As an early provider of IoT solutions, Allegion truly understands the value of connected ecosystems and shares an important role in progressing smart-home solutions through its industry-leading brands like Schlage. In addition, Allegion has been a significant partner of, and investor in, our company, and this acquisition provides more capital and capacity for growth of our existing technologies and platforms," says Yonomi's CEO Kent Dickson.

Yonomi employs nearly 25 people at its operations in Boulder, Colorado, and Austin, Texas.

Vivint and ADT in legal battle over patent infringement

Provo, Ut and Boca Raton, Fl, USA

On February 25th 2021, **Vivint Smart Home, Inc**. released a statement announcing that it had filed a patent infringement lawsuit against **ADT** in the United States District Court for the District of Utah.

ADT has now responded with its own comments and released a statement saying, "ADT believes the claims asserted by Vivint are completely without merit and intends to vigorously defend against the lawsuit."

In the complaint, Vivint asserts that ADT infringes six of Vivint's U.S. patents related to security and smart home technology. As one of the premier providers of smart home technology, Vivint is recognised throughout the industry for its products, innovation and customer satisfaction. Vivint has more than 300 issued patents related to its proprietary technology.

The Company issued the following statement:

"Vivint invests millions of dollars to develop best-in-class products and services for its customers, as well as to patent and protect this technology. We will vigorously protect and defend our unique intellectual property and innovations."

Vivint pioneered connected devices for the home in 2010 to offer smart home features to its security customers. Vivint developed and launched its own proprietary platform in 2014 to offer customers a fully integrated smart home security system.

Vivint is seeking damages for ADT's infringement of the asserted patents."

Gartner identifies top security and risk trends for 2021

Sydney, Australia

Security and risk management leaders must address eight top trends to enable rapid reinvention in their organisation, as Covid-19 accelerates digital business transformation and challenges traditional cyber security practices, according to Gartner, Inc.

Peter Firstbrook, research vice president at **Gartner**, said these trends are a response to persistent global challenges that all organisations are experiencing. "The first challenge is a skills gap. 80% of organisations tell us they have a hard time finding and hiring security professionals and 71% say it's impacting their ability to deliver security projects within their organisations," said Mr. Firstbrook.

Other key challenges facing security and risk leaders in 2021 include the complex geopolitical situation and increasing global regulations, the migration of workspaces and workloads off traditional networks, an explosion in endpoint diversity and locations and a shifting attack environment, in particular, the challenges of ransomware and business email compromise.

The following top trends represent business, market and technology dynamics that are expected to have broad industry impact and significant potential for disruption.

Trend 1: Cyber security mesh
Cyber security mesh is a modern security approach that consists of deploying controls where they are most needed. Rather than every security tool running in a silo, a cyber security mesh enables tools to interoperate by providing foundational security services and centralised policy management and orchestration. With many IT assets now outside traditional enterprise perimeters, a cyber security mesh architecture allows organisations to extend security controls to distributed assets.

Trend 2: Identity-first security
For many years, the vision of access for any user, anytime, and from anywhere (often referred to as "identity as the new security perimeter") was an ideal. It has now become a reality due to technical and cultural shifts, coupled with a now majority remote workforce during Covid-19. Identity-first security puts identity at the centre of security design and demands a major shift from traditional LAN edge design thinking.

Trend 3: Security support for remote work is here to stay
According to the 2021 Gartner CIO Agenda Survey, 64% of employees are now able to work from home. Gartner surveys indicate that at least 30-40% will continue to work from home post Covid-19. For many organisations, this shift requires a total reboot of policies and security tools suitable for the modern remote workspace. For example, endpoint protection services will need to move to cloud delivered services. Security leaders also need to revisit policies for data protection, disaster recovery and backup to make sure they still work for a remote environment.

> ***"Gartner surveys indicate that at least 30-40% will continue to work from home post Covid-19."***

Trend 4: Cyber-savvy board of directors
In the Gartner 2021 Board of Directors Survey, directors rated cyber security the second-highest source of risk for the enterprise after regulatory compliance. Large enterprises are now beginning to create a dedicated cyber security committee at the board level, led by a board member with security expertise or a third-party consultant.

Gartner predicts that by 2025, 40% of boards of directors will have a dedicated cyber security committee overseen by a qualified board member, up from less than 10% today.

Foto: Gerd Altmann/Pixabay

According to the 2021 Gartner CIO Agenda Survey, 64% of employees are now able to work from home.

Trend 5: Security vendor consolidation
Gartner's 2020 CISO Effectiveness Survey found that 78% of CISOs have 16 or more tools in their cyber security vendor portfolio; 12% have 46 or more. The large number of security products in organisations increases complexity, integration costs and staffing requirements. In a recent Gartner survey, 80% of IT organisations said they plan to consolidate vendors over the next three years.

"CISOs are keen to consolidate the number of security products and vendors they must deal with," said Mr. Firstbrook. "Having fewer security solutions can make it easier to properly configure them and respond to alerts, improving your security risk posture. However, buying a broader platform can have downsides in terms of cost and the time it takes to implement. We recommend focusing on TCO over time as a measure of success."

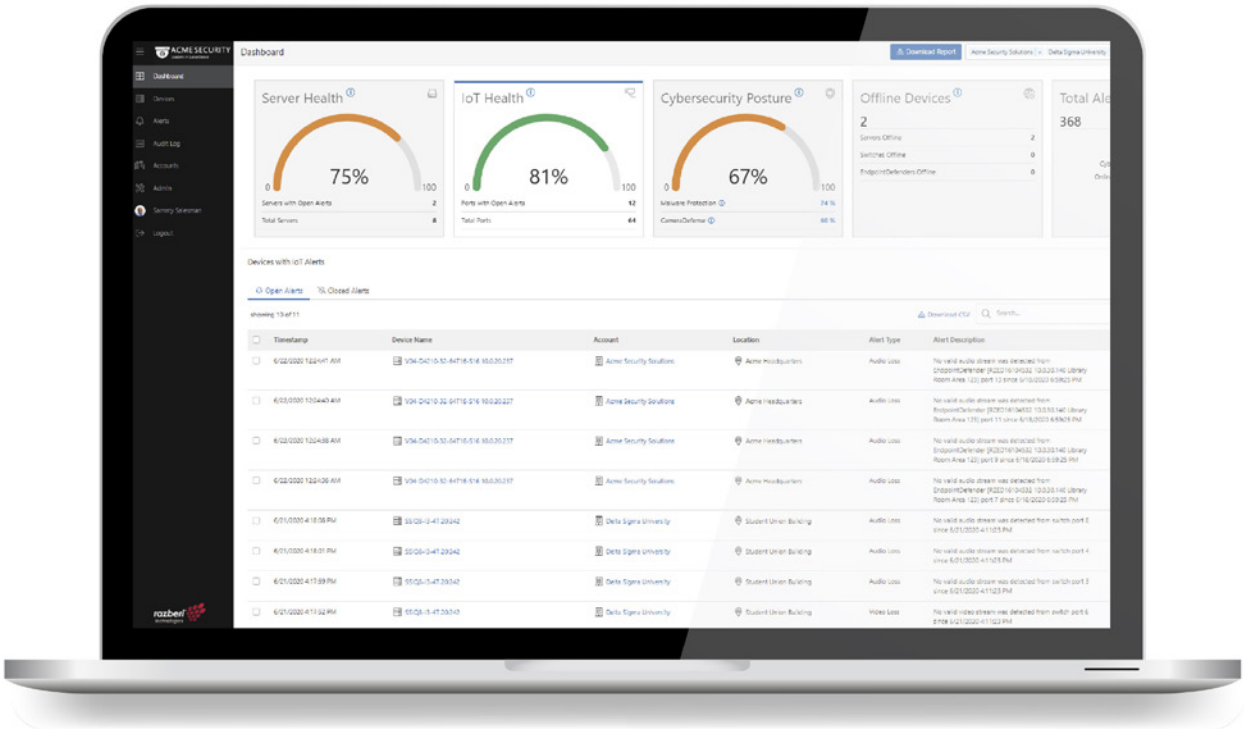
Trend 6: Privacy-enhancing computation
Privacy-enhancing computation techniques are emerging that protect data while it's being used — as opposed to while it's at rest or in motion — to enable secure data processing, sharing, cross-border transfers and analytics, even in untrusted environments. Implementations are on the rise in fraud analysis, intelligence, data sharing, financial services (e.g. anti-money laundering), pharmaceuticals and healthcare.

Gartner predicts that by 2025, 50% of large organisations will adopt privacy-enhancing computation for processing data in untrusted environments or multiparty data analytics use cases.

Trend 7: Breach and attack simulation
Breach and attack simulation (BAS) tools are emerging to provide continuous defensive posture assessments, challenging the limited visibility provided by annual point assessments like penetration testing. When CISOs include BAS as a part of their regular security assessments, they can help their teams identify gaps in their security posture more effectively and prioritise security initiatives more efficiently.

Trend 8: Managing machine identities
Machine identity management aims to establish and manage trust in the identity of a machine interacting with other entities, such as devices, applications, cloud services or gateways. Increased numbers of nonhuman entities are now present in organisations, which means managing machine identities has become a vital part of the security strategy.

VANDERBILT comnet Communication Networks



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- Receive advanced replacement of drives before they fail
- Know your vulnerabilities before they are exploited

Razberi Monitor provides visibility to your system from any internet connected device with an intuitive dashboard, so you know the status 24/7. Built with simplicity in mind – no IT resources required.

- Quick issue resolution
- Reduced service calls
- Proactive support

Contact your local Vanderbilt office for more information: **vanderbiltindustries.com/contact**

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Video surveillance – heading beyond security applications

An increasing number of physical security industry professionals today are citing cases where cameras are now being used for purposes other than security. Traffic management, transportation, streamlining retail and smart cities are just a few examples.

By Henrik Söderlund

Photo: Tumisul, Pixabay (montage)

One of the trends is multi-dimensional perception – it is no longer just the security camera that "sees" things.

This trend was highlighted by Milestone System's CEO Thomas Jensen at the Milestone event Mips (Milestone Integration Platform Symposium) at the beginning of March, when he said:

"It is not only going to be about security and safety anymore. Security and safety are very important for us, however, we will see also in the future, that things move beyond security. We really see opportunities to develop the business and to look beyond the features that security really drives."

Traffic is one area where Milestone points out that the technology used to be about speeding fines and drivers running a red traffic light. Nowadays, the technology also gives the opportunity to reduce pollution, redirect traffic during rush hour and predict traffic patterns for ambulances and rescue vehicles.

The cloud makes it easier

Another example that Thomas Jensen mentions is retail, where using technology to prevent and investigate theft and to avoid overstaffing on site when there are only a few customers in the store – but it is also about understanding the customer journey within the store.

"How do we make sure the customer can easily find the goods they are looking for? But also, when you go beyond that, how can we use that knowledge to make the experience more interesting and appealing for customers" he says.

The choice today is between open or proprietary, software or hardware and cloud-based or on-premises. Milestone is clear about that, the former ones are the future and during Mips, this was illustrated by companies previously digging up roads in order to lay cables to be able to collect traffic data and traffic patterns – today, this has been replaced by software or apps like Waze.

Hanwha Techwin recently listed its predictions for the five biggest trends for 2021 and one of them is that the cloud will be more widely adopted as a business insights tool. Today, the cloud is mainly used as a way of updating product features, as well as installing security patches. The increase in the number of edge devices being deployed means the cloud also has an important role to play as a means of safely managing the devices and handling large amounts of data to provide business intelligence. Hanwha Techwin will release a cloud solution which will enable users to more easily manage IP network products and monitor their status in real-time. Equally important, the solution will generate reports which provide greater situational awareness and business intelligence.

The cloud is an enabler

Genetec points out hybrid cloud solutions as one of the biggest trends for 2021. According to a report from Forrester, global public cloud infrastructure will grow 35 per cent to a market value of 120 billion dollars in 2021.

Hybrid solutions make it possible to implement specific systems or applications in the cloud while keeping existing on-premises systems. End users can also quickly migrate to newer technologies, minimise hardware footprints, boost cyber security, and reduce costs, according to Genetec.

However, the Canadian company finds innovative solutions that will enhance Covid-19 response as the biggest trend in the industry. The demand for occupancy management solutions has increased and will continue to increase. People counting is a big part of it, but the analytics are also helping businesses unlock important insights about how people use their facilities. Even after the pandemic is over, they can extract data to learn how many people are waiting in the lobby, how many people are in the cafeteria, how specific spaces are being used over time, and this data then becomes the catalyst for building improvements that enhance the visitor, employee, or tenant experience, according to Genetec.

Thomas Jensen, Milestone System's CEO.

A wider use

Hikvision has also put together a list of what the company believes are the biggest trends for 2021. One of the trends is multi-dimensional perception – it is no longer just the security camera that "sees" things. With the development and application of sensing technologies, more powerful edge computing and intelligent algorithms, integrated security devices and systems that employ multiple sensors are becoming possible, Hikvision points out. Today, radar detection, multispectral imagery, humidity and temperature measurement, and gas pressure detection, are being integrated with video cameras and systems. And this means that the areas of use for video are increasing as more multidimensional information is collected.

Andrea Sorri, Business Development Director for the Smart Cities EMEA segment at Axis Communications, explains that "if you cannot monitor it, you cannot improve it" and claims it will be possible to identify risks at an even earlier stage with cameras. Many cameras are only used for security and safety purposes, with a single use-case. "However, with a scalable network video system the end customer can add this type of analytics to its current system, or easily complement with additional cameras or sensors to supplement the system", he stresses.

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AR Media International AB, Västberga Allé 32, 126 30 Hägersten, Sweden
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Andrea Sorri, Axis Communications:

Mixed technologies for effective perimeter security without false alarms

How to create a strong perimeter security surveillance solution without generating disturbing false alarms, caused by weather and wind or animals entering the area?

Andrea Sorri, Business Development Manager at Axis Communications with responsibility for Smart Cities, sees a strong combination in intelligent network-based thermal cameras and PTZ cameras in perimeter security applications.

Whether it's an industrial plant, a shopping mall, or a complex of villas, knowing what's going on around you, and stopping potential threats at the boundaries, is important in many settings.

Whether it's an industrial plant, a shopping mall, or a complex of villas, knowing what's going on around you, and stopping potential threats at the boundaries, is important in many settings. This is essentially what 24/7 perimeter protection is all about.

Technology mix

The classic barbed wire fence springs to mind, but over the years the security industry has come up with a wide range of technologies for this task, including short distance radar, lasers, ground sensors, motion sensors or motion-sensitive fence wires. However, all of these are now increasingly being replaced or complemented by network video cameras.

"Armed with advanced capabilities, these cameras can effectively protect large premises, even in total darkness," states Andrea Sorri who recommends a mixture of different technologies to optimise the perimeter surveillance.

"In combination with traditional technologies, network cameras form a more intelligent, IP-based perimeter surveillance system. A combination of live thermal video cameras as detection sensors and high-definition video cameras for detail and verification adds important visual information; who or what has triggered the alarm? What kind of activity is going on?"

Works in all conditions

Andrea Sorri claims that with such a vast range of cameras available, they can be set up to be as versatile and high performing as the setting requires.

"Even in difficult light or weather conditions, clear images on live and recorded video footage facilitate the detection and identification of objects, people and incidents. Automated solutions and video analytics software can further reduce the need for human intervention," he says.

"This combination can be all that is needed to create peace of mind in practice".

Animal troubles solved

Andrea Sorri gives an example of perimeter security solutions where the combination of network cameras and thermal cameras have been successful.

Faced with increasing security concerns, the Renishaw Hills Estate – a lifestyle village in South Africa – knew that it needed an integrated security solution to keep residents relaxed and safe. A specific issue with the existing solution were false alarms caused by animals attracted to the infrared emitters. Security personnel had to manually verify each of these incidents, leading to frustration and lost time.

They opted for a solution of Axis thermal and pan/tilt/zoom (PTZ) cameras to monitor for suspicious activities outside of the security fence at any time of the day, and under all weather conditions.

"In this way, their security team could monitor threats in real-time and improve their efficiencies", comments Andrea Sorri.

Low light and large distances

Sometimes, the areas that need to be monitored are vast – think rail yards, bus depots, car parks, harbours or the area around an industrial site. Lighting conditions can also be a problem, especially at night-time if there is little or no electric light available.

Luckily, the combination of thermal cameras with intelligent video applications and PTZ dome cameras has proven very effective in handling these challenging environments.

Thermal cameras and radar

Sorri´s second example – System Truck production plant in Italy – confirms this efficiency. The 15,000m2 plant used infrared barriers as a protection system, which were proven inefficient due to the numerous false alarms.

Security personnel had to manually investigate every alarm to verify whether an actual threat was present, again leading to lost time. In addition, the existing solution lacked the range to properly protect the entire company perimeter.

To address these issues, a custom-made solution of Axis thermal and radar cameras was used to detect intruders across a wide area under low lighting conditions, ultimately improving the efficiency of the protection system including a significant reduction in the number of false alarms.

"Thermal network cameras do not need any light at all to operate and are an obvious solution to night-time monitoring. Even in broad daylight, they are useful in detecting people or objects that are obscured by deep shadows", states Andrea Sorri.

The cameras available on the market today are so sensitive and accurate that they provide a perfect first line of defence, according to Andrea Sorri.

"A thermal camera equipped with video analytics can be configured so that when it 'sees' a suspicious event, it automatically directs a second, PTZ camera to point and zoom in to the right place and provide live HDTV video of the situation," he explains.

Scalable and flexible

Andrea Sorris emphasises what he considers the beauty of IP-based technologies, namely that they can be integrated with each other, and with existing security systems.

"The versatility of these cameras, in combination with the many available video analytics applications, makes these systems flexible, scalable and cost efficient. Cutting the effort and stress caused by false alarms, and providing greater peace of mind," concludes Andrea Sorri.

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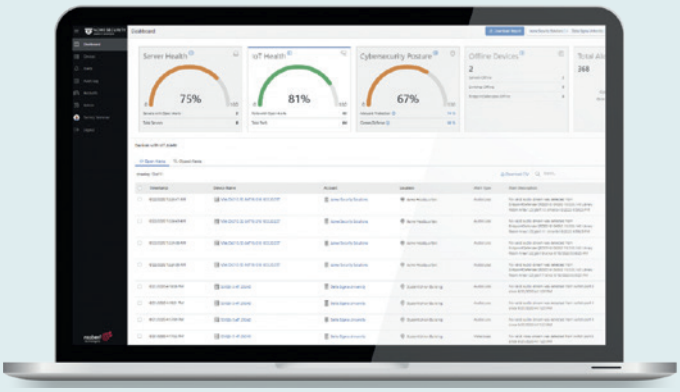
Vanderbilt:

Countering the rise in network attacks

The demand for monitoring cyber security and system health is increasing as the number of connected devices is exploding.

"Anywhere where users now are deploying IP, ethernet, or whatever that communication platform may be, they need to be looking to secure those networks because they are providing points of attack onto that network", says Ian Deuchars, General Manager of Comnet.



Razberi Monitor, which is a software platform that monitors and manages all the components of the system.

The year of the pandemic also brought numerous cyber security challenges, not least since many people are accessing their company's network from home. At the same time, the number of IoT devices worldwide is forecast to almost triple from 8.74 billion in 2020 to more than 25.4 billion devices worldwide in 2030.

"When you start looking at the attack vectors that are growing at an alarming rate, it is IoT devices that are getting targeted. So, there is a lot more knowledge about that now, people are paying attention, and people are starting to realise that they need to be a lot more cyber security conscious", says Fraser Johnston, Network Expert at Vanderbilt.

Monitor system health

He claims there are a number of reasons for why the demand for cyber security is growing: "If you look at IT growth over the last 20 years, IT hardware has been exponentially growing in power availability and what it can do. And now, as things are getting cheaper and cheaper, there is an explosion of network devices, and that is not just in developed countries, it is now in developing countries as well. Coupled with that, you have limited visibility of system health with that rapid expansion, and then the third problem is that IT staff expenditure is never proportional to device growth", he says.

According to Fraser Johnston, most system failures of video surveillance occur long before the end customer realises they do not have the video they need, because there has been an incident in their factory or in their store for example. "So, when they go to look for video it is not there for one reason or another" he says.

In 2020, Acre International acquired Razberi Technologies and put it under the Comnet umbrella. Razberi Technologies' business idea is to make it simple to manage and secure video surveillance and IoT systems and one of its products is Razberi Monitor, which is a software platform that monitors and manages all the components of the system, like servers, storage, cameras, and other networked security devices – for both cyber security and system health. Razberi Monitor can be deployed from the cloud or on-premises and will help to resolve issues before they become bigger problems.

"There has been a lot of similar programmes or applications but, so far, none of them are as sophisticated and that is why many leading VMS manufacturers are pointing their customers towards Razberi Monitor", says Alex Holmström, Global Sales & Marketing Director at Acre International.

A simple solution

Fraser Johnston considers reducing congestion on a corporate network, as well as introducing many cyber security functions, and protection against various attack vectors on the IoT hardware, as the biggest value proposition for Razberi Monitor, as well as being

Ian Deuchars, General Manager of Comnet.

Fraser Johnston, Network Expert at Vanderbilt.

able to monitor everything in a very simple solution. He points out that with high definition cameras and more devices becoming available at a cheaper cost, we are getting a rapid expansion of data on networks, that we never really needed to consider before. He says: "So Razberi Monitor allows you to connect as many high definition cameras as you want and keep them at the edge of your network. The cameras connect into the Razberi device and all that traffic is directed straight into that one device, without having to transit over your existing corporate network.

Being proactive

Fraser Johnston presents a hypothetical case, where a supermarket may have had an incident in an aisle or in a car park, but then has just discovered that for the last three weeks they do not have any recorded data. It would have been much better to know about that fact as it happens – or before it happens – and that is possible with Razberi Monitor.

Most commonly, the reason there is no video is because of hard drive failure, or perhaps an environmental failure, where there is an increase in temperature and things are starting to fail through heat exhaustion. Fraser Johnston says: "So if they had Razberi Monitor in place, you would get smart data from the hard drive and the client generates variables from there, which then are reported through the Razberi agent and the Razberi Monitor cloud which allows customers or system integrators to receive these warnings".

In that way, a hard drive can be replaced before it has failed.

"So Razberi offers the ability for customers to provide a better service experience, as well as a safer service experience", Fraser Johnston concludes.

Enhanced Paxton Key within Paxton 10

Brighton, UK

Paxton has updated the Paxton Key app within the Paxton10 system. It now enables smart devices to become contactless access tokens and has new remote site management functionality.

"We are delighted to be able to offer Paxton10 users the *Paxton Key* app update. Our Smart Credentials are free with no hidden subscription costs and are sent to your pocket in an instant," states *Gareth O'Hara*, Paxton's Chief Sales Officer.

"The benefits and convenience of contactless access control have been well documented prior to, and even more so during the pandemic. Being able to provide access credentials without having touch points not only offer users convenience, but also ensures they are reducing the risk of infection to themselves and others".

As society finds ways to work through the new normal, many people have been returning to sites with Paxton solutions, so these ideas and technological innovations have now become a reality.

Paxton Key works with Paxton10 readers, Paxlock Pro and Entry panels using four simple steps:

1) A smartphone, tablet or smartwatch sends an encrypted advert up to a range of 10 metres.
2) A Paxton10 reader connects.
3) Free Bluetooth credentials are exchanged.
4) Access is granted or denied within milliseconds.

The app includes an added layer of site security via personal identification and verification. When using the dual authentication process, a Paxton10 system can require a user to present their smart credential and then verify their identity. This works by using the biometric capabilities already available in a user's device such as fingerprint scanning or facial recognition.

The emphasis on Paxton Key is simplicity and ease of use. The app has been designed to function in a logical way with a flawless experience. It will continue to run in the background, ready for when the user needs instant access. The update has also been optimised not to reduce a devices battery life.

Alongside the update to the Paxton Key app, Paxton have released an update to their web based Paxton10 software. The update offers a new remote management functionality allowing an installer to re-boot Paxton hardware, as well as delete and reinstate any database stored locally on the hardware, from anywhere, anytime.

The update also introduces new video management features. Privacy Masking allows you to screen areas caught on camera that you do not wish to record. Improved image recording with wide dynamic range control offers more balance between light and dark areas, and you can now manually switch between day and night recording for greater control of infrared light.

Paxton Key works with Paxton10 readers, Paxlock Pro and Entry panels using four simple steps.

The Paxton Key App is available to download on IOS and Android. It is also supported on Apple Watches and devices that run Wear OS by Google. swm

Two-way network video intercom from Axis

Lund, Sweden

Axis Communications has released a new network video intercom designed to be highly robust and vandal-resistant. Incorporating two-way communication, video identification, and remote entry control, the Axis I8016-LVE network video intercom is offered for use in applications with surveillance in complete darkness and demanding situations.

The Axis I8016-LVE network video intercom.

With a 5 MP security camera and exceptional audio quality with echo and noise cancellation, the new network video intercom has been designed to ensure reliable identification even in the most demanding situations. The invisible IR night vision makes it possible to clearly identify visitors— 24/7. Additionally, this robust, vandal-resistant IK10-rated network intercom offers easy installation and fits into standard installation boxes.

Based on open standards and interfaces, this reliable device offers great integration possibilities and is a perfect complement to any video surveillance system. In addition it is also possible to integrate the device with other systems and solutions such as video management, access control, and VoIP communication. swm

High speed face recognition access control terminal

Hangzhou, China

Dahua Technology has released its new *FACT series*, Face Recognition Access Control Terminal, offering a face recognition speed of less than 0.3 second per person. This enables employees to enter premises quickly, especially useful at busy times.

In addition, Dahua guarantees a 99.5% accuracy and strong adaptability to a number of demanding situations, including intense light, dark nights or people with beards or wearing glasses.

According to the company, the terminal has been tested according to TÜV Rheinland ETSI TS 103645 standard, and certified by TÜV Rheinland to be compliant with the General Data Protection Regulation (GDPR) for information security and privacy protection.

For security distributors and installers, traditional access control products are difficult to install and wire, and sometimes configuration can be complicated. Dahua FACT series Face Recognition Access Control Terminal, supports standalone mode, and also saves on a high degree of wiring costs. In addition, the configuration can be done in the local GUI menu through the touch screen.

Dahua FACT series terminal is suitable for applications in commercial buildings, schools, hospitals, etc., delivering convenience as well as an additional layer of protection during work resumption in the new normal. swm

Dahua's FACT offers face recognition speed of less than 0.3 second per person.

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

Assa Abloy adds cloud management to Incedo access solution

London, UK

Incedo access management from **Assa Abloy Opening Solutions** is created for businesses that need a flexible security solution which grows with them. Now, Incedo Business Cloud has been added to the solution.

Incedo Business Cloud offers a solution to the many daily challenges of access management, and managers no longer need to be on-site to handle day-to-day security. It operates securely 24/7 from any PC with an internet connection.

Installing the system is designed to be easy, with no complex integrations needed. Software updates are regular and automatic, with real-time reports and analytics available with a few clicks.

Incedo Business Cloud works out of the box via a cost-efficient subscription service. Onboarding is fast and hassle free, and user data is safeguarded via an Information Security Management System certified to ISO/IEC 27001.

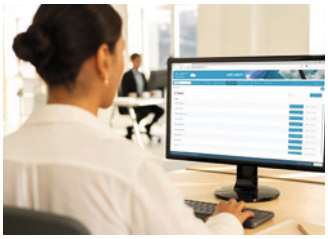
A cloud solution makes access management easier and more convenient, helping companies to design security administration processes which are streamlined, location-independent and efficient. For any size of organisation, switching to Incedo Business Cloud implements this powerful access control with no high upfront costs and ongoing cost-effectiveness.

"A cloud software solution makes budgeting more predictable for facility and security managers," says *Kevin Hoare*, EAC Product Unit Director at Assa Abloy Opening Solutions EMEA. "It removes the need to hire additional in-house IT support and maintenance teams: you know ahead of time how much resource to allocate and can scale infrastructure up or down quickly. The business benefits of 'managing access rights from anywhere' drive ever greater demand for cloud solutions within security and beyond."

"Survey data shows the way companies manage access control will continue to be a mixed picture, with both locally hosted and off-site cloud solutions for access control as a service," he adds. "This is why, when launching our Incedo ecosystem, we give users the choice." Migration between Incedo's local and cloud management options is always seamless in any direction, ensuring total flexibility for any business.

Incedo Business Cloud offers a modular, platform approach making both procurement and operation simpler. Managers choose the security hardware and credentials they need together with the appropriate management system. Assa Abloy wireless digital locks and wired wall readers secure the doors. A choice of card and token credentials – or mobile keys on a smartphone – offers safe and convenient access to, and movement around, the premises.

New Incedo-enabled hardware from Assa Abloy and third-party providers will continue to be made available within the evolving Incedo ecosystem. Add doors or locations, and switch between local and cloud management, as often as required. Incedo offers guaranteed flexibility and scalability in every direction, promising to meet security needs today and in the future.



Incedo Business Cloud offers a solution to the many daily challenges of access management.

"This latest enhancement of our Incedo solution makes comprehensive, real-time, remote access management into a reality. Incedo will keep premises secure and filter access intelligently, to manage the ever-changing movement of people across multiple sites — from anywhere. Your business is not static, and there is no reason why your security should be." says *Stephanie Ordan*, VP Digital and Access Solutions at Assa Abloy Opening Solutions. swm

Portable all in one reader

Cork, Ireland

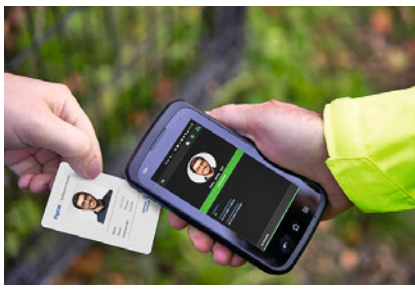
Johnson Controls is launching the new *C-One2* mobile terminals from Coppernic for the innovative Tyco Software House C-Cure Go Reader. C-Cure Go is an application that extends the capabilities of the C-Cure 9000 security and event management system with portable, secure access control functionality, even in remote or disconnected areas.

The Coppernic C-One2 handheld Android device, featuring a multi-technology HID read head, is an ideal mobile solution for controlling an individual's access rights at any time and from anywhere. The C-Cure Go Reader application validates credentials, performs roll calls and can even enforce anti-passback on a per-device level and also in an online mode in conjunction with I-Star controller areas.

C-Cure Go Reader can operate in offline mode, caching personnel records and clearance data, as well as buffering offline transactions and synchronising instantly with C-Cure 9000 when back online, making this ideal for construction sites, temporary entrances, offsite events or roaming security checkpoints for spontaneous badge checks.

For emergency situations, the C-Cure Go Reader features a roll call system administrator to produce a list of all users currently within a specified area, a crucial function for any emergency or evacuation plan. Cardholders simply present their QR code, Iclass, Mifare/ Desfire EV2 or proximity card to the handheld reader. Once presented, C-Cure Go Reader shows the associated portrait image, cardholder status, clearance information, and whether the individual can be admitted or rejected.

For quick tracking, the C-Cure Go Reader can easily create check points and track IN and OUT status for personnel, as well as capture the GIS location of each card ship and show locations on C-Cure 9000 workstations.



Johnson Controls is launching the new C-One2 mobile terminals from Coppernic.

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Axis launches new bispectral thermal and visual camera

Lund, Sweden

Axis Communications has launched *Axis Q8752-E*, a bispectral PTZ camera featuring a thermal camera with 3x zoom for reliable detection and verification in all weather and light conditions, and a visual camera with 32x optical zoom for visual identification. A model with a 35 mm thermal lens is also available.

This top-of-the-line camera offers a ground-to-sky view with a tilt range of -90° to +45° and 360° infinite pan for fast camera repositioning and tracking of objects. It features Electronic Image Stabilization (EIS) on both channels and smooth PTZ operation. With thermal palettes, it helps identify different heat sources emitting the same amount of thermal energy, making it easier and more efficient to interpret a scene.

It's audio-ready and includes Axis Motion Guard, Axis Fence Guard, and Axis Loitering Guard for proactive surveillance. Forensic WDR and Lightfinder 2.0 offer guaranteed images with saturated colours and sharp details of moving objects even in challenging light or near darkness. Additionally, it's packed with advanced security functionality to prevent unauthorised access and safeguard the system.

This robust, vandal-resistant camera can be connected using fibre optic cabling to overcome distance and bandwidth limitations. This allows the camera to be installed in out-of-the-way locations requiring fewer cables and connectors. swm

This robust, vandal-resistant camera can be connected using fibre optic cabling to overcome distance and bandwidth limitations.

Milestone releases new series of Husky appliances

Copenhagen, Denmark

Milestone has launched the company's new Husky series offering a range of six video management appliances that cover a variety of use cases from simple setups in small sites, including retail, all the way to larger and more complex installations, like critical facilities.

With its reliability, ease of use and optimal *Xprotect* integration, the new Husky series enables partners and customers to achieve much more with their Milestone Xprotect video management solution, powered by Dell Technologies OEM Solutions. Partners and customers will also get extensive service and support with a single point of contact for both hardware and software, along with the possibility to access onsite support through a global support network. All this combined ensures a stronger and more powerful Milestone solution.

The new Husky series is a result of a collaboration with some of Milestone's key partners.

The new Husky series is a result of a collaboration with some of Milestone's key partners, demonstrating how Milestone's partner community can brings effective solutions to the market.

"The new Husky series represents a significant evolution of Milestone's hardware offerings to the market, enabling our partners to be geared for the future. This new portfolio brings together ease of use, performance, reliability, and optimal integration with Xprotect and importantly, a comprehensive service offering and the flexibility that Dell Technologies will bring. We believe this will help support our partners' business in 2021 and beyond. With the launch of the new Husky series, we look forward to engaging with our community to achieve great impact," says Chief Technology Officer Bjørn Skou Eilertsen, Milestone Systems.

The new Husky appliances series was announced at Milestone Systems' global partner event and video technology conference, MIPS, and is expected to be available for pre-order in May 2021.

AI combines with NVR for all in one solution

Chicago, Il (USA)

The newest addition to the **Motorola** video security and analytics portfolio, is the Artificial Intelligence *Network Video Recorder* or AI NVR, which combines the traditional Avigilon NVR with the capabilities of the Avigilon AI Appliance to provide enterprises with a solution that fulfills their analytic, storage and cyber security needs.

The solution is cloud-connected, enabling remote management through Avigilon Cloud Services so that users can easily perform software upgrades and download new applications.

"By combining analytics and the cloud in an appliance that is easy to deploy and manage, security operators are able to make better informed decisions while streamlining their system management operations," states John Kedzierski, senior vice president, Video Security & Analytics at Motorola Solutions.

Rather than replacing an entire video security set up, users can now connect their existing camera system with the AI NVR to gain access to the Avigilon advanced analytics. This includes Avigilon Appearance Search Technology and Object Detection and Classification, as well as No Face Mask Detection and Occupancy Counting from the Covid-19 insights suite.

The AI NVR is a solution, enabling users to adopt the power of Avigilon's neural network-based analytics while running on a hardened operating system that can be managed remotely. swm

The solution is cloud-connected, enabling remote management through Avigilon Cloud Services.

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

Mobotix thermal solution complies with US FDA specifications

Langmeil, Germany

Mobotix has developed the M16 EST thermal camera as a special thermal solution for the for zero-contact detection of temperature fluctuations of the body surface (EST: Elevated Surface Temperature).

The M16 EST thermal camera complies with the specifications of the U.S. Food and Drug Administration (FDA), which enables and enforces its use and distribution in the United States.

According to Mobotix, the thermal solution precisely satisfies the requirements of the Covid-19 Emergency Use Authorization (EUA) by the FDA's enforcement policy for tele-thermographic systems. This means that the Mobotix M16 EST solution can be utilised by following FDA regulations for determining body temperature within the duration of the public health emergency that was declared by the Secretary of Health and Human Services (HHS).

Examples of suitable locations for this solution include, but are not limited to: healthcare facilities, schools, government institutions and retail environments.

Proof of quality and appeal to other markets

Meeting FDA requirements under the emergency order is an essential step for Mobotix sales in the growing US market. However, utilisation of the Mobotix M16 EST solution within the healthcare sector in countries outside the US may require further product releases and approvals to satisfy the specific needs of various national laws. Regardless, with all FDA specifications met, the highly-esteemed German manufacturing quality within this professional thermal solution will undoubtedly extend into other countries and markets.

Helping to contain the pandemic

The measurement system, which complies with FDA specifications, consists of two components, the Mobotix M16 EST thermal camera, and a black body radiator. The black body radiator is used to create an area with a reference temperature for the Mobotix M16 EST thermal camera.

Non-contact temperature detection is used primarily by healthcare professionals to screen and potentially identify (Covid-19) infected people. The thermal camera solution can be used in healthcare facilities or non-medical areas, such as airports or building access gates.

Recording body temperature with the Mobotix M16 EST thermal camera is an effective tool for risk detection. Of course, the Mobotix solution should not be used exclusively or primarily for diagnosing or ruling out Covid-19 as well as any other disease. Elevated body temperatures associated with the use of this solution should always be confirmed with secondary evaluation methods such as non-contact infrared thermometer (NCIT) or clinical grade contact thermometer.

The measurement system consists of two components, the Mobotix M16 EST thermal camera, and a black body radiator.

Defined structure and procedure

The Mobotix M16 EST thermal camera should only be used to record a single person's temperature at a time. The distance between the person and the camera must be the same as the distance between the person and the blackbody radiator. The Mobotix M16 EST thermal camera measures the difference between the reference temperature of the calibrated blackbody radiator and the temperature of the hottest point within the measuring range of the uncovered face of a person. Usually, this is the inner canthus (tear duct) of the eye. swm

Intelligent cloud-based video surveillance solution

London, UK

Ava Security is now launching *Aware Cloud*, a cloud video surveillance system designed to be flexible enough to meet any business security need, according *Andrés Portillo*, VP Sales, EMEA at Ava Security.

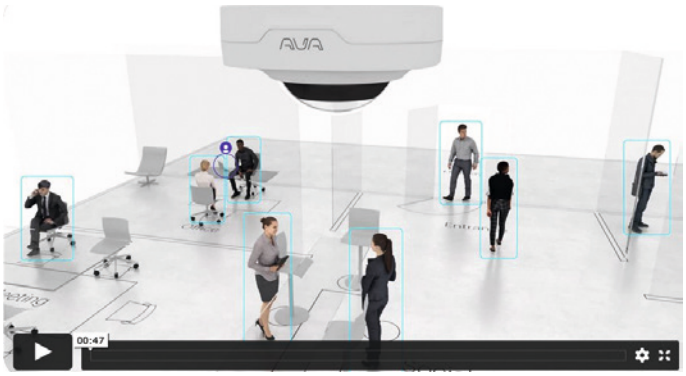
"It provides full situational awareness and business intelligence. The solution comprises two main components: our range of cloud-managed AI cameras, and the Aware cloud video management system. Available from anywhere, eliminating the need for complicated equipment maintained by experts, lowering operating costs, and simplifying user interfaces," he states.

Andrés Portillo emphasises the simple operation of the solution.

"Users can get started with a fully operational Ava Aware Cloud video security system in just ten minutes. They can simply plug in the cameras, scan the QR code, or add cameras in a batch and go. There's no need for on-premises infrastructure and IT reliance. Once added to the Cloud, all upgrades and performance optimisations are managed automatically."

The Ava cloud cameras, dome and 360 degree, perform analytics directly on the camera. They have access to high-quality video data without any bandwidth constraints. This means the cameras detect the people and vehicles' presence and trigger alarms without needing to send video to any external device.

"Cyber security is Ava's backbone and baked into the design of our Ava Cloud Cameras and Aware Cloud management solution. Each camera is provisioned with unique keys and certificates during manufacturing. Say goodbye to open ports in firewalls. With Ava, all the connections are made outbound from the camera," concludes Andrés Portillo. swm



Ava Aware Cloud provides full situational awareness and business intelligence, according to Andres Portillo at Ava Security.

Optex unveils new Redscan Pro Lidar series

Maidenhead, Berkshire (UK)

Optex is rolling out the launch of its new Redscan Pro laser detection sensor, featuring its longest range yet, making it an effective solution for the highest security sites.

The latest evolution in its Redscan Lidar series, *Redscan Pro* offers accurate intruder detection to a range of 50m x 100m, without any 'gaps' or the detection reliability 'fading' with range. By creating rectangular as opposed to circular (fan-shaped) detection patterns, there are no unnecessary overlaps, providing great coverage for virtual wall applications such as façade and fence protection, and for virtual planes to cover open areas, ceilings and roofs.

Intelligent multiple zones logic

To meet the individual needs of every site, Redscan Pro features intelligent multiple zones logic. This means that for each detection zone, the sensitivity, target size and output can be configured independently, allowing the zone's risk and location to be adapted and provide maximum capture rate with minimum nuisance alarms.

The sensor's camera module brings visual assistance for configuration and post-alarm analysis. When an alarm is created, a file is saved with alarm log and video image. It helps security teams reviewing the alarms and checks if any action needs to be taken or if the settings need to be adjusted.

For each detection zone, the sensitivity, target size and output can be configured independently.

Ideal for high security sites

"For a decade we've been gathering feedback from our customers on what applications they want to use our Lidar for. Featuring our longest detection range yet without any deterioration on performance, in combination with the ability to operate in harsh outdoor environments and to customise precisely the detection area and target size, our new Redscan Pro series is the ideal solution for major infrastructure, critical facilities, high-end residential properties and other high security sites, states Mac Kokobo, Officer & Senior General Manager at Optex.

"With enhanced configuration flexibility and functionality, Redscan Pro allows you to do more with less, one device that can deliver and achieve what used to be done by multiple devices."

Onvif compliant

Redscan Pro features a sleek, new design, with flexible mounting option (+5 to -95-degree tilt), simple set up and easy to use web configuration. The sensors are also Onvif Profile S compliant.

The Redscan Pro series includes two models – the RLS-3060V with a range up to 30 x 60m and the RLS-50100V up to 50 x 100m. Both models are due to become available from April 2021. swm

Privacy designed in from the ground up

Montreal, Canada

Combining powerful tools and responsible practices, Genetec solutions support privacy and security simultaneously to build public trust and support compliance with privacy laws.

"Organisations should never have to choose between protecting the privacy of individuals and their physical security," states *Pierre Racz*, President of **Genetec Inc**. Putting these principles into practice, Genetec offers necessary tools for security professionals to responsibly gather and manage data, particularly video, while supporting compliance with privacy laws around the world.

Available on-demand for the Genetec Security Center unified platform, the Kiwivision Privacy Protector automatically obscures individuals' faces caught within a camera's field of view, so security operators only see what they need to see. Being able to access unobscured footage requires an additional layer of access permissions that is only used when an event warrants an investigation. An audit trail is then maintained that shows who accessed the additional information, and why.

Just as protecting the anonymity of people captured on video security footage is an essential step in protecting their privacy, the ability to securely share information during investigations is also fundamental in protecting data integrity and individuals' privacy.

Genetec Clearance

The Genetec Clearance digital evidence management system allows law enforcement organisations to gather and share reliable evidence that protects everyone's privacy. With built-in video redaction and secure user management, the identity of victims, bystanders, witnesses and police officers remains protected at all times.

Genetec Clearance helps end users define who has access to sensitive data and footage without slowing down investigations and incident response. This way, end-users have control over this data so that they can adjust protection methods and processes to comply privacy legislations around the world such as the European General Data Protection Regulation (GDPR), the California Consumer Privacy Act (CCPA), Canada's Personal Information Protection and Electronic Documents Act (PIPEDA) and Brazil's General Protection Data Law (LGPD).

Available on-demand for the Genetec Security Center unified platform, the Kiwivision Privacy Protector automatically obscures individuals' faces caught within a camera's field of view.

"As a society, the invasion of privacy buys us very little and costs us very much," says Racz. "At Genetec we do our job by making tools that society needs, but most importantly, we make these tools to conform with the social contract of the societies in which we operate." swm

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

Perimeter security now and beyond Covid-19

"Covid-19 has not had much impact on the need to protect people and property, but it has changed our perspective on security infrastructures", claims Andries Nouwens, Director Sales EMEA, Business Unit Video Systems and Solutions, at Bosch Security Systems.

"The corona pandemic accelerates the need for data-driven solutions", he says.

By Henrik Söderlund

According to a new market report from Marketsandmarkets, the perimeter security market is projected to grow from 61.3 billion US dollars in 2020 to 96.5 billion by 2026 – at a CAGR of 7.9 per cent. Asia Pacific (APAC) is expected to record the highest CAGR in the global perimeter security market during the forecast period. The rise in perimeter intrusions, theft incidences, burglary, cross-border terrorism, and illegal immigration are expected to drive the market growth.

The report concludes that due to the pandemic, the dependency on homeland security and law enforcement agencies has increased significantly and critical infrastructure security, emergency services, and others are "leveraging the perimeter security solutions to provide necessary services to consumers".

> ***We have seen an uptrend and an uptake in external security sensors – people want to secure their premises."***
>
> Mark Cosgrave.

Empty premises

Even though many people work from home right now, it is obvious that perimeter security remains important and not least for critical infrastructure, airports, data centres and other high-end applications.

Mark Cosgrave, Division Manager for Western Europe at Optex, also highlights that there are more premises being left void because of the pandemic. Perimeter security and security as a whole has therefore been a concern for many people during the pandemic. Being able to remotely access and review what is happening on-site is very important.

"We have seen an uptrend and an uptake in external security sensors – people want to secure their premises – so in that way it has been positive for us," he says.

New functionality

Andries Nouwens believes it has become clear that security operators, end users and other stakeholders are looking to save costs by potentially leveraging new functionality from their existing security infrastructure beyond the realm of the security space. There can be actionable insights that enhance security and help to safeguard public health.

"For example, now we would also like to receive live data about how many people have already entered a certain area to avoid overcrowding and enabling safe social distancing. Or the ability to accurately identify people with elevated skin temperature at checkpoints in office buildings, manufacturing plants, and airports.

Photo: Pixabay

It is obvious that perimeter security remains important and not least for critical infrastructure, airports, data centres and other high-end applications.

As a consequence, he argues video security solutions need to be able to make effective use of artificial intelligence like video analytics to help security operators detect relevant events and objects, while keeping false alarm rates low.

A broad market

Mark Cosgrave stresses that when it comes to perimeter security, the market is very broad in terms of verticals. There has been a transition towards more e-commerce in the whole world, which increases the importance for warehouses and their perimeters to be secure. Another vertical that has been benefiting from the accelerated digitalisation is data centres – the amount of data is growing steadily and so too do cloud services.

Mark Cosgrave says: "We have been working with data centres quite a lot, and many things have been transferred to online. So, the demand for broadband is significantly increased. We also find ourselves working more with telecommunication companies, they are investing in their security in substations, as they have in the past but there is more interest and demand for that type of security system."

Marketsandmarkets points out that the technological advancements with next-generation sensors, integrated fibre-optic Perimeter Intrusion Detection System (PIDS), thermal cameras, and video analytics, are experiencing high growth.

A combination of sensors

Perimeter security is often described as layer on layer, much like an onion. And different layers may require different technical solutions and the need for multi-layered perimeter protection has increased. There is no one solution that fits all applications. Often, perimeter security must combine qualitative sensors that provide reliable information and a video surveillance system then can verify/confirm what is happening. Thermal imaging and video analytics also complement each other well and effectively address the potential needs.

Marketsandmarkets stresses that technologies such as next-generation fence-mounted sensors, infrared sensors, integrated fibre-optic perimeter intrusion detection systems, and perimeter fence detection systems, combined with CCTV, offer huge growth opportunities for the perimeter security market.

Perimeter security: current and future trends

Some of the future trends in perimeter security will be more advanced video analytics, drone detection solutions and more collaboration between technologies.

"A lot of emphasis is being placed upon cameras and utilising sensing technologies – developments in combination sensors are going to be key", says Mark Cosgrave, Division Manager for Western Europe at Optex.

By Henrik Söderlund

Mark Cosgrave, Division Manager for Western Europe at Optex.

Andries Nouwens, Director Sales EMEA, Business Unit Video Systems and Solutions, at Bosch Security Systems.

According to Marketsandmarkets, traditional perimeter security platforms have increasingly been replaced by more advanced perimeter security platforms using artificial intelligence, machine learning and facial recognition. Video analytics solutions combined with facial recognition, object tracking and license plate recognition have become critical for national border and facility protection. Integrating these technologies can sometimes be a challenge but will also increase the perimeter security. For example, if the access control and intrusion alarm systems are linked, the access control system can be programmed to lock down a facility based on the type of alarm that sounds once the system determines an intruder.

Improved video analytics

Andries Nouwens stresses that video analytics enables cameras to understand what they are seeing and create an alert if there are threats the moment they happen. He says: "It also makes it possible to retrieve the right footage from hours of stored video instantly and analyse the scene by providing different statistics so an operator can act faster and more efficiently to potential threats."

Andries Nouwens also points out that video analytics solutions today have the ability to perform video content analysis over large distances and are able to differentiate between genuine security events and false triggers such as snow, trees moving in the wind, rain, hail and water reflections that can make video data more difficult to interpret.

He exemplifies with Camera Trainer, a machine learning technology from Bosch: "The camera retains information on new user-defined objects and situations, or any subsequent changes. It then refers to this new knowledge when processing scenes and can combine it with pre-determined alarm rules and object filters for even more accuracy and flexibility" he says.

Cameras can be taught to recognise and detect stationary objects or certain situations instead of being triggered by motion alone.

"With this, video metadata is further enriched since the technology can deliver data when objects are present, but also once they have been removed, therefore providing more informative data", he says.

Mark Cosgrave also believes video analytics strengthened by machine learning has become more suitable for perimeter security: "It has gone through evolution, there are improvements in reliability and performance", he says.

Mark Cosgrave thinks video analytics will continue to grow and Optex has now moved into what the company calls sensor driven verification.

"There is no one solution, when we walk and move around in our environment, we are using not just our sight, we are also using our balance, our taste, our hearing and speech. It is necessary to deliver high reliability and that comes with an input of sensors. It can be camera sensors, thermal sensors, laser or radar. You need those sensor inputs to deliver a high-quality reliable solution", he says.

Drone detection

Both Andries Nouwens and Mark Cosgrave mention drone detection as an upcoming trend within perimeter security. They can minimise costs of disruptions.

"Drones are a big problem for a lot of people at high end utilities, prisons and airports", says Mark Cosgrave.

Andries Nouwens highlights that it is possible to seamlessly track persons and objects across multiple cameras visualised on a geographical map. For example, with the Genetec Restricted Security Area Solution, cameras featuring built-in AI, can generate information on an object's location, speed and trajectory. Moving targets will be classified as a person, car, or truck and intuitively displayed on a map so users can assess and respond to threats in less time.

"A moving camera can be triggered at the same time and steer towards the moving object and follow the person with intelligent tracking. Users can follow the object over multiple cameras in real time. When the object moves to other cameras, the RSA solution does an automatic handover and shows the video footage of the next camera," Andries Nouwens says.

Future prospects

Mark Cosgrave states that people increasingly have started to take their outside security need more seriously. He says: "It makes sense to have security outside because you are able to hopefully prevent somebody getting into the premises. If you have external sensors, you have that ability to be able to get early warnings", he says.

Andries Nouwens thinks artificial intelligence, like video analytics, will gain importance to further improve security and uncover business opportunity beyond.

He says: "This follows the overall trend of moving towards data-driven solutions. Future solutions will increasingly possess learning capabilities to more easily cater to specific customer requirements or changing situations."

> ***"Future solutions will increasingly possess learning capabilities to more easily cater to specific customer requirements or changing situations."*** Andries Nouwens.

Securing an airport's perimeter – a complex task demanding a multi-tech solution

To secure an airport´s perimeter is a very important and certainly a complex task. There are so many considerations to take into account.

Genetec has supplied several airports with technological solutions for perimeter protection, both for indoor and outdoor areas.

Running an airport is a complex logistical challenge and the precision required to get passengers, staff and aircraft in the right place at the right time is an astounding feat of organisation.

"This means that seemingly innocuous incidents can tip the balance and have damaging knock-on effects to these finely tuned machines," states Simon Barnes, Business Development Manager – Airports EMEA, at Genetec.

by having effective security procedures, whilst ensuring security checks are as unobtrusive as possible – to keep customers happy and flights on their meticulously planned schedules. However, the evolution of threats, coupled with the intrinsic complexities of airport management means that administrators have a difficult task in maintaining security. Particularly as large international airports can play host to over 100,000 travellers a day, combined with their expansive networks of car parks, duty-free shops and runways lying within perimeters that can be 20–30 km long. This goes some way to illustrating just how large and diverse these security environments can be.

"My conversations with airport security personnel usually revolve around two main concerns", explains Simon Barnes.

"How do we improve perimeter protection?" And how do we address the insider threat?"

"Though the investigation has now been closed by police, many theorise that the events of Christmas 2018 at Gatwick were carried out by a former or current employee, making the incident a convergence of these two issues,"adds Simon Barnes.

> ***"With drones seemingly becoming a permanent fixture, the value of having a clear strategy and defence in place to avoid disruption and financial loss cannot be underestimated."***

The threat from drones

Perhaps the most publicised threat this year has been the growing hazard of drones. For example, in the wake of drone-related chaos during Christmas 2018, there's been a slew of other incidents at major airports like Heathrow, Dublin and Gatwick (again)ever since. In response, the Police have even set up a new mobile counter drone unit to protect against the growing issue.

"These incidents highlight the need for strong security practices to ensure disruptions are kept to minimum and, where possible, avoided completely," says Simon Barnes.

Complex environment

To support this aim, airports need to promote operational resilience

Incident cost – 50 million pounds

Over that fabled three-day period, more than 1,000 flights and 120,000 passengers were affected. Gatwick's losses were originally reported to be around 20 million pounds, although it's since been made clear it was closer to just 1.4 million – not including the 4 million pounds consequently spent on anti-drone measures. However, it was the airport's associated businesses like retailers, hotels and taxis that took the brunt of the losses and reportedly cost the airlines a staggering 50 million pounds.

Drone protection of highest priority

Luckily, the damage was largely financial as the individual or individuals operating the drone seemed intent on causing disruption, rather than harm. Prior to the events of that December at Gatwick, drones had only entered the airport security conversation as a theoretical hazard – an accident waiting to happen as a result of negligent drone operators. Gatwick served as a wake-up call to the industry, and wasn't an isolated incident either. In the subsequent weeks and months, we've seen near-misses or proximity alerts at major international airports with varying degrees of disruption. If airport security teams don't take effective precautions against drones in the future, they could risk irreparably damaging their organisation's reputation – and potentially put their passengers and staff in harm's way.

Mapping of airport perimeter breaches

Of course, drones aren't the only cause of airport perimeter breaches. In 2015, the Associated Press investigated perimeter breaches at 31 of the US's busiest airports. The investigation covered the years from January 2004 to January 2015 and found 268 instances of people breaching the airport perimeters. While it is important to note that none of these breaches involved terrorist activity, any type of breach can be extremely problematic and cause cancellations and delays - costing airports and airlines substantial amounts of money. But what can airports do to mitigate the impact or prevent these events from occurring in the future?

Preventing accidental intrusions

Of course, preventing accidental intrusions from occurring is just one part of airside security. "Introducing new rules and regulations can help police drone operators and act as an effective deterrent. For instance, UK drone operators of certain models had until the end of November 2019 to register with the Civil Aviation Authority," suggests Simon Barnes.

Furthermore, many airports have established no fly zones around their perimeters. However, as the AP investigation revealed, a fence is by no means a fool-proof way of restricting access and while new rules may lower the chance of accidents happening, an individual that is truly intent on breaking them will do so – unless appropriate tech is deployed as a counter measure.

> ***"Introducing new rules and regulations can help police drone operators and act as an effective deterrent."***

Large international airports can play host to over 100,000 travellers a day, combined with their expansive networks of car parks, duty-free shops and runways lying within perimeters that can be 20–30 km long.

Multi-tech solution – the way to go

"An intrusion detection system that can alert personnel if or when someone crosses the perimeter and, most importantly, where the intruder is at any given time, is a vital tool for security teams," states Simon Barnes and adds.

"To be an effective countermeasure, security teams need to deploy a multi-tech solution that combines radar, laser and video analytics, to provide accurate data when tracking a breach. These systems geo-locate intruders or drones using collected data to help continuously track their live-location once they have crossed the perimeter or entered a restricted airspace".

Solving false alarm problems

Simon Barnes stresses also that these systems also can help address the challenges of false positive alarms.

"By correlating data, they can act as a filter to help ensure that only confirmed intruders have breached the perimeter. Without this type of technology, security operators can become overwhelmed with false positive alarms, causing them to ignore alerts or turn off sensors. This, of course, defeats the purpose of having perimeter protection and runs the risk of leaving the airport vulnerable to incident or attack," he says.

Track intruders

And, finally, when a breach does occur, systems need to be able to continually track intruders and provide operators with the up to date information they require to manage and coordinate the response.

"Auto-tracking that follows and displays intruders within the airfield can provide the intelligence necessary to ensure that the correct procedures are followed and the right teams are sent out to investigate. After all, when security personnel can respond to an intrusion quickly and knowledgably, they are better placed to minimise potential threats, reduce risks, keep aircraft moving on time and most importantly passengers and their staff safe," comments Simon Barnes.

> ***By correlating data, they can act as a filter to help ensure that only confirmed intruders have breached the perimeter."***

Centralised surveillance centres

By having a centralised surveillance centre, with live-feed mission-critical information from the entire airport to a central control room, airport workers can save valuable time in locating where an event is taking place. Such systems will also be able to track intruders and monitor situations as they unfold, enabling control room operators to provide ground-staff with the information they need to manage and coordinate their response in the best possible way.

Threats from drones demands a strategy

PwC estimates that by 2030, they'll be 76,000 commercial drones operating within UK airspace, so this isn't a problem that is likely to dissipate any time soon. Only when security personnel are appropriately equipped with the right technology will they have an effective counter measure to deal with the threat. Allowing them to be able to respond quickly and effectively, means they will be able to minimise potential threats, reduce risks, and keep the airport moving seamlessly.

Simon Barnes, Business Development Manager – Airports EMEA, at Genetec.

"With drones seemingly becoming a permanent fixture, the value of having a clear strategy and defence in place to avoid disruption and financial loss cannot be underestimated" concludes Genetec's Development Manager – Airports EMEA.

Optex:

Intelligent detection sets a new standard for perimeter security

To cope with the most challenging outdoor environments and provide effective detection while not generating unnecessary alarm events – that is crucial for a perimeter security system. Through the launch of the new Redscan Pro Lidar sensor, Optex has made an extraordinary contribution to respond to the market´s needs of effective and reliable perimeter intrusion systems.

Perimeter protection remains as the first line of defence against intrusion and is a critical element of any security system specified and installed.

Perimeter protection remains the first line of defence against intrusion and is a critical element of any security system specified and installed. The customer's expectation is that technologies deployed can cope with the most challenging outdoor environments and provide a high level of detection while not overwhelming security operators with unnecessary alarm events prompted by poor weather.

Intelligent technology

It means perimeter security systems must be able to filter noises through analytics and apply a certain logic to qualify the importance of the event. In the case of the Optex portfolio, we are referring to sensing analytics, eliminating signals generated by environmental changes, analysing the detection signal to categorise activities.

"Our fibre optic fence intrusion sensors, for example, have calibration parameters to tune out vibrations generated by the wind, passing traffic or a small animal, and algorithms to recognise the detection pattern related to a person cutting through the fence, or attempting to climb under or over it," states Mark Cosgrave, Divisional Manager, Western Europe at Optex.

Exact position detection

Perimeters can be several kilometres long and for an effective response, it is crucial to be able to quickly and accurately locate the point where a breach has occurred. This can be achieved by creating detection zones or even via exact point location. Zones are typically set to match the fixed camera field of view for video surveillance.

"With our fibre optics systems we can offer up to 25 zones with just one alarm processing unit, while our Lidar technology provides up to eight zones within 100m detection. When integrating our Lidar's X and Y coordinates, the security system can 'see' the exact location of the intruders. Point location within 5 metres on fibre is also something that is becoming available within our product portfolio," says Mark Cosgrave.

Flexibility in settings

Another important consideration in choosing a perimeter protection system is to specify one that can be 'always on' while accommodating day-to-day site operations during or after working hours. It's where being able to have different settings within each individual detection zone, or different profiles for different parts of the day, becomes a huge benefit to the end users.

> ***"When integrating our Lidar's X and Y coordinates, the security system can 'see' the exact location of the intruders."***

Mark Cosgrave, Divisional Manager, Western Europe at Optex.

" It is something we have achieved with our new Redscan Pro Lidar, allowing the object size, sensitivity and alarm output to be independently set for each detection zone and give the customers the versatility they need," states Mark Cosgrave as he finally also emphasises the importance, ensuring that the communication protocols used are secure and that the devices are constantly monitored through a "heartbeat" .

"Yes, that is essential too." he concludes.

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Raytec:

The importance of lighting in perimeter security applications

Raytec is the world leader in LED lighting for safety and security, and the company behind the Vario2 range of award winning LED illuminators, designed to enhance the performance of any security system. In this article their experts point out different aspects of importance when it comes to using illuminators in perimeter security applications.

Infrared (IR) illumination is the most common type of light used around a perimeter fence line. IR omits zero light pollution, but crucially, it allows the camera to capture night-time images covertly, without alerting potential intruders or giving them light to work by.

Once the camera has detected an intruder, the site may choose to raise an alarm. This is where white-light is often deployed; automatically triggered as a flashing deterrent to ward off an intruder, or used to provide accurate positive identification of the intruder. Only using white-light when it's needed ensures light pollution is kept to a minimum while still providing optimum levels of security.

In some instances, white-light may still be chosen to illuminate the entire perimeter, but due to light pollution, and the fact that the camera is more receptive to IR, means white-light is often preferred as a deterrent.

Hybrid illuminators

Another option which specifiers should consider is the use of hybrid illuminators. Hybrid illuminators provide an all-in-one solution, combining both IR and white-light into a single unit. This means one illuminator can be used for both covert surveillance, and as a white-light deterrent.

Hybrid allows the user to control the wavelength and switch seamlessly between IR and white-light.

Quality and Distance

Perimeter fence lines often cover large areas, so distance and coverage of an illuminator is one of the main things for a specifier to consider. It is also equally important to consider how the illuminator will assist the camera in obtaining the highest quality images.

> ***"Using video analytics is an effective way to determine if unwanted or suspicious behaviour is occurring in a camera's field of view."***

Illuminators able to deliver longer distances may allow cost savings by reducing the total number of illuminators across the site. It may also reduce costs in terms of the numbers of cameras, lighting columns, cabling and other ancillary equipment needed as part of the installation.

Hot Spot Reduction

Using illuminators which reduces hot spots and provides an even image across the entire scene is also a way to ensure high image quality. Raytec's Vario2 range uses hot-spot reduction technology (HRT) to deliver a highly diffused, elliptical beam shape which targets the light where it's needed. This supports longer distances, minimises light wastage, and ensures even distribution of light throughout the scene. The HRT system also prevents over-exposure of foreground objects; light uniformity is crucial in ensuring hot spots are minimised.

Hardware Integration

Modern perimeter surveillance systems often consist of several IP enabled devices, intended to work together to provide high levels of security. Typically, these include, IP cameras, passive infrared sensors (PIR), laser detectors and fibre optic fence sensors.

For applications using these kinds of devices, specifying an IP enabled illuminator capable of providing an automated lighting response, is essential. For example, if a PIR sensor detects movement from an intruder, an alarm could be raised to automatically turn on the white-light (so the intruder can be positively identified) or put the lamps into deterrent mode (to ward off the intruder).

Camera Analytics

Using video analytics is an effective way to determine if unwanted or suspicious behaviour is occurring in a camera's field of view. However, camera analytics are only as effective as their ability to provide a consistent, clear image. This is where lighting plays an important role. Using analytics requires often increased light levels compared to standard applications. Darkness will seriously affect the performance of the used video analytics and create false alarms.

Software Integration

In terms of specifying an illuminator, it's important to choose one which can be integrated with the security management platform in use by the site. For example, if a site is using Milestone's Xprotect platform, the chosen illuminator should be cable of being integrated into that system, so it can be controlled easily and lighting responses set-up to be triggered by other detection devices.

> ***"Hybrid illuminators provide an all-in-one solution, combining both IR and white-light into a single unit."***

As an example of a 2-in-1 solution, Raytec's Vario2 Hybrid offer the same power and distance as two dedicated illuminators.

Other Considerations

For any surveillance project, choosing a luminaire that is easy to specify and install will save time and money during the initial phases of a project through to commissioning.

The use of interchangeable lenses, where beam angles can be altered on-site, is ideal for perimeter applications. It means one product can be used for several different areas and provides installers with greater levels of flexibility. It is particularly useful when illuminating the corners of a perimeter fence, where wider beam angles are generally required.

For example Vario2's interchangeable lens system (ILS) allows the angle of illumination to be quickly and precisely adjusted from 10 to 120 degrees to match the camera's field of view.

Undertaking a lighting design helps to ensure the correct light levels are achieved across the site, and is essential for cameras to be able to capture high quality images. This provides specifiers with peace of mind and no surprises at the point of commissioning.

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Hikvision's Radar PTZ solution – takes perimeter security to the next level

Radar gives organisations the big picture for their perimeter protection operations, and cameras help to identify intruders and collect evidence of security breaches. To take perimeter protection to the next level, Hikvision has created the Radar PTZ solution, which integrates video and radar for multi-dimensional perception of security threats.

When it comes to protecting a site's perimeter boundaries, video and radar are extremely powerful technologies. With radar, organisations can identify people or vehicles that enter a site, and follow their movements accurately. As for video, it allows teams to rapidly identify potential security threats, see exactly what is happening, and respond faster to protect people and assets.

Multi-dimensional perception

The challenge for organisations is how to combine these technologies to achieve 'multi-dimensional perception' for perimeter protection. Traditionally, this requires manual integration and configuration of camera and radar sensors, which can be prohibitively time consuming, complex, and costly – as well as requiring specialist skills sets.

Industry's first 'all-in-one' radar and video solution

To help organisations harness the power of multi-dimensional perception in their perimeter-protection solutions, Hikvision has created the industry's first all-in-one Radar PTZ solution. This combines a Hikvision radar sensor with a latest generation Hikvision PTZ camera and deep learning capabilities to support a step-change in perimeter security.

By offering multi-dimensional perception with integrated radar and video sensors in the same unit, the Hikvision solution is helping all kinds of organisations to enhance their perimeter security, from industrial sites and construction sites, to automotive dealerships, universities, mines, and a wide range of other sites and facilities.

How it works

This is how multi-dimensional perception of potential security threats work:.When the built-in radar sensor detects a moving object, an alert is sent to the PTZ camera. This then zooms in and focuses on the object if it is a human or vehicle of interest, with the help of deep learning video analytics. An alert is also sent to the security team automatically, enabling a faster and more effective response in the event of a security breach.

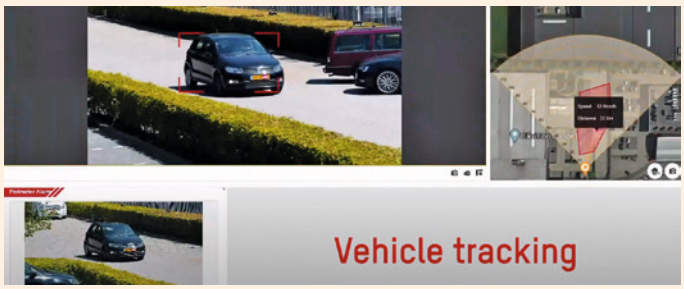
When used in tandem with a Hikvision DeepinMind NVR, the solution can enable quick video searches to save time for the security team. Multiple targets can be followed as they move around the site, helping to protect people and assets.

The unique benefits

Hikvision's all-in-one solution for multi-dimensional perception at the perimeter provides a number of key benefits compared to manually integrated alternatives. These include:

• Fast, automated detection of perimeter intrusion risks
The solution uses a feature called 'automated video double verification' to help teams identify perimeter intrusion risks quickly and effectively. This uses information from the radar to trigger the video camera, which determines if a person or vehicle is a security threat or not. Alarms are also sent to the security team automatically, helping them to respond to incidents faster and more effectively.

Hikvision has created the industry's first all-in-one Radar PTZ solution for multi-dimensional perception at the perimeter."



• Multi-dimensional perimeter protection
The radar sensor offers a coverage area of 100+ metres and allows security teams to identify multiple potential security threats. The solution also follows the movements of multiple people or vehicles around the site to maximize security and provide evidence in the event of a security breach.

• Easy identification of security risks with Hikvision smart technology
The solution incorporates new technology for identifying people and vehicles of interest. This intelligent perception, combined with very high-quality imaging, allows security teams to identify targets of interest and respond to potential security threats faster.

• Fast, cost-effective deployment
With the Hikvision solution, deployment is fast and easy, with no need to integrate and configure separate radar and video infrastructure. Configuration requirements are also minimal, and can be carried out quickly and easily via a simple, intuitive portal.

Together, these benefits add up to provide greatly enhanced perimeter protection for organisations of all types and sizes.

THE HIKVISION RADAR PTZ SOLUTION AT GLANCE

- Radar detection distance of 100m (human targets), 120m (vehicle targets).
- Hikvision camera sensor (4MP @ 60fps), with Hikvision 40x optical zoom.
- DarkFighter and 140db WDR for crystal-clear imaging in low-light and strong light conditions.
- Horizontal angle detection of 90 degrees.
- Detection for up-to 32 targets with multi-target switch tracking.
- Video double verification of people and vehicles based on deep learning algorithms.

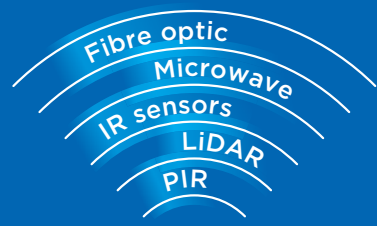
OPTEX
Sensing Innovation

DON'T WASTE TIME ON EMPTY THREATS

Get the power of sensor-led visual verification

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

For more information visit www.optex-europe.com



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VEHICLE DETECTION | PEOPLE & VEHICLE COUNTING
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The security exhibition scene 2021:

July could be superhot – or ice cold!

Since March 2020, in principle, all physical security events have been postponed. With the ongoing vaccinations, there are hopes that some of them will actually happen already this summer. Most excitement is around the international events Ifsec in London and the ISC West in Las Vegas, if they both take place as planned, then July will be a superhot month for security exhibitions. Secutech in Taipei is also scheduled for July, and may be well worth visiting in a year like this.

But of course – once again – the pandemic situation will remain the crucial factor in terms of whether any of these events will take place or not.

The event guide

June

1–3 June
Securex South Africa – Johannesburg, South Africa
Venue: Gallagher Convention Centre
Organiser: Montgomery Group
Tel: +27 10 003 3082
Email: zeldaj@specialised.com
Website: www.securex.co.za/

8–10 June
INTERPOLITEX – Stavropol, Russia
Venue: MinvodyEXPO
Organiser: BIZON
Tel: +7 920 402 74 86
Email: yasakov25@gmail.com
Website: www.interpolitex.ru/en/

8–10 June
World Border Security Congress – Athens, Greece
Venue: DIVANI CARAVEL HOTEL
Organiser: Torch Marketing Co Ltd
Tel: +44 (0) 7786 270 820
Email: paulg@torchmarketing.co.uk
Website: www.world-border-congress.com

July

7–9 July
Secutech – Taipei, Taiwan
Venue: Taipei Nangang Exhibition Center
Organiser: Messe Frankfurt
Tel: +886 2 8729 1099
Email: services@secutech.com
Website: secutech.tw.messefrankfurt.com/taipei/en.html

12–14 July
Ifsec – London, United Kingdom
Venue: ExCel London
Organiser: UBM
Tel: +44 (0)20 7921 8166
Email: ifseccustomerservice@ubm.com
Website: www.ifsec.events/international/

19–21 July
ISC West 2020 – Las Vegas, United States
Venue: Sands Expo
Organiser: Reed Exhibitions
Tel: +1 203.840.5602
Email: inquiry@isc.reedexpo.com
Website: www.iscwest.com

August

25–28 August
Secutech Vietnam – Hanoi, Viet Nam
Venue: Friendship Cultural Palace (International Center for Exhibition I.C.E)
Organiser: Messe Frankurt New Era Business Media (MFNE)
Tel: +886 2 8729 1099
Email: stvn@taiwan.messefrankfurt.com
Website: www.secutechvietnam.com

September

7–9 September
The Security Event – Birmingham, United Kingdom
Venue: Venue: NEC Birmingham
Organiser: Nineteen Group
Tel: +44(0)203 790 7370
Email: tristan@thesecurityevent.co.uk
Website: www.thesecurityevent.co.uk

14 September
securex Pozna – Pozna, Poland
Venue: Poznan International Fair
Organiser: Poznan International Fair Ltd.
Tel: +48 (0)61 8692000
Email: karolina.greiner@grupamtp.pl
Website: www.securex.pl/en

14–16 September
Forensics Europe Expo – London, United Kingdom
Venue: ExCel
Organiser: Clarion Events
Email: rob.lozowski@clarionevents.com
Website: www.forensicseuropeexpo.com/

14–16 September
Counter Terror Expo – London, United Kingdom
Venue: ExCel
Organiser: Clarion Events
Email: david.townsend@clarionevents.com
Website: www.ctexpo.co.uk

14–16 September
Defence & Security Equipment, International – London, United Kingdom
Venue: ExCel
Organiser: Clarion Events
Email: enquiries@dsei.co.uk
Website: www.DSEI.co.uk

16–18 September
Secutech India – Mumbai, India
Venue: Bombay Exhibition Center
Organiser: Messe Frankfurt
Tel: +91-22- 61038418
Website: www.secutechindia.co.in

19–21 September
Intersec Saudi Arabia – Riyadh, Saudi Arabia
Venue: Riyadh International Convention & Exhibition Centre
Organiser: Messefrankfurt
Tel: +971 4 389 4633
Email: ali.ayoub@uae.messefrankfurt.com
Website: www.intersec-ksa.com

28–30 September
Expoprotection Security – Paris, France
Venue: Venue: Paris, Porte de Versailles, Pavilion 5
Organiser: Reed Expositions
Tel: +33 (0)1 47 56 21 21
Email: epsecuriteandyou@reedexpo.fr
Website: www.expoprotection-securite.com/en-gb.html

28–29 September
International Security Expo– London, United Kingdom
Venue: Grand & National Halls
Organiser: Nineteen Group
Tel: +44 (0)20 8947 9177
Email: info@internationalsecurity-expo.com
Website: www.internationalsecurity-expo.com

October

5–7 October
Securexpo East Africa – Nairobi, Kenya
Venue: Sarit Centre
Organiser: Montgomery Events East Africa Ltd
Website: https://www.securexpoeastafrica.com

14–17 October
ISAF 2021 – Istanbul, Turkey
Venue: Istanbul Fuar Merkezi
Organiser: Marmara Fair Organization
Tel: +90 212 503 32 32
Email: marmara@marmarafuar.com.tr
Website: www.isaffuari.com/

19–22 October
INTERPOLITEX-2021 – Moscow, Russia
Venue: VDNH (Pavilion 75),
Organiser: BIZON
Tel: +7 920 402 74 86
Email: yasakov25@gmail.com
Website: www.interpolitex.ru/en

27–28 October
Sectech Sweden – Stockholm, Sweden
Venue: Stockholmsmässan
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.sectech.nu

November

1–4 November
Defense & Security 2021 – Bangkok, Thailand
Venue: IMPACT Exhibition Center
Organiser: GML Exhibition (Thailand) Co., Ltd.
Tel: +66 (0) 2036 0500
Website: www.asiandefense.com

17–19 November
Sicurezza – Milano, Italy
Venue: fieramilano
Organiser: Fiera Milano S.p.A
Tel: Paolo Pizzocaro
Email: paolo.pizzocaro@fieramilano.it
Website: www.sicurezza.it/

24–26 November
Secutech Thailand – Bangkok, Thailand
Venue: Bangkok International Trade & Exhibition Center (BITEC), Bangkok
Organiser: Messe Frankurt New Era Business Media (MFNE)
Tel: +886 2 8729 1099 ext 531
Email: Israel.gogol@newera.messe-frankfurt.com
Website: www.secutechthailand.com

December

1–2 December
Sectech Denmark – Copenhagen, Denmark
Venue: Bella Center
Organiser: AR Media International AB
Tel: +46 8 556 306 80
Email: deniz.baykal@armedia.se
Website: www.sectech.nu

Don’t miss out!

27-28 October, 2021
Stockholmsmässan/Stockholm

1–2 December 2021
Bella Center, Copenhagen

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www.sectech.nu

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2 MP @ 30 fps | **40** W | **20** Ah lithium | **4** G | Beaufort scale **12** | **IP67**

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- Smart power management and battery protection
- Wind-resistant and waterproof design
- Easy installation with a net weight of 14 kg

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T +86-571-8807-5998
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