

SECURITY Update

CREATING BUSINESS OPPORTUNITIES

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Channel
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For Manufacturers, Distributors, Dealers,
System Integrators & Installers of Security,
Fire & Safety Systems.

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Caution: Even your home security camera can be hacked



Installing an internet-connected security camera in your house won't necessarily bring a wave of hackers to your Wi-Fi network -- but losing privacy resulting from a device's security shortcomings is surprisingly common.

Whether you're using professionally monitored security systems such as ADT, Comcast Xfinity or Vivint, or you just have a few stand-alone cameras from off-the-shelf companies like Ring, Nest or Arlo, here are a few practices that can help protect your device security and data privacy.

Is my home security system vulnerable to hacking?

Before jumping into solving the problems of device insecurity, it's helpful to understand how vulnerable your devices really are. Major professionally monitored security systems -- and even individually sold cameras from reputable developers like Google Nest and Wyze -- include high-end encryption (which scrambles messages within a system and grants access through keys) almost across the board. That means as long as you stay current with app and device updates, you should have little to fear

of being hacked via software or firmware vulnerabilities.

Likewise, many security companies that use professional installers and technicians have strict procedures in place to avoid precisely what happened at ADT. "The security industry has been paying attention to [the issue of privacy in the home] since 2010," said Kathleen Carroll, chair of the SIA's Data Privacy Advisory Board, "and we continue to work to help our member companies protect their customers."

Some professionally monitored systems, such as Comcast and now ADT, address the problem by simply strictly limiting the actions technicians can take while assisting customers -- for instance disallowing them from adding email addresses to accounts or accessing any recorded clips.

"We have a team at Comcast dedicated specifically to camera security," a Comcast spokesperson said. "Our technicians and installers have no access to our customers' video feeds or recorded video, which can only be accessed by a small group of engineers, under monitored conditions,

for issues like technical troubleshooting."

"Only customers can decide who is allowed to access their Vivint system, including their video feeds," a spokesperson for home security company Vivint said. "As admin users, they can add, remove or edit user settings. And ... we regularly conduct a variety of automated and manual audits of our systems."

With DIY systems, customers set up their own devices, making technician access a moot point. But if customers opt into additional monitoring, which is often offered alongside individual products, that may complicate the issue.

One such company, Frontpoint, said in an email that it tightly constrains personnel access to customer information, disallowing, for instance, agents from watching customer camera feeds -- except in particular, time-boxed cases where permissions are obtained from the customer, for the purpose of troubleshooting or other types of assistance.

A representative of SimpliSafe, another developer straddling the line between DIY and professionally installed home security, responded more broadly to questions about its procedures: "Much of our day-to-day work is focused on maintaining our systems so that vulnerabilities are immediately identified and addressed. This relentless focus includes both internal and external security protocols."



In short, security companies appear to be consciously using multiple levels of security to protect customers from potential abuse by installers and technicians -- even if the processes by which they do this aren't entirely transparent. But even if they're effective, that doesn't mean your smart cameras are totally secure.

How to know if your cameras have been hacked

It would be almost impossible to know if your security camera -- or perhaps more unnervingly, baby monitor -- has been hacked. Attacks could go completely unnoticed to an untrained eye and most people wouldn't know where to begin to look to check.

A red flag for some malicious activity on a security camera is slow or worse than normal performance. "Many

cameras have limited memory, and when attackers leverage the cameras, CPU cycles have to work extra hard, making regular camera operations almost or entirely unusable at times," said Lakhani.

Then again, poor performance isn't solely indicative of a malicious attack -- it could have a perfectly normal explanation, such as a poor internet connection or wireless signal.

Contd... page 10

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Dear Reader

The market of smart devices with onboard video analytics (edge-analytics) is growing day by day. The choice of devices and manufacturers is quite vast. Existing devices solve many business issues without being dependent on an Internet connection. The key advantage of these gadgets in the modern world with a high pace of life is the quick response and speed of their systems. If George Orwell wrote his novel today, we would meet a hero who lives in an era of inconspicuous smart devices such as access control panels and portable video recorders. The novel could change its ideology from "Big Brother Is Watching You" to "Little Brothers," which would control the hero's world even more effectively.



Artificial Intelligence plays an important role in our lives and influences many of its aspects. The Internet of Things (IoT) connects almost everything in our world, and AI-enabled devices do it faster and more efficiently. CCTV cameras are no exception. With advanced technologies such as H.265, WDR, 4K, 8K, night vision, and smooth streaming, cameras can clearly see and recognize objects regardless of the external environment.

Whether it's cameras that focus on people or vehicles, today, they can see more using machine learning technology. These cameras capture more faces in one shot from wider angles. They detect and distinguish people and vehicles from other objects with higher accuracy and recognize vehicle licence plates with over 98% accuracy. These systems analyse video streams, determining the length of the queues and the number of visitors to optimise the retail facility's resources during peak times. The solutions offered by modern smart systems integrated into cameras are not just video and graphic data but the knowledge necessary to build a more efficient business.

Touch-free access is now easier than ever. One cannot disagree with this statement when they become acquainted with the capabilities of access control panels that use face recognition at full capacity. Authorised Access or Physical Access Control System (PACS) has come a long way from using keys, PINs, cards, and fingerprints. We have already entered the era of facial recognition. The use of these systems to control access and time attendance was an inevitable trend. Facial Recognition Terminals provide greater security, increase efficiency in access control and time tracking, making the process easier and faster than ever.

Modern Facial Recognition Terminals provide excellent recognition in any environment with an accuracy of over 99%. The speed of recognition is about 0.2 sec. It is also possible to install a device that clearly works in low light or even total darkness. Such a system ensures top-level security. It cannot be fooled, and data ensures complete confidentiality. At the same time, you can easily control the operation of your devices. Various access methods, remote control via a mobile application, and convenient web interfaces ensure easy use.

"Little Brother" may gain more popularity in the world as a whole and to businesses specifically. These systems help entrepreneurs to control the processes of their companies. Modern Physical Access Control Systems provide contactless access, which has become safer and easier than ever. And smart cameras with artificial intelligence can analyse large flows of information and solve a wide range of business issues.

There are few disadvantages of these systems, which are high cost and poor choice of devices. However, edge technologies are only gaining momentum and are already able to offer business solutions with full autonomy and fast work speed.

Till we meet next month, Stay Safe and Keep Others Safe.

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Prosecur Security partners with Azena for Robot Dog Perimeter Guarding Solution



Prosecur Security USA has announced the integration of its newest security technology, a robot dog named Yellow, into its private and professional security offerings for perimeter patrol.

Yellow has several applications. The company explains the robot dog can be deployed in situations that are too dangerous or too difficult

for human entry. In addition, the robot can be deployed at events and with the help of facial recognition technology, it can identify "friend or foe," alerting security of potential threats.

Yellow is powered by Prosecur's GenzAI platform and AI partner Azena, enabling risk situations to be communicated via 5G technology to any Prosecur security operations center (SOC).

As an extension of Prosecur's GenzAI platform and in partnership with software from the Azena marketplace, Yellow incorporates video analytics into its guarding tasks to detect and

recognize suspicious elements, instantly alerting the SOC of any possible threats. Yellow the robot dog also provides enhanced support and improved efficiency of human patrol operations, elevating safety and security measures of stand-alone manned guarding.

Designed with hypersensitive sensors, Yellow can also detect fluctuations in temperature and gas, which might indicate a gas leak or fire.

Some of the other services the robot dog provides include perimeter patrols either independently or supervised by a security team mem-

ber to enable real-time application at either a private business or public event, including concerts and athletic games. Yellow's machine learning capabilities also enable it to adapt to any terrain, avoid obstacles, and create a comprehensive map of its patrol area.

Additionally, Yellow the robot dog's advanced equipment allows communication to the SOC/local security while also relaying its physical position without interruption. Yellow's capabilities are designed to be flexible and adaptable, and the dog seamlessly integrates into Prosecur's holistic approach to security.

Blackline Safety showcases their G6 personal gas detector



Blackline Safety Corp., a pioneer in connected safety technology, continues to trailblaze in the industrial worker safety market with the launch of a new connected wearable to transform single-gas detection. The all-new G6 personal gas detector – unveiled at the National Safety Council (NSC) Safety Congress & Expo in San Diego – offers fast incident response time and a more efficient way to manage safety and compliance.

What makes G6 truly unique is its long-lasting connectivity, which outlasts the competition. This means industrial organisations can fully harness real-time vital safety data for the first time in scenarios where disposable, traditional beep-and-flash detectors are commonly used.

A fully connected and intuitive solution

that leverages the latest in Internet of Things (IoT) cellular connectivity, G6 delivers expanded benefits such as longer battery life, lower cost of ownership and fewer false alarms. More importantly, it gives safety professionals access to the trusted data they need to manage their safety protocols, processes, and ongoing compliance more effectively and efficiently.

Built-in capabilities of G6 include:

• Connectivity -

• Proven direct-to-cloud cellular connectivity that works straight out of the box.

• Complete safety management through the Blackline Live software portal, with the ability to view an entire fleet of devices from a single screen and deliver automatic, over-the-air

firmware and configuration updates.

• Improved incident response time supported by real-time notifications and GPS mapping to quickly locate workers and devices and understand what's happening on the ground as incidents unfold.

• Trustworthy gas detection and powerful analytics -

• Sensor options to quickly alert workers to exposure of toxic gases, including hydrogen sulfide (H₂S), carbon monoxide (CO), oxygen (O₂) and sulfur dioxide (SO₂).

• Higher precision short-term exposure limit (STEL) monitoring.

• More accurate data that reduces false alarms and drives powerful reporting and analytics to get ahead of safety risks.

• Longest-lasting device life -

• Long-life rechargeable battery that lasts up to one year.

• Ability to quickly locate devices when lost or stolen.

• Device life of up to four years, double the life span of competitive models.

• Better informed decisions

According to a 2022 survey by Priority Met-

rics Group, 75 percent of North American environment, health and safety (EHS) managers see significant value in gas detectors with expanded features. They're also looking for a simpler, more integrated solution when it comes to using the data generated from gas detection systems to make better informed decisions.

Ideally suited to large industrial organisations in the oil and gas, petrochemical, manufacturing, utility, and renewable energy sectors, G6 allows users to access important single-source data from anywhere, at any time, on any Web-enabled device, and then analyse it through Blackline's advanced reporting, visualisation and data analytics software.

This means safety managers can glean critical data insights that help them stay ahead of potential risks and make daily operations more efficient. At the same time, they have state-of-the-art technology and cloud-connectivity at their fingertips to respond to incidents quickly and confidently in real-time when they do happen. G6 comes with a full warranty and flexible purchase options that include the ability to own or lease to maximise CAPEX or OPEX budgets.

DoorKing 1620 Surface Mount Lane Barrier



DoorKing's 1620 Surface Mount Lane Barrier is designed for applications where a higher degree of vehicle traffic control is desired, but without the expense of bollards, wedges or crash beams – making it ideal for apartment communities, gated condominiums, car rental agencies, parking lots and toll booths.

The 1620 is intended as a non-crash rated yet formidable barrier to help prevent passenger vehicles and light duty trucks from driving through controlled traffic lanes of 9, 10, 12, or 14 ft in width.

The 1620 mounts to the surface of concrete and installs for thousands of dollars less than crash rated systems. Heavy duty steel post and an internal 22,000 pound ca-

capacity 4-ply nylon strap help prevent barrier runs while the arm raises and lowers in approximately 2.5 seconds. The 1620 Lane Barrier must be used with the DKS 1603-580 Operator, with simple mechanical linkage keeping the two in sync, eliminating the need to maintain separate motors or hydraulic valves.

In today's busy world, people often forget to pay attention to their surroundings and can inadvertently place themselves in harm's way. DKS Barrier Gate Operators offer a Pedestrian Detection & Protection System that knows when to allow the Barrier Arm to come down – or not. Protect the integrity of the parking facility and prevent those inadvertent accidents from happening.

New patent pending anti piggybacking technology for turnstiles

At the recent GSX 2022 show in Atlanta, Boon Edam launched its new Be Secure, a new secure overhead detection system for use with Turnlock Full Height Turnstiles. This new, innovative overhead detection system is purpose-built for the detection and prevention of piggybacking within Boon Edam's range of full height turnstiles. Boon Edam's Turnlock 100 Full Height Turnstile with integrated Be Secure Overhead Detection System was on display alongside the company's suite of additional secu-

rity entrance products.

The BE Secure system utilizes Time-of-Flight measurement principles (TOF) combined with Artificial Intelligence (AI) algorithms to detect when two people try to enter the same compartment on a turnstile using one credential, otherwise known as piggybacking. If piggybacking is detected, the turnstile will automatically lock and refuse entry. Built for both exterior and interior applications, Boon Edam's range of full height turnstiles with integrated BE Secure

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are ideal for a variety of applications where piggybacking detection and prevention are required.

Boon Edam's Turnlock 100 and Turnlock 150 Full Height Turnstiles can be ordered with the BE Secure

Overhead Detection System installed as a factory supplied option or as a field retrofit kit. For the Turnlock 200 model,

BE Secure is only available as "Special Request" from the factory on new shipped products.

AxxonSoft integrates HALO Vape Detector Collaboration results in smart outdoor latching solution



Axxon One VMS is integrated with HALO Smart Sensor, enabling a range of applications. Different verticals, such as education or manufacturing, may benefit from the joint solution.

The HALO Smart Sensor detects vaping, measures the number of harmful chemicals (such as THS oils) in the air,

and detects vape masking behaviour with aerosols.

In addition, HALO has 38 types of sensors (temperature, humidity, carbon monoxide, gunshot, etc.) that provide an extensive set of health and safety monitoring indicators.

If students vape on school grounds, Axxon

One alerts school management and triggers the recording of video evidence. It can also be applied at industrial sites to warn of elevated levels of hazardous components detected by HALO. Current sensor readings can be superimposed on video from nearby cameras, which is useful for real-time monitoring and incident investigation.

Idesco ID makes both mobile access and especially credential management much easier



Door access via mobile phone continues growing in popularity. It is no surprise since phones provide an ideal container for digital credentials: secure, convenient, and carried by everyone. Phones easily transact credentials with door readers over an encrypted Bluetooth connection.

Mobile access also allows using a phone's own security lock, such as fingerprint, pattern, etc., to strengthen verification. Such stronger verification can't be applied to standard cards or tags without also integrating a separate, often expensive biometric reader.

Idesco ID makes both mobile access and especially credential management much easier. How so? Until recently, mobile access solutions required cloud-based services to manage and send mobile

credentials. This forced integrators and installers to use a cloud system separate from and in parallel with their own access control system.

By contrast, Idesco ID lets integrators create, send and manage users' mobile credentials within the site's existing access control system managing users' cards and tags. Idesco ID even lets them send mobile credentials to users' phones directly from that system, without needing to log into a parallel cloud-based system. This also makes Idesco ID mobile access a uniquely economical and environmentally-friendly solution for temporary access rights. No more assigning physical cards or tags to users that only need a couple days of access.

Users simply send the credential to their phones, saving both time and resources. Even bet-

ter, Idesco ID gives you different ways to use it. Organisations that assign new mobile credentials frequently will find Idesco ID's continuous Enterprise service an ideal choice. Alternatively, credentials can be sent to phones in a single batch, limiting use of Idesco ID service to a single transfer.

Smaller organisations with less users greatly benefit from Idesco ID Entry level. Once users install Idesco ID app on their phones it automatically creates and stores a credential in their phone, that can be read and enrolled into the system later via separate enrolment station device assigned to reception or a building manager, for example.

Regardless of the scale of the need, Idesco ID keeps credential management within the system – Idesco ID will not become a 'part' of their own system. Further, users won't need to create accounts and share their personal data in the cloud, let alone manage more passwords.

They only provide their site with their phone number, and additionally an email address if preferred, for sending their mobile credential. After credentials are sent and registered, phone numbers and email addresses are deleted from Idesco ID service.



Collaboration between Iloq Oy and Dirak GmbH has resulted in a smart and secure latching solution for outdoor applications. Headquartered in Ennepetal, Germany, Dirak GmbH has been a pioneer in lock, hinge and fastening technology for more than 30 years. For the last two years, Iloq and Dirak have been working together to develop a smart latching solution that would operate reliably in outdoor applications and provide enhanced security for critical infrastructure sectors such as power, utility and telecom.

For optimal protection against weather conditions and vandal-

ism, the Iloq S50 half cylinder lock is fully integrated into the Dirak swing handle that is RC2-approved according to DIN EN 1630. The lock is opened using the power from an NFC-enabled smartphone making it a battery-free solution. Access rights to open the lock are sent to an app running on the smartphone. They can be updated and cancelled remotely and in real time. This keyless solution eliminates the risks related to lost or stolen physical keys and ensures that only the right people have access to the right sites at the right time.

The solution maximises security while enabling keyless access

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

NFC technology, combined with cloud-based SaaS, PKI (Public Key Infrastructure), mutual authentication and strong AES-256 encryption (the highest Advanced Encryption Standard), has enabled Iloq and Dirak to produce a revolutionary concept for locking technology.

Johnson Controls releases IQ4 Hub



Johnson Controls, the global leader for smart, healthy and sustainable buildings has announced its IQ4 Hub is now available. By utilizing the IQ Platform, this lower-cost adaptation of the IQ Panel 4 targets residential, SMB, builder, Multifamily/MDU and wellness installations with many of the software features customers love – such as Bluetooth Disarming and Dual Path communication on LTE and Wi-Fi – while retaining the IQ Panel 4's attractive form factor.

The IQ4 Hub will be a perfect fit for lower cost residential, multifamily and solar applications where basic security and automation-only features are required.

Like all other products on the IQ Platform, IQ4 Hub integrates seamlessly with Alarm.com services for an unparalleled end to end solution.

IQ4 Hub Includes:

- Intuitive 7" touchscreen user interface
- Available with PowerG or 319.5 MHz or

345 MHz or 433 MHz Security RF

- Z-Wave Plus
- Built-in microphone, speaker, and 85 dB siren
- Pre-installed Lithium-Polymer Battery
- Smart Mount Installation System with optional table stand
- Qualcomm 8-core SOM (System-on-Module)
- IQ Hub is now available in North America and will launch internationally in 2023

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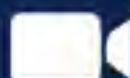
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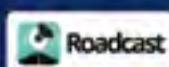
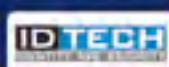
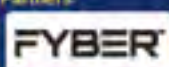
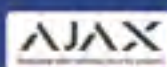
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Axis launches new 6MP panoramic mini dome



Axis Communications announces a 6 MP panoramic mini dome specifically designed for onboard surveillance. This compact, easy-to-install camera offers a complete 180° or 360° overview regardless of light conditions, and is planned to be available from Q4 this year.

The Axis M3057-PLR Mk II is marketed as compliant with transportation industry standards including EN50155 and EN45545-2. This ruggedised IK10, IP66/67-rated camera can withstand harsh environments. Engineered to be ideal for installations in trains and buses, it features an M12

connector to withstand vibrations.

With 360° wide area coverage, this mini dome uses one video stream to produce any dewarped views needed and it can stream panorama, quad, corner, and corridor views directly from the camera. Additionally, it is possible to digitally pan, tilt, and zoom in on areas of interest in up to four areas simultaneously. Plus Lightfinder, Forensic WDR, and Optimised IR, offer an assurance of great image quality under any light conditions.

A summary of the key features includes complete 180° and 360°

overview, optimised for transportation industry, Forensic WDR, Lightfinder, Optimised IR, factory-focused with digital roll and built-in cyber security features.

This cost-effective product includes built-in cyber security functionality to prevent unauthorised access and safeguard the system. For instance, Axis Edge Vault protects the Axis device ID and simplifies authorisation of Axis devices on the network. Furthermore, Axis Zipstream with support for H.264 and H.265 video compression significantly reduces bandwidth and storage requirements.

Camera Series ideal for outdoor applications and easy to be recharged in the field.

M Series offers a choice of four colour palettes to meet users' observation needs in different scenarios. 'White Hot' is suitable for observing active targets, 'Iron Red' can improve the comfort of long-term observation under night conditions, 'Rainbow' is convenient for users to quickly identify targets, and 'Alarm' helps to quickly detect the emergence of high-temperature targets. As thermal imaging cameras, the M Series also has a crucial function of automatic fire detection up to 1 km (Fire size: 2 m x 2 m). Forest management personnel can use it to conduct inspections to quickly find fires and arrange for firefighters to deal with the fire in time.

In addition, the M Series supports distance measurement. By select-

ing the measurement target type (e.g., wolf, rabbit, human, custom) and placing the measurement line on the top and bottom of the target, the approximate distance of the target can be obtained.

For networking, the M Series is equipped with a built-in WiFi hotspot module. By connecting the cameras to the smartphone via WiFi hotspot, users can transmit real-time images, set up cameras, store pictures, and videos, and browse history files on the DH Thermal APP. Moreover, videos and pictures can be exported and shared via a USB cable connected to a computer. With the built-in video recorder and display, Dahua Thermal Monocular Camera Series can present great views to users and take pictures and videos at any time. Apart from the Micro USB ports, the camera series also has CVBS ports for connect-

ing to an external display screen to realise a better visual experience.

In addition, the series has an SD card slot that supports a maximum of 256 GB of storage space, which can significantly expand the storage capacity of the cameras. A built-in distance sensor can detect whether the device is being used. If no one is within a certain distance for a set period, the device will automatically turn on to standby mode. The display will be turned off to preserve battery life while other functions are still online.

Users can re-start operating by stepping closer to the device or pressing the power button. Dahua never stops innovating for better products, solutions, and services to meet customers' needs. The highlighted functions not only differentiate Dahua's products from others but also attract consumers around the world.

Dallmeier launches AI video analytics for maritime applications



Dallmeier is introducing an AI-based video analysis application designed to reliably detect watercraft on open water surfaces despite wave impact and light reflections. The software application helps, for example, port operators and refineries to protect themselves against unauthorised access from the water side and associated risks (e.g., terrorist attacks, piracy) as well as to comply with legal regulations such as the ISPS Code.

The specially developed, AI-based Dallmeier video analytics app, Sedor AI Ship Detection, detects large ships and small boats on open water surfaces – even under naturally difficult environmental conditions such as waves and water reflections. The core of the solution is a specially

trained neural network that enables powerful AI object recognition of ships and boats. The solution was developed in cooperation with a port customer: Through a multitude of images and videos of real conditions, the neural network was able to consider and learn the specific requirements "at sea". Thus, the software can deliver reliable results by analysing the defined monitoring area in an adjustable cycle. If a ship or boat enters this area, the software issues a message. The false alarm rate is reduced by up to 99 percent compared to conventional analysis systems.

"As a refinery with a tanker port, we are at risk of small watercraft entering the transshipment area without permission. The Dallmeier solution notifies us when

such watercraft pass our port basin entrance," says Bernd Birnbacher, Head of Refinery Security at Holborn Europa Raffinerie. "This allows us to react immediately to a potential danger and once again significantly increase the level of security towards the water side. The Dallmeier solution also helps us to meet the requirements of the ISPS Code."

"We developed the video analysis app so that companies located by the sea can further improve their security and protection on the water side. However, application scenarios to improve business processes are also possible," says André Haack, Managing Director of Dallmeier Systems GmbH in Hamburg, which was entrusted with the implementation of the project. "For example, a container terminal operator can optimise its workflow by receiving automatic notifications when watercraft enter its port facility. Commercial port operators can also think of a variety of possible applications."

Dahua launches thermal monocular camera M20, M40 and M60 series for convenient operation



Dahua Technology, a video-centric smart IoT solution and service provider, recently launched its thermal monocular camera series — M Series. They are handheld cameras tailored for outdoor scenarios such as hiking, wildlife conservation, search and rescue missions, hunting, etc.

M Series provides three model options (M20, M40, and M60) based on the image resolution of the cameras, while each of them includes multiple models with different lenses to meet diverse customer needs.

With a 12μm Vox sensor, the maximum resolution can reach 640 x 512. This innovative series could be the handiest high-quality device for thermal imaging-related tasks in the field, and here are the reasons:

The ergonomic design of the M Series realises the comfortable handheld experience and convenient operation. These cameras meet the IP67 standard of ingress protection rating, pass the 2-meter drop test, and function under temperatures of -20° to 55°, which means they can work steadily in tough environments. Even un-

der harsh weather, the M Series is able to capture sharp thermal images at a smooth and stable frame rate and produce clear and detailed visuals of running targets and moving vehicles. Thanks to advanced thermal imaging technology, the series can detect animals and objects in complete darkness, haze, or through glaring light.

M Series's weight ranges from 350g to 500g. Its internal lithium battery supports up to 9 hours of battery life (tested at 25°) and a USB cable power supply. These make the Dahua Thermal Monocular

e-con Systems™ launches GigE low light HDR camera based on Sony STARVIS IMX462 sensors



is captured in 2K QUAD HD resolution. This powerful camera boasts a 4x digital zoom for the newest versions, which allows users to view everything clearly in live video and playback. It also records images in 2K resolution, rendering crisp details. The new C6N 2K Quad HD resolution has an advantage over other indoor security cameras with the same resolution thanks to its sensor which has a crisp clear picture when compared to those of other home security cameras.

The camera has no blind spots because

it maintains the same spherical shape and provides a full 360-degree field of view with motorised pan and tilt. The C6N 2K QUAD HD uses infrared lighting to see up to 10 metres distant in the dark while the lights are off.

The C6N employs a micro SD card with a maximum storage capacity of 256GB for storage. Furthermore, it also offers end-to-end encrypted cloud storage. The device is powered by a Micro USB port and connects to the internet using WiFi at 2.4GHz. The C6N uses an H.265

algorithm instead of the C6N's H.264 compression technology, which offers greater video quality with half the bandwidth and storage.

The new EZVIZ C6N, which has a 2K QUAD HD camera module and 360-degree visual coverage, manages to place emphasis on the camera's utility and is not only limited to indoor or home security services but also has a wide range of applications in medium-sized businesses like hospitals, cafés, hospitals, offices, etc.

e-con Systems™, a globally renowned embedded camera company, launches RouteCAM_CU20, an HDR GigE ultra-low light camera with network synchronisation capability.

RouteCAM_CU20 is the first product launched in the RouteCAM series – a portfolio of best-in-class GigE cameras from e-con Systems. RouteCAM_CU20 is an OEM HDR camera based on the Sony STARVIS IMX462 sensor that comes with excellent low light and NIR (Near InfraRed) performance. The camera can be easily integrated with all image processing platforms, including X86 processors and ARM processors.

The GigE interface of this camera ensures reliable transfer of data up to a distance of 100m. This is also a PoE camera that offers the ability to transmit power as well as data over a single GigE interface. Also, it comes with the ONVIF protocol support which allows the integration of this camera with any ONVIF-based system easily.

RanjithKumar Muthurajan, BU Head- Retail at e-con Systems™,

said “e-con Systems being a pioneer of GMSL, MIPI, and USB cameras has now forayed into Gigabit Ethernet cameras with the new 'RouteCAM series'. We see a high demand for OEM cameras with a reliable connection, and long-distance support, and at the same time customers want to use the existing infrastructure to lower their product development cost.”

He adds, “To address these needs, we have now launched RouteCAM_CU20, a full HD, HDR camera based on Sony STARVIS sensor. With these features, we aim to serve various markets with applications, such as Autonomous Mobile Robots, Smart Farming, Patient monitoring, Smart traffic & parking lot management, Autonomous shopping, and Telepresence robots.”

Key features of RouteCAM_CU20

- Network synchronisation - To provide synchronised multi-camera streaming.

- Customisation - Can be customised including optics, form factor, etc. to meet cus-

tomers' unique requirements.

- Sony STARVIS IMX462 - HDR, NIR, and ultra-low light capabilities.

- PoE - Ensure power supply for the camera through the data cable itself.

- GigE interface - Ensures reliable connection to transfer video data up to a distance of 100m.

- 264/H.265 encoding - Ensures high-quality video transmission with minimal bandwidth.

- ONVIF protocol support - Allows integration of this camera with any ONVIF-based system easily.

Customers interested in evaluating RouteCAM_CU20 can visit the online web store and purchase the product. e-con Systems with its deep expertise and knowledge in various camera interfaces and embedded vision applications provides necessary customisation services and end-to-end integration support for RouteCAM_CU20 to meet your application's unique requirements.

EZVIZ launches security camera 'C6N'

EZVIZ has launched its new C6N with 2K QUAD HD security camera catering to medium scale business like Café Owners, Restaurants, Hospitals, Shops, Small Malls etc. Now capable of recording in 2K quality, the device offers users with a wide

range of features such as – Smart Night Vision (up to 10m / 33ft.), Motorized Pan and Tilt for 360° Visual Coverage, Sleep Mode for Privacy Protection, Motion Detection Smart Tracking, View from Anywhere Wi-Fi 2.4 GHz, Two-Way Talk, the newly

launched product covers every corner – all day and all night. EZVIZ C6N 2K Quad HD Resolution camera comes only in White colour and is priced at ₹4249/-.

The image quality of the C6N has changed the most as every angle

Motorola reveals new WiFi AI camera



Motorola Solutions has announced new innovations within its integrated video security and access control portfolio, which it says allows security operations to detect and analyse incidents in real-time for improved efficiency, safety and security.

Motorola Solutions' new Ava Flex camera is an entry-point solution that brings intelligence and ease of use to any organisation, according to the company. Motorola

adds the camera's WiFi capability makes it easy to deploy for businesses with one or multiple locations.

When used with the Ava Aware Cloud video management system, it provides AI-based video and audio analytics, as well as features including proactive alerts, similarity search, occupancy counting, anomaly detection and more. This indoor camera is able to operate in low-light conditions with night vi-

sion.

The new Ava Flex is ideal for businesses, with either single locations or multiple distributed sites, that are looking for a lower barrier to entry for Cloud-based, AI cameras,” says Tor-mod Ree, senior director, Cloud Video Security, Motorola Solutions. “It's simple to install and operate and provides advanced functionality and sensory capabilities typically not available in an entry-range camera.

Wisenet cameras from Hanwha Techwin installed at Turkey's Rize Artvin Airport



Rize-Artvin Airport is based off the coast of Rize Province, north-eastern Turkey. It is a commercial airport serving primarily Turkish Airlines, AnadoluJet and Pegasus Airlines.

The airport was constructed on reclaimed land from the Black Sea. It is expected to serve around two million passengers annually once travel returns to pre-pandemic levels.

As a completely new airport, the General Directorate Of State Airports Authority (DHMI) needed to install a video surveillance system that would ensure the security of the airport itself, protect staff and passengers and monitor any assets, vehicles, equipment, or aeroplanes. The surveillance system also needed to be flexible enough to scale as the airport grew.

The airport building covers an area of 48,000 sq ft with a 3,000m runway. As is the case with all airports, the scale and range of different areas to protect increases the complexity of the surveillance needed.

Not only does the airport security team need to monitor for any suspicious behaviour

or trespassing, but they also have to be aware of left baggage, vandalism and equipment tampering, missing children and theft or other crimes.

Wisenet cameras were chosen due to their additional analytics capabilities including directional detection, virtual line, tampering functions, Appear / Disappear and Enter / Exit.

This provides operators with greater contextual awareness of everything happening on-site. With Wisenet, the airport gained an end-to-end security system with access control, emergency announcements, public announcements and fire detection all integrated with video.

Alerts are sent to operators based on pre-set rules, so they can rest assured that the system is continuously monitoring for any threats, while they can get on with other tasks.

In total, 710 Wisenet cameras were installed including TNO-4050T thermal cameras for perimeter and runway security, XNV-6080R dome cameras inside and outside the airport, XNO-6080R bullet-type cameras inside the airport's

car park and XNP-6321H PTZ cameras inside of the terminal building.

The cameras run on the Milestone XProtect VMS and are integrated with the airport's fire alarm and access control systems. The main control room receives video feeds and other insights 24/7, with additional access to the surveillance system via monitors placed inside the airport building, enabling the security team to see video footage without having to return to the control room.

Starting from outside the airport site, a multi-level security system was created that requires security verification at every crossing point, runway, elevators and counters.

This, coupled with line crossing analytics (that detects potential trespassing via cameras positioned around the runway) is improving flight safety by preventing unauthorised runway access. This is complemented with thermal cameras that detect people moving on the runway in low light conditions.

Luxury Casino selects IDIS To secure high-stakes poker tournament



IDIS has been selected to provide advanced video technology to protect a high-stakes poker tournament in a luxury casino in Northern Cyprus.

The Merit Royal Hotel and Casino offer an exciting gaming environment for guests, with the world's largest roulette table (that measures over 21 meters in diameter), 950 of the latest slot and gambling machines, 63 live gaming tables, and a number of luxurious VIP lounges.

To enhance security in preparation for the World Poker Tour's Texas Hold'em poker tournament and ensure the safety of VIP guests, a video surveillance upgrade was required within weeks. The casino needed comprehensive coverage, not just to secure premises and protect against fraud and theft, but also to fulfil legal requirements set by local regulators.

Volga Elektronik was awarded the installation contract and deployed a robust, end-to-end IDIS

solution. To improve video coverage of gaming tables and the casino floor, Volga's engineers installed IDIS 5MP dome cameras with motorised lenses, true WDR, and IR up to 32 yards, delivering exceptional high-resolution images in varied lighting conditions.

Seamless DirectIP® plug-and-play connection of the cameras, 24 PoE switches with 64-channel network video recorders (NVRs), which come pre-installed with IDIS Solution Suite (ISS) VMS, meant cybersecure, yet rapid and hassle-free installation for Volga's engineers.

IDIS Solution Suite Expert provides control room staff with an easy-to-use VMS designed for mission-critical surveillance operations including administration, video wall monitoring, streaming, and recording services. The rich feature set allows operators to detect, verify, analyse, and rapidly respond to security and safety events and meet the requirements of regulatory gaming integ-

rity.

The solution from IDIS, the largest manufacturer of trusted South Korean-made video tech, encourages honest and fair gameplay and provides operators with complete visual awareness of the gaming tables, casino floor, lounges, and other key areas.

Seamless plug-and-play connectivity ensured a rapid installation, completed in time for the high roller tournament. With a transparent, one-off licence payment for IDIS Solution Suite (ISS) and no ongoing software or device connection fees, coupled with reduced storage costs and easy maintenance, the casino is benefiting from the IDIS promise of a low total cost of ownership (TCO).

The Merit Royal already has plans to extend the system to cover hotel facilities and spacious outdoor areas, featuring two swimming pools, gardens, and a private beach.

Hikvision provides solar-powered wireless cameras to guard the construction site for the DECHO Group

In the midst of a rise in building material thefts, construction company DECHO used Hikvision's solar-powered wireless cameras to guard the construction site for its much-anticipated Coast Garden project.

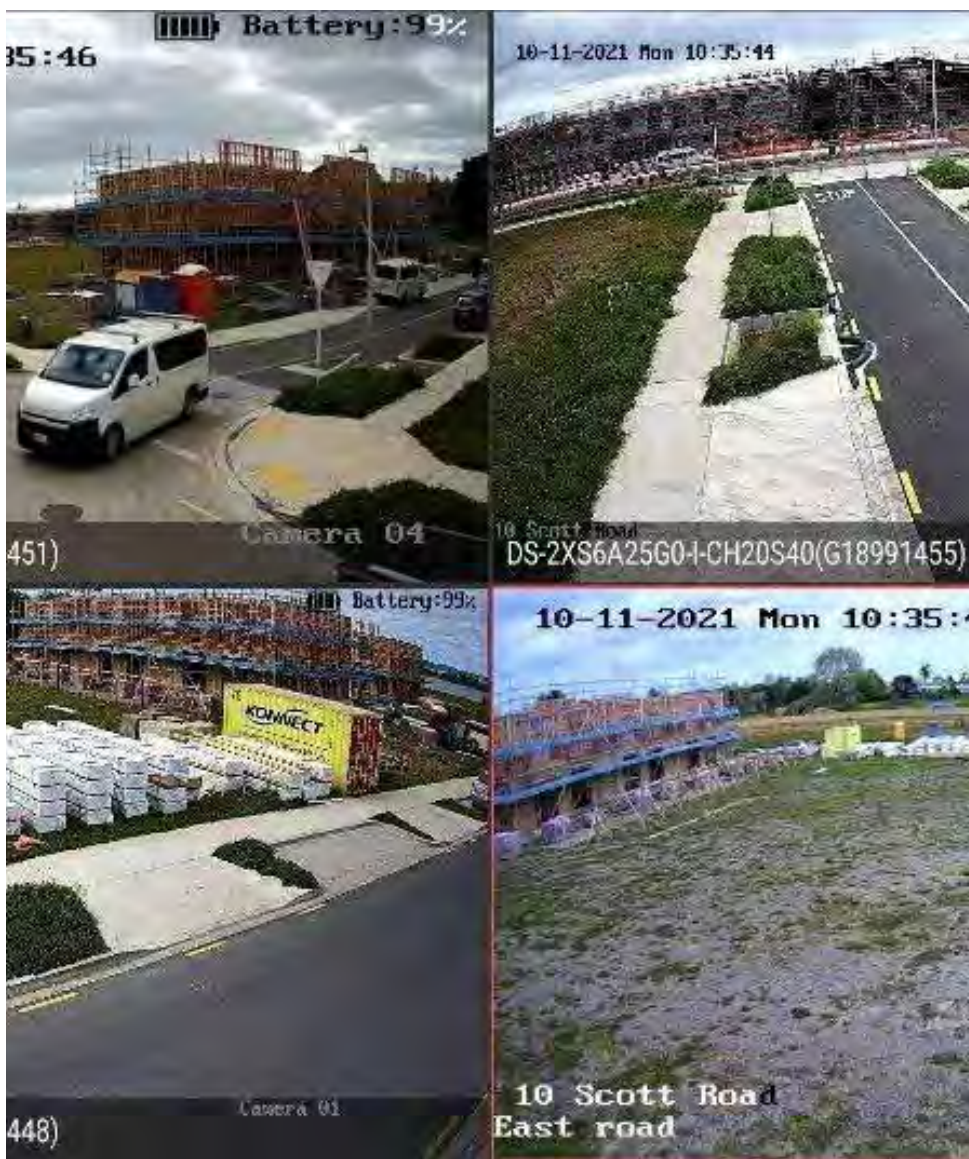
Building material shortages and rising prices fuelled a rise in

construction site thefts in New Zealand, which has prompted worries among builders, project managers, and contractors.

The DECHO Group is one of Auckland's most innovative and respected land developers, serving civil infrastructure, industrial, and building markets. DECHO's newly launched Coast Garden

project is a new, premium development under construction in the highly sought-after Hobsonville Peninsula locale. The exclusive Coast Garden development is a brand new 4.3-hectare subdivision delivering exceptional waterfront living on an elevated cliff-top site on the peninsula.

"We need a security



solution to protect our high-value items such as machinery, tools, copper, and other building materials." Ning Zhao, Director of DECHO, said, "Our projects don't get completed overnight. It can take months and years to execute a single project. The construction sites endure all kinds of weather, power issues, security problems, and many other challenges. Therefore, we are in need of a solution that boosts security quickly and easily with simple installation and suited for deployment in any kind of outdoor environment, and without need for a fixed network or power supply."

To protect its valuable tools and equipment, DECHO researched several options and deployed Hikvision's solar-powered security camera setup. EXIR Fixed Bullet Solar Power 4G Network Cameras and 4K ColorVu Fixed Bullet Solar Power 4G Network Camera Kits were placed around the perimeter of DECHO's Coast Garden construction site.

The solar-powered security camera setup uses a 40-Watt photovoltaic panel and a highly durable 20 Ah rechargeable Lithium battery to power a Hikvision EXIR Fixed Bullet Solar Power 4G Network Camera. Because the setup gets power from the sun, there is no need for fixed power or network cables on site. With the product's smart

power management features, each setup can provide up to 7 days of operation during cloudy or rainy periods when fully charged. Its 4G camera further adds a 32 GB eMMC (embedded MultiMediaCard) in addition to an SD memory card, this ensures continuous video recording even if there is an interruption with the SD card.

According to DECHO's Director, Ning Zhao, the fact that the Hikvision solar-powered cameras can be installed hassle-free was a key deployment feature for the company. The pole-mounted unit weighs just 14 kg (30 lbs), and no wires or cables are required, making the deployment process fast, easy, and cost-effective.

"With its own power source, each Hikvision camera can be deployed anywhere on the site without having to route cables, saving valuable time and resources, which could be redirected to other critical tasks to help the company complete construction on time," said Ning Zhao.

Empowered by ColorVu technology, the cameras offer clear vision in extremely dark environments. "Construction site compounds are most vulnerable to theft at night," commented Ning Zhao, "With these cameras installed, our valuables are now well protected during vulnerable out-of-hours periods."

Besides that, intrusions can now be detected accurately and addressed immediately. As the AcuSense technology embedded in the cameras helps to differentiate between humans and other moving objects such as animals, falling leaves, or heavy rain, false positives are minimised, and DECHO will only be alerted in the event of real security threats. In addition, being waterproof and dust-resistant, the solar power cameras are suitable for deployment in any kind of outdoor environment.

"These cameras are sturdy enough to withstand the harsh conditions on the construction site, as well as Auckland's frequent rainy and windy weather," said Ning Zhao.

Requiring only a single solar panel, the self-contained setup operates for up to 7 days on a single battery charge, which delivers significant cost savings for DECHO. In addition, powered by clean and renewable energy, the solar cameras not only help to save operational costs for the building firm, but also reduce the company's carbon footprint. Ning Zhao commented, "We work hard to build a green culture within DECHO. Deploying a solar-powered wireless camera system represents an opportunity to have an immediate positive impact on sustainability."

Genetec helps London school enhance safeguarding of students



Haberdashers' Borough Academy implements Genetec Security Center with VMS and cloud security to safeguard staff and students.

Haberdashers' Borough Academy is a new secondary school built on the site of a former fire station in Central London. The school admitted its first learners in September 2019 and will ultimately grow to accommodate 1,150 students. As the ninth school to form part of the Haberdashers' Academies Trust South, the school represents a flagship site for the wider organisation who saw an opportunity to adopt a 'best-of-breed' video security system to help safeguard the new school.

Upon taking ownership of the Borough Academy facilities, Haberdashers' safeguarding leads realised that the video management system (VMS) pre-installed by the developers was not 'up to scratch'. 15 cameras were installed across the entire premises, most of which focussed on entrances and exits. The VMS couldn't integrate with other physical security systems, creating data silos and slowing access to vital information.

With limited visibility of what was happening on the playground or in the corridors, it was said to be difficult for design-

nated safeguarding leads to respond to incidents and meet their duty of care to students and staff. The issue was raised to Edward Avenell, Director of IT, who got to work on delivering a better alternative. "Our designated safeguarding leads are responsible for ensuring the welfare of everybody on the school premises. We owed it to them to give them access to the right tools to do their job," said Edward.

Genetec's Security Center is a unified platform that combines the video surveillance, access control, automatic number plate recognition (ANPR), and other systems in one solution.

With the support of their systems integrator, Custom Intelligent Security, the entire school was mapped to identify where a new network of cameras could be deployed. The 15 legacy cameras were replaced with 115 high-definition cameras from Axis Communications.

Across Haberdashers' nine schools, Edward and his team of 14 are said to be responsible for the ongoing security and maintenance of over 8,500 devices. They also manage the rest of the IT infrastructure that supports 'over 5,500 students and 500 teachers'. The new security also simplified routine maintenance

tasks: "Proactive maintenance is vital in ensuring a system remains cybersecure and operational. Yet it's so easy for things like firmware updates to fall by the wayside as they're so time consuming," explained Edward.

"The fact I can actively manage the firmware of my cameras through Genetec Security Centre saves considerable time and minimises the risk of missing an important security update."

The impacts of the Covid-19 pandemic have also accelerated Haberdashers' migration to Cloud storage. Haberdashers' is currently operating with its own on-premises servers across most of its IT operations but expects that to change going forward. Since Security Centre is designed to be deployed in the cloud and supports hybrid cloud installations, Edward's team knows they can confidently transition their security applications to the cloud in due course.

"We see the Cloud as a long-term strategy where operational and cost benefits can be made. We have a project to increase our bandwidth across all our schools. When we bring the other schools online, that's when we can really start to find out what a Cloud-first approach can do," said Edward.

Vivotek total solution brings security & sustainability



The Delta Electronics (Thailand) PCL's new Plant 7 in Wellgrow Industrial Estate, Chachoengsao has received the LEED (Leadership in Energy and Environmental Design) Gold certification in the New Construction category from the United States Green Building Council (USGBC). The certification categories include Sustainable Sites, Energy & Atmosphere, Materials and Resources, Indoor Environmental Quality, Water Efficiency, Innovation in design, and Regional Priority Credit.

For this green building, Vivotek specifically designed a comprehensive and scalable smart Industrial IP surveillance solution including cameras, POE switches, and a video management system to ensure employee and customer safety with layered 24/7 Trend Micro cyber security protection.

The new Delta Thailand Plant 7 green building is equipped with an advanced energy-efficient HVAC system, and building automation system and requires 24/7 security of the facility perimeter, resources, utilities, materials, infrastructures, and classified information to ensure employee and visitor safety. The Vivotek team designed a total industrial surveillance system with comprehensive external and internal security to enhance employee and customer safety. This system includes security for the facility's perimeter including fences, lights, and gates, secure data privacy, and critical infrastructures. Last but not least, user privacy is protected in the entire surveillance system.

Vivotek designed a

total solution including IP cameras, NVRs, POE switches, and the Vast 2 VMS. The system has over 178 units of smart IP surveillance cameras including 5MP IB9387-HT Indoor/Outdoor Varifocal Bullet cameras, 5MP FD9187-HT Indoor Varifocal Fixed Dome cameras, 5MP FE9380-HV Indoor/Outdoor 360° Fisheyes. In addition, the system has POE switches, Outdoor POE cabinet switches as well as the Vast 2 VMS. Vivotek Vast 2 IP video management software addresses the real-world needs of DET 7 Plant by providing easy operation on multiple monitors with Matrix video wall software and a custom layout to accommodate both corridor and panorama orientations.

In cases of cyber security attacks, operators can execute rapid export of multi-channel videos from Vivotek cameras and NVRs substations. Cyber security attacks can be searched and replayed with the Event Search function and be set as triggers in the Alarm Management function. In addition, Smart Search II allows users to search for specific objects or person related videos. It also provides the option to draw a custom zone into focus in any critical area.

Utilising automatic configuration wizards, Vast 2 can significantly reduce the time and cost of installing multiple camera surveillance systems. For efficient video management, Vast 2 also provides multi-layered, interactive 2.5D maps with sophisticated alarm management for full synergy in the Delta Plant 7 security management.

Furthermore, Vast 2 is scalable for future addition solutions including failover protection, IP Audio Network solution, TCP, and Data Magnet integration solutions.

As digitalization advances, increased integration and convergence of Information Technology and Operational Technology makes assets vulnerable to cyber security incidents and attacks. Vivotek drives industry best practices in order to reduce security vulnerabilities in our products and solutions.

Vivotek collaborated with industry-leading cyber security software partner, Trend Micro, to provide network cameras with Trend Micro's anti-intrusion software. Their cyber security solution meets industry protocols and constantly provides solid shields to increase protection from various cyber attacks. The company brings high-security protection and robust network surveillance to ensure a safer network environment for Delta Plant 7.

Vivotek Smart Stream III (video intro below) enables cameras to optimise quality for desired regions and automatically adjust encoding, maximising bandwidth usage efficiency and lowering storage requirements while maintaining high image quality. It reduces bandwidth and storage consumption by up to 90% compared to H.264 and optimises resources effectively.

As a global ESG leader and green building advocate, the new Delta Thailand Plant 7 is not only a remarkably efficient green building, but it is secure as well. By choosing a customised Vivotek surveillance total solution, Delta Plant 7 achieves both security and sustainability at a world-class level.

Specialist manufacturer turns to enhanced access technology



Securing King Engine Bearings' manufacturing facility in Israel posed all the challenges of mixed-use sites. Their location in Kiryat-Gat is used for manufacturing, sales and distribution. To control and manage access to offices, the warehouse and a packaging facility, they needed an integrated solution with flexibility and a comprehensive device range to match.

The secure and convenient movement of people is a challenge, and different people require different access times and entry points. According to Assa Abloy, at King Engine Bearings facility, the ideal solution would include a portfolio of devices suited to different rooms and zones at the facility. The system must be built to high standards and have a trusted track record of reliability and

security in real-world situations.

Installation and management of access control hardware and software should be scalable and cost-efficient with the possibility to upgrade in the future.

As a company whose reputation is founded on engineering, King Engine Bearings understands the importance of manufacturing. Assa Abloy Opening Solutions' Incedo access control ecosystem met their desire for a solution designed and built to "European standards and quality," according to Koby Ben Hamu at King Engine Bearings.

External and internal doors between various areas of the facility are secured and monitored with Assa Abloy readers. Incedo controllers

and door reader modules connect the hardware to Incedo's flexible software management. All devices work seamlessly within the same ecosystem.

As Incedo is a modular, platform-based solution it provides flexible, scalable access control. Access decisions are managed from one integrated interface, which saves staff admin time. The Incedo device portfolio includes wired readers and wireless Aperio door devices plus a choice of card- and smartphone-based credentials, which may be used simultaneously. Key-operated electronic Pulse locks — powered by innovative energy-harvesting technology — may also be added, if needed. For almost any opening, Incedo has a robust, field-tested solution. "Incedo gave us a perfect and fast solution for access control," adds Mr Ben Hamu.

Plus, with Incedo, King Engine Bearings have the option to extend the coverage of their access control system whenever they choose. Their access control is future proofed.

Contd... from page 1

Caution: Even your home ...

How to protect your privacy at home

While no one system is impervious to an attack, some precautions can further decrease your odds of being hacked and protect your privacy in the case of a hack.

- Use cameras from reputable manufacturers, whether they are part of a professionally monitored security system or a DIY device.
- Use cameras with high-level, end-to-end encryption.
- Change your credentials to something that cannot easily be guessed (in particular, avoid using passwords you already use for other online accounts).
- Update the camera

firmware frequently or whenever possible.

- Use two-factor authentication if possible.

Another important step is simply avoiding the conditions for an invasion of privacy. Hacks are unlikely and can be largely avoided, but keeping cameras out of private rooms and pointed instead toward entryways into the house is a good way to avoid the worst potential outcomes of a hack.

Lakhani also suggested putting standalone security cameras on a network of their own. While this would doubtless foil your plans for the perfect smart home, it would help prevent "land and expand," a process by which an attacker gains

access to one device and uses it to take control of other connected devices on the same network.

Taking that one step further, you can use a virtual private network, or VPN, to further restrict which devices can access the network the security cameras are on. You can also log all activity on the network and be certain there's nothing unusual happening there.

Again, the chances of being the victim of an attack like this are quite small, especially if you follow the most basic safety precautions. Using the above steps will provide multiple layers of security, making it increasingly difficult for an attacker to take over.

FIA releases guidance on cladding and external wall systems in fire risk assessments addressing challenges involved



Updated to reflect the publication and commencement of The Fire Safety Act 2021, new guidance from the Fire Industry Association (FIA) addresses the challenges and provides advice to Fire Risk Assessors related to cladding and external wall construction assessments for multi-occupied residential premises.

The Guidance Note has been prepared by a Special Interest Group (SIG), comprising representatives of FIA member companies, other invited experts in the practice of fire risk assessment in housing premises, and an observer from the National Fire Chiefs Council.

Members of the SIG represent companies that carry out, in total, over 40,000 fire risk assessments for multi-occupied residential premises (blocks of flats and maisonettes) per annum.

It has been published with the approval of the FIA Board and was published after circulation of a draft to the Ministry of Housing, Communities & Local Government, the Home Office and the National Fire Chiefs Council, but opinions and guidance set out herein are those of the FIA and are not purported to represent those of

consultee.

This guidance applies only to England and Wales. It relates to fire risk assessments carried out for multi-occupied residential premises under the Regulatory Reform (Fire Safety) Order 2005 (“the Fire Safety Order”).

The FIA looks into the scope of the Fire Safety Order and the problems Fire Risk Assessors may face if external buildings are now expected to be assessed intricately by the assessors.

The SIG argued that the skillset to carry out a fire risk assessment for external buildings is different to when it had previously been undertaken for ‘compliance with the Fire Safety Order’.

This, they say, is ‘unrealistic’ for many Fire Risk Assessors to investigate external cladding and wall construction, as they mainly focused on internal risk such as fire doors and entrances previously. In addition, it is noted that it is often very difficult to visually inspect and identify the cladding product and its constituent materials, while original specification drawings are not always accurate to the materials fitted. The new Guidance Note also scrutinises PAS 9980 and argues that it

was not written for ‘typical’ Fire Risk Assessors to implement.

The Guidance Note has called for an acknowledgement that external wall fire risk assessments should be carried out by a specialist, separate from a Fire Risk Assessor for high-rise residential premises:

“The FIA strongly recommend to fire risk assessors that, unless they feel confident to give definitive advice on the nature and fire hazard of external wall construction, and have the appropriate qualifications, skills, knowledge and experience, they exclude assessment of the fire hazard of external wall construction and cladding from the scope of the fire risk assessments that they carry out under the Fire Safety Order, in which case it will be necessary for the action plan of the fire risk assessment to recommend an appraisal of the external wall construction by specialists.”

It is also recommended that fire risk assessors ensure that their advice is within the scope of their professional indemnity insurance cover – it should be highlighted that a scheme directly related to EWS1 assessments has recently been launched by the Government.

Essential door closers for fire safety



No one needs a reminder of the devastation caused by fire in a large building. One result of recent tragedies is that fire doors now receive the attention and regulation they deserve. Just as importantly, however, any fire door must be properly closed to be effective. This is where a building manager’s choice of door closer technology can make the difference.

“Historically, fire doors and their components have often been overlooked in building fire safety,” says Richard Wilson, Door Closer Product Manager at Assa Abloy Opening Solutions EMEA. “But over the last few years, their vital importance has been recognised. Doors are critical safety features. They provide fire protection and compartmentation.”

However, he warns: “Like any door security technology, fire protection will only work if the door is fully closed, preventing the spread of fire and smoke. Relying on building users to do this 100% of the time is not realistic.”

Door closer technology can help. A certified door closer which is properly fitted helps to build a barrier to aid escape and slow a blaze’s progress with compartmentation. According to Assa Abloy’s research, after analysing one recent tragedy in New York, city officials said the death toll would have been lower if doors were

properly closed.

Every element on a fire door, not just the leaf, must be tested to industry standards and certified. This includes door and architectural furniture. Among these components, door closing devices are of vital importance.

“Companies which supply life-critical building equipment must be confident in its performance in real-world situations,” explains Richard Wilson. “Most architects and building specifiers now request product datasheets with primary fire test data from an accredited third-party testing house.”

Assa Abloy promises a wide portfolio of door closing solutions that are fully tested and certified to meet the needs and regulations of new buildings and retrofit projects. “There is an effective, efficient Assa Abloy Door Closer available for almost any opening, of any door size or type,” adds Richard Wilson.

Besides full test coverage, correct installation is of course critical, and to support installers, Assa Abloy product labels include QR codes which link directly to installation walk-through videos. In addition, to assure users of ongoing performance, Assa Abloy also offers a long warranty and each device is supplied with maintenance instructions.

Cam-Motion Door Closers provide an ergonomic opening experi-

ence for everyone who passes through the door. The necessary user push-force falls rapidly on opening, which enhances comfort.

Because Assa Abloy Cam-Motion devices’ closing force and latch speeds are independently adjustable, the door can be configured to close reliably each time. Thermo-resistant valves with metal heads, rather than plastic, ensure adjustments are dependable. According to the company, once door speeds are set, they stay set. Even with wind pressure, draughts or air suction effects, doors shut tight.

In comparison, Assa Abloy claims that rack and pinion door closers are indeed more common and cost-effective, but do not tend to operate as efficiently for fire doors, and this is according to findings from the UK’s Fire Protection Association.

Assa Abloy Cam-Motion devices are tested to EN 1154 standard for fire and smoke protection. The door closers’ symmetric cam is designed to fit to either frame or door, and on hinge or non-hinge side: Whatever suits the opening best with no compromises or workarounds needed from the installer.

“The degree of so-called ‘passive fire protection’ given by a fire door is greatly enhanced by the intelligent technology inside an Assa Abloy Door Closer,” says Richard Wilson.

FPA adds four new courses to its training to bolster high standards



With increasing focus on the importance of both the technical aspects and management of fire safety, the Fire Protection Association (FPA) is introducing four new training courses to help meet the demand for trained and competent fire safety professionals.

The new courses cover a range of topics – mathematics for engineering, the fundamental principles of fire risk assessment, fire risk management in residential properties, and fire in non-loadbearing external walls.

Launching these additions to the FPA's offering, Claire Wright, Director of Training and Digital Services at FPA said, "As the UK's national fire safety organisation, one of our key goals is to contribute to a legacy of safety in our workplaces and homes for generations to come. This new and significantly updated range of courses reflects a response to changes in the sector and the needs of our customers, who are committed to demonstrating the highest standard of practice in the fire safety sector."

Fire and non-load-

bearing external walls

This is a one-day course focused on multi-storey buildings with a primary structural frame of concrete, steel, and timber that supports the external wall construction. This course intends to provide learners with the knowledge to determine whether a fire risk appraisal of the external wall under PAS 9980:2022 is required.

Fundamental engineering mathematics

This is a three-day course that encompasses complex mathematical concepts, providing learners with the knowledge and skills to attack engineering mathematical problems in context. Designed to provide CPD and refresher knowledge, Fundamental Engineering Mathematics will give an 'essential grounding' in the rudimentary mathematical formulae to allow attendees to scrutinise and challenge decisions, or put forward solutions in a scientific way.

Fire risk assessment fundamental principles

This is a five-day course that will provide learners with an understanding of the fundamental principles and

concepts that underpin the practice of fire risk assessment. This course will detail the knowledge required of a competent fire risk assessor as defined by UK legislation. It is suitable for those who carry out or work with fire risk assessments in their own workplace, and for low-risk premises.

Managing fire risk in residential properties

Developed with input from the fire industry and the housing sector, this five-day course aims to meet the expectations of building fire safety and to provide those who are engaged in building fire safety management with the tools to succeed. This course is suitable for those with management responsibilities for existing residential, mixed-use, and high-rise residential properties. Delegates are expected to have previous life safety systems knowledge.

Wright also added: "The first of these new courses will start from the beginning of October, with a full roll-out over the autumn, and with courses being run in London and Manchester, as well at our head office at the Fire Service College in Gloucestershire, we're really pleased to be able to widen our offering in this way.

"As always, our FPA members receive a 10% discount on the cost of the courses, and we are expecting them to be very popular. Courses are also available to be booked as in-house events at companies' premises, and we are happy to discuss the tailoring of courses to meet the needs of employers."



the efforts of the FSAI for creating awareness and sharing knowledge through experts about

fire safety and security.

Ajit Raghavan, national president of FSAI said, "The Fire and Se-

curity Association is a non-profit organisation established in 2002 representing fire protection, life safety, security, building automation, loss prevention and risk management domains".

Dr Manjari Khanna Kapoor explained, "It is a comprehensive approach to architecture and planning putting the focus back on 'built environment' as the primary instrument of defence and physical security." Experts said fire safety and security measures were very important in buildings.

New fire rated door sets launched by Promat UK



Promat UK has developed two new steel framed glazed door systems and a timber door set to provide specifiers with fire safety solutions in domestic, public and commercial buildings.

All three door sets are available in EI30 or EI60 specifications, which means they will retain their integrity and provide effective insulation to protect people and assets in the event of a fire for either 30 or 60 minutes.

The new steel frame doors, PYROSEC Door and PYROSEC SLIMLITE, are designed to allow fire doors to be integrated into fire resistance screens and partitions – maximising light transmission and vision without compromising safety. Both also integrate with the Promat SYSTEMGLAS Ferro fire resistant glazing system.

The PYROSEC Door provides aesthetic appeal with its large vision panels. It is available in a single or double leaf configuration, with minimal stainless steel frame members and compatibility with a

full complement of over panels and side screens that allow for clear butt joint glazing.

For those applications where a slimmer frame is sought, PYROSEC SLIMLITE is said to be the ideal solution. The glass area is maximised due to a slim 20mm frame section, 25mm stiles and 90mm rails.

The third new fire door, a timber door set, offers the same fire resistance as the other two options for applications where a traditional timber solution is required. It integrates with the Promat SYSTEMGLAS Ligna glazing system, which is widely used in all kinds of traditional and contemporary interiors.

The new fire rated door sets, along with the complete SYSTEMGLAS range, can be fitted by Promat approved installers, which ensures the company can provide clients with complete traceability of the installed product. Key to the 'golden thread' approach being adopted by the construction industry more broadly,

this means Promat can provide a post-installation certificate of conformity because it is in control of the whole supply process, from raw material sourcing, design and manufacture, to installation, the business explains.

Cath McLean, Segment Manager – Glass at Promat UK said: "As the annual Fire Door Safety Week once again shines a light on why we can never become complacent about fire safety in new build and refurbishment projects, we are delighted to be able to be launching these three new door sets at this time.

"With no margin for error when it comes to the design and installation of passive fire protection products, it is important that specifiers and installers have access to the systems they can depend on. That's why we invest in creating fully tested complete systems which ensure risk is minimised at all points in the supply chain – ultimately providing peace of mind for clients and the end-users of buildings."

FSAI experts dwell on fire safety, security in buildings in Chandigarh

The Chandigarh Chapter of Fire and Security Association of India (FSAI) organised an exhibition and seminar, which was inaugurated by Mayor Sarbjit Kaur.

It is an annual event titled "India Fire and Security Yatra" (IFSY)

covering 24 cities of India. It consists of lectures and panel discussions besides an exhibition to display products, materials and technologies related to the fire and security sector.

Surinder Bahga, president of FSAI,

Chandigarh Chapter, said the city chapter was working with many educational institutes to spread the knowledge about fire safety and security.

Mayor Sarbjit Kaur was the chief guest on the occasion. She lauded

ADT Commercial showcases new features of Humanoid Robotics, Drones



ADT Commercial has announced it is nearing commercialization of its intelligent autonomous guarding solutions and showcased new updates to its humanoid robotics and indoor drone technologies at GSX 2022.

ADT Commercial's suite of intelligent au-



tonomous guarding solutions will use AI and AR in combination with autonomous humanoid robots and indoor drones for comprehensive security surveillance of a wide variety of commercial areas, according to the company.

The current versions of both the humanoid robotics and indoor drone technologies in development and on display at GSX boast a host of additional features — virtually all of which were directed by the feedback of select pilot partners who have deployed the solutions in their commercial facilities.

“Our approach to innovation is completely centered on customer needs and in keeping with the to-the-minute pulse of the industry. Especially given the costly turnover and labor shortages that have been mounting in the guarding market over the last several years, we saw a way forward to help our customers through technology,” says Ed Bacco, ADT's vice president, Enterprise Security Risk Group. “We're focused on solutions that create necessary change and disruption to the commercial security landscape and can respond to these types of evolu-

ing challenges. But how we make those changes has to start with and be driven by the customer.”

Humanoid Robotics

In addition to conducting autonomous patrols, performing two-way communications between the public and an operator, opening doors, riding elevators, and completing various tasks with fine motor-skilled actions, new features developed for the humanoid robot in part-

nership with Norway-based robotics company, Halodi, include a camera system that allows for a full 360° range of sight, robot self-docking and self-charging capabilities, a padded suit, and many additional upgrades to further improve reliability and serviceability.

Since debuting the robotics solution at ISC West in March 2022, the team has prioritized more than 180 enhancements to the technology in response to feedback from various pilot partners across industries.

“While most security-focused robots can observe and report, we're working closely with our pilot partners and Halodi to create humanoid robots that can observe, report and engage with surroundings human in ways never imagined,” says Mike Lavway, ADT's director, Enterprise Security Risk Group Operations. “The true benefit to our customers in deploying this technology is the value it brings to their security team — having a robot that can interact with its environment means fewer risks to a customer's greatest asset, their people.”

Indoor Drones

Working with Israel-

based Indoor Robotics, ADT Commercial says the autonomous indoor drone technology being displayed this year at GSX 2022 is intended to act as an additional layer of 24/7 surveillance that's integrated with other adaptive security technologies to likewise help address labor shortages in the guarding market and diminish risk to human life.

“The current drone in development can provide 360° surveillance with the added mobility and flexibility of autonomous flight, automating traditional patrol missions while also expanding capabilities to interact with security incidents in near real time without risking the wellbeing of personnel,” Lavway says. “Eventually, what we want is for our humanoid robots and the indoor drones to work together as a total guarding solution for customers.”

Luxury Swiss watchmaker Movado is currently piloting the autonomous indoor drones at the group's distribution center in Moonachie, N.J., where it's testing the technology to serve as a supplemental physical security measure for overnight and weekend coverage.

“We're incredibly impressed with the technology and its potential so far, and we're extremely excited to be partnering with an innovator like ADT Commercial on its development,” says John Holubowicz, director of loss prevention for the Movado Group.

“This truly feels like the future state of where we're headed in terms of loss prevention and security. This technology will enable us to automate physical security guard responsibilities, improve reliability in reporting conditions and has incredible potential to help diminish and even eliminate the occurrence of false alarms.”

As the technology is refined, Movado has plans to expand use of the solution to its warehouse spaces and other critical areas in its facilities, deploying a fleet of drones for multiple and specific use cases.

Cloud analytics to hit new heights



The global cloud analytics market size is anticipated to reach USD 128.89 billion by 2030, exhibiting a CAGR of 22.32% over the forecast period, according to a new report published by Grand View Research, Inc. The growing trend of digitisation and significant rise in big data is driving the adoption of cloud analytics solutions. Moreover, the increased data connectivity through multi-cloud and hybrid environments has resulted in the adoption of cloud analytics solutions in various industry verticals.

Incorporating analytics solutions and services into the cloud platform has allowed companies to stay competitive in the market and better control their business operations. Furthermore, it helps companies to reduce maintenance costs and expenses related to computation and data storage.

The companies are focusing on producing innovative and easy-to-adapt solutions to help clients in their multi-cloud journey. For instance, according to the analysts, in March 2022, Alteryx, Inc. announced the launch of Alteryx

Analytics Cloud, an automated analytics platform. The platform offers no-code/ low-code capabilities that easily allow the extraction of insights and help businesses make informed decisions using data.

Enterprises of all sizes emphasise implementing business intelligence solutions into their operations to gain a competitive edge and collect, identify, exchange and preserve enormous data. The business intelligence solutions provide a simple and quick decision-making process.

The key players focus on expanding their product portfolio through R&D or mergers and acquisitions. For instance, in July 2021, the research shows that Atos SE announced the acquisition of Visual BI Solutions Inc., a business intelligence and cloud analytics solution provider in the U.S. The acquisition has allowed Atos SE to expand its service offerings and cater to the increasing demand from clients for analytics in the cloud.

Cloud analytics solutions offer numerous growth opportunities as it allows enterprises to manage large quan-

tities of data by saving huge capital investment in hardware equipment and other tools. However, the increasing adoption of cloud technology is creating various data security problems, such as loss of industry-specific information and data theft creating concerns among enterprises of numerous industries.

Some of the most interesting findings from the research are summarised below:

In the component segment, cloud analytics solutions held nearly 68% of the revenue share in 2021. The growth is attributed to increasing demand for cloud analytics solutions such as cloud BI tools, enterprise information management, governance, risk and compliance, and enterprise performance management to gain insights

The private cloud segment achieved nearly 23% of the revenue share in 2021. The benefits, such as customisation of services and higher control as the cloud infrastructure are dedicated to a single user organisation that enables privacy and greater security, especially for large enterprises, are expected to fuel the growth

The SMEs achieved nearly 38% of the revenue share in 2021. The SMEs are adopting hybrid and public cloud as it is scalable, allowing for online and geographic expansion without impacting the budget

The BFSI segment held nearly 30% of the revenue share in 2021. The increasing competition in the BFSI sector has led companies to leverage cloud analytics to improve user experience.

Why Matter matters

Matter is the first attempt to bring together the biggest names in smart homes to develop a standard for secure, reliable interoperability for connected devices. However, Matter matters because it could go much further than just smart homes — it could be applied to all connected devices. This is according to Mike Nel-

son, the VP of IoT Security at DigiCert. Here he continues to explain the details of this new standard.

Up until now, device-to-device communication across brands has been lacking. But when Matter is widely available for smart home consumers, it means more compatibility with

more devices, making it easier to purchase a secure and seamless connected smart home, no matter the brand. But the benefits of seamless connected devices could expand far beyond smart home. It could enable smart cities and connected buildings to interoperate reliably and securely, connected health devices of various



brands to work together natively and even reliably connect devices in space.

Founded in the United States by the Connectivity Standards Alliance (CSA), Matter will be a global standard enabling secure, seamless digital connection around the world. Matter unified the connected device industry, including all the biggest names in smart home, like Apple, Google, Amazon and Samsung. It promises to be a reliable, secure seal of approval for connected devices to seamlessly integrate — which will benefit any market inundated with connected devices anywhere in the world.

Matter is more than just an initiative. Like Bluetooth, USB or Windows Plug and Play, it's a standard that will become a common name. You can imagine consumers shopping for a new smart thermostat, asking, "Does this device have Matter?" similar to how they might shop for speakers and ask, "Does it have Bluetooth?" In short, having Matter on your connected devices will be a differentiator on products of the future. Whether it's smart lighting, door locks, thermostats or home entertainment systems, Matter will enable consumers to simplify their connected homes and manage it all from a single voice assistant of their choice.

Matter could enable smart cities and build-

ings to be connected by design, without complex or disparate systems. That way, all of the connected aspects of buildings, from lighting to energy consumption and access, can seamlessly integrate and provide a holistic picture of information. Matter could also help smart cities and connected buildings become greener by better controlling the systems that activate power, water, lighting and emissions based on reliable data sharing within the connected ecosystem. In fact, smart energy systems already exist today that allow homeowners to monitor their water and electricity from a single in-home display. If these systems could be scaled to the level of cities, a standard like Matter for interoperability could allow for the management of various systems from one, centralised controller.

Imagine connected health devices that can communicate securely and reliably together. A smart hospital has likely even more devices than a smart home, with sensitive, critical data that administrators need to monitor quickly and securely. Within a healthcare system there are devices from all types of different manufacturers that need to work together to secure the transfer of sensitive data in a timely, reliable manner. These devices could include everything from patient monitors to smart beds, automated IV pumps and even

non-healthcare-related devices like the hospital's locks, thermostats and devices. In a connected healthcare environment, Matter would give hospital administrators greater control, security and an easier onboarding process for devices.

While it may seem a long way out that a protocol like Matter could impact devices in space, it has already been in use. The same protocol used for smart homes has been used in space to allow connected devices to communicate. The Zigbee protocol, also initiated by the CSA, was the wireless protocol of choice for transferring data between a NASA rover and a semi-autonomous flying drone. "It turns out that what makes Zigbee great for smart homes also makes it highly suitable for missions to the Red Planet," explained Thomas Ricker, reporting on the use of Zigbee on Mars. Zigbee uses a low-energy method that makes it ideal for both small smart home devices and devices out of this world. Matter will also run on low energy and — who knows? — it could be used by NASA in space as well.

These potential uses of Matter may still be several years out, but manufacturers of connected devices can prepare to become Matter compliant now. With compliant devices, manufacturers can issue the Matter logo on their devices so that customers can trust it to connect seamlessly and securely with their favorite products from brands like Apple, Google, Amazon, and all the biggest names in smart home.

"Digicert can help manufacturers become Matter compliant with the fastest time to market using our scalable management platform, Digicert IoT Device Manager," concludes Mike Nelson.

Leveraging SBOMs to Advance Security and Business Priorities

SBOMs can provide visibility into a more secure future, ultimately paving the way for previously untapped business priorities and more seamless operations. Organizations operate in

varying lines of business and fields. However, there is one common denominator for almost every modern business: Software use. It's reasonably safe to say that every company uses

software from many different vendors.

Operating systems like Windows, MacOS, Linux, iOS, and Android likely run on every one of your business



computers. Applications like office suites, mobile apps, and web browsers are installed on those operating systems. Even the cloud servers we connect to are all driven by software. Much of this software is made up of other software. Developers tend to use well-tested and trusted software modules to build applications. So when you buy a software application, it likely has code in it that was not written by your software developer. While it is beneficial to the consumer to have well tested software, it also can introduce bugs and vulnerabilities.

Including a Software Bill of Materials (SBOM) by software vendors allows software

consumers to have a deeper and more uniform understanding of their software assets. SBOMs can help business leaders achieve their desired organizational security — keeping their data safe — and, in turn, realize key business priorities such as increased security overall.

Apart from vulnerability management, the increased levels of transparency that come inherently with successful SBOM integration offer a world of possibilities into other ways your business can be transformed, while prioritizing a more secure future.

Across all functions, the additional insight SBOMs provide help

improve decision making around the external businesses with which your organization engages — and increased accountability makes for a more secure supply chain with more evenly distributed risk. The added accountability and visibility also creates a more reliable service for clients that could help to mitigate financial losses from outages. From an organizational outlook, mitigated financial losses make the business, as a whole, more efficient because of the reduction of unplanned and unscheduled work.

Through increased visibility — provided by SBOMs — organizations will be able to better protect themselves from cyber threats and vulnerabilities and will have increased line-of-sight into software utilized across the entirety of the business. This is even true for businesses that are traditionally more siloed, as leaders are now able to be more proactive and unearth untapped competitive advantages.

New research shows 90% of false alarms are down to faulty apparatus



According to the latest Home Office report, released recently, false alarms make up 98% of automatic fire alarm confirmed incidents in 2020/21; 90% of this figure is due to faulty apparatus.

The research from the Home Office, which was collated from Fire and Rescue services across the country from the last financial year, shows that just 2% of the incidents from automatic fire alarms were a result of an actual fire. Most of the false alarms could easily be avoided with proper maintenance and by ensuring the correct type of life safety product is installed for the environment in the first place.

Commenting on this latest report from the

home office, Mr Shin-suke Kubo, Commercial Director for Hochiki Europe, Middle East, Africa and India said "False alarms are a major problem across multiple industries, they have a significant impact on production and ultimately the economy. Building owners who choose to work with installers and manufacturers who understand that no two environments are the same will reap the benefits because the products recommended will be both fit for purpose and properly maintained"

The London Fire Brigade advise that if you are responsible for managing a property, it is important to make sure the fire alarm system installed is carefully considered for the type of premises and of course the occupancy.

Having said that, technology alone cannot eliminate false alarms. Other key factors must be considered to increase the overall "alarm reliability" of fire detection and fire alarm systems. These are design,

commissioning, and maintenance. If these are overlooked, then the reliability of a device will drop. It's also important to remember that over time, the use of a building may change or be adapted, any changes must be reflected in the design and maintenance of the fire detection apparatus installed.

"Multi-sensors could be the answer" continues Mr Kubo, "For complex life safety installation projects which have multiple usage scenarios, or are adapted over time, using intelligent devices can really help reduce false alarms. Modern devices which detect heat, smoke and in some cases, CO, can learn from their environments from the moment of installation. Our ACD multi-sensor which uses the S.M.A.R.T. algorithm to continuously monitor its surroundings, is used by our customers across multiple sectors from university accommodation, housing associations, theatres, and schools — all of which have seen a reduction in false alarms".

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