

SECURITY Update

CREATING BUSINESS OPPORTUNITIES



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

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Special Interview with Ashish P Dhakan, MD & CEO, Prama Hikvision India Pvt Ltd.



1. How has your growth been in the last couple of years as a brand? Has this growth been in sync with economic growth?

We have been able to add value as a brand in terms of product innovation, consistent quality and agile service support. Our 'Make-in-India' manufacturing facility proved to be a key factor in spurring growth and expansion of video surveillance market. In other words, we were able to match our market growth with the nation's fastest growing economy and upbeat market sentiment. The market expansion is happening due to a big surge in demand from across the verticals. The competition is on the rise due to various new players joining the fray. The security market is poised for an unprecedented growth due to



various factors related to Indian economy, infrastructure development and ongoing projects.

Hikvision as a brand is currently leading the market with the largest market share in the segment. We are com-

mitted to our ecosystem partners and end-users of consistent customer centric approach, product innovation, excellent quality and agile service support. We are a pure play business to business channel driven company based on growth, mutual trust and long term relationship. We are in a rapid expansion mode. We are grateful to our channel partners and end-users for their impeccable trust. We stand committed to the security professional community comprising of dealers, distributors, installers, system integrators and consultants.

2. What other verticals of the security industry are you planning to cover in the coming years?

Over the years, we have strengthened our position in the traditional vertical markets of Smart Cities, City Surveillance, Homeland Security, Real Estate, Banking Financial Services and Insurance (BFSI), Retail, Gems and Jewellery, Logistics, Transportation, Education, Pharma, Healthcare, Hospitality, Tourism, Heavy Industries and Oil & Gas, etc. With our vast experience and expertise in these verticals, we are developing highly specialized and customizable solutions as per the requirements of the end-users.

There are new verticals emerging along with the time and trends. The new verticals of the future are evolving with the technology and market trends. These newly evolving verticals are fast emerging E-Commerce, Logistic Hubs, Smart Mobility, Stat-up

Ecosystem, Smart Farming, Renewable Energy and Industry 4.0, etc.

3. What are the trends you see in the Indian Electronic Security Market in 2023?

The security industry has continued to shift, adapt, and develop in spite of challenges. Several trends have even accelerated. Beyond traditional 'physical security', a host of frontiers like AI, cloud computing, IoT, and cyber security are being rapidly pioneered by entities big and small in our indus-



try. By all appearances, the security industry is in a stage of redefining itself. It is moving from mere security and safety protections to encompass a wider scope of activity that will expand safety while also bringing new levels of intelligence and sustainability to communities, companies and societies. Here, Hikvision would like to share some of its ideas and expectations about the key trends that will likely shape the security industry in the future.

• AI will be everywhere

Nowadays, Artificial Intelligence is quite common in the security industry. More customers in the industry have recognized the value of AI, and have found new uses for AI applications in various scenarios. Along with ANPR, automated event alerts, and false alarm reduction, AI technologies are being used for wider applications, like personal



protective equipment (PPE) detection, fall detection for the elderly, mine surface detection, and much more.

• AIoT will digitize and pervade industry verticals

With more security cameras and other security devices being connected to the network, the security industry is becoming an important part of an IoT world, enriching its visual capabilities. It's apparent that the boundaries of the security industry are blurring, going well beyond the physical security arena. Meanwhile

the popularization of AI technology enables the connected devices to become intelligent "things" in the IoT world. The combination of AI and IoT, or as we call it, AIoT, is taking the security industry to a higher plain, automating the workflows and procedures of enterprises and aiding in the digital transformation of various industry verticals such as energy, logistics, manufacturing, retail, education, healthcare, etc.

From our perspective, AIoT brings more possibilities to the industry with rapidly expanding applications for security devices and systems. Meanwhile, more perception capabilities like radar, Lidar, temperature measuring, hu-

midity sensing, and gas leak detection are being added to security devices and systems to make them more powerful.

• Converged systems will break down data silos

Workers throughout private enterprises and public service sectors alike would jump at the chance to get rid of obstructive "data silos." Data and information scattered and isolated in disparate systems or groups create barriers to information sharing and collaboration, preventing managers from getting a holistic view of their operations. Here, the convergence of various information systems has been proven to be an effective approach – hopefully enough to break down

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MADE FOR INDIA • MADE BY INDIA • MADE IN INDIA



SECURITY WITH EVERY MOVE

Our PTZ cameras have the ability to detect movement within their field of view and track the person/vehicle. This can then be used to move the camera to keep the target in the center of the video frame. Once the target exits the camera's field of view, the camera returns to a pre-programmed position until further movement is detected.

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Dear Reader

As 2022 draws to a close, the economic outlook and sentiments in India continue to be upbeat while the global views and feelings are not as positive, or if I may say so, ...they are gloomy. And, China's sudden lifting of the world's toughest COVID restrictions recently after unprecedented public protests and which is now experiencing a spike in infections, with fears of COVID sweeping across its 1.4 billion population during next month's Lunar New Year holiday only adds to that gloom.

So, what does this mean for the global security systems industry?

Well, as per the reports coming in, largely, the system integration community believes that the market for them will be steady in 2023. If one sector goes down, opportunities in other areas will crop up. A recent survey shows that many believe growth will be steady, but nothing to rave about. The private security industry is believed to be recession proof. Even if new installations were to stop completely most companies could still continue servicing existing fire and security accounts and performing service calls on other systems. The apartment buildings will have tenants regardless of the economy, and their entry system will still need to work regardless. The hotel with a fire alarm will still be required to have it inspected and operating to code. And the retail customers will still need their alarms and cameras working more than ever as theft will only increase due to the current economic situation of inflation and layoffs.

The supply chain constraints in the availability of electronic components such as chips and other semiconductor devices, that I wrote about in my previous editorial/s to meet the demand from manufacturers, seems to be easing, and stalled projects are being completed. The security systems industry need not fear a recession.

However, the ones that will truly surge forward in 2023 will be the ones who innovate and adopt the latest technology to deliver greater value at lesser costs, and/or show an increased return on investment to their customers. The ones who can professionally install and deliver on time will flourish.

As cyber security becomes an increasing concern for security leaders, system integrators who acquire or develop talent with a deeper knowledge of cyber security, and can interact with the client IT and cyber security teams to ensure secure operations of the physical security systems will definitely have a huge edge over their competitors who do not have such knowledge and skills.

Lastly, as businesses rationalise costs, concerns, and approach to cloud migration, we can expect an increase in demand for ready-to-deploy hybrid-cloud appliances as the trend for secure and efficient hybrid cloud based access control and video surveillance systems grows. System integrators with offerings in this area are likely to gain traction in 2023 and beyond.

Lastly, as the time to bid adieu to 2022 draws closer, I would like to thank you for your support and wish you and your family a very happy Christmas and a prosperous New Year!

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



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SECURITY UPDATE is a focused educational publication on protection technology, products and solutions. It reaches the business community of manufacturers, distributors, dealers, installers, integrators and consultants of security, fire and safety systems. Printed monthly as a lightweight tabloid, it is easily carried and read on the move, reaching the remotest corner of India, even where the internet may not have reached!

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Camden's SureWave CM-336 Series and CM-333 Series can now be surface mounted



Camden Door Controls has announced that SureWave™ CM-336 Series (battery-powered wireless switches) and

CM-333 Series (battery-powered relay output touchless switches) can now be surface mounted utilising Camden's new CM-23DSER narrow surface box.

This mounting box features a two-piece flame and impact-resistant ABS construction. Extra deep narrow surface mounting boxes can be purchased separately or as part of Camden's SureWave™ CM-336

Series switch kits. These kits include (2) CM-336/42N narrow stainless steel switches, (2) CM-23DSER surface boxes, and a CM-RX-90 relay receiver. CM-336 narrow SureWave™ switch kits are in stock and ready for order.

The CM-336 Series of battery-operated 915MHz wireless switches recently joined Camden's SureWave™ line of touchless switch-

es and feature a Lazer-point™ RF transmitter that's been proven in thousands of installations.

More than a single product line, Camden offers the industry's widest range of no-touch switch models to supply the best solution for any project – from new construction to retrofit!

Comelit-PAC launches 'game changing' IP access control – 1 Door Controller



Comelit-PAC is expanding its PAC Access Control Range with the launch of the 511DCi IP One Door Controller. The feature-rich access controller comes with high security as standard and the renowned quality that is to be expected from the company that

pioneered proximity access control.

The new PAC IP single Access Door Controller has been designed with equal capability of the unrivalled 512 DCi 2 door controller, with the advantage of supporting one door rather than two, on either a read in/

read out or read in/request to exit basis.

Available installation-ready in either an Enclosure with 50W PSU, or as a DIN Mount option, it is fully integrated into a PAC eco-system. It supports a wide range of integrations with third party products and readers and has been specifically designed to work with alarm, fire safety and building systems.

The 511 DCi 1 Door Controller supports a vast range of reader, card and token formats, including PAC OPS – PAC's market leading Anti-Cloning Technology. It has also been designed with inbuilt intelligence for offline working continuity, presenting powerful reliability, backed with a long-life and five-year warranty.

As standard, this 1 door controller comes with PAC's exclusive One Touch Test feature to allow single engineer commissioning, and a 5 second test confirming all cabling between the controller, reader, and lock is correct and working.

Key features include its expansion capability via either additional network points or by utilising PAC's 485 Bus with 512 DC controllers allowing up to 47 doors from one IP point locally. Overall, a PAC Access Control System can support more than 2,000 Doors, and up to 75,000 Cardholders, making it suitable for installations from a single door, all the way through to large enterprise level systems.

Invixium announces the launch of IXM VERTU access control reader capable of reading RFID cards



Invixium, a premier manufacturer of innovative touchless biometric solutions, announces the launch of IXM VERTU, a modern access control reader capable of reading RFID cards along with

mobile credentials via BLE or NFC from up to 8 cm away.

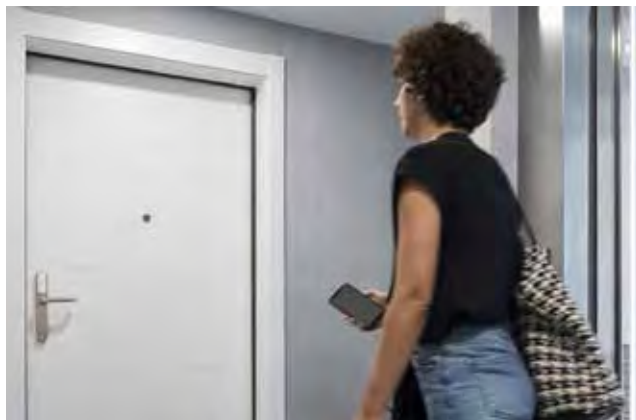
Installation takes mere minutes and configuration is easily completed for Wiegand or

OSDP through a configuration app. For clients that already have an access control software solution, IXM VERTU can seamlessly be added to their existing access control system.

VERTU's rich combination of features is built into a sleek, elegant two-tone enclosure that can be easily mullion mounted in small spaces and door frames, complementing any new or existing décor.

Its IK08 impact and IP67 ingress ratings allow IXM VERTU to be installed indoors or outdoors. The durability and appealing design of VERTU make it a great choice for businesses of all sizes and industries.

SALTO Systems launch SALTO Homelok, an all-in-one smart access solution for residential living



SALTO Systems, a globally renowned company in smart electronic access control solutions in the hospitality and commercial industries, is launching a groundbreaking new platform aimed at the residential market.

SALTO Homelok is set to revolutionise residential living with its all-in-one solution that integrates smart access control technology, hardware, cloud software, digital keys, a smart living ecosystem, and global service support.

SALTO Homelok will provide smart access control solutions across the residential market, from multi-family to single-family housing, vacation rentals, and home care/assisted living establishments. SALTO Systems' electronic locking solution is modern and easy to install and maintain, without the cost and complexity of traditional access control solutions.

Homelok uses digital access technology, rather than mechanical keys, and can be accessed from anywhere – allowing property management activities to be streamlined and carried out more efficiently.

Homelok delivers the smart living experience by providing a convenient and digital experience for residents, enabling seamless keyless access and management capabilities for day-to-day living. Homelok utilises cutting-edge, innovative, and reliable SALTO SVN data-on-card technology from a high-value, versatile, and globally-compatible product range that will continue to evolve into the future to support any developing access control requirements.

Homelok delivers a core smart access solution within the Smart Building Ecosystem, by working with world-class technology partners and property management systems (PMS) providers.

SALTO Homelok is an open platform that can be fully integrated to meet the growing demands for connected home living, as well as enable greater control and visibility across property management systems.

Homelok gives the reassurance of robust 24/7 security and unmatched data protection and privacy using a unique combination of cloud-based and smart stand-alone access technology to create a market-defining level of safeguarding.

SALTO has developed advanced and aesthetically-designed residential-specific electronic access control solutions that set a new standard in the industry – from building and perimeter access, common area organisation, to unit door management – with one easy-to-use system for residential properties of all types and sizes.

From the numerous smart access electronic locking solutions (hardware products) to user-centred cloud-based software to an industry-renowned digital keyless experience, SALTO provides the ultimate all-in-one smart access experience for residents and property managers. Through SALTO's Homelok platform, users are now able to add their resident keys to Apple Wallet, allowing residents to unlock SALTO smart locks with a simple tap of an iPhone or Apple Watch.

NOW CONTROL YOUR SECURITY FROM WHEREVER YOU ARE

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CREATING ALARMS

JA-100+

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- Notifications with 3 layers of backup via integrated GSM/GPRS/LAN
- SMS & voice reports from the system to up to 15 users
- Panic & duress modes
- Integrate with CCTV cameras
- Programmable outputs for lights & other automation
- 20 independent calendars to schedule automatic events
- Remote control the system via web/mobile app/call/sms
- Detailed reports pinpointing the individual device
- Door lock control with RFID card
- User friendly keypads with control segments

APPLICATIONS:
HOMES, OFFICES,
BANKS, FACTORIES,
BOARD ROOMS,
LABS, R&D CENTRES,
SHOPS...

- Dealer Enquiries Solicited
- Full Product Training Provided



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Matrix introduces COSEC ARGO



Matrix COSEC ARGO is an engineering feat designed with high-performance standards that revamps various organisations' lookout towards security concerns, including securing their assets and employees. With the peak technological intelligence of the age, this biometric door controller, with a 3.5"

IPS Touchscreen LCD and a sleek look, gives a visually impacting experience.

With a super upgrade from the conventional devices available in the same range in the market, Matrix COSEC ARGO is a device that revolutionises security and productivity in an organisational frame-

work. Flaunting higher processing speed, wall and flush mounting options, and increased fingerprint and event storage capacity, it suffices the needs of every organisation.

With multiple connectivity options including Bluetooth, Wi-Fi, PoE, and USB, and certifications of IP65 and IK06, this device becomes a suitable option for installation in challenging environmental conditions.

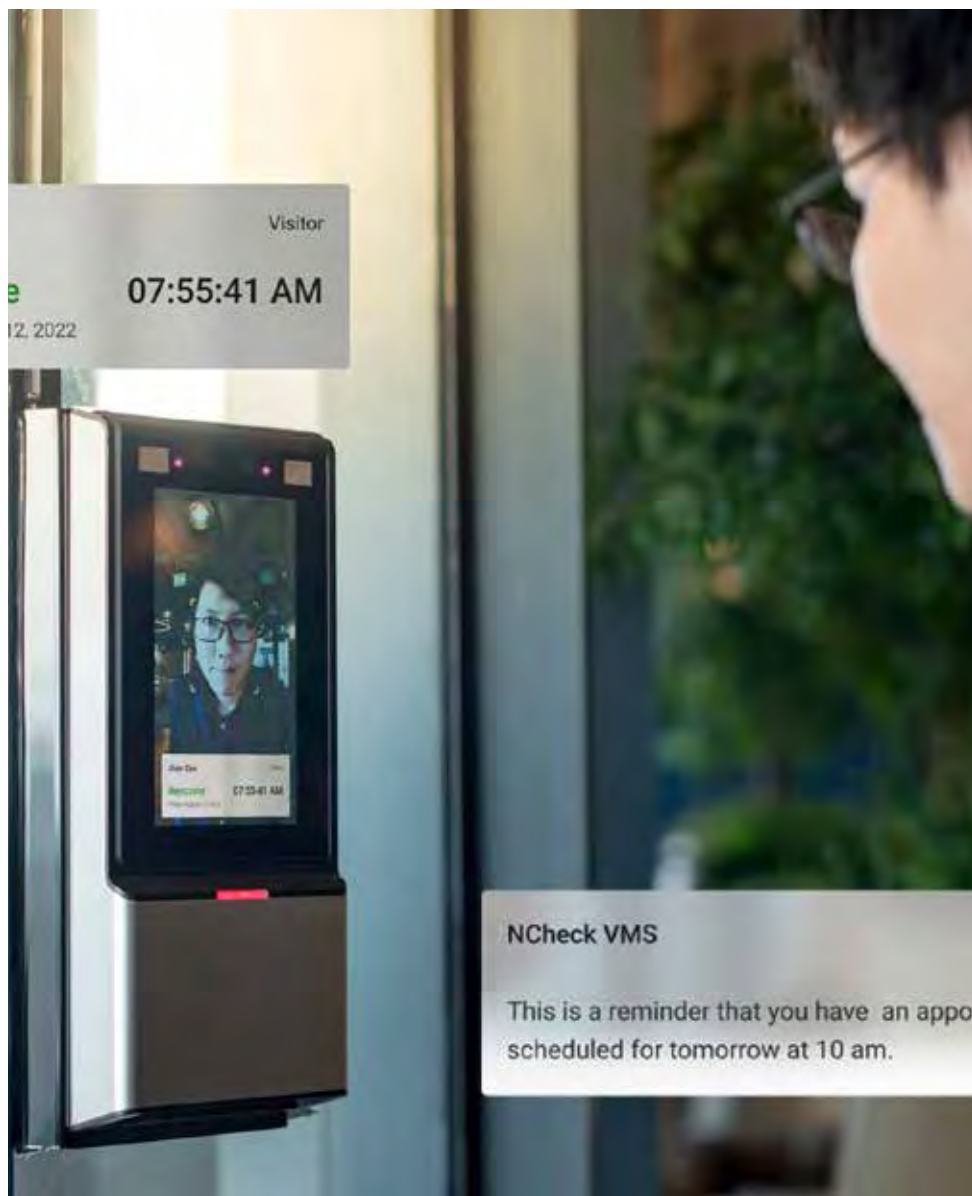
It is a device that easily syncs with multiple solutions such as Access Control, Time-Attendance, Cafeteria Management, and Job Processing & Costing.

This helps to eliminate any additional needs for dedicated hardware for individual solutions.

Key features

- Multiple User Credentials - Fingerprint, BLE, RFID, PIN
- High Storage Capacity - 50,000 Users Profiles, 25,000 Fingerprint Template, 5,00,000 Events Storage
- Certified protection against Ingress and Vandalism
- Ethernet, WiFi, PoE, BLE, USB, 3G/4G/LTE Connectivity
- Multiple Interfaces - Weigand, RS-232, Exit Switch Interface, Door Lock Relay

Neurotechnology NCheck visitor management system



Neurotechnology, a provider of deep learning-based solutions and high-precision biometric identification technologies, has announced the release of the NCheck Visitor Management System (VMS). This user-friendly solution uses biometric identification from live video feeds to provide both security and efficiency in managing appointments and granting access to public and private buildings, healthcare and financial institutions, campuses, residences, and other venues that require authorised user, member or visitor access.

NCheck VMS is a solution, powered by award-winning algorithms, that recognizes users via a live video feed and authorises access. It provides secure access control and smooth visitor handling features, including:

- Multiple biometric modalities support
- Automatic electronic pass generation
- Presentation attack detection (e.g., liveness vs. spoofed attempts)
- Comprehensive reports and real-time visitor analytics
- Online pre-appointment management

NCheck VMS is built as a flexible and reliable solution that can be customised to almost every client. Enabled with an easily configurable structure, this system allows for adaptability to a wide variety of application scenarios, including locations with requirements for:

- High user volume – The high speed of the biometric recognition algorithms is suitable for visitor management systems where numerous people need to be registered quickly.
- High productivity – Because of the high degree of accuracy in the identification offered by biometric technology, quick and convenient person identification is ensured. Such a feature saves the users time and other resources, therefore, the system is suitable for locations where correct identification and efficiency are paramount.
- Contactless and safe environments – The adoption of contactless biometric authentication with face or iris modalities ensures personal safety and hygiene standards. The algorithm can identify an individual even when they are wearing face coverings,

such as face masks.

Due to the efficiency, security and easy integration with existing visitor management systems, NCheck VMS can be adapted to many industries, including:

- Education (schools, universities, campuses, museums, libraries).
- Residences (access control for apartments and condo buildings)
- Corporate office buildings (shared workspaces)
- Legal sector offices
- Construction sites
- Medical sector (patient admission, hospitals, age care visits),
- Hospitality (Hotels, restaurants, and leisure)
- and others

NCheck VMS provides multibiometric functionality without the need for a full system replacement and costly hardware upgrades. Depending on visitor management needs, several pricing options are available both for NCheck visitor management Cloud and On-premises systems. In case of special requirements for the system, custom solutions can be developed to meet specific business needs.

Hikvision's new 1080p HD outdoor wi-fi smart doorbell boasts upgraded features for 24/7 reliable protection



Hikvision, a manufacturer and supplier of security products and solutions that deliver the ideal combination of high performance and extreme value, introduces its new 1080p HD Outdoor Wi-Fi Smart Doorbell (DS-HD2) for superior front entrance security. Equipped with upgraded motion detection sensors and enhanced long-range infrared night vision, this new video doorbell of-

fers reliable protection, day or night.

Hikvision's Outdoor Wi-Fi Smart Doorbell comes equipped with a 180-degree vertical view and full 1080p HD resolution for crisp images. Additional features include long-range infrared night-vision up to 19.7 ft, 2.4/5 GHz dual-band Wi-Fi connectivity, and a MicroSD slot for local storage of up to 256 GB.

The 1080p HD Outdoor Wi-Fi Smart Doorbell also offers customisable features, such as advanced motion/human detection, allowing the user to customise and manage the camera's detection area. Additionally, the easy-to-install doorbell includes interchangeable black, grey, or white faceplates that can be easily changed at any time to match the décor.

Vintra Guard module AI-assisted access control



Vintra announced a new module for its Vintra Fortify platform designed to automate and simplify the management of existing manual security processes at mission-critical locations.

Vintra Guard, available as an additional module for Vintra Prevent, enhances real-time monitoring and enterprise alerting by incorporating video-based identity verification for access control management.

Initially integrated with the C•CURE 9000 Security + Event Management System (other access control integrations will be introduced in 2023), Vintra Guard will automate two-factor identity verification for C•CURE users, incorporating class-leading video analytics into a powerful access control system in order to automatically detect unau-

thorised access across a campus facility, remove the manual review of access control events and better protect people, places and things.

Vintra Guard will automatically review all access events at a given point of entry, using facial recognition to verify the identity of the person that used each credential in order to find any unauthorised credential usage. If a badge is used by an individual that is not the actual credential holder, an alert will be generated, available within the Vintra Fortify platform or sent to leading VMS platforms such as Genetec or Milestone.

Given a potential breach, Vintra Guard users can quickly perform either a Live Re-ID or post-event Re-ID, Vintra's unique search feature that can then quickly locate any potential offender in seconds

across any of their connected cameras. Vintra's Re-ID feature provides valuable, timely situational awareness, illustrating an individual's journey throughout the facility, their current location and information needed to quickly mitigate the situation.

Vintra's Re-ID technology is effective using either facial recognition or via a body appearance search, providing a simple yet comprehensive approach to protecting both privacy and security.

As a result, Vintra Guard frees up key personnel dedicated to manual identity verification efforts, adding an AI-powered second layer of security that ensures all access events are properly verified and enabling security teams to better fortify an entire facility.

SATO and Loftware unveil world's first cloud-based RFID encoding and logging solution with NiceLabel Cloud



SATO and Loftware announced the launch of the world's first cloud-based RFID tag encoding and logging solution.

The solution, using SATO RFID printers, tags, and Loftware's NiceLabel Cloud software is designed to meet the strictest track and trace, brand authenticity, and authentication needs for manufacturers.

The first-to-market solution logs the EPC and unique tag ID for every tag encoded, enabling "closed-loop" tagging. By logging and mapping the EPC and unique ID to the database via NiceLabel Cloud, the SATO solution automatically keeps a unique record of every tag after encoding and allows users to know exactly which factory, country, and printer generated it.

Loftware NiceLabel is available on-premise and in the cloud. Customers may start with an on-premise solution and then migrate to the cloud as they scale their labelling across applications, facilities, and countries.

In addition to central data management, this extra layer of automation provides compliance with traceability requirements and eliminates the possibility of counterfeits. It complements the suite of RFID products already available for item-level traceability.

In the US, EU, China, Japan, and more, an

increasing number of medical devices must carry a unique device identification number (UDI) to adequately identify devices implanted into the body.

Serialisation is a critical tool for regulators in many countries to prove the validity of pharmaceuticals. It also allows manufacturers to track and trace individual items back to their origin — the factory for supply chain visibility and to know if a given item is authentic or counterfeit.

Combating counterfeit items is also critical for brands as they seek to prove the authenticity of their products. In 2021, Amazon alone identified, seized, and appropriately disposed of over 3 million counterfeit products targeted for sale to consumers. Counterfeits are a risk to e-commerce players, manufacturers, and consumers alike, and the global anti-counterfeiting packaging market is expected to grow by 45% between 2018 and 2026.

"With today's "always on" supply chain, large enterprises print and encode millions of tags annually across multiple facilities," said Paul Vogt, Loftware Vice President Channel and Alliances Strategies and Programs. "As a result, they require a globally integrated platform like Loftware's NiceLabel Cloud for central data and print management."

"Manufacturers are

constantly seeking ways to improve their data utilisation for digital transformation to give visibility across their supply chain, and this new layer of traceability will drive efficiencies and enable more sustainable operations," added Yoi-chi Abe, Vice President of SATO Holdings Corporation who oversees SATO's global business.

The SATO CT4-LX desktop printer and CL4/6NX Plus industrial printer line are compatible with the Loftware NiceLabel Cloud RFID tagging solution.

Key benefits

- 100% data match

Links physical tags to the data so that wherever the tag is scanned, it can be authenticated and the associated product, carton, or pallet can be located.

- Error identification

Identifies any tags that failed to encode for immediate quarantine and retagging.

- Centralised control

Integrates with users' central RFID data so that authorised users across the whole supply chain can access the single source of truth.

- Logging

Using SATO's unique AEP functionality, the printer automatically logs which RFID tags have been encoded, not just the data sent to the printer (critical for item-level management).

OPTEX launch new FlipX Advanced sensors for high-security environments



Following the successful EMEA rollout of its FlipX Standard indoor sensors in September, OPTEX, the sensor manufacturer, has announced the launch of its new Grade 3 FlipX Advanced series.

OPTEX FlipX sensors feature a bespoke pyroelectric sensor for increased performance that adapts to the human shape, and a unique lens that can be 'flipped' to provide both wide and narrow detection in a single sensor.

By simply rotating the lens through 180°, the sensor can be used to protect narrow or long areas such as a corridor or warehouse aisles up to 24m, or a wide, open area like a lobby or a high-value retail store to 15m at 85°.

In addition, to provide a higher level of security, the Advanced models feature intelligent IR-Antimasking, which protects both the

PIR and microwave sensors, generating an alert if they are covered.

It's also equipped with additional algorithms to ensure stable detection and reduce 'false' alarms. Double conductive shielding means nuisance alarms caused by changes in light, temperature, or Radio Frequency Interference (RFI) can be avoided.

FlipX Advanced sensors also feature a 'super high PIR sensitivity' mode, which when set, enables the sensors to maintain stable and highly reliable detection even when the temperature difference between the human and the environment is very small, this ensures greater catch performance for high-security, high-risk sites where missed alarms are unacceptable.

The sensors feature a sleek and compact design, with flexible mounting height options

(between 2-3m) meaning they seamlessly blend into building aesthetics and buildings with higher ceilings. For quick and simple installation, FlipX Advanced has an easily viewable LED, a terminal block for easy wiring, and an EOL plug-in resistor socket.

FlipX Advanced is available as a PIR model – FLX-A-AM and for more challenging indoor environments as a dual-technology (PIR and microwave) model – FLX-A-DAM. The latter is equipped with OPTEX's robust Tough MOD 2 microwave module, ensuring the durability of the sensor in challenging environments, particularly humid climates, and higher levels of capture performance by tailoring the microwave to the PIR detection area. Following the launch, OPTEX plans to release further models in the FlipX series in early 2023.

The Assmann Group unveils new smart security cameras under its own brand - Digitus for indoor and outdoor use



The Assmann Group presents four new security cameras of its own brand - Digitus for indoor and outdoor use. All models can be easily integrated into smart home environments and are controlled via voice assistant. They score with motion detection, a wide-angle lens, day and night mode, and numerous other functions.

With the new product quartet, Assmann offers reliable surveillance technology for security, according to the latest technical standards, covering all conceivable application scenarios.

Whether in one's own home, in the garden, in the garage or as a baby monitor - with the new Digitus security cameras from Assmann Electronic GmbH in Lüdenscheld, do not miss a single detail in the surveillance area.

The four devices for indoors, outdoors (with LED floodlight) and the doorbell area can be easily integrated into an existing smart home environment, in just a few steps. They connect automatically to the smartphone or other smart home devices via WiFi.

The cameras can be set up and controlled via the free Smart Life app (Tuya) and can even be controlled via voice assistant (for common smart home solutions, for example from Amazon or Google). This allows users for example to display the camera image on their mobile device

via voice command.

All cameras have an integrated motion detector. When it is triggered, it sends a push message within seconds. Thanks to the infrared function and automatic switching from day to night vision, users have a clear view even in absolute darkness (day and night mode).

The two-way audio system ensures good sound reproduction and an integrated micro SD card slot allows additional video recordings, which can be accessed at any time.

This enables Digitus' security technology to collect valuable evidence, for example in the event of theft. A wide-angle lens always keeps even large surveillance areas in view - with optimal Full HD resolution.

The Digitus cameras in detail:

- The smart full HD PT indoor camera with auto tracking, WiFi and voice control (DN-18603) is rotatable and tiltable (355°/90°), and offers full HD video resolution (1080p) with night vision mode, auto tracking (motion tracking) and a wide angle of 100°. The camera is suitable for indoor surveillance of all kinds, as well as for baby or pet monitoring.

- The smart Full HD PTZ outdoor camera with auto-tracking, WiFi and voice control (DN-18604) was especially designed for the monitoring of houses,

gardens, garages or carports. It is also rotatable and tiltable (355°/90°), scores with a wide-angle lens of 85° in Full-HD and also features auto-tracking. The model is weatherproof (IP65) and suitable for wall installation. The dual-LED illumination guarantees optimal night vision: up to 50 metres in colour.

- The smart Full HD doorbell camera (DN-18650) features an integrated PIR sensor that reports movements in front of the camera via push message directly to the smartphone. Thanks to the wide-angle lens with 120° in full HD resolution, not a single detail in front of the front door remains hidden.

- The weatherproof (IP66) doorbell camera allows battery operation and has a radio bell with over 60 ringing melodies. It can be installed on the wall and guarantees a viewing distance of up to ten metres in night vision mode.

- The smart Full HD outdoor camera with LED floodlight, WiFi and voice control (DN-18602) is equipped with 21 ultra-bright floodlight LEDs and a wide-angle lens of 90° with Full HD resolution. Automatic switching from day to night vision provides a clear view even in total darkness. This camera also enables two-way audio transmission and achieves a viewing distance of up to ten metres in night vision mode.

Bosch FLEXIDOME IP turret 3000i IR



Bosch FLEXIDOME IP turret 3000i IR camera surprised right from the start with its sure-footed performance in variable lighting conditions that moved between deep shadow and glaring backlight.

Initial settings are close to default for the test - sharpening is elevated, and backlight compensation is on, while intelligent dynamic noise reduction and dynamic sharpness and noise filtering are both activated. With these settings, the camera shows off excellent all-around performance during daylight hours in good light.

Bosch FLEXIDOME IP turret 3000i IR is a solid camera, well-built and with plenty of smart functions, including on-board analytics and clever event reporting. The FLEXIDOME IP turret 3000i IR has built-in infrared imaging enabling high-quality images even in complete darkness, preferable for outdoor applications when securing areas with low light conditions is especially important, such as building perimeters, dark corners, or loading docks.

In SE&N's review, they said: FLEXIDOME IP turret 3000i IR, the test camera was the NTV-3503-F02L, a compact turret with a modest current draw offering solid round performance, that's best in lowish light. The camera has serious resolution and a monster 120-degree angle of view, due to the squat 2.3mm focal length of its moderately fast fixed lens.

This version of the 3000i turret features Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments, intelligent defog, video content analysis with rule-based alarms and tracking, line crossing, enter/leave the field, follow the route, loitering, idle/removed object, people counting, crowd density estimation and 3D tracking.

Additional functions include privacy masking via 8 independent areas, fully programmable display stamping of name, logo, and time, as well as alarm messages and pixel counter of selectable areas.

The camera's internal RAM can store up to 5

seconds of pre-alarm recording, while a microSDHC/microSDXC SD card slot supports a 1TB card for more complex automatic network replenishment (ANR) edge recording requirements. The camera has a built-in microphone to allow operators to listen in on the monitored area. Audio detection can be used to generate an alarm if needed.

Adjustable picture settings include contrast, saturation, brightness, white balance (2500 to 10000K), 4 automatic modes (basic, standard, sodium lamp, dominant colour), manual and hold mode, the video functions include ALC, there's automatic electronic shutter (AES); fixed shutter from (1/30 to 1/15000) selectable and default.

Users can select day/night auto (adjustable switch points), colour, monochrome, video functions enhance, there's selectable sharpness enhancement, backlight compensation, and contrast enhancement.

Axis launches long range heavy duty PTZ



Axis Communications has launched a robust PTZ camera ideal for wide and long-distance surveillance. This heavy-duty camera meets the MIL-STD-810G standard, ensuring reliable operation in the toughest conditions.

Axis Q6225-LE offers HDTV 1080p resolution and a very light-sensitive 1/2" inch sensor with 31x optical zoom.

Featuring Forensic WDR, Lightfinder, and long-range Optimized IR, it ensures sharp, clear images in any light conditions. In addition, high-speed pan/tilt performance ensures exceptional coverage of large areas and great detail when zooming in.

This camera offers high-performance and is packed with built-in analytics such as Axis Mo-

tion Guard, Axis Fence Guard, and Axis Loitering Guard for detecting motion, intrusion, and loitering. Axis Object Analytics also makes it possible to detect and classify people and vehicles.

Enclosed in a vandal-resistant IK10-rated casing with NEMA 4X, NEMA TS-2, and IP66/IP68 ratings, this heavy-duty camera is able to withstand winds up to 245 km/h (152 mph). Furthermore, it includes a Trusted Platform Module (TPM) that is FIPS 140-2 level 2 certified.

AxxonSoft Introduces the new Axxon One VMS 3xLOGIC announces release of new edge-based analytic cameras



AxxonSoft upgrades its product line by introducing the new Axxon One VMS which offers an extended integration capacity, high-performance AI video analytics, intelligent search in recorded video, and unlimited scalability.

From the very beginning, AxxonSoft considered integration a key element underlying its product development. AxxonSoft software offered leading-edge capabilities through support for the newest IP devices and their unique features, and via the seamless integration of video analytics.

Axxon One advances in integration and then goes even further. Along with the integration of 10,000+ IP device models, it supports the latest ONVIF Profile M proto-

col that provides a standard way to communicate metadata and events between analytics-capable devices and services.

In addition, Axxon One enables combining smart cameras with its own AI video analytics, which helps build flexible and cost-effective intelligent solutions, utilising both edge devices' and server computing power to their fullest extent.

On top of that, Axxon One video analytics is optimised for maximum performance when using either CPU or GPU. In terms of functionality, the first Axxon One version is VMS which comprises video surveillance, video analytics, and intelligent search.

The new Datacenter Domain Unification feature provides limit-

less scalability by integrating any number of distributed sites into a single system, with centralised management and reporting. Moreover, Axxon One integrates AxxonSoft AI analytics enhanced with vehicle model recognition, its main application is quickly finding a car of interest in video footage when the licence plate number is unknown.

In line with AxxonSoft integration philosophy, Axxon One plans to evolve to a Unified Physical Security Management Platform. The next version will introduce the support for access control, fire/security alarm, and perimeter intrusion detection systems, extending the production capacity to a higher, unified security class.

Axxon One offers four editions. For instance, Axxon One Unified, primarily aimed at implementing large, distributed security systems, features the Datacenter Domain Unification tool and plenty of included video analytics options.



3xLOGIC, Inc., a provider of integrated, intelligent security solutions, announces the release of new edge-based analytic cameras, adding to its powerful, diverse line of IP cameras.

Businesses of all sizes that seek further insights into their day-to-day operations in order to streamline efficiencies and better understand their customers' needs will want to include the new 3xLOGIC edge-based analytic cameras in their video security plans.

The Outdoor Dome, Edge-based Analytic camera comes equipped with powerful edge analytics functionality built in for deep learning object detection and people tracking. The camera's on-board analytics can be combined with features in VIGIL Server's Advanced Reporting engine to support a wide range of security and surveillance applications, such as object detection, people counting and dwell time.

Edge-based cameras give end users all the tools needed for edge-

and server-based business intelligence. Data on customer dwell time, line queue lengths and times, and people counting analytics, as well as many other data points enable the end user to make better-informed business decisions.

In retail environments, combining edge-based analytics with the 3xLOGIC VIGIL Server's Advanced Reporting engine and POS integration provides all the tools needed for a powerful, versatile, server-based business intelligence solution.

Hanwha launches new anti-ligature camera



Hanwha Techwin has launched the TNV-7011RC, a compact and anti-ligature corner mount camera that offers a wide field-of-view (FOV) up to 3MP resolution and 30fps. The camera is the latest addition to the Wisenet T range, which is designed for challenging environments.

The TNV-7011RC offers a compact and aesthetically attractive design that fits neatly into room corners and lifts,

and it is built to make it impossible for ligatures to be tied around it or for it to be easily ripped off a wall. The camera comes with Hallway View to enable operators to monitor tall and narrow spaces like corridors. It additionally features Dark IR 940nm of up to 10 metres, to help with monitoring very dark areas.

Wide Dynamic Range (WDR) in the Wisenet T series cameras captures 4 frames at different ex-

posure levels to create a combined, clear, and vivid image even in environments with strong backlight conditions.

A range of in-built Intelligent Video Analytics support operators to quickly detect different types of incidents including tampering, motion detection, loitering, sound detection, virtual line, and enter/exit. The analytics also detects focus and defocus, ensuring clear images are relayed consistently to operators.

Wisestream II compression technology, when used with the H.265 codec, enables storage and bandwidth savings of up to 75% when compared to the use of H.264 video compression alone. It also dynamically controls encoding, balancing quality and compression according to movement in the image.

Teledyne FLIR launches compact thermal camera for use in hot working zones



Teledyne FLIR has announced the launch of the FLIR Cx5, a new pocket-portable thermal camera for condition monitoring in hazardous environments. The FLIR Cx5 has a rugged ATEX-compliant case, which allows users of this camera to safely monitor electrical or mechanical assets in hot working zones.

Potentially explosive environments, such as oil and gas plants or chemical plants, need to be protected from ignition sources. That's why electronic devices used in these hot work environments need to comply with ATEX.

Product Regulations or similar regulations (e.g. UKEX and IECEx).

The 160 x 120-pixel FLIR Cx5 is mounted in a rugged enclosure, which enables users to work confidently while maintaining safety.

The FLIR Cx5 is not only explosion-proof, but it's also compact and very easy to use. This allows maintenance professionals to always have their camera at hand, find hidden issues quickly, and reduce diagnostic time.

The FLIR Cx5 camera has all the ruggedised features that will enable it to survive the toughest day on the job. The FLIR Cx5 case has shock absorbers and the lens is protected by a Germanium window with anti-reflective coating. The

3.5-inch colour display is protected by armoured glass and is touchscreen compatible. A rugged lanyard point can be removed in safe environments to reach the data storage and charging port.

The FLIR Cx5 features a FLIR Lepton® thermal imaging sensor and FLIR-patented MSX® (Multi-Spectral Dynamic Imaging) technology, which embossed visible scene details onto thermal images. This results in a crisp thermal image, enabling inspectors to pinpoint hidden problems instantly.

FLIR Cx5 is compatible with FLIR Ignite, a secure cloud storage solution that allows users to directly upload, edit, organise and share their images. With all images and videos in one place, sharing data with team members and creating reports for customers is convenient and simple. FLIR Cx5 users can also rely on the FLIR Thermal Studio software to finetune their images and create professional reports.

Jacksons Fencing installs robust perimeter security solutions for West Midlands Data Centre



Every year, more data storage is required to meet the demands of Britain's expanding population. With this, security is essential to comply with privacy regulations, avoid information loss, and safeguard against terrorism and espionage.

As the need for a West Midlands data centre increased, a robust perimeter security solution was essential, particularly following the development of leisure facilities adjacent to the site. Fencing, gates, access control, and automation were installed to create a strong perimeter system.

The data centre is situated on a large, multi-occupancy green field site, as such a number of trees and shrubs had to be removed and the grounds made level to prepare for the works. In keeping with Jacksons Fencing's environmental credentials, new saplings were planted to replace those that had been removed.

Correct preparation is key to ensure that installations can be implemented safely while also making sure no utilities are disrupted when digging. In this case, a full underground radar survey was conducted to prevent potential incidents and a new mains power line was connected to the locations requiring a supply as a result of the installation.

When the foundation work was finished, instal-

lation of the fencing and gates commenced. In order to secure the perimeter and create a safe and long-lasting boundary, 296m of 2.5m high Barbican Defender® Xtreme fencing was installed. This features a vertical bar fence design and cranked panes, providing a strong anti-climb solution without the need for additional barbed tape or spikes. The sheer height of the fencing solution also reduces the temptation of unauthorised trespassing.

A break-in could result in a threat to public safety, therefore tamper-proof fixings and concealed anti-vandal panel to post connectors were a vital addition to the project, to prevent any attempts to get through the fence. These design features create a strong and secure fence whilst still providing a smart aesthetic, creating a welcoming entry point for clients and staff. Manufactured from tubular steel which is hot dip galvanised, the fencing is strong and light therefore, making installation and transportation easier.

To provide efficient and safe access and traffic control, several gates were installed, including a 6m wide automated Double Leaf Bi-Fold Speed Gate with traffic lights. Additionally, two dual-height access control posts were fitted; the integrated entry and exit systems use video inter-

coms and card reader systems at both car and lorry heights.

Four manually operated 1.2m wide single-leaf gates were installed; two with keyed entry and emergency push pads on the secure side of the gate for emergencies, and the other two featuring self-closers and magnetic locks with shrouded exit push buttons and an entry card reader system.

A safe pedestrian entrance was installed via a 180° full height turnstile, which features a two-way audio intercom and keypad for entry, and a shrouded push-button for exit.

These fencing, gating, and turnstiles solutions all benefit from a 25-year guarantee and polyester powder-coating in green presents a welcome appearance for visitors and employees; ensuring it blends in with the surrounding area and stays looking good for years to come.

It also limits the risk of repairs and replacements due to enhanced protection against rust, which is more common with low-quality, ill-prepared fencing. Opting for a cost-effective, long-life product with a high-security rating, ensures that the site's boundary is well protected, not only from potential trespassers but also from vandals intending to cause damage.

Gallagher secures the University of Exeter



The University of Exeter, located in the South West of England, recently remodelled their engineering workshop within the Harrison Building to support the delivery of engineering education for the future – ensuring students have access to the best possible facilities.

The updated facility mimics what students will find in many modern industrial settings with state-of-the-art, multi-functional equipment – including semi-automated milling machines, lathes, guillotines, and bandsaws. The workshop also includes a new, fully equipped vehicle assembly area to support Formula Student, where students can design and build a race car and compete nationally with other university teams.

The University required an easy-to-use system that would allow access to the machines based on the competency of the user, ensuring they could only be operated by students who had received adequate training. Not only did they need to ensure users had the correct competencies to start the machine, but they also needed a means of isolating the machine af-

ter use to ensure the safety of others in the facility.

Gallagher Certified Channel Partner, Scutum West, worked with Gallagher to implement an access control solution that restricts machine access to only those students trained to operate them. Gallagher T12 Readers and MIFARE card hold slots were installed at each machine, requiring students to badge their access card at the reader before placing it in the holder to activate the machine. The solution utilises Gallagher's competency function, which aids in the safety of the cardholder with access to specific areas or machinery restricted to only those who meet defined criteria.

Scutum West Systems Design Engineer, Adam Cowling, explains: "When a student presents their card to the reader, Gallagher Command Centre grants or denies access to the machine based on whether the student has the correct competencies recorded. The machine is activated when a valid card is presented and inserted into the MIFARE card slot, and will remain operational until the card is re-

moved."

Once the card is removed from the card holder slot, the machine becomes inoperable. This reduces the risk of a machine being left in an operable state, by removing the need for a user to badge at the reader a second time to log off after use.

The system offers the University complete oversight of who is operating the machines. A large AV screen in the workshop assists staff to see which machines are operational in real time. The Site Plans functionality within Command Centre provides a visual representation of all machines plotted onto the room layout. Coloured icons give an indication of machines status – red for inactive and green for active.

The reporting functionality within Command Centre provides the ability to easily produce an audit trail of machine use, if required.

The flexibility of the Gallagher Controller 6000 – the intelligent and powerful interface that sits between the Command Centre server and access control hardware – combined with input and output boards, created a simple process for Scutum to wire the solution from a single point to each of the machine locations.

Scottish housing providers deploys customised Videx solution

A leading Scottish social housing provider has teamed up with access control and door entry manufacturer Videx to equip 60 supported living flats with a customised solution, across 6 apartment blocks.

Residents of St Peter's housing development, managed by Glasgow-based Patrick Housing Association, required an easy to use but secure entry system to enable access for residents and visitors. Working with installer Renroc, Videx supplied its popular

Ipure system, an IP video door entry system, which provides many features for convenient but highly secure access for any size of building or complex. The Ipure door entry system was also paired with Videx's offline proximity access control system, Miaccess.

With the addition of Miaccess, the system provides highly convenient proximity fob access for not only residents but also housing wardens and maintenance engineers. Using Miaccess, entry fobs can easily be added

offline from a remote location via a PC or laptop, meaning programming can be fully managed offsite if required. Entry fobs can simply be replaced by programming a new fob offsite and then swiping at a reader on site, once the new fob is swiped, the old fob is automatically replaced with the new, resulting in less call outs and reducing the overall carbon footprint for local authorities or housing associations.

The Videx Ipure IP system with integrated Miaccess proximity offers



a complete door entry solution for residents and wardens at the housing development. Residents have peace of mind with ease of access, convenience and security, and wardens can now manage and administer entry tokens with ease, and remotely. What's more, the system enables device to device communi-

cation allowing vulnerable residents to contact the onsite support team without additional hardware being installed. From my perspective, the Videx system with integrated proximity access ticked all the boxes that were required to provide a comprehensive, secure and easy to use system to meet the needs of the cli-

ent.

The video IP door entry panels at each of the accommodation blocks are also engraved with the appropriate address and button numbers, many housing associations find this useful as it enables call buttons to be specifically named or labelled, helping any visitors to find which button they need easily and quickly, or help to identify any onsite services such as a warden or concierge. Button engraving is just part of the bespoke services offered by Videx, including custom sized metal work and colour engraved logos.

recording servers as well as Clients and monitor wall servers.

The existing analogue public space cameras were all encoded and then recorded on the new Dallmeier servers to provide seamless integration and operation within the existing system. Due to the age of some of the existing cameras; Reflex also had to install telemetry units capable of driving various third party protocols as well as upgrading some of the individual telemetry receiver boards at physical camera locations.

As part of the project, existing third-party wireless links and fibres were also decommissioned with new Siklu wireless links being installed con-

necting certain areas back on to SHG's private high level wireless network which would ultimately lead to cost savings for the Client.

The control room itself had a full re-design and upgrade in conjunction with Thinking Space and benefitted from a new fourteen screen free standing monitor wall as well as three new consoles, one of which is fully height adjustable, to accommodate a total of six operators at any one time. Perhaps one of the greatest and most complex obstacles was integrating the numerous third-party CCTV and alarm monitoring systems into the new control room which was successfully achieved through detailed design, planning

and working with other key stakeholders such as SHG's operational staff, project management, IT services and other third.

Reflex also installed Adder CCS-PRO8 KVM switches to ensure operators could utilise the numerous systems from a single keyboard and mouse seamlessly. Through close collaboration with the Client and key manufacturers, Reflex were able to design, implement and commission a fully operational control room upgrade and integration both on time and within budget whilst still ensuring full operation of the existing systems during the project to ensure SHG could continue to provide uninterrupted services to their Clients.

Reflex installs CCTV cameras and switches to enhance security for Stockport Homes Group



Stockport Homes Group (SHG) are responsible for the management of the housing stock owned by Stockport Council. Formed in 2005 they operate as an ALMO so whilst the company is owned by Stockport Council, they operate independently in delivering services to their customers. SHG are Stockport's largest landlord, managing over 12,000 properties as well as growing their own portfolio of new build properties and as an umbrella organisation the Group also encompasses Viaduct Housing, Three Sixty and Skylight.

SHG has invested heavily over recent years in their digital infrastructure for providing services and security on behalf of their clients. When Stockport Council recently reviewed their public space CCTV control facilities it became clear that this required modernisation and upgrading to meet current demands.

Following the review, the obvious choice was to look at merging with the existing SHG control room based at their head office in Cornerstone. Reflex Systems were provided with an overview of the Clients requirements and tasked with developing this into a full system design to ensure that the project objectives were satisfied as well as providing the necessary infrastructure for future expansion and camera upgrades.

In a true partnership approach Reflex were tasked with fully upgrading the existing control room at Cornerstone to accommodate the additional public space CCTV operations and staff members. The existing public space control room was to be decommissioned and all existing systems migrated and seamlessly integrated into the new upgraded facility at Cornerstone.

The systems to be migrated not only en-

compassed public space CCTV but also included alarm monitoring, third party CCTV monitoring as well as integration with other key stakeholders such as Stockport County FC who utilise CCTV images during events and match days. Reflex engaged with key suppliers, namely Dallmeier for the CCTV, Thinking Space for the control room furniture and Purdicom for the wireless network, in order to provide a full and robust system design whilst still offering best value and future expansion options to the Client.

The existing control room at Cornerstone was already responsible for monitoring over 1,500 cameras across the numerous estates and the public space cameras included an additional 118 cameras across various locations and nearby towns which required integrating. The decision was taken to expand the existing Dallmeier SeMSy system to include additional

GFE's fire detection system chosen for residential development in Istanbul



A fire detection and alarm system has been installed for Eston Sehir Mahallem, a residential development located in the Bahcesehir district of Istanbul, Turkey by Global Fire Equipment (GFE) Turkey. Bahcesehir is an upmarket rural neighbourhood often referred to as the 'garden city' due to its abundance of green spaces.

Eston Sehir Mahallem is a 'peaceful' residential development which is designed to make the most of outdoor spaces and encourage community living 'without compromising on residents' privacy'.

The development comprises 315 flats and villas on an area of

68,000m², 70% of which is dedicated to green areas and social and leisure areas such as pedestrian walkways, bike paths, a children's park and sports fields. The facilities available to the development's residents include a café, tennis and basketball courts, a swimming pool, a multipurpose community hall, a PlayStation room, a reading room and a sports centre. The development's commercial units are all located on the main street.

The design, installation and commissioning of the fire detection system for the development was undertaken by GFE's appointed distributor in Turkey, GFE

Bina Kontrol Sistemleri. GFE's fire alarm system was chosen because it is 'modern and innovative', and also because it meets the legislative requirements set by the Turkish Government for residential developments which have become increasingly stringent in recent years, according to Eston Sehir Mahallem.

The system for Eston Sehir Mahallem comprises 18 addressable control panels, 200 ZEOS addressable smoke detectors, as well as other addressable devices including manual call points, sounders and gas detectors.

Contd... from page 1

Special Interview with Ashish ...



those silos.

• Cloud-based solutions and services will be essential

Like AI, the cloud is not a new trend in our industry, but it is an expanding one. From small business markets to enterprise levels, we can see the momentum push more and more businesses to leverage cloud-based security solutions and services. And as we are witnessing even now, the pandemic has accelerated the movement to cloud-based operations for people and businesses around the world.

• Crystal clear security imaging will be standard in any weather, under any conditions, any time of day or night

It is always vital for video security cameras, as a core function to maintain image clarity and capture details 24 hours a day, in any weather and under any condition. Cameras with low light imaging technology that renders high-definition and full-color images at night and in nearly completely dark environments have been very welcome in the market. We are taking note of the impressive technology applied to more camera models, including 4K, Varifo-



cal and PTZ cameras. Moreover, for clearer video security imaging in poor visibility – especially in severe weather – high-performance imaging sensors, ISP technology, and AI algorithms are being employed, enabling cameras to maintain clarity and details of the view.

• Biometric ac-

cess control will bring higher security and efficiency

In the past decades, authorized access control has moved a long way away from the keys, pin codes and ID cards. We now find ourselves stepping into the next phase of biometrics era. The access control market is rapidly becoming occupied by biometric authentications, from fingerprint and palm print recognition to facial and iris recognition.

• The Zero Trust approach will take the cybersecurity spotlight

With more security devices connecting over the Internet than anyone ever imagined, cybersecurity has become an immense challenge in the industry. A strategic initiative that developed to prevent data breaches by eliminating the concept of trust from an organization's network architecture, Zero Trust is rooted in a philosophy of "never trust, always verify." The concept has been roundly accepted within the IT industry and it is now also slowly but steadily moving into the physical security realm, as it gradually becomes an important part of the IoT world.

• Green manufacturing and low-carbon initiatives will take big strides

The consensus is in: low-carbon initiatives are valued by societies around the world. In the security market, we have seen products featuring low-power-consumption becomes the preferred options for customers, and demands for solar-powered cameras are increasing.

4. There has been a rapid growth of the access control market since the pandemic broke out with emphasis on touchless. Now that the pandemic has eased, do

you think growth will slow down? What are the new trends in this area?

The people across the globe have seen the great value delivered by touchless access control experience provided by MinMoe Face Recognition Terminals in terms of seamless access with health and hygiene considerations. The pandemic has redefined the legacy security technologies and updated them with AI Algorithms and Smart Solutions. The groundbreaking product innovations done by Hikvision are widely accepted and appreciated by the end-users and patrons. These smart product innovations are fueling the growth of the security industry.

The Iris Recognition is the latest trend in the high security projects for secure access. We have recently launched its MinMoe Iris Recognition Terminal, providing a higher level security solution for the access control market. Hikvision's MinMoe Iris Recognition Terminal can quickly verify unique characters of an iris within 1 second, and the recognition distance can be as far as 70cm. The terminal also features color imaging and video anti-counterfeiting, to guarantee accuracy and safety of access authentication. Biometric Access Control brings inherent advantages, like higher security and efficiency with reduced counterfeiting. They verify within seconds – or fractions of seconds – and prevent unnecessary physical contact. Iris and facial recognition offer touchless access control - a hygienic practice more and more favoured in the market.

We see great advantages in the 'touch-free' experience that face recognition provides. With advanced deep learning technology and diverse practical functions, we expect that MinMoe Face Recognition Terminals can bring more security and efficiency to our small and medium sized customers, making access control and time attendance much easier. The en-

hanced verification rates and accuracy ensures a pleasant, "touch-free" experience for users – a vast improvement over swiping ID cards or fingerprint scans.

5. AI and ML has steadily been gaining forays in every aspect of security with the surveillance sector utilising it heavily. How have you leveraged these technologies in your products and systems to bring benefits to the end users in India?

In this ever-expanding era of artificial intelligence (AI), Deep Learning has become the foundational technology for the security industry. Hikvision's impressive AI analytics technologies refer to a subset of artificial intelligence that uses machine learning to gain insights, find patterns, and discover relationships in the data. In practice, it is the process of automating



the analysis that a human would normally perform. In the field of physical security, AI analytics uses powerful algorithms to automate detection, categorization, and analysis of objects and motions in a camera's view. It reduces costs, speeds up responses, and facilitates new practices and processes. Easy and affordable Artificial Intelligence has come to the mass market and a diverse set of users.

DeepinView Series Cameras feature Hikvision's state-of-the-art video analytics based on deep learning technology. These cameras bring AI edge computing to life, enabling automated detection, categorization, and analysis of objects in view with unparalleled accuracy and efficiency.

The AI Analytics use cases are as follows:

Facial Recognition: Facial recognition technology uses dedicated algorithms and mathematical patterns to process and store biometric data. It is by far one of the safest identification methods to effectively reduce the risk of unau-



thorized access.

Vehicle Identification: It is a technology that identifies vehicles by reading their plate characters and features including color, type, manufacturer, and even travel direction – all automatically with algorithm-embedded cameras at entrances & exits or on the roadways.

AcuSense Technology: Hikvision's AcuSense technology embeds deep-learning algorithms into select security cameras and video recorders to automatically detect humans and vehicles through real-time video analytics and push instant notifications to users' mobile devices. By minimizing false alarms triggered by animals, falling leaves, heavy rain, and other moving objects, AcuSense enables businesses and homeowners to focus security resources on real threats.

Hard Hat Detection (PPE Detection Technology): Hikvision's PPE detection technology is applied in several high-risk working environments. Automated PPE detection helps the construction business reduce security costs and enjoy more intelligent, more effective security overall.

Fall Detection: Fall detection is a technology that uses machine perception and video analytics to detect persons falling. It was designed especially for



those who suffer from illnesses or disabilities, triggering instant alerts to authorized personnel so that they can take immediate actions.

People Counting: People counting is a technology that uses specifically designed cameras and deep-learning algorithms to automatically and dynamically measure customer flow through a door or within a certain area.

Heat Mapping: heat mapping to know the popularity of goods in the shopping area with the help of AI Analytics.

Queue Detection: Queue Detection to monitor the queuing situation in real-time through AI Analytics.

6. How are your manufacturing plants faring? How much import substitution has happened, in line with the PM's vision of Atma Nirbhar Bharat?

Make-in-India 2.0 is a collective success for all the stakeholders of Hikvision India and it is realising the vision of Atmanirbhar Bharat. We are committed to the 'Make-in-India' vision with a long term perspective. Our state-of-the-art manufacturing facility at Vasai is a living testimony of a manufacturing marvel that is unfolding through Indian video security products and solutions. These solutions are customized for Indian environment and conditions and specific local requirements. Our mission is to be aligned with the government of India's 'Make-in-India' program to transform India into a global design and manufacturing hub. Through the local state-of-the-art manufacturing plant, Hikvision India is manufacturing its wide range of products and solutions as per our commitment to 'Make-in-India' vision.

There is a significant progress in import substitution happening due to our 'Make-in-India' manufacturing facility. The 'Make-in-India' program is helping to lower dependence on imports and boost local production of high-value video security products. The other reasons that are helping to regain the momentum for local manufacturing include, economic stability, robust legal system, cost effective labour, skilled workforce, high quality production, cost savings on import duties, domestic market demand and ease of doing business.

Comelit-PAC launches upgraded LogiFire addressable fire safety systems



Comelit-PAC's upgrade of its entire fire system range, LogiFire, represents a complete technical and aesthetic evolution of its innovative addressable platforms, explains the company.

LogiFire is guaranteed by a range of control panels. The systems can be expanded from one to eight loops and support up to 2,000 devices on an 8-loop system and have

a greater loop capacity of 700mAh. The panels are feature rich and have many onboard fault-finding diagnostics.

The stylish product design is a unique feature of the range, with carefully constructed lines and a neutral appearance to ensure fire safety has a natural blending with surroundings, without affecting the experience for visitors or staff on any

site development.

The Logifire addressable system has been designed to offer a simple to install, fire safety solution that is compliant with BS and EN standards. It is complemented with a new range of detectors, offered with award-winning designs to ensure systems blend with their surroundings.

Most of 50K-plus Delhi factories operate without fire NOCs

Most fire tragedies can be averted if building owners and businessmen who run factories apply for a Fire No Objection Certificate, but most of them don't. Over 50,000 factories are operating in the Capital, but most of them are running without NOCs and even the basic fire safety equipment they must mandatorily have in place in their premises.

Rule 33 of the Delhi Fire Service Rules lays down that a person needs to have a Fire NOC before running a factory in any building. This Fire NOC is only given when the building is equipped with all the important fire safety systems. A senior Delhi Fire Service official said that people don't apply for it and invite fire incidents which cause the deaths of their employees and

workers.

In May this year, as many as 27 lives were lost after a major fire broke out in an office in Outer Delhi's Mundka. It was considered as one of the deadliest tragedies that the national capital witnessed in recent years. The four-storey building was gutted in the fire. This incident sparked a nationwide controversy.

Before this in December 2019, around 44 persons were burnt alive in another fire that broke out in Anaj Mandi. In January 2018, a fire broke out in Bawana's illegal firecrackers factory which claimed the lives of 17 persons. In both the cases no NOC had been obtained from the fire department. There were no exit gates in the premises making their operations illegal.

To avoid fire incidents and deaths the Delhi Fire Department has taken a few major steps. It provides a No Objection Certificate to run a factory in the Capital. However, most of the factories don't apply for the Fire NOC and run their business quietly.

The fire officials say that generally it is the duty of the building authorities and the civic agencies to decide whether to let factory owners run their business or not, and they refer the cases to them to decide what will happen in case of a fire.

It is seen that in most of the cases the building where a fire broke out had no fire safety standards. It was also found that they did not apply for a NOC before the authority concerned. The



fire official said that the rising population is also becoming a major problem for them.

"We are all set to upgrade the Delhi Fire Service. The DFS is

constantly upgrading itself both technically and manually, but the rising population of the workers in these factories are adding to the woes. Every year lakhs of poor

people come to Delhi to improve their living conditions and get trapped in these factories as workers," said a fire official.

D1xS2H and AlertAlarm Fire Warning Signals from E2S



E2S Warning Signals has released UL464 and UL1638 approved warning signals for use in fire and gas detection systems suitable for hazardous areas, industrial, marine and harsh environments.

The D1xS2H is housed in a Type 4/4X, IP66 marine grade, corrosion proof aluminium enclosure. Featuring sound output levels up to 127 dB(A) and 64 alarm tones, each of the 4 stages/channels can be remotely activated. Auto-synchronised on multi-alarm horn systems, the Class D amplification provides the highest sound pressure level available for Class I Division 1 notification with a choice of two power modes.

The threaded flame-proof joint, multiple cable entries and duplicated, pluggable termination simplifies both installation and routine maintenance. The 24Vdc version is approved to UL464 for public mode fire alarm use and the 100-240Vac version for general signalling use. They are SIL1 compliant to IEC 61508 (2010). The D1xS2H also carries global approvals: UL, cUL and ULC for Class I Div 1, Zone 1, IECEx and ATEX Zone 1, 2, 21 and 22 for use in hazardous area explosion proof signalling applications.

The AlertAlarm horn sounder range is globally approved for fire, marine and general signalling applications. Featuring 64 alarm tone frequen-

cies and 4 remotely activated stages/channels, it is approved to UL464 and EN54-3. The associated combined audible and visual signals from the AlertAlert range are approved to UL464, UL1638, EN54-3 and EN54-23.

The AlertAlarm and AlertAlert family are available in four physical sizes with outputs from 110 to 124dB(A). Their flame-retardant ABS and PC enclosures are lightweight and impact resistant. Low current consumption and high SPL in an outdoor rated enclosure ensure suitability for all applications including fire, security and process control. The AlertAlert beacons are available with Xenon or LED light sources.

How to protect devices from malicious fire alarm activations



Following a spate of maliciously activated hoax fire alarms in UK schools, Vimpex offers a solution to help combat these reckless acts, helping to leave fire professionals free to deal with real emergencies.

This serious problem has led Council chiefs, the Police and the Fire and Rescue Service to condemn the reckless behaviour and warn that the unnecessary emergency callouts could stop genuine emergencies being attended and even result in a “needless tragedy”. One school was evacuated seven times in the first 12 days of the new term due to hoax fire alarms, with fire crews attending one

school on seven separate occasions in one week, due to pupils repeatedly setting off the fire alarm. Hoax alarms are also being sparked by an irresponsible social media ‘trend’ which encourages students to post videos of the ensuing chaos worldwide.

Anti-vandal alarm call point covers offer a simple, effective solution, designed to protect essential fire and security equipment against these types of unwanted false alarms.

One example of these is the Smart+Guard range of anti-vandal alarm call point covers manufactured in the UK by Vimpex.

Smart+Guard is a tough polycarbonate hinged protective cover that can easily be installed over a range of emergency switches and other devices to provide protection from vandalism, accidental damage or misuse that causes unwanted alarms. Importantly, this type of covers offers significantly more physical protection and a far greater deterrent than the flimsy plastic covers often supplied with call points.

Anti-vandal alarm call point covers offer a simple, effective solution, designed to protect essential fire and security equipment against these types of unwanted false alarms.

Innovative fire extinguisher for use in moving trains



Wagner Rail GmbH, a subsidiary of Wagner Group GmbH, which specialises in fire protection solutions for rail vehicles worldwide, has developed a fire protection solution that extinguishes fires in open, highly ventilated technical areas in moving trains.

The effective extinguishing of fires in these train areas, even while the train is moving at high speed and without having to slow down or interrupt the journey, is unique worldwide to date. The innovative extinguishing process was developed on the basis of extensive test series carried out in coop-

eration with TÜV Süd Rail.

An essential part of holistic fire protection solutions for rail vehicles is extinguishing fires in technical areas such as transformers, converters or diesel engines.

These areas are usually equipped with several non-closable openings through which ventilation takes place. As a result, air currents are created inside these technical areas while the vehicle is in motion. For effective fire extinguishing, these air currents pose a major challenge. Until now, trains had to reduce speed or stop the journey completely to

extinguish fires safely.

“In cooperation with TÜV Süd Rail and in compliance with the railroad guideline ARGE Part 2 ‘Fire fighting in railway vehicles’, we conducted an extensive series of tests from August 15th to 31st, 2022, in which fire scenarios were tested under various ventilation situations,” said Dr. Peter Stahl, Managing Director of Wagner Rail GmbH, explaining the research and development work for the novel process.

“The aim of the tests was to completely extinguish fires in technical areas of the train while it was in motion. With the help of the test series, it was successfully demonstrated that simulated fires, which were fanned by driving winds and air speeds of over 100 km/h acting laterally on the train, were completely extinguished using aerosol extinguishing agents,” continued Dr. Peter Stahl.

Commercial Fire Alarm Systems from NAPCO



NAPCO Security Technologies is manufacturer of an innovative, growing line of UL/NFPA code-compliant commercial fire alarm systems and devices for every region and AHJ, plus industry-leading fire alarm communications for fire system alarm monitoring and reporting.

Award-winning StarLink Fire Universal cell/IP communicators include new StarLink MAX Fire 5G LTE-M Communicators for maximum speed and next-level coverage on today’s latest networks, plus the first models that support FirstNet®

First Responders Network communications. StarLink communications technologies are proven to reliably work even where others cannot use patented dual switching antenna technology; and also, to save thousands on buildings’ and facilities’ budgets, they replace dual dedicated copper landlines that are increasingly scarce, costly and unreliably maintained.

Drawing on this expertise, Napco’s multi-award winning, all-in-one FireLink FACP feature built-in StarLink cellular and/or cell/IP communications, on-board LCD touchpad annunciator, plus new

cloud programming from any smart device. A 32-Zone conventional model comes preloaded with a sprinkler supervisory program. The new FireLink XL 255, designed for larger addressable applications, supports 128 to 255 points and features 7A power supply and dual path cell/IP communications.

NAPCO is an ISO 9001:2000 certified manufacturer of quality products engineered to exceed industry standards, long lasting, and having the lowest total cost of ownership & industry’s longest warranties.

Aico expands range of multi-sensor fire alarms with Ei660i and Ei660iRF



Aico has expanded its 600 Series of multi-sensor fire alarms with the Ei660i and Ei660iRF battery-powered variants. The new additions are said to boast all of the same benefits as the rest of the 600 Series, but in a self-contained battery-powered unit. They were developed to meet demand for battery-powered multi-sensor fire alarms within the range, the company explains.

The products are a complementary addition to the multi-sensors within Aico’s mains-powered 3000 Series, and include the same heat and optical smoke sensors to offer ‘total fire protection’, with an ‘increased resistance to

false alarms’.

Michael Wright, Product Development Manager at Aico comments: “Our new Ei660i and Ei660iRF models continue our innovation of multi-sensor alarms across our product range. The lithium battery-powered alarms complement our existing 3000 Series mains-powered multi-sensor alarms and provide users with improved fire response and reduced risk of false alarms. We’re delighted to be able to launch the products as part of our new 600 Series and provide users with our proven and award-winning multi-sensor technology across both mains and battery-powered alarm

series.”

The Ei660i is a stand-alone device, while the Ei660iRF includes built-in Radio-LINK+ technology, offering wireless interconnection with compatible Aico alarms via radio frequency.

The new products also feature a built-in dust compensation technology. The self-monitoring dust compensation mechanism allows the alarm to tolerate up to twice as much dust contamination than a conventional optical alarm, claims Aico. The optical sensor chamber continually self-monitors minute changes in dust levels, automatically recalibrating the alarm’s trigger point when necessary to reduce false alarms.

Both the Ei660i and Ei660iRF also include Aico’s AudioLINK+ technology, to get real-time data directly from the alarm head via a mobile app, reporting on information such as activations, sensor status and record of testing.

What does responsible use of AI in businesses mean today



Artificial Intelligence is no longer just a cliched topic in the entertainment world. AI today has developed into a 'must-have' for every vertical from the government to basic applications on our gadgets. The use and dependency of AI especially in businesses have increased multifold, be it for understanding the

need for AI and its impact on business, society and legal standpoint, the US and EU nations too have started working now on how to bring the responsible use of AI as part of the governance. Until there is an actual policy, which can be brought in regarding the responsible use of AI, the onus is on industry leaders and their organisations to ensure the safe and responsible use of AI in their businesses.

So, what does re-

sponsible use of AI in businesses mean today?

The answer is simple: with AI, businesses have an edge in developing more robust and user-friendly products that help them stay a step ahead of their competition. The data collected helps businesses understand what exactly their customers are looking for and how they can deliver it. Today's customer service is heavily dependent on AI and

ucts should have a human-centric design and once it is developed and deployed, they should go through regular operational routines for maintaining the whole idea of it being designed to be human-centric

- The AI system should be developed to anonymize sensitive data of clientele and automatically delete the data after the purpose is

fulfilled

- Restricted data transfers between different stakeholders

- It is very important to put in place an explicit approval system for data access during service operations

- A good amount of incident management training and Strict data usage policies can help in times of crises

- Keep a check on risks and threats by performing regular audits and vulnerability assessments

Considering the above factors during AI system deployment will not only help in addressing the principles of Responsible AI but also help businesses develop ethically bound AI applications for their work operations.

Atakama outlines their top cybersecurity predictions for 2023



customers or developing new products to suit the needs of the users. While the use of AI is opening up never-seen-before opportunities and possibilities for organisations across verticals, it also brings in incredible responsibility to safeguard the data and ensure transparency. Ethics seem to play a bigger part in ensuring that organisations take up a responsible path in using AI for their businesses.

Data breaches, irresponsible use of the data collected and its processing using AI, and irresponsible use of AI to an extent of violating ethics have become the main concern for people, governments and businesses. A brand's image is now connected to how responsibly they use AI which is at its disposal without breaching the trust of its customers. In February 2021, NITI Aayog released an approach document on 'Principles for Responsible AI' under the hashtag #AIFORALL. The document spoke about ethics, legal, social and technology, surrounding AI.

While the Indian government is slowly approaching the subject, keeping in mind the

sponsible AI in businesses mean?

French writer Voltaire said 'With great power comes great responsibility and AI is a power which many believe is only in its 1st leg of being discovered. The understanding of what can be achieved by delving deeper into AI is only something that is being understood now.

The veterans of the AI industry believe that 'responsible' means ethical and democratised use of AI - a tool, which is now available to any person, who has access to the technology. To elaborate, it is the practice of designing, developing and deploying AI with the intention to empower employees and businesses. Responsible AI's target is to deliver trust, transparency and an unbiased approach to customers or users in the work environment. Organisations deploying AI should follow important practices and the right AI techniques that are compliant with new and pending guidelines and regulations of AI governance. This will help to deliver a trustworthy and transparent deployment.

One might ask, why is AI needed for busi-

nesses? good customer service is what makes a brand successful. These are just a few instances of how AI can help businesses stay ahead during times when technology is the knight in shining armour.

This is why one needs to understand the principles of Responsible AI that revolve around minimising unintended bias, ensuring AI transparency, protecting data privacy and security, and benefiting clients and markets. Organisations deploying AI systems should keep these in mind and put them into practice to attain the desired deployment which is more ethical in compliance with Responsible AI.

An eye on the following key facts for reaping the benefits of Responsible AI

- Data security has been and should be the top priority, so organisations deploying AI should use top-of-the-line data encryption practices. Use approved techniques such as customer lockboxes and data masking to protect the data from unauthorised access by other software

- The AI-based prod-

The cyber game is now an entire underground economy wrapped around cyberattacks. Thanks to increased international friction and the activity of groups such as Lapsus, cybercriminals have upped the ante on cybercrime in order to turn a profit. Atakama, the pioneer in multifactor encryption, outlines its top cybersecurity predictions for 2023, compiled from its CEO, Daniel H. Gallancy, and team of experts.

IoT blends with shadow IT to make a security headache - With 43 billion devices connected to the internet in 2023, attackers have no shortage of targets. Although IoT devices can provide productive capabilities in commercial environments, risks abound. Manufacturers prioritise convenience and consumer-like appeal over security fundamentals. Unsurprisingly, devices are often deployed with weak or default credentials.

To make matters worse, IoT has proliferated within shadow IT systems, leaving already-weakly-protected cameras, microphones, and sensors well outside the control of organised

security platforms. Even within a strong perimeter, a poorly configured IoT device is bad news. Susceptibility increases many fold when the same poorly configured IoT device is within a shadow IT system.

Rise in sophisticated ransomware attacks put data exfiltration in the spotlight - The rising prevalence and sophistication of attacks targeting sensitive data will continue to plague organisations into 2023 and beyond.

Double extortion attacks, pack an even greater punch by encrypting sensitive and proprietary data, hold it for ransom, and worse, publish the data on the dark web unless organisations cough up the cash. As the Verizon 2022 Data Breach Investigations Report says: "There are now more ways for attackers to monetise data."

These attacks will increase as cyber criminals find it relatively easy to breach organisations' defences, and cash out. In response, organisations will need to look beyond conventional data protection practices toward technologies that protect data at the source, such as

multi factor encryption to render files useless to threat-actors who will not be able to access the data, whether it is still inside the security perimeter or successfully exfiltrated.

DevSecOps goes up a notch - Securing developer environments will become one of the most critical components to achieving optimal security for organisations in 2023. Count on highly elaborate cyberthreats targeting these complex infrastructures, as seen with the success of the SolarWinds attack, which continues to inspire malicious actors because application development is such a rich target. Inserting a few lines of malicious code can potentially open up thousands of entities in the supply chain of partners and customers.

Heightened DevSecOps practices in line with zero trust architectures and advanced encryption solutions will become more common as organisations realise these approaches are a critical business necessity.

People will continue to be the weakest link in cyber teams' security chain - Sad to say, people will remain the main

source of cybersecurity risk in any organisation. Despite all the training, employees are still likely to provide threat actors with an entry point through social engineering, phishing or lapses that include sharing of passwords and log-in credentials. The Verizon 2022 report found the 'human element' was a 'key driver' in 82 percent of data breaches.

Insider threats from corrupt employees or individuals bearing a grudge will continue to be a serious concern. Threats from employees at partner organisations and third-party suppliers will require continued vigilance and increased implementation of zero trust strategies.

More awareness of CISO liabilities - This year's Uber data breach

conviction will focus many minds on the C-suite that the CISO role is one that carries significant ethical responsibilities. Cybersecurity, like many other professions, has a code of ethics that's expected of its practitioners. Individuals entrusted with the security and privacy of data, must behave ethically.

Everyone knows that the cybersecurity landscape is not always a level playing field and even the most ethical and highly technical cybersecurity teams cannot prevent the most determined attackers. 2023 may prove to be a more volatile year for CISO's as they deal with the pressures of maintaining a ridged security posture, while also dodging the bullet of blame when attacks are

successful.

They are likely to rely on degrees in information security disciplines and a wide range of professional certifications such as CISSP. What's important is for CISOs to constantly update their knowledge because it is not just the threats that will develop, solutions will too, and they need to keep up-to-date.

Daniel H. Gallancy, CEO and Co-Founder of Atakama adds: "Cyber Threats will continue to proliferate in number and grow in sophistication throughout 2023. While basic security practices will prevent many breaches, organisations are going to need more advanced solutions to protect themselves from the devastating consequences of a successful attack."

lation is made possible. Besides, without the traditional horizontal mounting requirements of conventional HDDs, the devices are also easier to assemble and set up. Thanks to this ease and flexibility of installation, both end-customers and installers can save time and reduce their maintenance and operating costs.

Compared to conventional SSD DVRs, Hikvision's eDVRs are highly compact, helping to save on space. They can fit anywhere --- be it behind a monitor, under a table, on a bookshelf, or hidden inside a custom stand.

4) Smart motion detection

Embedded with Motion Detection 2.0 technology, the eDVR Series

can distinguish human beings and vehicles from other objects in any given environment, enabling property owners to respond much more quickly and effectively to potential security breaches. The technology also enables property owners to search video footage based on the appearances of people or vehicles during a specific period of time, saving time and reducing their workloads and costs.

Effective for residential and SMB applications

The innovative features of the Hikvision eDVR Series make these solutions equally effective for residential, SMB, and commercial applications. In all cases, end-customers benefit from an easy and flexible installation process, low

energy consumption, minimal maintenance requirements, and high performance video capture, storage, and processing.

The compact format of Hikvision eDVRs also increases the solution's versatility. For example, eDVRs can easily fit into residential homes. The devices' storage drives also operate with virtually no noise or vibrations, and generate very little heat, which makes them ideal for residential applications. These advantages, along with the eDVRs' affordability, functionality, and sustainability, also make the product range an ideal choice for SMBs such as convenience stores, grocery shops, restaurants, workshops, bars, and more.

Hikvision introduces the evolutionary eDVR Series with eSSD technology



Hikvision recently added the eDVR Series into its expanding portfolio of security solutions for SMBs. Powered by embedded solid state drive (eSSD) technology, Hikvision's eDVRs are compact, durable, easy-to-use, and energy-efficient. All this means they are ideal for small-to-medium-sized businesses and residential applications.

The eDVR Series is smarter, faster, more durable and more energy efficient than anything that's gone before, not only helping to minimize negative environmental impacts, but also delivering major energy and cost savings for customers.

New possibilities for efficiency and sustainability

1) Eco-friendliness and 45% energy saving

The ultra-low power consumption of chip-

level eSSDs makes Hikvision eDVRs more sustainable. Since these devices don't have spindle motor engines built in, their energy consumption is 45% lower than that of the conventional DVRs, not only helping users to make long-term savings on their electricity bills, but also enabling them to reduce carbon emissions.

In addition, the use of eSSDs makes the products more durable than conventional DVRs that use HDD drives. This is because there are fewer moving parts, such as actuator arms. With longer product life cycles, the eDVR Series contributes to eco-efficiency and sustainability.

2) Endurable storage with a 25% improvement in efficiency

Being powered by "eSSD" technology,

with solid-state storage components down to chip level, the Hikvision eDVRs have exceptional storage efficiency and system stability. The storage efficiency of eDVR Series is further enhanced by "scene adaptive bitrate control technology", which automatically optimizes encoding for video footage, and improves the coding efficiency by 25%. Specifically, complex scenes with human or vehicle movements are allocated higher bitrates to ensure great video quality. At the same time, low-complexity scenes with little or no movement are assigned a lower bitrate to optimize storage efficiency.

3) Compact design for ease of use and simplicity of installation

As the eDVRs are embedded with SSDs and have a "screwless" design, tool-free instal-

Kaspersky initiates new cyber security training scheme for experts



Kaspersky has unveiled a new online cyber security training package for experts called 'Security Operations and Threat Hunting'. Developed by Kaspersky's own specialists, the course aims to help businesses enhance or even build a security operations centre (SOC) from scratch, and improve SOC's and security team skills in threat hunting, incident detection and investigation. The course guides the audience through the SOC structure, threat intelligence, and relevant attacks. The on-demand format and virtual hands-on labs allow training at the student's own pace.

These SOC expertise challenges are well-known for any enterprise: a shortage of staff, knowledge and skills. The task of raising professionalism is relevant for both businesses and individuals - to improve cyber defence and move up the career ladder. But when it comes to enterprise security operations and threat hunting, it is important to rely on content from proven ex-

perts in the industry.

The 'Security Operations and Threat Hunting' is the new course in Kaspersky Expert Training portfolio. It offers a comprehensive guide on the subject by highly experienced course leaders, including the head of Kaspersky SOC, the head of Kaspersky SOC Consulting, and an SOC analyst and researcher. In addition to the security operations centre's structure, expert roles, processes, and tools the training focuses on modern attacks' tactics, techniques and procedures for Windows, Linux and networks, and how to deal with them.

Attacks such as Windows credentials dumping and exploitation through services, Golden and Silver tickets, Linux capabilities abuse, spoofing are covered and many more.

Students will be offered a clear understanding of the SOC as part of a cyber defence strategy, and learn also how to plan and organise security monitoring and use threat intelligence services, detect and in-

vestigate malicious activity with the ELK stack. This knowledge and skills will be relevant to any specialist involved in security operations and threat hunting, including SOC professionals with both middle and advanced levels of expertise.

The training provides six-months access to the course and 100 hours for hands-on labs. Students can take it when and wherever they like within six months after access code activation.

"Enterprises need to bridge the expertise gap and increase the effectiveness of their security operations. While the question of additional investment is always sensitive, online education may be the solution to achieve their goals. Keeping in mind this business challenge, we developed a bunch of expert training courses on threat hunting, incident response and malware analysis along with this new one. Kaspersky expert training brings together our recent expertise and the convenient on-demand format so students can combine the education process with their work duties. The course also helps individual experts improve personal skills to unlock more career opportunities," comments Sergey Soldatov, Head of Kaspersky SOC.

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