

GIT SECURITY **INTL**

MAGAZINE FOR SAFETY AND SECURITY – WORLDWIDE

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Security at Volkswagen

Interview with CSO Andreas Maack

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Dedicated To What Matters

■ Sought and found: The scene that never sleeps is undoubtedly the security industry. Only a few weeks have passed since we inaugurated 2025, but the international dialogue already seems in full swing. We feel the eyes of the world are more than ever on security developers and political frameworks, more intensely as a matter of global responsibility. The recent Parisian Summit dedicated to AI measures, along with the investments planned by the USA, are merely setting the tone for an evolution that is already well underway.

Among our expert community, one corporate mantra becomes an operative guideline: true progress is made through sober reflections on the mindful deployment of state-of-the-art tools and assets, particularly the integration of AI. Navigating a corporate group through the new era, balancing benefits and risks, is what Volkswagen's CSO Andreas Maack's mission is about. Learn more about his structured approach in our interview on page 6.

Their high sensitivity and elevated public circulation make airports still a priority when it comes to securing sites. So do we, attributing them a special focus starting on page 8: In our Dallmeier use case article, you can find out why the Panomera multifocal sensor cameras stood out as the most suitable solution for the Tenerife Norte airport. With regard to equipping airports appropriately, Assa Abloy CTO Kelly Gill contributes to the What-Matters-Beyond-Digital issue, explaining the importance of mechanical components and sustainability as a corporate goal.

For the GIT SECURITY International Team, the 2025 agenda starts with a first-hand experience of innovation trends at the Intersec in Dubai, the pivot for international networking for those who seek the central questions of our future. Naturally, dear GIT readers, our insights are all yours:



Cinzia Adorno

You are exclusively invited to be part of our Middle East journey on page 19.

Now let's get to your opportunity to mark your 2025 with a major celebration: we continue to receive numerous product submissions for this year's GIT SECURITY Award and are excited to include your product, solution or service in our competition as well. You are warmly invited to register if you haven't done so yet. The participation is open until March 31st: <https://git-sicherheit.de/en/award/git-security-award>.

Speaking of what is new, let me introduce myself! My name is Cinzia Adorno, and I recently joined the GIT SECURITY International Team. Just like you, my priority is to stay ahead of the curve in the world of security technology. I am thrilled to witness all of the exciting developments: together, we will continue to shape the future of security solutions. 

Enjoy the insights and
have a wonderful read!

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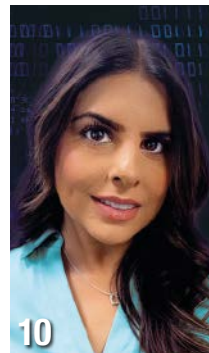


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News for Decision-makers and Managers in Safety & Security Matters

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COVER STORY

Driving Security Forward

Strategy of Group Security & Resilience at Volkswagen Group – Interview with Andreas Maack (CSO)



As technological advancements towards AI (Artificial Intelligence) and automation transform the world, new threats and risks emerge. In response, the automotive industry is redefining their security equipment and strategy. Andreas Maack, Head of Group Security & Resilience and CSO of the Volkswagen Group, provides GIT SECURITY with insights into his vision for corporate security in this new era, addressing the evolving protection requirements. At the core of Volkswagen's security vision lies the proactive anticipation of threats and the strength of a globally connected team.

■ GIT SECURITY: Mr. Maack, let's start by talking about the tasks of corporate security: How have these changed in recent years – and what framework conditions result from this in strategic terms?

Andreas Maack: Let me first address the second part of your question. As Volkswagen AG, we were part of RC Security (working group for CSO: <https://git-sicherheit.de/de/topstories/das-portfolio-modell-der-corporate-security>) under the leadership of Dr. Harrer (Head of Research Division: Economic Protection at Bundeswehr University Munich). The work results are valuable to me and an incentive to continuously develop security within the Group. To this end, I orient myself on the jointly developed portfolio model. Following the model, we are gradually shifting our focus towards a

strategic direction. Especially in the challenging times we are currently experiencing, the topic of the value contribution of a security function and its comprehensible presentation is essential. The portfolio model is of great use here.

... particularly in times of strong transformations and crises

Andreas Maack: In the automotive industry, we are indeed experiencing the transformation towards electromobility and digitization, all the way to autonomous driving. Technological advancements such as AI and increasing interconnectivity offer opportunities but also bring risks. However, the change is not limited to the automotive industry - the global geopolitical landscapes and the general world situation are also undergoing a transformation. Unpredic-

table geopolitical tensions, wars, as well as natural disasters and extreme weather intensify the situation and put the world in a permanent crisis mode.

These external influences and developments have a major impact on security requirements and are leading to an increased significance of the term and function „security“. The advancing digitization and the associated threat in the digital space require new competencies more than ever, especially in the protection of intellectual property and sensitive data. The analog and digital worlds are increasingly merging, which also applies to the attack vectors of criminal activity. Digital forms of crime complement the previously analog fields of crime. Natural disasters and droughts as a result of climate change lead to cascading effects such as violence and serious crime. In order to respond flexibly and appropriately to existing and new threats and to anticipate future security risks, security organizations must redefine their tasks, competencies and responsibilities.

How have the priorities within the security department shifted as a result?

Andreas Maack: The primary task of security functions lies in crime prevention, protection against all forms of violence, natural disasters and other threats, as well as the coordination of law enforcement measures. This also includes cooperation with security

and regulatory authorities and government agencies within economic protection.

This „general mandate“ of security has not fundamentally changed, but the perimeters of security responsibility have shifted and expanded. The focus is shifting from classic protection areas, such as plants, to vehicles (automotive security) and thus closer to the customer. Additionally, the physical space is being expanded to include the virtual space, which plays an increasingly important role in security due to the aforementioned technological changes. Geographical boundaries are also being redefined or becoming obsolete: wars, extreme weather events and climate disasters require a constant analysis of global events, as they are of central importance for various security decisions and risk assessments. The scope of security tasks is therefore constantly growing. In order to continue fulfilling the general mandate in the context of the new framework conditions and requirements, adjustments to the structure and orientation of security are necessary.

Could you provide a concrete example of how these changes have practically impact and what measures have been implemented?

Andreas Maack: The trends mentioned above are increasingly influencing the work within Group Security & Resilience. For example, the spread of AI technologies brings significant security risks alongside benefits. There are quite a few people who warn very fundamentally about AI, especially since we are currently „only“ using the first generation of such technology. However, even at this stage, the manipulation of media content such as images, videos, texts or audio recordings, for example, poses a serious threat.

Such content can already be quickly and massively created and disseminated in a targeted way through various tools that are easily accessible via the internet and can be spread via social media. The consequence is misinformation about people, events or statements, which perpetrators use for targeted disinformation or opinion manipulation. The enhancing quality of AI results makes it increasingly difficult to identify manipulated content as such. This can have far-reaching consequences - from phishing attacks and fraud in the economic sector to targeted influence on elections or societal sentiments in the political context.

As a security function, we can hardly defend ourselves against these developments and the resulting threats in the traditional sense. Therefore, we must learn to deal with them and counteract them. One measure is to further expand our security

competencies, particularly in data analysis and our own AI. It is crucial to understand the new technological possibilities and to make use of them in order to anticipate threat scenarios and take appropriate precautions.

In this context, it would be interesting to know what your current security strategy looks like. What key topics does it deal with and what specific areas of security does it cover?

Andreas Maack: Our security strategy „Protect“ is fundamentally based on three dimensions: people, products and assets. It links the analysis of current and future challenges with strategic goals and expanded collaboration models of the security organization for the coming years (2030+). The guiding principles of the strategy are reflected in three overarching strategic terms: digital, connected and preventive.

„Digital“ means the digitalization of the security organization in terms of internal processes and dealing with (new) digital crime phenomena. „Connected“ stands for the expansion of horizontal and vertical networking of people and processes. And „preventive“ means strengthening the preventive effect and orientation of security measures to prevent incidents (value contribution model) and, in the sense of the „broken window theory“, to give crime no room to unfold.

„Protect“ aims to show the medium-term vision of the future, taking into account our values and our general mandate. Our global security network within the Group, i.e. the close cohesion between the Group and its brands, is an indispensable component. Since we cannot tackle the challenges alone, we need strong partnerships both internally and externally in order to respond to the changes and requirements.

A strategic realignment often brings organizational changes. How do you approach this?


Andreas Maack: Strategy and organization always go hand in hand. At the beginning of this year, I carried out a major reorganization with the aim of streamlining and modernizing structures to enable a faster and more effective response to security threats. It was important for me to evaluate our thematic fields of action and tasks in terms of the necessary methods and technical expertise and, guided by this, to set the structural framework. For example, forensic tasks are now processed in each individual department where necessary, instead of being assigned to a single department as before. At the same time, all of the

digital tasks of Group Security & Resilience are consolidated under one department. Overall, we have increased flexibility and professional networking and promote professional and methodological dialogue.

In addition, we have integrated the term „resilience“ into our department name to emphasize the central importance of crisis prevention and responsiveness. By promoting cross-functional collaboration, we have been able to make tasks and processes more efficient. The global network with our partners in the brands and other entities remains a central component to optimally protect the Group and further strengthen its resilience.

Finally, after discussing global trends and your strategy: how does the implementation look like in the everyday work at Volkswagen Group?

Andreas Maack: Quite simply put: There is always something going on here. The Group employs more than 670,000 people, has over 100 production sites and is present in almost every country in the world. The collaboration in our security network is very important to me. This means that the brands, entities and regions or countries each have their own security organizations. Through our guidelines, strategy and networked competencies, we set impulses from Wolfsburg and promote global exchange. This is comparable to a „federal structure“, with the central anchor being the „Volkswagen Group“. Our partners maintain their identity and we all benefit from the wide range of experience and professionalism of the network. Security is teamwork.

Security at Volkswagen works because we are a professional, committed and future-oriented team. This is precisely why security is so important in the group, but like any other function, it has to prove itself again and again. Today, the focus is not only on the technical component, but also on the value contribution, the future models and the level of digitalization with which we keep pace. Fulfilling legal obligations is, of course, a given. Crisis prevention and resilience, strategic advice to business units in conjunction with a profound understanding of business processes and products, are essential for a modern security organization. We are on an excellent path here, which will never end, as there will always be new parameters, and we will therefore always have to set new goals. 



Volkswagen
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VIDEO

Airports

A Clear View on the Canary Islands

Multifocal Sensor Cameras at Tenerife North Airport

The Tenerife Norte – Ciudad de La Laguna airport has improved airport safety and airport operations with the

The Tenerife Norte - Ciudad de La Laguna airport has installed the most modern video surveillance technology from the German manufacturer Dallmeier and significantly improved its safety measures. Panomera multifocal sensor cameras are being used to provide comprehensive surveillance of the air side.

■ The Tenerife Norte – Ciudad de La Laguna (TFN) airport lies some ten kilometers west of the island's capital Santa Cruz de Tenerife in the San Cristóbal de La Laguna region. Most of the flights here are short-hop flights: connections to the other Canary Islands such as Gran Canaria or Lanzarote, as well as scheduled flights to the Spanish mainland. The most important destination is Madrid-Barajas with over a million passengers annually, followed by Barcelona, Seville and Bilbao.

Detection, Surveillance and Recording

Comprehensive coverage of the entire air side was to be installed so as to further improve the safety of the airport and assist in its operation. Tender documents were issued that covered the installation of a monitoring and control system for the detection, monitoring and recording of activity in high definition on the site.

The area to be covered included the runway (with the emphasis at both ends),

the apron, the taxiways and service roads that border the apron; in total, a massive area. The biggest challenge was that masts to mount the cameras could not be erected just anywhere, and only existing buildings could serve as installation sites.

“We wanted to keep the number of installation points and camera systems as low as possible to avoid having to install additional infrastructure such as masts, cables, communication interfaces, etc. and to simplify future maintenance”, said Carlos Jesús Delgado Gómez, Head of the Director's Office at TFN. “And of course there are strict regulations at an airport covering every type of installation, and air side in particular. That is why there were only a limited number of possible installation locations. Nevertheless, the prescribed area had to be monitored in high definition – the recording should also always be in the maximum resolution.”

It was not possible to satisfactorily cover such enormous areas in high definition with single-sensor cameras. That is why

The Panomera cameras could be installed on the facades of existing buildings

the Tenerife Norte – Ciudad de La Laguna airport decided to use the patented Panomera multifocal sensor technology from Dallmeier.

Maximum Definition Even At Large Distances

The combination of multiple lenses and sensors with different focal lengths in a single optical unit provides high definition images over the entire field of view. This enables even distant objects to be seen clearly, and a lot less camera systems are necessary than with conventional single-sensor cameras.

“We were able to install the Panomeras on the walls of existing buildings and on roofs”, said Carlos Jesús Delgado Gómez. “No other camera system was able to cover the extensive area with so few cameras and installation locations at this high resolution.”

The video technology that has been installed not only provides increased operational safety but also helps to optimize operations and quickly clear up disputes. One of the areas being monitored is the aprons, the places where the aircraft park and are prepared for the next flight. As every minute that an aircraft is parked costs the airline money, there are often discussions about who was responsible for a delay and therefore who should pay the additional parking costs. Was the refueling truck there on time? Did the catering supplies arrive punctually?

Damage limitation can now also benefit quickly and objectively from unambiguous video recordings. Did damage to an aircraft happen during parking or when bringing in the passenger ramp, for example, or was it there before?

Multi-User Capability Advantage

As well as the ability to cover large areas, the multifocal sensor technology is also multi-user capable. Panomera works like a vir-



Panomera cameras can cover large distances in high resolution thanks to the patented multifocal sensor technology

tual combination of any number of PTZ cameras – with the decisive advantage that the operator moves around in the image virtually and not by mechanically moving the camera as with conventional PTZ devices. This enables any number of operators to access the high-definition image at the same time and each one can zoom into the area that is relevant for them. In contrast to normal PTZ cameras, the entire activity of the widest view is recorded.

The multicast ability is also one of Panomera's distinct advantages as it always allows multiple users to access the live stream simultaneously. This multicast ability enables data from a single source to be sent to multiple receivers at the same time. The video stream can therefore be efficiently distributed to multiple devices or users without having to forward the data numerous times. The use of multicast reduces the network load and uses the available bandwidth efficiently.

3D Simulation and Simple Installation

The entire project was planned minutely by Dallmeier with the help of a 3D simulation, and pre-configured and tested in the company's own FAT Center according to the customer's requirements. So-called CamCards that were created by the Dallmeier 3D-Team assist the installer on site because they show exactly where and at what angle each individual Panomera camera must be fitted.

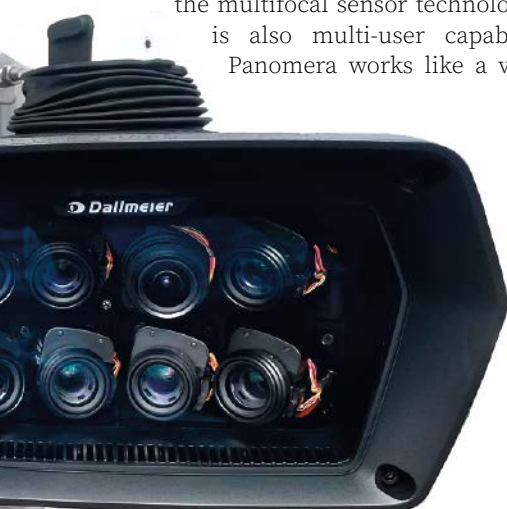
The Mountera mounting system was also useful during installation, as Miguel Ángel Rodríguez Domínguez stated, who was Pro-

ject Manager for the installers Cobra Instalaciones y Servicios, Delegación Canarias: “The biggest challenges for us as installers were the high humidity and the salty air at the island location. We therefore had to have bespoke, rust-proof and robust masts and brackets made for the cameras. The actual installation of the Panomera cameras with the Mountera wall bracket and mast adapter was very easy.”

Happy with the Solution

The video system has completely fulfilled the customer's expectations and the Tenerife Norte - Ciudad de La Laguna airport is happy with its choice. Also with regard to support during the project, both the installer and the customer are in agreement. “We are very grateful for the support and solution-oriented backup from Dallmeier Spain during the entire process, and above all during its implementation”, said Carlos Jesús Delgado Gómez.

The Tenerife Norte – Ciudad de La Laguna airport is also well-equipped for the future with its Dallmeier system, consisting of cameras, recorders and video management: the system is modular and can therefore be easily extended or adapted to meet new requirements. **GIT**



Dallmeier Electronic
www.dallmeier.com
www.panomera.com




Airports

INTERVIEW

The Right Bits

**Now More Than Ever, Digital Access Needs
a Secure Mechanical Backbone**



Kelly Gill,
Chief Technology
Officer at Assa Abloy
Opening Solutions EMEA

Digitalization continues apace in access control. But electronics are a complement to and not a replacement for robust, secure, trusted mechanical design. Kelly Gill, Chief Technology Officer at Assa Abloy Opening Solutions EMEA, discusses with GIT SECURITY the enduring importance of mechanical locking and how it enables the latest innovations in digital access technology.





■ GIT SECURITY: It seems that a rapid shift to digitalization in access is underway. Why, then, do the mechanical components of locking devices continue to be so important?

Kelly Gill: Growing demand for convenience, connectivity, and new functionality is continuously extending the capabilities and choice of locking devices. Digitalization is a key enabler of more convenient and tailored access solutions in residential and commercial buildings, but the necessity for innovations in mechanical design remains as great as ever. Why? Because any new digital locking functionality needs to be backed up by intelligently designed, secure mechanical elements. It is not the electronics that keep the door bolt in position – it is the physical components.

Your role at Assa Abloy spans both mechanical and digital security technology. How does Assa Abloy aim to marry the benefits of both types of functionality in access?

Kelly Gill: The digital components of our security solutions enhance usability and convenience. For example, they replace the need to carry a heavy keychain by providing a credential – a card, key or smart-phone – that can unlock several openings. In the event of a lost key or card, the digital element makes it easy to disable those specific access rights, making it unnecessary to replace the keys and cylinders. Our users enjoy the convenience of these digital features, but an effective lock requires the electronics and mechanical security to work in tandem.

If the mechanical part of the lock is flawed, the door can be opened regardless of its digital security. This is why we emphasize the importance of working with access providers who have a strong heritage in mechanical manufacturing and innovation. It is not just about choosing a solution with the widest set of features.

Are there specific elements within a lock's design that must remain mechanical, while others can migrate rapidly to digital?

Kelly Gill: In truth, many components will remain mechanical. The latest innovations in digitalization add the convenience and flexibility that consumers now expect. One nice example is the Yale Linus, which brings flexible access to a residential door lock without the need for the customer to invest in hardware changes. The Linus' locking bolt is a mechanical component, but it is moved into place electronically. Opening or manipulating mechanical elements like this is where digitalization comes in. I see many parallels with the payments industry: just as customers use their mobile phone instead of a physical credit or debit card, locking will also see a growing demand for solutions where mobile devices or PIN codes or fingerprints act as keys. Authentication and authorization will move to digital, while the internal mechanics keep the door locked and the space secure.

Please turn page ►



Helsinki airport has been equipped with 850 Aperio wireless locking devices, KL100 cabinet locks and H100 handles integrated into an existing Lenel solution.

A multi-point Assa Abloy mechanical master-key system was installed at the City Hospital in Tekirdağ, Turkey not just for doors, but also cabinets, lockers, and more.



Mechanical Locking System

Assa Abloy's CY110 mechanical locking system now provides the hospital with affordable, modern security and access management. The CY110 range has the flexibility to create a Master Key System for all types of locking points – not just doors, but also cabinets, lockers, and more – which suits the hospital's needs and streamlines their workflows. "Security and authorization to access points are very important in a big hospital," explains Emrah Babaoğlu, Senior Electrical Engineer at Tekirdağ City Hospital.

Digitalization also enables seamless integration with other products – in the Linus' case, with smart doorbells, security cameras, and intruder alarms, all controlled by an app called Yale Home that directs the full security ecosystem.

When you choose an Assa Abloy solution, you place your trust in our reputation built on a long history of reliability and service. You can depend on us to ensure that your locks will meet – and often exceed – independent standards for security. Our in-house testing labs push every device and component to its limit, long before it ever reaches the market.

What is the role played by standards in ensuring customers get locking products they can trust? And how is the regulatory landscape evolving for mechanical and digital security?

Kelly Gill: Standards help customers to take an informed decision. They provide a scale to make security comparisons from high to low security needs, for example. Assa Abloy Opening Solutions plays an active part in driving independent standards to a higher level, to ensure that customers have access devices whose mechanical and digital components inspire their trust.

Growing focus on security is evident in the realm of IoT devices where data

breaches and cyber-attacks are, alas, increasingly common. In response to the increased risk, regulatory bodies such as the European Union have begun promoting more robust cybersecurity measures, including regulating the security of products with digital components. Very soon, companies that want to sell into the EU market must show that their products meet basic cybersecurity requirements. PSTI has been introduced into UK law that sets security standards for IoT devices. Assa Abloy has always taken physical and cyber-security very seriously, but these new regulations and standards will also help us in embedding a culture of continuously assessing our practices, fine-tuning our secure-by-design approach. The higher profile for standards will also help us to communicate our security features, risks and best practices with customers – and with the industry.

We strongly believe our commitment to developing secure products – both their mechanical and digital elements – provides a huge benefit in peace of mind. Customers rely on us all over the world – whether that is the new Tekirdağ City Hospital, which needed a large mechanical master-key system for all kinds of locking points, or Helsinki Airport selecting our digital solutions for doors and cabinets to integrate with their existing access management software. We have been designing and manufacturing

solutions for all types of customers, and for a very long time, developing and patenting a vast range of products for almost any application. Innovation is in our DNA.

You mention innovation, a term we hear a lot in marketing material these days! How would you summarize your innovation ethos?

Kelly Gill: Briefly, our approach is to consistently offer leading product performance in security and usability, providing solutions based on market knowledge that are tailored to the customer's needs. We pioneer new solutions – one recent example being digital access powered by energy-harvesting technology, which enables wireless digital devices to work battery-free. And of course, in the modern world, innovation must involve taking responsibility for the sustainability of our products, with a reduced carbon footprint in production and when our solutions are in use over their full life-cycle. **GIT**



Assa Abloy Opening Solutions EMEA
www.assaabloyopeningsolutions.eu

Changes in iLoq's Leadership Team

Jukka Havia has been appointed CFO and member of the iLoq Leadership team and will start in his new position early next year. Prior to joining iLoq, Jukka worked as Chief Financial Officer for Kamux Oyj. iLoq's current CFO Timo Pirskanen will leave the company by mutual agreement in the spring. „I would like to thank Timo for his valuable contribution in developing iLoq's financial management to support our future growth objectives and for refinancing our debt portfolio with a very successful new bond issue. He is an experienced and strategic financial professional and a well-liked colleague. I wish Timo all the best in the next stage of his career“, says Heikki Hiltunen, CEO and President of iLoq. „iLoq's strategy and next phase includes pursuing growth in the US and Asian markets, and Jukka Havia brings strong experience in designing and implementing an international business strategy,“ Hiltunen concludes. www.iloq.com



Jukka Havia



Leo Levit, Chairman of the Onvif Steering Committee

Intersec 2025: Leo Levit on the Future of Video Surveillance Authenticity

At Intersec 2025, held from January 14-16 in Dubai, the topic of video authenticity took center stage. The presentation, titled „Matter of Trust: Media Authenticity in Video Surveillance,“ was delivered by Leo Levit, Chairman of the Onvif Steering Committee, as part of the Intersec Security Leader's Summit.

Founded in 2008, Onvif is a well-recognized industry forum driving interoperability for IP-based physical security products. The organization has a global member base of established camera, video management system, and access control companies, with more than 30,000 profile conformant products. Onvif offers various profiles for streaming video, video recording and storage, physical access control, advanced video streaming, metadata and events for analytics applications, and access control peripherals.

The session addressed the growing need to authenticate video footage in an era where sophisticated tools can create deepfakes and subtly alter videos in ways that are challenging for the human eye to detect. Levit emphasized the importance of safeguarding the authenticity of video to ensure it remains a trusted source of evidence in court and an accurate record of events.

The event reinforced the importance of video authenticity in the security industry and showcased the ongoing efforts to develop and implement standards that ensure the reliability and trustworthiness of surveillance footage. www.onvif.org

Future-Ready Security Solutions at Intersec Dubai 2025

Matrix Comsec participated in Intersec Dubai 2025 from January 14th to 16th at Booth CA-29, Saeed Hall 1, showcasing its NDAA-compliant security solutions. Matrix offers end-to-end cyber-secure video surveillance solutions, including VMS certified for cybersecurity and aligned with OWASP Top 10 Desktop Security Risks. Visitors could explore Matrix's Project Series and Professional Series Bullet and Dome Cameras, meeting Owasp Asvs 4.0 L2 standards and carrying UL and CE certifications. The All-Color Network Cameras provide superior color images in low-light conditions, enhancing enterprise-grade surveillance. Matrix introduced the Video Management Software Platform (VMSP), integrating NVR, server, and VMS for seamless surveillance management. New features include BACnet Integration for Building Management Systems and WhatsApp Integration for instant notifications in Video Surveillance and Access Control systems.

New European Presence

Optex has established its new subsidiary, Optex Technologies GmbH (OTG), in Dusseldorf Germany, effective January 1, 2025. This strategic move aims to strengthen the company's presence in the European market for automatic door sensors. Germany plays a key role in setting European standards for automatic door technology. By collaborating closely with local manufacturers, distributors, and partners, the subsidiary will enhance technical support and customer engagement. Takeshi Ibaraki, Managing Director, will focus on expanding its innovative solutions and exceptional services within the DACH and Eastern European Region. This milestone underscores the company's commitment to creating safer and more comfortable living environments through advanced sensor technology. The company looks forward to fostering stronger partnerships and driving growth in Europe. www.optex-europe.com

The Entire Construction Industry Event

From November 19 to 21, 2025, Fiera Milano will once again host the four simultaneous events. GEE - Global Elevator Exhibition, is dedicated to vertical and horizontal mobility. MADE Expo, is the international event for innovative and sustainable construction solutions and building envelopes, which will run for one additional day, closing on November 22. SBE – Smart Building Expo, is the reference event for home and building automation and technological integration. Sicurezza is Italy's leading event and one of the most important in Europe for security and fire protection. The construction industry is facing an epochal challenge: the twin transitions of ecological and digital transformation, along with emission reduction. All sectors will have the opportunity to discuss these topics at MIBA – Milan International Building Alliance 2025. www.fieramilano.it

PHYSICAL SAFETY

Fruitful Acquisition

Qognify is Now an Integrated Part of Hexagon's Safety, Infrastructure & Geospatial Division

In April last year Qognify became part of Hexagon – now it has been integrated into Hexagon's Safety, Infrastructure & Geospatial Division. The company aims to open up a "new era of innovation in the field of physical and public safety" with the acquisition. With Qognify VMS in the product palette, Hexagon now has a powerful video management software package to meet complex requirements. In turn, existing Qognify customers benefit from access to a broader portfolio of solutions beyond security technology. GIT SECURITY spoke with Andreas Conrad, VP of Marketing, Physical Security, Hexagon's Safety, Infrastructure & Geospatial division and Andreas Beerbaum, Vice President of Sales, Physical Security – International.

■ GIT SECURITY: Mr. Conrad, Mr. Beerbaum, Qognify is now part of Hexagon. What is behind this acquisition?

Andreas Beerbaum: We are currently seeing an increase in risks and threats worldwide. The consequence of this is that the importance of security technology for many organizations is constantly increasing - and the need for technological solutions is growing. Hexagon has recognized this potential and made the strategic decision to actively address the physical security market with its own solutions. The acquisition of Qognify, an established, global software

manufacturer with a strong solution portfolio, was therefore a logical step.

Andreas Conrad: Another reason for the takeover was that by combining the new solutions with the existing portfolio, Hexagon can offer its customers even more powerful overall solutions from a single source - and additional added value. A good example of this is public safety - Hexagon has long been offering dispatch and control center solutions, which can now be effectively supplemented by video technology.

Could you give our readers who may not yet be familiar with Hexagon an overview of this very large company with around 25,000 employees?

Andreas Conrad: Hexagon is a world-leading, listed provider of sensor, software and autonomous solutions that are efficiently connected using the concept of digital reality. Our solutions enable our customers to make meaningful use of rapidly growing volumes of data and use them to increase efficiency, productivity, quality and safety.

The Safety, Infrastructure & Geospatial Division, which includes the former Qognify as its physical security business unit, improves the resilience and sustainability of critical services and infrastructure for the benefit of the community. In concrete terms, this means that our technologies transform complex data into meaningful information that can be used to make faster and better decisions.

Andreas Beerbaum, VP of Sales, Physical Security – International, Hexagon's Safety, Infrastructure & Geospatial Division

And what can we find in Hexagon's security portfolio?

Andreas Beerbaum: Until the acquisition of Qognify, physical security played only a minor role in Hexagon's portfolio. Corresponding solutions were therefore seen as functional additions to other applications such as computer-aided dispatch. The acquisition of Qognify has changed this: With Qognify VMS, Hexagon now has a powerful video management software that is tailored to the complex requirements of organizations for which security plays an essential role. As a PSIM and incident management solution, Situator creates a comprehensive understanding of the situation across different technologies and sensors and controls the response process based on digital workflows.

Andreas Conrad: Another product from the Hexagon portfolio is the Accur8vision detection solution, which enables advanced 3D perimeter protection based on LiDAR technology. The solution is already integrated with Qognify VMS and complements the range of detection options there.

What are the effects and advantages for existing Qognify customers?

Andreas Beerbaum: Our customers and partners are the foundation of our success - that is why it is important to us that we remain a reliable partner for them under the Hexagon brand. In concrete terms, this means that they will be able to obtain the same portfolio of solutions for physical security from the same contacts in the



future. What is new is that our customers have access to a broader portfolio of solutions from a single source, which also includes computer-aided dispatch technologies, geoinformation systems or asset management solutions, for example.

Andreas Conrad: Some of our customers were already using a combination of Qognify and Hexagon solutions before the acquisition. One example is the Frankfurt am Main transport company (VGF), which implemented an advanced service and security control center using our video and dispatch applications. Projects like this impressively demonstrate the greater value of the expanded portfolio.

What are the long-term expectations of this step?

Andreas Beerbaum: Hexagon has decided to enter the security technology market in order to continue to grow. Proof of this is that we have continuously invested in additional development resources for Qognify VMS since the takeover. We want to be able to offer our customers the most comprehensive solution portfolio possible from a single source, which offers high utility

value through the closest possible networking of systems and applications. This includes expanding our range of physical security solutions as well as the interaction with other Hexagon technologies.

What is next? What plans do you have for the next few months or beyond?

Andreas Beerbaum: We are focusing on three topics for the near future: innovation is deeply embedded in Hexagon's DNA - the development of new, innovative functions that provide our customers with real added value is therefore very important to us. In this context, we are already looking forward to the next version of Qognify VMS, which is planned for early next year. We will also be working on deeper integration with other Hexagon products, such as the HxGN OnCall dispatch solution or the HxGN Connect collaboration platform. Another priority is the continuous expansion of our solution portfolio. **GIT**

Andreas Conrad,
VP of Marketing, Physical Security,
Hexagon's Safety, Infrastructure &
Geospatial Division



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EVENT

Building Solutions

The Construction Industry is Facing a Challenging Twin Transition

Fiera Milano, with MIBA 2025, will once again give a voice to the markets and professionals responsible for achieving the ecological and digital transition of the building industry. The synergies between GEE - Global Elevator Exhibition, the fair for horizontal and vertical mobility; MADE Expo, the leading event for the construction sector; Smart Building Expo, the event for technological integration; and Sicurezza, the reference fair for security & fire, will continue at the exhibition center in Milan in November 2025.

■ The construction industry, along with all sectors involved in new builds, renovations, and maintenance, is facing an epochal challenge: the twin transitions of ecological and digital transformation, along with emission reduction. The time is now critical. The Energy Performance of Buildings Directive (EPBD) of the European Union requires new buildings Europe-wide to transition from nearly zero-energy levels to zero emissions by 2030, while existing buildings must significantly reduce both energy consumption and emissions over the same period. Renovation work on building envelopes, systems, and technologies is not only necessary but also a key driver for growth across all sectors, which will have the opportunity to discuss these topics at MIBA - Milan International Building

Alliance 2025, the international hub for building and city design, construction, and renovation.

Market Outlook

As is well known, the construction sector has undergone a significant transformation since the pandemic. According to preliminary data from CRESME - the Italian research company specialized in construction and territorial development which will provide expertise for Fiera Milano in identifying market trends - investments in Italy are expected to decline by 4.2% in 2024 compared to the previous year, a less significant drop than expected, while the downturn will continue into 2025 (-6.2%). The construction market, after the boom years of 2021-2023, is seeing a contraction due to

the exhaustion of the 'superbonus' push. However, it is being supported by public works expenditure, which is expected to grow by 13.7% in 2024. Despite the contraction, the Italian construction market seems to have made a significant leap compared to pre-pandemic levels, with the value of production in 2025 expected to be 20% higher than in 2019.

The MIBA Observatory

To provide concrete support to the market and industry professionals, Fiera Milano has appointed Politecnico di Milano as the scientific partner of MIBA to create an Observatory that will analyze scenarios and trends, with the goal of focusing on key development areas. The first study from the Observatory, presented today, focuses

The MIBA Observatory

As the national implementing decrees for a fourth update to the Energy Performance of Buildings Directive (EPBD IV) are still being defined, the MIBA Observatory has developed three hypothetical scenarios for the period 2025-2035, predicting different levels of investment and potential savings.

The three scenarios – a conservative one (Business As Usual - BAU), one in line with the EPBD objectives (Policy Driven), and an optimistic one (Ambitious) – assume different levels of spending on energy renovation projects, in addition to the fixed annual investments expected for renovation/maintenance that are assumed to arise regardless of the implementation of the Directive and remain stable at pre-superbonus levels.

1: In the Business-As-Usual scenario, a limited implementation of the EPBD principles is expected, which will primarily serve to counteract the market contraction that would occur in the absence of clear regulatory requirements at the EU level. Under this scenario, investments in energy-efficient retrofitting are anticipated to follow a trend similar to that achieved through the ecobonus initiative, amounting to approximately €3,700 million/year for the residential sector. This is expected to result

in an additional energy savings (relative to the level achieved in 2024) of about 15,500 GWh/year by 2035. Combined with the 30,000 GWh/year achieved by the end of 2024 compared to 2020, this will account for 65% of the savings required by the EPBD by 2035. Additionally, investments in energy retrofitting for non-residential buildings, estimated at €700 million/year (yielding energy savings of 2,800 GWh/year by 2035), along with conventional renovation/maintenance activities (not specifically aimed at energy efficiency), contribute to a total business volume of approximately €84,000 million/year.

2: In the Policy-Driven scenario, market evolution is assumed to be effectively guided by the prompt and robust application of the EPBD. For the residential sector, additional energy savings (relative to 2024) are projected to reach at least 40,000 GWh/year by 2035. Achieving this will require an average annual investment of around €10,000 million in energy retrofitting during 2025–2035. For the non-residential sector, investments needed to achieve the energy savings target (estimated at approximately 22,000 GWh/year by 2035) are projected at €5,500 million/year. Altogether, for the entire existing building

stock, including conventional renovations/maintenance, the total business volume is expected to reach €95,500 million/year, representing a 13% increase compared to the BAU scenario.

3: The Ambitious scenario, the most challenging of the three, assumes that the full potential of the EPBD is leveraged to achieve a higher rate of retrofitting than the minimum required. This outcome would likely be enabled by several factors, including heightened market awareness of energy and environmental issues (and their economic implications), greater state incentives, a clear and streamlined regulatory framework, and the absence of speculative phenomena driving up costs. Under this scenario, average annual investments of approximately €14,500 million in the residential sector (resulting in 58,000 GWh/year of energy savings by 2035) and an additional €8,000 million/year for the non-residential sector (yielding 33,000 GWh/year of savings by 2035) are projected. Including conventional renovations/maintenance, the total business volume for the existing building stock is estimated at €102,500 million/year, reflecting a 22% increase compared to the BAU scenario.

on the Energy Performance of Buildings Directive and its potential impact on various sectors represented by MIBA: building envelopes, materials, systems, energy, and technologies. Specifically, since energy renovations alongside building renovation/maintenance are the main drivers for the construction sector, it is clear that the future of the sector is inextricably linked to the technical, economic, and regulatory measures that will be implemented to ensure not only stabilization but also growth.

In this regard, the Renovation Wave, the European Commission's strategy aimed at improving the energy efficiency of buildings (which currently account for 40% of emissions and nearly 50% of energy consumption), can serve as the primary stimulus for the renovation of buildings, with the aim of reducing their environmental impact and increasing their resilience to climate change. The final goal is to have buildings and cities that meet modern standards of sustainability, efficiency, comfort, functionality, security, and accessibility.

View to the Future

This is an extremely challenging time for construction professionals: today, 75% of

Italy's building stock is energy-inefficient, and more than 85% of buildings in 2050 are likely to still be in use. This immense

stock, which will require renovation once the era of the superbonus and the National Recovery and Resilience Plan have passed,

Please turn page ►



The MIBA Four

MIBA – the Milan International Building Alliance – with its cross-sector approach, will offer a comprehensive view of materials, products, technologies, processes, and solutions involved in creating environmentally friendly, smart, safe, and accessible buildings and cities. Thanks to the synergy of four fairs dedicated to vertical markets, MIBA 2025 will provide a unique opportunity for professionals and companies to experience firsthand technological and material innovations and develop the integrated, holistic approach required by today's market and clients.

GEE, the Global Elevator Exhibition: over €2.9 billion is the value of the elevator and escalator market in Italy, which experienced a 9.5% growth between 2022 and 2023. Trends, innovation, technology, and sustainability will take center stage in the next edition. GEE also boasts prestigious partners such as ANACAM (the Italian Association of Elevator Construction and Maintenance Companies), reflecting a shared commitment to facilitating networking among participants and fostering new opportunities for collaboration and growth for the companies involved.

MADE Expo: Divided into two main sections, Construction and Envelope,

MADE Expo 2025 will showcase the latest technologies, innovative materials, and sustainable solutions to enhance building comfort and safety. The event will focus on key themes such as digitization in construction, redevelopment, and structural safety—central topics for the future of Italy's real estate assets. MADE Expo 2025 will also be an opportunity for professionals to exchange ideas and gain training, featuring a rich program of conferences and workshops. Among its highlights, the third edition of the MADE Awards will be organized for the first time by the Politecnico di Milano.

Smart Building Expo: the home and building automation and technological integration exhibition, organized by Fiera Milano and Pentastudio, is the go-to trade fair for the entire supply chain of the electrical-electronic and home/building automation sector. This sector is poised to lead the electrification and decarbonization of buildings under EPBD IV. In Italy, this industry comprises over 66,000 companies with 251,000 employees, generating €21.8 billion in production value in 2023, with an average annual growth rate of 9.4% (ANIE-CRESME data). The event will focus on innovations enabling the smart evolution

of buildings and cities: renewable energy, control and management platforms, network infrastructure and connectivity, home and building automation, electrification of systems and buildings, smart lighting, and e-mobility infrastructure.

Sicurezza: dedicated to the security and fire prevention sectors, it is preparing to reaffirm its role as a unique event in Italy and one of the leading ones in Europe. Companies now face a significant challenge: quickly adapting to effectively manage new EU regulations such as NIS2, CER, and CRA, aimed at strengthening cybersecurity resilience and risk management across member states. The event will highlight the evolution of a sector deeply rooted in research and innovation, supporting companies through this transformation process. With contributions from leading European and global manufacturers, participants will gain insights into increasingly tailored solutions for diverse applications, enhanced by AI, which is revolutionizing how threats are addressed, and improving systems' effectiveness, speed, and precision. A comprehensive training program will also be integral to Sicurezza, providing professionals with tools to navigate this period of great change.

could become the true leverage for Italian market stability, growth, and development.

Added Bonus

Enriching the MIBA program will be a wide range of conferences, seminars, and workshops organized around the three main themes identified in the previous edition: sustainability, innovation, and regulations. Alongside crosscutting events,

each trade show will offer targeted sessions for technicians and professionals, ensuring comprehensive coverage of the hottest topics in building design, construction, and management. To better serve the market and meet operators in their region, Fiera Milano is also working on a MIBA spin-off scheduled to take place in Bari in November 2026. MIBA Levante will alternate with the Milan event, held in odd years. This new

initiative aims to bridge the two MIBA editions while providing Southern Italian professionals with an opportunity for updates and discussions. **GIT**



Fiera Milano S.p.A.
www.fieramilano.it

Suprema AI Wins 'Best of Innovation' Award at CES 2025

Suprema AI, a specialized provider of on-device AI solutions based on video analysis, has won the Best of Innovation Award in the Embedded Technology category at CES 2025.

The CES Innovation Awards (Honoree) are presented to companies that showcase innovative products and technologies in the global IT and consumer electronics industries. Among them, products that receive the highest overall ratings in technology, design, and innovation are honored with the prestigious Best of Innovation Award.

Suprema AI's award-winning Q-Vision Pro is the world's first on-device AI module



designed to predict and prevent financial crimes occurring around standalone devices like ATMs.

By combining AI-based facial recognition technology with behavior analysis, Q-Vision Pro can forecast potential financial crimes and

block illegal transactions, safeguarding the assets of both customers and banks. Notably, it operates independently of a network, supporting up to 50,000 users while incorporating robust multi-layer data encryption to ensure secure functionality in standalone environments. The product is offered in two hardware form factors: an embedded type for new ATMs and an add-on type that can be easily installed on existing ATMs, providing customized solutions tailored to client needs.

The award-winning product will be showcased at the Las Vegas Convention Center from January 7 to 10 during CES 2025.

www.supremainc.com

Intersec 2025 – Post Show Report

Insights From the 26th Edition Intersec 2025



Engaging minds –
Visitors at Intersec 2025



A handshake with tomorrow:
Robotics gaining importance
and attention at the show



AI takes centerstage in trans-
forming data storage solutions

Held under the patronage of Sheikh Mansoor Bin Mohammed bin Rashid Al Maktoum, the 26th edition of Intersec mapping the future of security, safety, and fire protection hosted 1,200 exhibitors from 61 countries and welcomed 52,000 global trade visitors. Intersec 2025 ran from January 14 to 16 at the Dubai World Trade Centre (DWTC), spanning 31,000 net square meters across 12 halls, a 20% growth compared to the previous year.

This year's edition introduced new highlights like the Intersec Policing Conference with 50+ experts, the CISO Business Briefing on cybersecurity trends, and the Startup Arena for disruptive solutions. Flagship programs included the Security Leaders' Summit, Safety and Health Conference, and Fire and Rescue Conference. The Intersec 2025 Awards celebrated innovation in safety and security, with notable wins from UAE organizations.

What We Noticed Along The Way...

As we navigated the halls of Intersec 2025, the event felt less like a showcase and more like a journey into the future. Every corner sparked conversations about evolving risks and the critical need for systems that are intuitive, adaptable, and prepared to integrate seamlessly. One couldn't but sense the urgency behind every conversation: The EU was criticized for its slower adoption of new technologies, delayed decision-making, and a lack of investment in modern systems, leaving it more vulnerable. However, experts predicted an inevitable shift to cloud-based physical security technology across the region. Meanwhile, Saudi Arabia was highlighted as a model for growth and ambition, leveraging long-term planning to bypass obstacles like bureaucracy. They noted that India is rapidly advancing its goals for sophisticated security systems, while the USA continues to lead the transition to cloud solutions. This curiosity is further fueled by recent developments in the USA, where President Trump announced billions of dollars in private sector investment to build artificial intelligence infrastructure. The Stargate project, a \$500 billion initiative funded jointly by OpenAI, Oracle, and Softbank, aims to keep AI advancements within the country, positioning the USA as a leader in this critical field.

Regional Dynamics And The Role of Education

Through our exchanges and conversations, these regional dynamics were highlighted, reinforcing the role of education among decision makers and government responsibility in mitigating vulnerabilities — because behind every technological leap lies the need for informed decision-making. In a world where risks evolve as quickly as solutions, the ability to anticipate and address vulnerabilities is crucial.

Looking Ahead to Intersec 2026

With Intersec's 27th edition on the horizon, set for 12–14 January 2026 at the Dubai World Trade Centre, we find ourselves wondering how the security landscape will evolve over the next year, considering the rapid pace of change. Intersec always offers a glimpse of what's next, and we're ready to be part of that journey once again. **GIT**

Woven mesh fencing system
ArmaWeave is at the heart of many
CI fencing solutions from Zaun

PERIMETER PROTECTION

From CPNI to NPSA

Securing Critical Infrastructure in a Changing Landscape

The United Kingdom prioritises the protection of Critical Infrastructure (CI) through the National Security and Investment Act (2016). Previously, the Centre for the Protection of National Infrastructure (CPNI) shouldered this responsibility.

■ However, in 2023, the National Protective Security Authority (NPSA) was established as part of the Integrated Review Refresh, marking a shift in focus towards a broader range of security threats. This thought piece explores how this change impacts perimeter security for CI, particularly airports and ports, while examining the challenges posed by modern security threats in the United Kingdom in an evolving threat landscape. NPSA is a part of the Security Service, MI5.

The Evolution of CI Protection in the UK

CPNI played a vital role for more than 15 years since its formation in 2007, offering protective security advice to CI owners and operators. Their primary focus was on terrorism and espionage, reflecting the security landscape of the time. However, the ever-evolving landscape necessitated a more comprehensive approach.

The NPSA builds upon the CPNI's foundation, retaining core protective security advice functions. However, it expands its remit to encompass a wider range of threats, including:

- **Cyber Threats:** Cyber attacks targeting IT systems and networks of CI.
- **Insider Threats:** Threats posed by individuals with authorised access to CI.
- **State Actors and Organised Crime:** Threats originating from foreign governments and criminal organisations.

Five-Fold Holistic Security Approach

This shift reflects the growing complexity of security challenges faced in the CI space today. Notably, the NPSA emphasises a holistic security approach, advocating for a layered defence strategy:

- **Physical Security:** Robust perimeter fencing remains a crucial first line of defence.
- **Technical Security:** Implementing access control systems, CCTV and intrusion detection systems.
- **Cyber Security:** Securing IT systems and networks to prevent cyber attacks.
- **Information Security:** Protecting sensitive information from unauthorised access.
- **People Security:** Vetting personnel, raising security awareness and managing insider threats.

Impact on Perimeter Fencing for UK CI

While the core principles of perimeter security remain relevant, the NPSA emphasis necessitates a more nuanced approach to fencing solutions in the UK. Here's how:

- **Threat Assessment:** The NPSA encourages a thorough threat assessment to identify the specific vulnerabilities of a CI site in accordance with UK security standards. This assessment determines the type and level of fencing required.
- **UK Security Standards:** The NPSA emphasises compliance with relevant UK security standards for perimeter fencing. These standards may be set by specific government bodies or industry associations.
- **Integrated Security:** Perimeter fencing should be integrated with other security measures such as access control systems, CCTV and intrusion detection. This creates a layered defence that deters and delays potential attackers.
- **Adaptability:** The NPSA encourages adaptable security solutions. With evolving threats, fencing solutions may need to be upgraded or modified to address new challenges.



ArmaWeave can be combined with electric fencing and PIDs

■ **Emerging Technologies:** The NPSA encourages the adoption of emerging technologies like drone detection systems and advanced surveillance cameras to enhance perimeter security in the UK context.

Wars Without Gun Smoke

However, what does this mean for the industry? Let us first look at the changing threat landscape. One of the biggest threats to physical perimeter security in the UK currently is the threat to the supply chain.

In the Fall edition of International Security, Ling S Chen and Miles M Evans stated in “Wars Without Gun Smoke: Global Supply Chains, Power Transitions, and Economic Statecraft” that ‘the spread of global supply chains has provided new economic weapons for great powers waging these conflicts.’

Where there is a want and need for physical perimeter security, it is now becoming more reliant on overseas suppliers to fill this need, with the decline in British manufacturing. As stands currently, there is only one British owned in-house manufacturer of welded mesh fencing systems remaining. Others are now solely reliant on imported finished or semi-finished products from Turkey, China and mainland Europe.

A supply risk exists to these from the sanctions applied to Russia due to its continued conflict in Ukraine, which has seen UK and EU trade sanctions against Russia. The UK and the EU have introduced a ban on the import or purchase of iron and steel products containing iron or steel inputs originating in Russia and processed in other ‘third’ countries.

If projects cannot source finished products due to the impact on the supply chain,

then the ability to upgrade and defend against the latest threats in the physical landscape increases. In effect, if you can’t buy the product, you can’t deploy it.

Protecting Against the Future

Looking towards the future, we are seeing the advice that physical security must be upgraded to defend against the latest threats. High profile people and assets, including airports and ports, are now recognised as legitimate targets. Existing systems must be adapted to prevent against the latest threats and surveillance. Projects should be assessed against the following:

- **Supply chain vulnerability:** Global supply chains are crucial battle lines in modern power transitions. Ask yourself, Can they support the future needs and wants of CI?
- **Energy as a weapon:** What are the manufacturers doing to remove the threat of energy as a weapon from their manufacturing processes?
- **Product development:** Are manufacturers adapting systems or developing new solutions to defend against the latest threats?
- **Internet of Things:** Are automated physical security systems protected against attacks? Can a cyber attack threaten the overall physical security? ■

Author:
Stewart Plant

Sales and Marketing Director, Zaun Limited



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Experience a safer
and more open world

GIT-PRODUCT-TEST

Come Closer

The GIT SECURITY INTERNATIONAL Team Tested the New Paxton Entry App – Here's Our Review

You may be familiar with this situation: your trusted craftsman has arrived after trying to find an appointment for a long time, but unfortunately you haven't entered the appointment in your calendar. Now, of course, no one is at home when he arrives at the door and rings the doorbell. Even worse, you don't even realize that you've missed an important appointment. In this situation, it would be an advantage if you were notified that someone is asking to come in. It would be even better if you could see who it is, speak to the person and, after verified, even let this person into the house.

■ With the new Paxton Entry app, which was launched in October last year, calls from a Paxton Entry door station can be answered from virtually anywhere. It doesn't matter whether reception staff have just made their way to the coffee kitchen or you are on the other side of the world. But how simple and intuitive is the configuration and operation for the technically untrained mind? GIT SECURITY INTERNATIONAL has done the check.

Requirements For Use and Registration

On the hardware side, the Paxton Entry app is compatible with all Entry systems from Paxton, no matter new or existing. To provide flexibility, users can choose between a combination solution of Paxton Entry monitors with the new app or the use of the Paxton Entry app without a monitor. The central prerequisite is, of course, that the respective Entry door station has an internet connection.

To use the Paxton Entry app, you must first register on the new myPaxton online portal. To make this as convenient and accessible as possible, users can choose between five language options, namely English, Danish, French, Dutch and German. They then decide whether they want to register as an installer or system manager. Employees

of companies that sell or install Paxton products select the "installer" option. However, if a company offers management services for a site with Paxton devices or the end-user has an in-house IT team who would like to manage the system themselves, registration takes place as a "system manager".

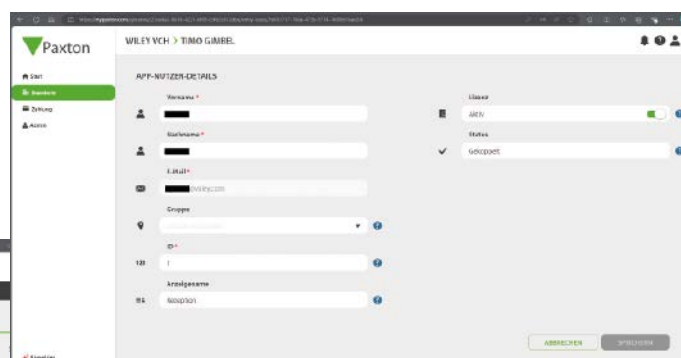
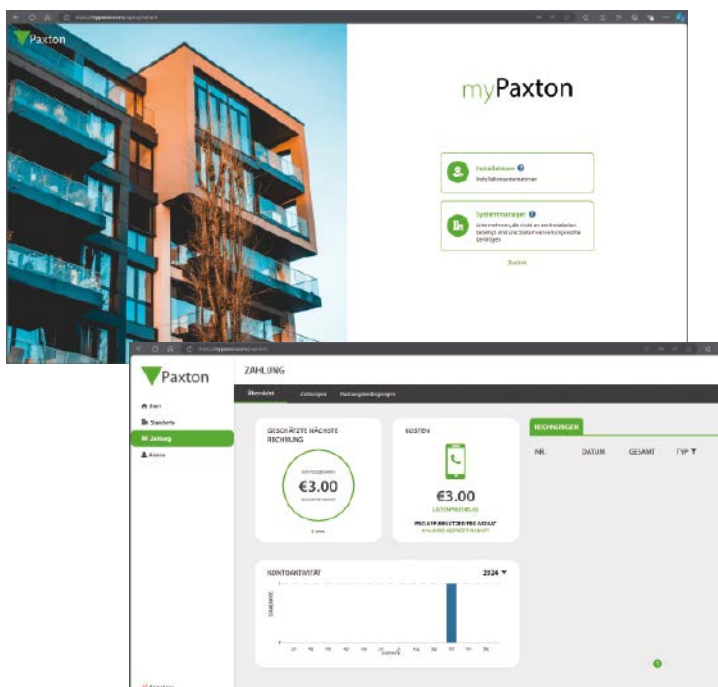
First-time users are then asked to set up their payment method. This can be done either automatically on a monthly basis or manually. The portal is also used to manage payments easily and conveniently. In addition, the system manager can quickly and easily add additional administrators in the portal, who in turn receive authorization to use the portal.

Configuration and Setup of a Location

After the actual registration, the configuration and setup of a new location takes place. This only requires a few clicks and entries in the portal. All users need to connect their Paxton hardware to a specific location is the serial number of the respective Entry door station and the engineering code. If both are entered correctly, pairing takes place automatically. If there is more than one location, these can be added in the same way and managed centrally from the portal.

The online portal myPaxton is also used to manage those users who will later be able

◀ Depending on the type of company, users can either register as an installer or as a system manager



▲ If the app user is set to "Active", they can connect to the location to receive calls and start recurring costs as an active user

◀ The myPaxton online portal offers users absolute transparency with regard to costs and invoices



Further details on the Paxton Entry app can be found here



Paxton

www.paxton-access.com/de/systeme/entry/apps

to grant access to visitors via the Paxton Entry app. This allows one or more app users to be assigned to each location. All you need to do is enter an app user's name, email address and an designated ID number. As soon as the relevant details have been saved, an email is sent to the future app user, which contains a temporary password that will later be required to set up the app.

Installing of the Paxton Entry App and How to Use it

Setting up the app itself is very easy for users, requires no prior knowledge and is completely self-explanatory. Depending on the smartphone or tablet, the Paxton Entry app is downloaded and installed via the App Store or Google Play. The user then logs in by entering their email address and temporary password. When logging in for the first time, the user is asked to set their own password. The connection to the location is then established automatically. Additional locations can be assigned to the app user in the portal. In these cases, the connection is made automatically, and the app user is only informed of this by e-mail.

Conclusion of the GIT SECURITY INTERNATIONAL Editorial Team

The next tradesman who rings the Paxton Entry door station rings the app user's smart device at the same time. They can answer the call, speak to the visitor, and even let them into the house.

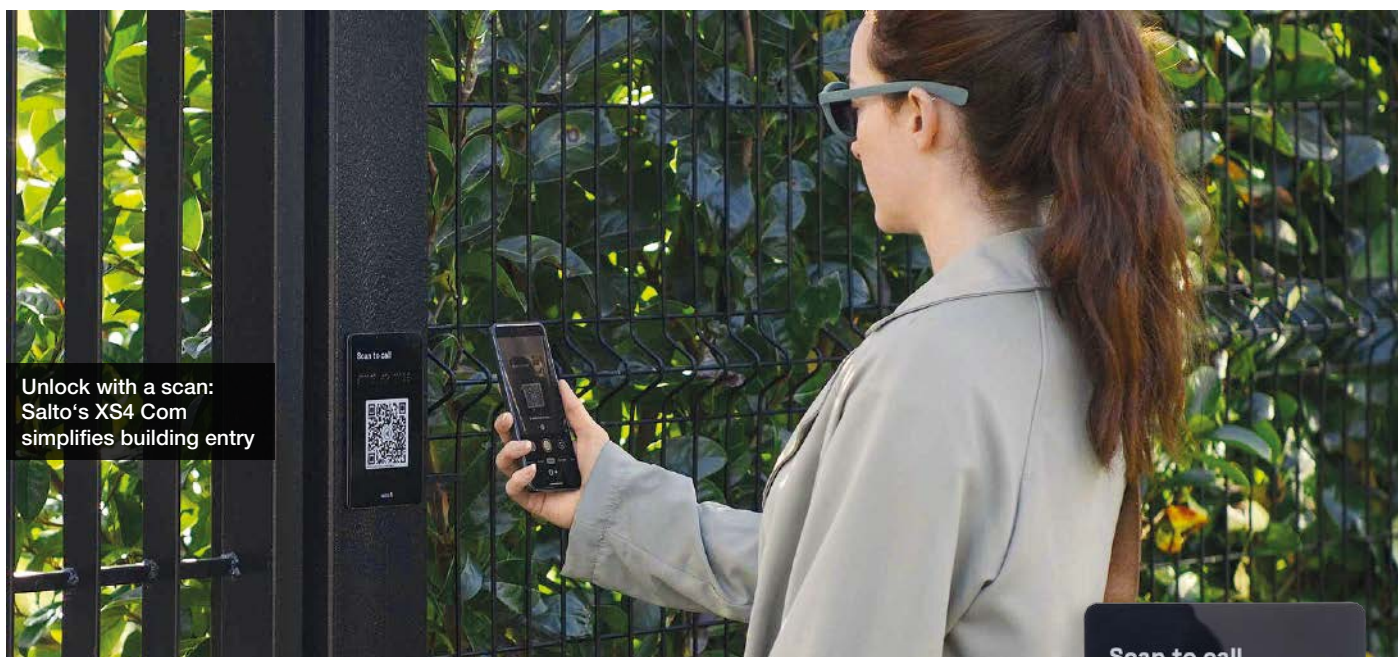
The Paxton Entry app is intuitive to use and can be operated by anyone. Even registration in the portal and configuration do not require any prior technical knowledge or expert knowledge. The individual steps are essentially self-explanatory. Anyone who has connected their own heating, air conditioning or other IoT device to the network will have no problem setting up the online portal and Paxton Entry app. The menu navigation is clearly structured and contains no superfluous elements that would make it difficult to use. **GIT**



Safety, Security, and Efficiency in a Beauty Cluster

A smart solution from Bosch Building Technologies has been precisely tailored to meet the Babor Beauty Group's requirements. It integrates, among other things, fire protection, intrusion alarm and access control systems, as well as a video security solution for safeguarding the perimeter and premises. Research and development as well as production take place at the company's headquarters in Aachen, Germany, while filling and logistics are located just a few miles away in Eschweiler. The AI-based video security solution analyzes every captured image while using predefined rules and only triggers an alarm if at least one of them is met. A digital visitor management system saves time with a self-registration function, while the smart truck and parking space management with license plate detection provides user-friendly access control. The centralized management platform provides control of all building systems, enabling Babor Beauty Group's operations and management team to respond efficiently to security-related events.

www.boschbuildingtechnologies.com



ACCESS CONTROL

Simplifying Building Access and Communication

Salto's XS4 Com Allows Effortless Building Access by Providing an Innovative Door Intercom Solution

Salto Systems has introduced the XS4 Com, a cloud-based video door intercom platform designed to enhance building access and communication. This solution integrates seamlessly with modern digital lifestyles in residential, workspace, and commercial environments, marking Salto's entry into the smart intercom market.

A New Approach to Door Intercom Solutions

The XS4 Com iGO offers a significant advancement in visitor management and access control. This user-friendly system allows visitors to initiate communication by scanning a QR code or tapping their NFC-enabled phone on an iGO plate. It features two-way audio and video verification for entry control, enabling residents to manage interactions directly from their smartphones. They can accept calls, visually verify visitors, and remotely grant access if necessary.

This technology operates without the need for power or an internet connection, addressing the complexity and cost issues associated with traditional intercom systems. The XS4 Com iGO transforms any building's perimeter access point into a connected, decentralized, and secure entry.

Advanced Features for Modern Access Needs

The XS4 Com platform facilitates communication with visitors and manages door and gate access from anywhere. It integrates with Salto's smart access control platforms, Salto KS and Homelok, creating a unified ecosystem accessible via web and mobile applications. This system centralizes all access control-related features into a single platform, making it an all-in-one solution for managing building access and communication.

Geofencing technology enhances security by ensuring that calls can only be initiated when visitors are physically near



the property. This feature, combined with seamless integration with existing Salto solutions and smart locking technology, makes the XS4 Com iGO adaptable to various environments, ensuring secure, fast, and efficient access control.

Ease of Installation and Use

Designed with simplicity in mind, the XS4 Com offers an intuitive interface for both installers and site administrators. Installers can integrate the system into existing setups with minimal disruption, while administrators benefit from streamlined processes for real-time entry monitoring and remote access control. The system's ease of use does not compromise its advanced capabilities, making it an ideal choice for modern building ecosystems. **GIT**



Salto Systems
www.saltosystems.com

AI-Powered Solution Improves Patient Care



© Mobotix

The NurseAssist solution from Kepler Vision Technologies and Mobotix has received an important upgrade. The c71 Smart Sensor now more accurately detects behavior abnormalities and improves accuracy that reduces false alarms.

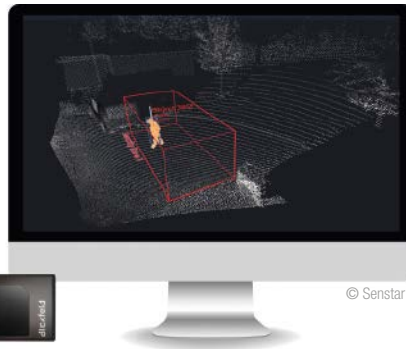
The NurseAssist sensors continue to remain GDPR and HIPAA compliant, which protects patient and resident privacy while ensuring their safety. Following the successful

launch of NurseAssist in November 2023, the upgrade extends the functions of the reliable fall detector, which can be used in hospitals, elderly care facilities or psychiatric clinics. False alarms can be reduced by 90 percent compared to conventional systems. The camera can now also recognize whether a patient is sitting or lying on the floor, whether they want to leave the room or enter the bathroom and whether they are on the edge of the bed and need support or not.

www.mobotix.com

Global Expansion of Partnership

Senstar and Blickfeld have expanded their partnership from Europe to a global scale, enhancing their ability to deliver advanced 3D LiDAR security solutions for intrusion detection and perimeter protection in critical infrastructure and public safety. Blickfeld's QbProtect 3D LiDAR sensor has been integrated into Senstar's portfolio of perimeter security systems since the partnership's inception. The sensor's ability to detect intruders using advanced 3D LiDAR technology has proven to be a significant asset, particularly in critical infrastructure projects. The sensor also integrates seamlessly with Senstar's Symphony Common Operating Platform that includes VMS, creating a comprehensive, unified solution for perimeter intrusion detection. With this expansion, Blickfeld's advanced 3D LiDAR solutions will now be available to Senstar customers globally.



© Senstar

www.senstar.com

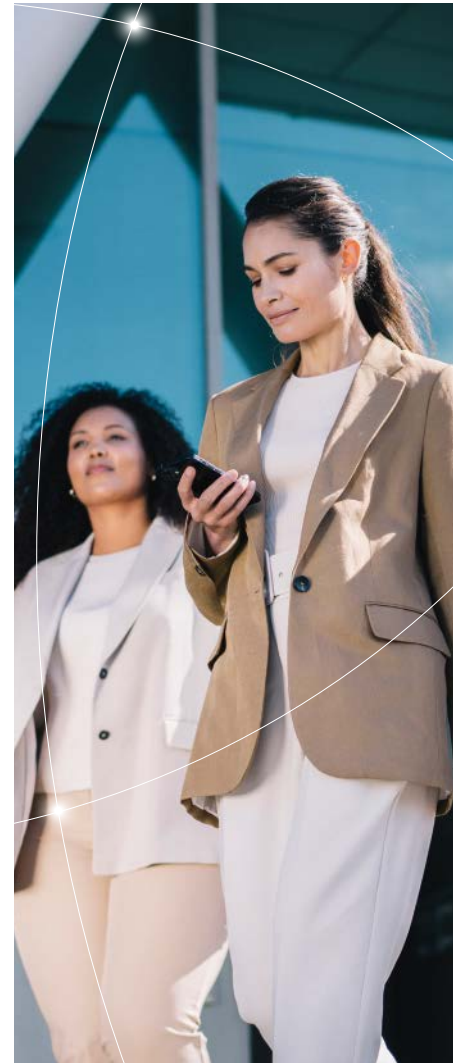
High Zoom Bullet Camera

Formerly Panasonic Security, i-Pro has launched a new line of high zoom bullet cameras with advanced edge AI capabilities designed to deliver exceptional long-range coverage. Equipped with powerful zoom and IR LED technology, the new cameras provide long-distance monitoring across various environments such as highways, parking lots, bridges, ports, and stadiums. The new lineup includes 10x and 30x zoom options, with long-range infrared IR LED capabilities up to 250m for low-light or nighttime conditions. Available in 2MP, 5MP, and 4K resolutions, the range offers twenty new models across the X and S-series. The powerful Ambarella CV52 SoC featured on X-series models incorporates nine pre-installed edge applications, enabling enhanced object detection, AI on-site learning, and incident detection. A wealth of metadata can be delivered to popular video management systems. NDAA and TAA compliant, the line-up is FIPS 140-2 Level 3 certified and features secure boot (X-series) and GlobalSign digital certificates for robust cyber security.



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www.i-pro.com



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ACCESS CONTROL

Help Is At Hand

**Access Specification
Support and Software
Tools from Assa Abloy
Help the Design and Build**

Security specifications can be a difficult and time-consuming task for many different stakeholders in building design, construction and management. Everyone from architects, developers and contractors to security consultants, distributors, and even building inspectors, benefits from trustworthy and transparent support when specifying doors and related hardware. The Assa Abloy Openings Studio software tool helps security specialists and distributors to specify accurately and to manage their stock efficiently.

■ When the goals are better buildings, safer building users and happier customers, the answer lies in a combination of digitalization and personalized service. A unified digital thread eliminates any confusion that can occur when stakeholders juggle multiple versions of documents. Personalized specification support ensures that stakeholders select the right door solutions, project their costs accurately, and minimize costly errors along the way. From initial design to final handover, everyone works smarter.

Software Tools and Specification Support

Assa Abloy has solutions for almost any building or opening, from doors and door closers to wireless digital locking devices and complete digital access ecosystems. This vast range and breadth of project experience creates uniquely broad-based knowledge, including the latest innovations in low-impact mobile access and other

energy-saving digital solutions. Assa Abloy specification experts can ensure fire safety and barrier-free accessibility are factored into early versions of a design, for example. This helps building owners and investors to meet the compliance and safety requirements directly from project initiation, saving time and stress later.

The company has therefore developed software tools such as Openings Studio to help security specialists and distributors specify accurately and to manage their stock efficiently. When a digital thread is maintained by building management, fire and safety inspectors can also complete their tasks time and cost-efficiently. Openings Studio brings projects together in one intuitive environment by creating a transparent digital platform where everyone contributes. For this reason, it is already deployed all over the world as a trusted design, specification, compliance and ordering tool for building projects of every size and type. Deployed alongside per-

sonalized support from locally based Assa Abloy specification teams, it offers material benefits to every stakeholder.

Stakeholder #1: Architects

Architects need everyone on the same page to be able to realize their vision for the final building. Efficient collaboration and effective management of communication help them stay in control of the project's quality and timelines. Openings Studio streamlines this without eating into the time architects need to focus on design. "Openings Studio software introduced us to a whole new way of thinking and efficiency," says David Zarhy, whose firm Zarhy Architects used Openings Studio for the Broadcom R&D Center at Tel Aviv University.

The project transparency and knowledge-sharing that Assa Abloy bring to security specification is also invaluable, saving time and preventing mistakes. With detailed specifications supplied digitally at an early stage, architects visualize door



© Assa Abloy

and security solutions accurately as soon as possible. This way, aesthetics and usability are not disrupted by last-minute hardware surprises.

Stakeholder #2: Building Developers and Owners

Investors want to maximize and future-proof the ROI of their property portfolio. At the same time, they have a responsibility to ensure compliance with barrier-free building access regulations and fire safety. Personalized specification support helps them to weigh options, meet their legal obligations, and control ongoing property management costs. To also meet booming demand for green building accreditations, Assa Abloy offers in-depth support for developers seeking accreditation in six leading green building programs: BREEAM, LEED, Green Star, WELL, DGNB and HQE.

Another welcome benefit for ownership: returns on investing in greener buildings can boost more than just the environment. According to property experts JLL, "... buildings with better sustainability credentials are achieving markedly higher capital values and rents." They estimated improvements of 20.6 % and 11.6 % respectively in one analysis of BREEAM-certified premises for the UK office sector.

Stakeholder #3: Building Contractors

In the construction phase, more than at any other, time is money. Hitting every deadline and budget directly impacts the bottom line. Working smarter with software and specification support ensures that customers come back in the future, supporting a sustainable, profitable business. The path from design to build is smoother when hardware data and deliveries are accurate, so all project changes must be communicated quickly along the stakeholder chain. Openings Studio ensures that builders waste less time coordinating clients and suppliers – which means less disruption of their day-to-day work. Site workers access authoritative specification data for every opening quickly via intelligent tags and QR codes embedded within Openings Studio, for example, which saves time and prevents mistakes.

Stakeholder #4: Security Hardware Specialists and Consultants

The best way to keep customers coming back is by delivering great service. For hardware specialists, this means specifying

technical jobs quickly and accurately. Tools and support that help to automate tedious manual tasks and enable slicker collaboration provide a welcome efficiency boost.

Assa Abloy deliver support through a network of local BIM and specification teams, each with specific knowledge about applicable standards and regulations. They supply products that are manufactured to eco-design principles and that help to reduce ongoing energy use. Detailed, product-specific EPDs highlight the concrete benefits delivered by using more reusable and recyclable materials, and in embedding low-energy and eco-design principles – detailed information that will be essential when the European Performance of Buildings Directive is implemented from 2026.

Stakeholder #5: Distributors

Satisfying customers means shipping the right products on budget and on time, every time. To achieve this, staying on top of current pricing and specification is critical, even when these are in flux because a project is evolving. Effective coordination and accurate quotes are made easier and faster with the help of Openings Studio software.

Part of a longstanding collaboration with Swedoor in Denmark, a large project for Østre Landsret, the High Court for Denmark's Eastern region, was streamlined with the help of Openings Studio. This intuitive tool underpinned door discussions, ensuring efficient decision-making and component delivery for every closer, lock, and cylinder.

In Denmark and elsewhere, Openings Studio has become the focal point of collaboration between Assa Abloy, Swedoor, locksmiths, building contractors and architects. According to Per Løvstad, Sales Manager at Swedoor in Denmark, "Cooperation consists of a total review of the entire door project, door by door, so that our mutual customer feels confident that the doors and the entire package fit together. I can only recommend this collaboration to anyone who has to go through larger projects with doors and fittings."

Stakeholder #6: Building Inspectors

Entrusted with making sure that buildings are safe for users, the inspectors need transparency in fire, safety and accessibility compliance. In the past, this meant manual updates and endless spreadsheets – carried everywhere, even out of the office. "With Openings Studio, you no longer need to

rely on paper or spreadsheets to manage doorset data," explains Marc Ameryckx at Assa Abloy Opening Solutions EMEA. "It is all digitally managed in one place over the life of the building, which saves everyone's time."

Openings Studio helps to maximize the effectiveness of inspections by safeguarding a reliable, up-to-date source of specification info and making it available on demand – even on an inspector's mobile phone. Doorview, who conduct fire inspections in the London area, use Openings Studio to speed up their work. "The Openings Studio app allows us to instantly share fire door inspection reports with our clients," explains Doorview's Jody Purcell. The mobile app equips inspectors with powerful, speedy and transparent reporting tools by leveraging the same information from the design phase through to maintenance of the completed structure. The app also helps Doorview to implement a remedial action list, which reassures the client that their building is compliant and safe. Maintenance staff can upload a photo when any required refits have been completed. Working digitally with Openings Studio assures the transparency of this process.

"Because specification and BIM teams are based at locations spanning Assa Abloy's global network, they bring experience and expertise on local issues, standards and certifications," adds Marc. "With digital collaboration in Openings Studio – plus dedicated specification support from a global team of local experts, Assa Abloy can help you transform the way you work. You will deliver faster, better projects, hitting budget targets and meeting the needs of building managers and users, now and far into the future." **GIT**



To learn more about the benefits of Openings Studio software, visit www.openingsstudio.com



Assa Abloy Opening Solutions EMEA
www.assaabloyopeningsolutions.e

Monitored by i-Pro cameras:
the Buddhist Kinkaku-ji (golden
pavilion temple) in Kyoto.

VIDEO

With a Start-Up Mentality Into the AI Era

A Visit to the Japanese Camera Developer i-Pro

The Japanese camera developer and manufacturer i-Pro invited representatives of the international trade press to its headquarters in Japan in November. They were given an insight into the culture and work ethics of the company, which is specialized in edge AI cameras, and whose roots stem from the technology giant Panasonic. i-Pro has been an independent company in the market since 2019. Matthias Erler from GIT SECURITY was with them and spoke exclusively, amongst others, with Masato Nakao, Representative Director of the Board and CEO of i-Pro.

Freedom inspires, and anyone looking at the development department of the video camera manufacturer i-Pro in the south-west Japanese town of Fukuoka and talking with its inspiring CEO Masato Nakao will themselves feel inspired. When i-Pro was founded in 2019, Masato Nakao took on the position of Chief Executive Officer. The company had separated from the technology giant Panasonic back then, where the brand belonged to the Security Systems division. Under the leadership of Nakao, and borne by the confidence of a highly dynamic start-up, i-Pro has experienced extremely positive development since then.

Profitable Parting

The separation from Japan's industrial supertanker Panasonic first of all meant that the name of i-Pro, which was used

as from 2022 – instead of 'Panasonic i-Pro Sensing Solutions' as initially used – had to become established in the market. How well this was achieved from the beginning by the young but simultaneously traditional company was reported by Masato Nakao to the international trade press: during Panasonic times, the turnover was falling each year in comparison to their competitors. I-Pro has managed to turn this around very successfully through the foundation of an independent company and a bundle of strategic decisions.

Whereas the development cycles in the old Panasonic world used to be some 20 to 30 months, they have now been reduced to 10 to 12 months, Masato Nakao reported. At the same time, the number of new products brought to market has simply exploded: from 15 – 30 models in Panasonic times to

50 – 100 models annually with i-Pro. This is a drastic increase, which is admirably demonstrated by the impressive product line-up.

The production times have developed in a similarly significant way: where the usual lead-time used to be 30 to 90 days, this has fallen since the start of independence to between 3 and 21 days. A further statistic, the Cash Conversion Cycle, shows that the strategy is working and, broadly speaking, shows exactly how long it takes for the sales of goods to have an effect on cash flow. This was some 90 to 100 days before, and lies today at 70 to 80 days.

Bundle of Success Strategies

For Masato Nakao, the 'made in Japan' seal stands for the highest quality, reliability and endurance. Not only Panasonic is known



CEO Masato Nakao (l.) and Matthias Erler at the Presentation of the GIT SECURITY AWARD

for this high standard, but the whole of Japan – and of course i-Pro want to make use of this. This confidence is supported by a generous guarantee period of seven years.

But it is a set of strategic pillars that has been supporting the firm through this positive development since its creation, as Masato Nakao explained. Most important above all was a departure from the closed-shop model and a move to an open, modular system. As a provider of AI edge devices, the company works increasingly together with technology partners. Add to that the strictly-followed strategy of ‘time-based competition’. At the core, i-Pro has positioned itself as a provider of hardware, specializing in video cameras – within the market, where the progressive changes are strongly connected with software. Artificial intelligence is also accelerating this progress.

i-Pro has changed to a horizontal approach that positions the company as a provider of secure, AI-driven edge devices for the IoT, effectively at the interface of the real world with the virtual world of a network. This is where the massive amount of data is broadly processed and analyzed – an efficient, cost-saving way of lightening the load on the Cloud that also provides more accurate results. Cameras without such analytic capability will have a difficult time on the market in the future, according to the estimate of i-Pro management.

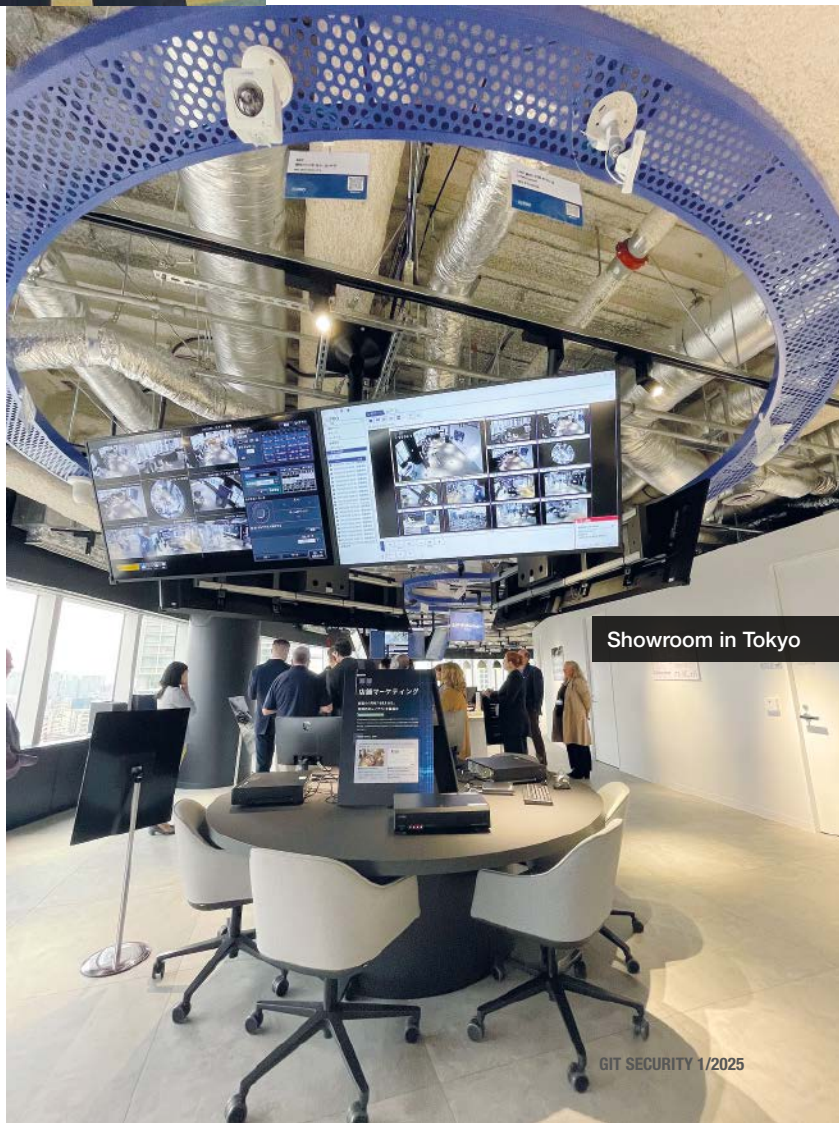
Growth Market Artificial Intelligence

Masato Nakao considers artificial intelligence to be growth motor number one. But i-Pro is not putting everything into AI on the server, but into AI at the edge. This is where he considers the action to be – not least because there can be many different specialized types of AI instead of just one AI version on the server. i-Pro compares its business to the app-based development of smartphones. The camera does not have to be replaced just because the technology it contains is developing rapidly. i-Pro therefore offers a wide range of AI-compatible hardware – this enables widespread standardization but also makes it possible to meet highly specialized requirements.

Worldwide Partner Network

To implement its strategy, i-Pro has joined forces with companies such as the visualization specialists Ambarella or Morpho, the Japanese provider of digital image processing technology and AI specialists. The video analysis developer Vaxtor, which concentrates particularly on license plate

Bitte umblättern ►



Showroom in Tokyo

recognition, also belongs to the network of partners.

Also, the world of video management analysis shows that one works with important market players: Milestone, Genetec and Eagle Eye Networks are among i-Pro's partners. In Germany, Mobotix is also on board. The company has already been working since 2020 on the development of cameras together with i-Pro. Mobotix uses selected high-end camera hardware from i-Pro in this strategic cooperation. Mobotix also has its focus on video technology for data usage, and wants to strengthen its vertical solutions palette on the basis of open partnerships.

Time-Based Competition

The 'time based competition' brings the factor of time as a significant enabler of success into view, as Masato Nakao mentions. This is where companies arrange the processes between receiving an order and delivering the product as efficiently as possible by improving the ability to react through improved information exchange between all the parts of the company that are involved.

For i-Pro, this strategy has led to the decision to largely avoid manufacturing complete products that promise to deliver a certain turnover. Instead of this, the company produces various versatile modules – effectively half-finished products – that are always on stock in large numbers. Their different usage options, on the other hand, reduce the development time of all the products in which the modules can be used. This enables a very quick reaction to new orders.



License plate recognition: demonstration in the i-Pro showroom in Tokyo

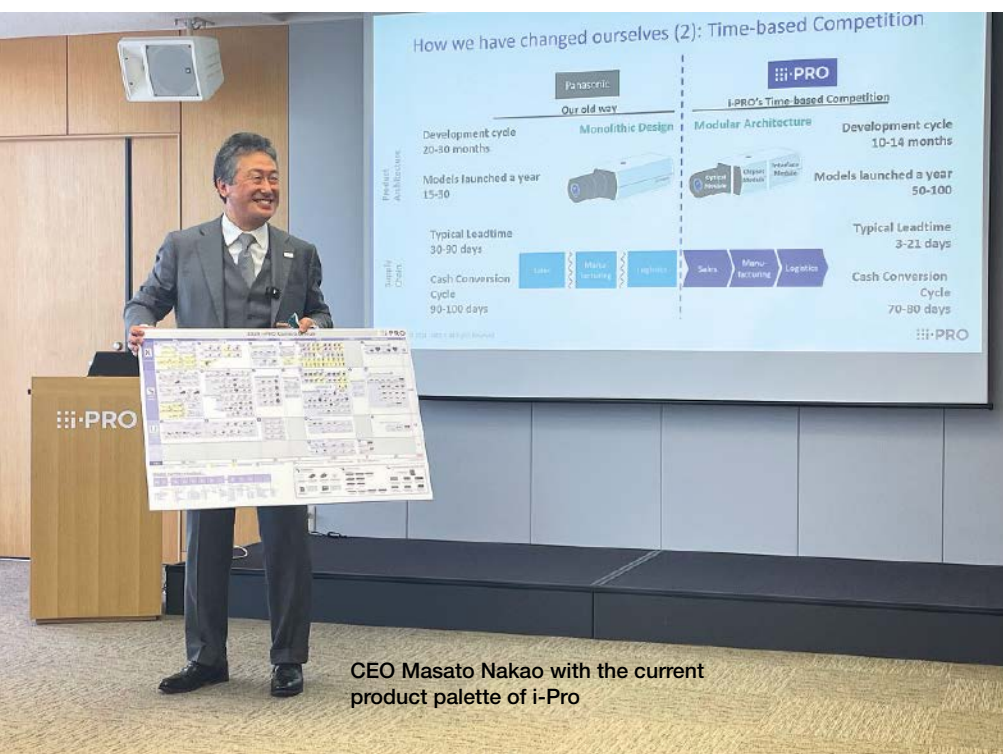
Prompt service is ensured for the system integrators that the company supports. Its own trained team supports them with the installation, and with their choice and integration of products.

Strategy for the German and European Markets

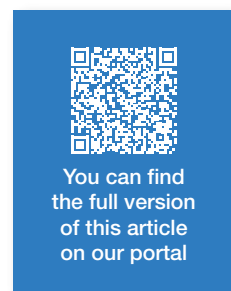
The European market is one of the most highly developed markets, says Masato Nakao in his exclusive conversation with GIT SECURITY – and it has similarities with the American market. i-Pro wants to build its strategy considering this situation, even though the competitive situations within Europe are very different from one country to the next. The particular aspect of the

German market is that it is similar to the Japanese market. The local German manufacturers such as Bosch and Siemens are very strong, the same as with Panasonic, Sony, or Hitachi in Japan. This makes it difficult for foreign companies to establish themselves in the market.

According to Nakao, it is therefore important for i-Pro to work together with German companies – an example of this is the cooperation with Mobotix. They want to work with the end users, but also with the OEMs in Germany. The company is taking a similar approach with Siemens; the strategy is to make use of the most important brands in Germany, also in the long term. **GIT**



CEO Masato Nakao with the current product palette of i-Pro



i-Pro EMEA B.V.
www.i-pro.com

www.GIT-SECURITY.com

lares 4.0

The IoT platforms for Security and Home & Building automation



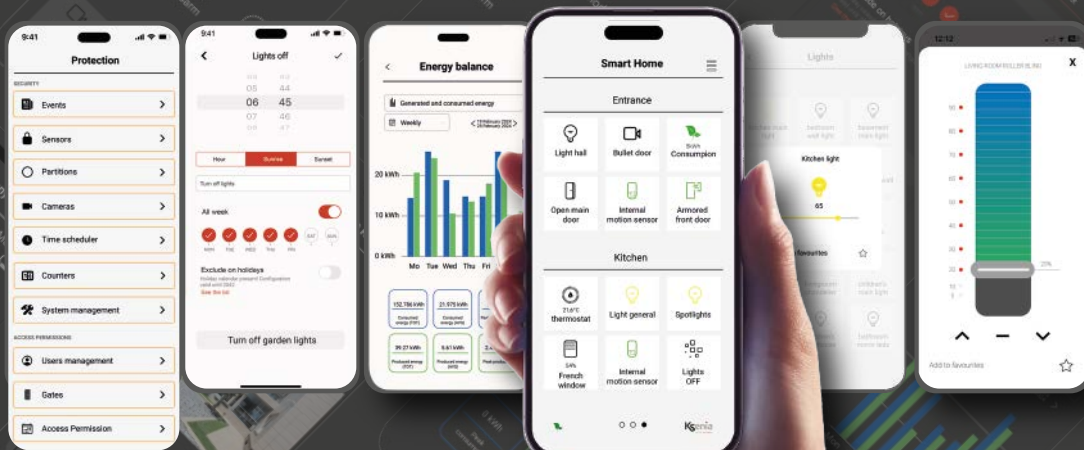
EN50151-GRADE 3



5 years warranty



ISO 9001



lares 4.0 App
for end users

i-PRO

Visual Intelligence

i-Pro Combines Edge Analytics and AI with Quality and Integrity

Jose Riolobos,
President of i-Pro
EMEA

When Jose Riolobos, President of i-Pro EMEA, and Oliver Lincoln, Senior Sales Manager UK and DACH, look back on i-Pro's remarkable development the last few years, we're talking about the initial balance sheet of a start-up founded just over three years ago on the one hand, and the history of a pioneer in video security on the other, as the company used to operate as Panasonic Security Solutions. GIT SECURITY spoke to both about the company's evolution into a leader in AI-driven surveillance, the innovations, the ethical stance on AI and the customer-centric approach that characterises the company in an increasingly competitive market.

■ GIT SECURITY: Reading the Security Industry Association's 2024 Megatrends report, AI is the overarching megatrend and the evolution of video surveillance to visual intelligence is the big change in the video security market. How do you see cameras evolving into the ultimate sensors?

Jose Riolobos: The integration of AI, especially AI on the edge, has indeed revolutionised surveillance and the security industry is in the midst of a profound transformation in which AI plays a central role. It can be compared to the transition from the analogue to the digital world. But this transition is more impactful. Instead of sending data to a central server, the cameras now process the information directly on the device. This reduces bandwidth requirements, lowers storage costs and enables real-time decision-making with increased precision.

Oliver Lincoln: Cameras have evolved from pure image sensors to powerful data generators. This change has meant that the focus is no longer just on improving image quality, but on maximising the intelligence built into each camera. Our cameras are not only capturing footage, but also analysing it, providing fast and accurate insights and even adding AI capabilities to legacy systems. It's about adding value and making the systems smarter. The cameras as IoT devices are data sources and feed business intelligence applications with the data they need to provide adding value beyond security.

GIT SECURITY: Critics speak of „hot air“ when it comes to AI applications to date. Can you give us examples to demonstrate the benefits of AI on the edge in security applications and show the added value you mentioned in other areas?

Oliver Lincoln: There is plenty of evidence of this. For security experts, edge analytics combined with AI opens up new possibilities. The data generated by security cameras will not just be passively recorded, but will provide information for a proactive response to potential threats. Take the example of airport security systems – these can quickly adapt to new requirements thanks to edge analytics. For example, an AI-driven camera can detect anomalies in passenger behaviour and alert security staff immediately, while continuing to

monitor atypical crowd movements. In retail, cameras collect hundreds of hours of video footage. The vast amount of data generated by these cameras is impossible for security staff to review manually. Edge analytics and AI play a crucial role in automatically detecting suspicious activity or shoplifting in real-time. This not only reduces the burden on staff and frees up their time for more strategic tasks, but also provides management with valuable operational insights into popular areas of the supermarket, footfall or peak footfall.

Jose Riolobos: Our aim is to help security professionals focus on protecting people and assets, but also to be able to add operational value that benefits other departments. To stay with the retail example: With the i-Pro Active Guard Server, data can be accessed remotely. A dashboard is called up via the web browser, where the statistical data management of the analysed information from the cameras' AI application is centralised. Characteristics such as facial features and clothing are analysed and categorised. Users can view and filter statistical data based on age, gender and other attributes when the AI-supported person recognition is used. You can find out who is wearing a mask, what model or colour vehicles are. Visitor flows and the number of people in a room or compartment are displayed when AI people counting is used. Traffic cameras equipped with AI can monitor the flow of traffic in real time, detect accidents or traffic jams and optimise traffic lights accordingly. This proactive approach not only improves traffic efficiency, but also increases road safety.

GIT SECURITY: How can AI applications be leveraged by camera operators in different environments?

Oliver Lincoln: Our systems can also be programmed for individual scenarios. With an app, the „AI On-site Learning Tool“, up to 5 specific detection targets can be added based on customer requirements with a simple learning process that is completed in a few minutes. With subsequent tuning, false alarms can be reduced based on learn-

ing from previous recordings. False alarms where things were incorrectly recognised as people, vehicles or bicycles can be corrected for the future, and missing alarms can be classified based on learning from past footage so that they are correctly recognised in the future.

GIT SECURITY: You have been flying the i-Pro flag for just over three years now. Can you give us an overview of how you are positioned in the DACH region and what your personal plans are for the region?



Oliver Lincoln,
Senior Sales
Manager UK
and DACH

Oliver Lincoln: We invested in the DACH region in 2024 to grow our team as our business has grown across the region. I personally joined i-Pro in August 2024 to lead the growth of the DACH team over the coming period as we look to continue to reach out to our existing customers and gain new customers where we feel we have a particular edge over our competitors. Having spent the last eight years as Sales Director at Securitas, I hope to provide real insight into our integrator partners and how we

turn page ▶

Plate: VR ED 2015
Make: Mercedes
Model: E-Class
Color: Silver
Class: Saloon, Electric
Speed: 130kph/80mph, Towards
Time/Date: 16:26, 15 Nov 2024
Location: 51.501476, -0.140624
Country of Origin: Germany





The new High Zoom Bullet Camera from i-Pro delivers outstanding image quality over long distances

can provide better support and create solutions together. We want to solve our customers' challenges that go beyond just security requirements to maximise the value a camera can provide. As an exciting, trend-leading brand in the AI sector, we have great ambitions to dominate the DACH market. Given the establishment of the local market, this is a daunting task. However, we are confident that we can both grow the size of the organisation and at the same time ensure that we maintain our position as the market leader in AI technology in the coming years.

GIT SECURITY: How has the new constellation of being an independent company affected customer service and the company's success?

Oliver Lincoln: We are still a Japanese company, so quality and technology are in our DNA. But what makes us unique today is our agility. We are young and dynamic and can act faster and more flexibly than ever before. This autonomy has turned the tide. As part of Panasonic, i-Pro developed around fifteen products a year. Within three years, we have increased this number six-fold. But it's not just about speed, it's also about how we approach product development – with flexibility and creativity. The transformation from a large, established company to an agile, innovative company has enabled us to stay ahead in a rapidly changing market.

Jose Riolobos: You only have to look at the product innovations of the last few months. The launch of our X-Series last year demonstrates our commitment to customisable hardware and improved safety and efficiency. This camera series takes the possibilities of edge analytics and AI to an unprecedented level. This is not a statement from us, but a reflection of the market response. The camera series has won several awards within a year, such as the GIT SECURITY AWARD 2025, the 2024 The Govies Government Security Award,


Benchmark Surveillance CCTV Innovation Award, Campus Security Today 2024 Secure Campus Award and the Detektor International Award 2024. But we are not resting on our laurels. We are constantly expanding our range of cameras with AI-supported analytics functions.

Oliver Lincoln: I would also like to highlight our latest addition to the X-Series line up – the High Zoom Bullet cameras. It is the first time we can offer a complete camera and software bundle. Designed for outstanding image quality over long distances, they offer flexible options with up to 250 metres infrared range, 30x optical zoom and deliver highly detailed images in a wide range of conditions, day and night. For safety-critical applications requiring licence plate recognition, a selection of X-Series models are bundled with Vaxtor's advanced LPR software. This is the first time that i-Pro cameras have been offered in combination with a third-party application, extending the real value add of AI applications. We have also been very proactive on the software side. Our latest version of the video data analytics software 'Active Guard' ensures that the metadata is seamlessly transferred to common video management systems (VMS) from Milestone, Genetec and others. This not only enables accurate forensic searches using edge-based AI analytics but also real-time notifications to security personnel about important events. The system is unique in its ability to incorporate third-party metadata directly into the workflow and issue notifications, demonstrating our open platform approach.

GIT SECURITY: You are pursuing a more partnership-based approach with greater openness than in the past. How does that come about?

Jose Riolobos: i-Pro's philosophy goes beyond making great hardware. We have internalised the „open platform“ approach. On the technical side, for example, we have

created the possibility for application developers to use Docker containers to quickly advance the AI capabilities of i-Pro edge devices. Thanks to Docker, third-party app developers can reduce development cycles and costs for AI app development and make customised analytics development more accessible to all. Unlike competitors who stick to proprietary systems, we believe in collaboration. We know we can't do everything on our own. That's why we work with video management system developers, integrators and other specialists to develop solutions with the end user in mind. Active Guard, for example, is a plugin that bridges the gap between applications, cameras and the VMS for an integrated, seamless AI ecosystem. In addition to the licence plate recognition application from Vaxtor, the integration of Morpho, a company that develops AI analyses for fall detection, is an example of third-party integration. Noema Fire & Smoke Detection also uses video images and AI to monitor fire-prone areas and automatically detect fire and smoke. This application is also seamlessly integrated into Active Guard. These integrations show that we are opening up edge-based AI hardware to other solutions beyond customisation for traditional security applications. This partnership approach has also helped us to realise how important cybersecurity is. With FIPS 140-2 Level 3 certification, one of the highest security standards in the industry, we endeavour to provide both reliability and protection. Cybersecurity is of fundamental importance to us and we continue strengthening our cybersecurity posture in line with all major directives and compliance mandates.

Oliver Lincoln: We are aware of our responsibility and the concerns in the market and have therefore created a committee within the company to focus on the use, design and training of AI. Our commitment to responsible innovation is at the heart of our mission and is further emphasised by our decision to join the United Nations Global Compact in 2023. To ensure the highest level of data integrity, all our products are built with maximum cybersecurity. This makes us a leader in the security industry and the first camera manufacturer to set standards and rules for the ethical use of AI technology. 



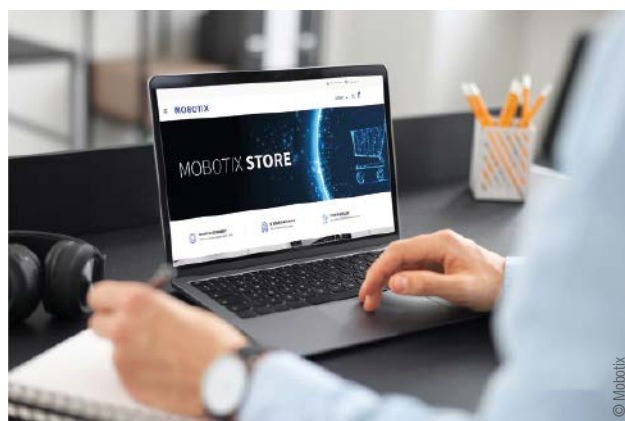
i-Pro
www.i-pro.com



Unifying Access and Video Surveillance

The Wisenet Access Control System from Hanwha Security integrates with the company's Vision's Wisenet Wave and SSM video management systems, delivering a unified solution for real-time access control and video monitoring. The solution offers a robust set of features that provide building managers and companies with peace of mind that their sites are secure. The access control system improves situational awareness through instantaneous updates to the user interface of access activity. The system offers a tiered licensing structure designed to scale with business growth: the lite version includes six doors, the standard licence up to 32 doors, and the professional license manages up to 256 doors. The enterprise license offers unlimited door control, ensuring flexibility and scalability for businesses of all sizes. The solution supports Open Supervised Device Protocol (OSDP) for readers, biometric solutions and mobile access, to offer modern, secure access methods tailored to businesses' specific needs.

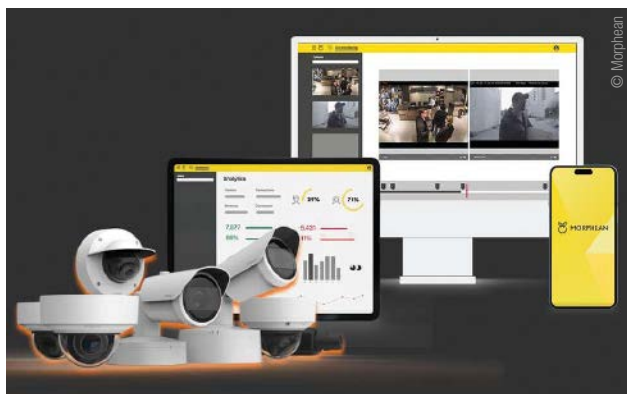
www.hanwha-security.eu



New Online Shop Launched

Mobotix has launched the 'Mobotix Store', a new online shop that enables partners and customers to easily browse and purchase the company's entire product range. All hardware and software products are included at launch through a user-friendly interface, showcasing the whole lineup. The product configurator in the store includes the option to create personalized product lists that can be downloaded for recurring projects. "This significantly simplifies the ordering process for partners who often have similar requirements. The configurator supports users with the customized assembly of all components from our latest modular camera platforms", explains Thomas Lausten, CEO. The Mobotix Store also offers a clear overview of orders, invoices, and deliveries, as well as the ability to request quotes directly online. Filtering options make it easier to find specific products, such as by protection classes, opening angles, or power supply options.

www.mobotixstore.com



Direct-to-Cloud Solution to Streamline Video Surveillance Systems

Morphean has announced a strategic partnership with Hanwha Vision to deliver cutting-edge security solutions tailored to meet the evolving needs of businesses, including retail, smart cities and banking, amid an increasingly complex threat environment. The partnership will benefit multi-site organizations and streamline their surveillance operations by removing on-site server hardware. The direct-to-cloud approach seamlessly integrates Hanwha Vision ranges, including the X, Q and T series, with the Morphean platform, enabling remote management and access, live streaming, and cloud recording. Users can manage sites from a single, intuitive interface, to simplify setup, management and configuration. Integrations with Alarm Receiving Centers (ARCs) streamline security processes by providing a centralised management interface.

www.morphean.com

Smart Locks Enhance Tower Security

iLoq has signed a ground-breaking agreement with Telia Towers Norway for the deployment of its innovative battery-free and keyless smart-locking system across more than 1,000 of the company's tower sites. The rollout of the locking system has already commenced, with a goal to replace Telia Towers' existing locks throughout their footprint in Norway over the next two years. The existing locks can be quickly and easily replaced with smart locks with no changes needed to the existing infrastructure. The locks will enhance both convenience and security by enabling secure and keyless access to tower sites. Access rights are sent directly to the phone, which also supplies the power to open the maintenance-free lock. Technicians do not have to travel to validate, pick up and return keys, which can be time-consuming and a big challenge in the west and northern parts of Norway a ferry or two are often necessary. iLoq's solution also gives Telia Towers proper traceability of who has accessed what sites and if an alarm is triggered at the site.

www.iloq.com

VIDEO

Less Is More

How to Get the Maximum AI Performance for Sterile Zones and CRITIS Applications

Dallmeier has introduced the Panomera S4 Perimeter. The 'Perimeter Panomera' combines four sensors in one optical unit, which provides a resolution of 200 effective megapixels – MPe – per camera. Combined with an AI object classification system especially trained for perimeter requirements and AI tamper detection also optimized for this purpose, the result is an extremely powerful solution with comparatively low infrastructure, system and personnel costs.



Perimeter optics combined with specially trained AI and AI-based tamper detection promise optimum detection results

The surveillance of narrow strips along perimeters such as fences, buildings or roads, often referred to as 'sterile zones', is one of the most difficult challenges for physical security. Until now, video systems as the main system on the perimeter have often failed to live up to user expectations, particularly in high security environments: unsatisfactory detection performance, high false alarm rates and, above all, the fact that the analytics are easy to manipulate are often cited as disadvantages. Other shortcomings include a poor image quality and high infrastructure costs, particularly due to the large number of cameras required. The new Panomera S4 Perimeter from Regensburg-based manufacturer Dallmeier promises to help.

AI Even Manages the Crawling Ghillie Suit

Equipped with a neural network especially trained for perimeter protection, the Panomera S4 Perimeter reliably recognizes people with unusual body postures such as bent over, crouching or lying down, and movement patterns such as very slow, very fast or crawling. People wearing Camouflage Central Europe, British Smock or Ghillie are also reliably detected. The advanced AI tamper detection application will flag up tampering attempts that are

typically expected at a perimeter. In addition to twisting, defocusing, spray-painting, and covering the camera or IR illumination, trying to blind the camera with a laser pointer, flashlight or strobe light is also reliably detected. Indirect tampering by deliberately fogging the detection area with pyrotechnics such as smoke grenades or smoke pots is also detected and an alarm is triggered. The combination of these evaluation techniques provides the best possible detection of intrusion attempts with a very low error and false alarm rate.

Perimeter App

The Panomera S4 Perimeter has outstanding low-light performance: the latest generation of sensors is three times more sensitive to infrared light than its predecessors were, and delivers outstanding results even under low-light conditions. With a dynamic range of 130dB, it can accurately capture details at distances of up to 200 meters even when lighting is less than ideal. Users can define specially protected areas with pre-zones using the specially developed AI Perimeter application. It is then possible to escalate messages to focus operators' attention on the most important events when relevant objects (people, vehicles, etc.) enter these zones.

One for the Right, One for the Left

The camera's special perimeter geometry minimizes blind spots and avoids capturing uninteresting areas beyond the fence – an important privacy benefit. Depending on the model, the sensors are oriented to the right or left and arranged in perspective. This means that even unusual postures and movements can be detected. The camera detects the upper body of a standing person from a distance of as little as 4 meters, enabling targeted surveillance without unnecessarily covering adjacent areas.

"With the Panomera S4 Perimeter we are setting a new standard in perimeter protection: a single system every 200 meters is now sufficient where previously several cameras, complex infrastructure and costly analysis were necessary", says Thomas Reisinger, CTO of Dallmeier electronic. "Our specially trained perimeter AI reliably detects even the most challenging scenarios, such as people crawling in camouflage or complex manipulation attempts. This is a real revolution in perimeter security, especially for operators of critical infrastructure and organizations that are directly or indirectly affected by NIS-2 and the other CRITIS directives." **GIT**



Dallmeier Electronic
www.dallmeier.com

VIDEO



One Technology for All Purposes

Multifocal Cameras – a Success Story

The German family-run video technology developer Dallmeier celebrated its 40th anniversary last year. The company is known worldwide above all for the multifocal sensor technology that is fitted to the Panomera cameras. This combines multiple lenses with different focal lengths into one optical unit. That means that images at long and middle distances are captured in the same high definition as those in the foreground. The widely different group of users of this concept is demonstrated by a small survey of Dallmeier's installation business partners.

Our Questions

- 1 Your company plans and installs security technology for number of different customers. Please introduce your company to us.
- 2 You have been using Dallmeier technology for your customers for many years. What moved you to start working together with Dallmeier?
- 3 What products and solutions from Dallmeier are used in your projects and why?
- 4 Installers also suffer from a lack of personnel. With this in mind, the configuration and installation of the system gains particular importance from the installers point of view. What do you think about Dallmeier's solutions here?

1 Freihoff Sicherheitservice is the largest owner-operated security service provider in Germany. With over 300 employees, we serve the most varied customers – from single residential houses up to logistics and chemicals companies. Our customers expect optimum protection of their valuables and their employees. It is therefore not the lowest price of the components that is the decision factor for maximum economy, but instead the highest possible security through the quality of the product, the solution, and the service.

2 First of all, the quality and reliability of the Dallmeier products has impressed both us and our customers. These characteristics ensure that we can provide an optimum objective security service, and also a long service life of the systems at the customer's premises. In return, this means high customer satisfaction with us as the installers, a low maintenance effort, and exceptional service delivery – and thereby also a very good long-term profit level. The 'made in Germany' badge is also ever more important for our customers. Naturally, cyber security aspects are also a concern here, in particular for our critical infrastructure customers. As installers, we also appreciate the accessibility of the manufacturer, which is an advantage for more complex projects that should not be underestimated.



Frank Pokropp

Managing Director of Freihoff
Sicherheitservice GmbH

3 We use the entire portfolio of Dallmeier products on our projects, from the cameras and recorders to the video management software. Three things are very important for us: the particular added value of the Panomera multifocal sensor cameras when securing large areas and long distances, the openness of the systems for video management and PSIM systems of other manufacturers, as well as the cyber security characteristics of the Dallmeier products. Further important considerations are the advanced video analysis and AI technology. This is an important factor in cost optimization, especially when reducing false alarms on perimeter security.

4 You notice with Dallmeier systems that the components and installation options are very well thought through and that the developers themselves have field experience. The universal Mountera installation system, for example, saves us an enormous amount of time and expense, and is almost child's play to install. Even the configuration of the system itself is really quick and easy meanwhile, after only minimal training, thanks to functions such as the auto-calibration of the supposedly complicated Panomera systems, or the remote positioning dome of the Domera cameras. Those are valuable factors with regard to quality control and the total cost. The customer and the installer both ultimately benefit from an efficient planning, installation and configuration process, right through to maintenance and operation. ■



1 We are a family-run medium-sized installation business providing equipment for intruder alarms, access control, video surveillance, and fire alarm systems. The company is 50 years old, and we currently have 35 employees.

2 Our first digital recorder from Dallmeier had the serial number 007 – that was in 1996. Since then, we have been true to Dallmeier because of its outstanding quality and reliability. Further aspects for us were ‘made in Germany’ and the simple operation – this has been consistent over the years. Whoever can operate an ‘old’ Dallmeier will be able to operate a new one too.

3 We use the complete spectrum of the product portfolio. Its scalability is a big advantage – you can build any size necessary between a single-camera solution right up to many hundreds of cameras, and that has always worked perfectly. Even with aspects such as data protection and integrity, for example in banks, a solution from Dallmeier is predestined. The new smartphone app now allows the end users to



Andreas Franz

Founder and Managing Director of Franz Sicherungstechnik GmbH

conveniently view their system's images while on the road. To have competent support available in the background is also comforting.

4 On the one hand, Dallmeier cameras are very easy to install – the complete adjustment job can be done ‘from the ground’ using a laptop and network. The various camera models are mechanically compatible with each other, which simplifies stock control and improves our flexibility on site. This avoids unnecessary trips to get material if a change becomes necessary on site.

On the other hand, the Dallmeier technology has a unique selling point when it comes to large or distant surveillance areas. One Panomera can replace numerous single-sensor cameras, it provides better evaluation quality and consistently the highest image quality. At the same time, the effort required to install them is reduced because there are less components to install. The Dallmeier device manager software is simple to use, and helps to maintain an overview of large systems and to configure them. ■

turn page ►

1 Scanview has customers that have purchased Dallmeier products for many years, and appreciate above all the close cooperation and the high quality that Dallmeier delivers. Our customers are mainly airports, the Danish state railways, banks, logistics companies and parking companies such as Apcoa.

2 The high quality, stability and long service life of Dallmeier products has impressed us. The company offers a broad range of high-quality cameras, and the Panomera series is particularly noteworthy. Nowadays the ‘security by design’ aspect is particularly important for cyber security. Dallmeier is also certified to ISO 27001.

3 We actually use all of Dallmeier's products. The Domera camera series is ideal for many situations because it is so versatile. And the Panomera series is unique and delivers so many benefits and opportunities that cannot be achieved with other products and solutions.

4 We have many technicians who have been working with Dallmeier video equipment for many years, and we therefore do not have this problem ... except that we would like to have more personnel of course. ■



Torsten Ussing

Managing Director of Scanview A/S

1 I have been using Dallmeier components since 2002, with just one contact point for the customer from inquiry to commissioning. Only that which is really possible is actually implemented.

2 The origin of this was that a customer wanted a 3-year warranty – back then, there was only one manufacturer that was able to offer this long warranty period. This customer purchased the first system from me.

3 We use various different cameras and recording devices. Only the best solution for the application, with long operational service as a priority.

4 I do not have a lack of staff because I do everything myself. But the installation of the new cameras is very simple and good. ■



Gerald Schön

Owner and Managing Director of Gerald Schön Elektro & Sicherheitstechnik



1 Elettron has been in the security sector since 1993, focusing on advanced security and fire prevention technologies. We support various sectors, including industrial, logistics, military, chemical, hospital, tertiary, and public. Our mission is to provide maximum safety and protection with tailor-made, reliable, and easy-to-use solutions. Our experience and continuous innovation ensure the safety of people and structures.

2 Our collaboration with Dallmeier was driven by their strong reputation and commitment to excellence. Their technology meets high-quality standards and ensures system security, protecting sensitive data and assets. This partnership allows us to offer high-performance solutions and approach increasingly demanding customers.

3 Over time we have used different product ranges offered by Dallmeier, but recently we focused on these:

■ **Panomera S4 and S8:** We have implemented these multi-sensor panoramic cameras to obtain complete and detailed visual coverage of some sites. Their ability to capture wide angles of view, together with the high-quality resolution, allows the customer



Pier Giorgio Pedercini

Commercial Director of
Elettron Srl of Ghedi

to effectively monitor critical areas and identify threats in real time, all while having only one camera installed, as it covers very large areas.

■ **8-megapixel bullet cameras:** We chose these cameras for their superior resolution and ability to capture sharp details even in low-light conditions. This allows us to ensure maximum image clarity, which is essential for accurately identifying people, vehicles, or other suspicious activity.

■ **DMS 2400 Server Hardware:** This device represents the heart of our video management system, allowing us to efficiently integrate and manage all the cameras and data generated by our security system.

Additionally, Dallmeier's video analysis software helps us provide tailored services with high standards, scalable across different contexts.

4 Technical specialization is crucial, and Dallmeier's ease of installation is a significant advantage. Standard connectors and simplified procedures reduce installation times. Remote programming and technical support enhance efficiency, minimizing delays and problems. These features make Dallmeier a standout partner in the security market.

1 Monticolo&Foti Impianti is committed to providing personalized and innovative security solutions to protect people, goods and in general all the assets of our customers. We use cutting-edge technologies with associated predictive maintenance services through constant remote monitoring of the systems. Our integrated approach combines technical expertise, know-how in risk analysis and a deep understanding of the specifics required to offer customized solutions that guarantee effective and reliable protection.

2 With many years of experience in the video surveillance sector, I already knew Dallmeier's distinctive approach to the market, based on technological innovation, advanced research and development, and a commitment to excellence. The decision to collaborate with Dallmeier was made quickly due to their reliability and quality. Dallmeier's reputation as a manufacturer of video surveillance systems "Made in Germany" is synonymous with excellence, precision, and reliability. Their focus on cybersecurity and advanced data protection adds further value.

Technological innovation aligns with the vision and values of Monticolo&Foti, which supports customers with a consultancy



Giuliano Iurkic

Commercial Director of
Monticolo&Foti Impianti Srl

approach, offering cutting-edge and highly customized solutions. In summary, the collaboration between Monticolo&Foti and Dallmeier was motivated by the combination of reliability, safety, innovation, and support offered.

3 Above all, I mention Panomera technology and AI-based analysis solutions. Panomera is truly unique. Thanks to a multifocal multisensor system, it allows you to monitor large areas from a single position with a uniform image resolution of at least 125 pix/m (recognition) even at a long distance from the shooting point.

4 Indeed. As far as we are concerned, we believe that well-trained technical staff is essential for long-term success and we are strongly committed to this issue with ongoing staff training courses. It is clear that a certain level of specialization is necessary to be able to carry out certain types of systems, but it is equally true that a manufacturer with an active role like Dallmeier, dedicated to designing and supplying products, solutions and systems that are easily usable and supported by training programs makes the mission easier.



Dallmeier Electronic
www.dallmeier.com



Smartphone Enrollment for Biometric Payment Cards

The latest innovation from Idemia is a smartphone-based enrollment solution that makes onboarding for biometric payment cards faster and more user-friendly than ever before. The new solution uses a battery-less USB-C dongle in tandem with a user's smartphone – either iOS or Android – into which the F.Code biometric card is inserted. Each step of the enrollment process is displayed on the smartphone screen via the bank's app, guiding the cardholder through fingerprint enrollment. F.Code biometric cards are designed to allow cardholders to authenticate contactless payments in-store using their fingerprint, with no minimum limit, providing greater convenience by eliminating the need to enter a Pin. The biometric data stored on the card is completely secure, as it never leaves the secure element of the card and is not stored in any external databases. Cardholders can erase or re-enroll their biometric data on the F.Code card at any time using the USB-C dongle and the bank application.

www.idemia.com

Smart and Secure Connectivity Cloud

Dahua Technology has unveiled their DoLynk Cloud. It is a transformative platform designed to offer seamless and integrated connectivity for businesses and individuals that connects smart devices, software applications, and cloud services, enabling users to enjoy secure, efficient, and reliable digital experiences. It is a unified, scalable, and flexible solution that supports a wide range of smart applications. Users can monitor, maintain, and troubleshoot devices remotely in real time. Features such as predictive analytics, automated maintenance reminders, and detailed performance reports allow users to proactively address issues. Complementing DoLynk Care is the Dahua Mobile Surveillance System, an all-in-one mobile application tailored for remote monitoring and control that offers live video streaming, instant notifications, playback options, and smart event management. The app seamlessly integrates with Dahua devices, enabling users to stay connected to their security systems anytime, anywhere.

www.dahuasecurity.com

Fiber Acoustic Sensors

Further adding to its collection of industry recognition and awards, EchoPoint Distributed Acoustic Sensors (DAS) was selected by the judging panel at Intersec Dubai in January as an outstanding solution. The Exemplary Perimeter Security Solutions award recognizes products and systems that are specifically designed to secure and monitor boundaries of critical infrastructure, facilities or restricted areas, providing highly robust and reliable perimeter protection to ensure the integrity and security of vital infrastructure and assets. The EchoPoint DAS utilize intelligent detection algorithms to provide point detection of +/- 6m in a range of up to 100km, with the ability to classify different types of intrusion attempts. The system can be mounted and operated across multiple applications, such as fences, above ground, buried or in a hybrid layout, and has been installed at airports, military sites, government facilities and more across the world.

www.optex-europe.com



Edge-Based AI Camera

Bosch Building Technologies has introduced the Flexidome 8100i camera, combining powerful edge-based AI, exceptional image quality, and convenient remote commissioning to address critical use cases. This next generation of fixed dome cameras provides system integrators with a powerful tool to address the evolving security needs of airports, government facilities, schools, and other organizations with critical security needs. The camera delivers reliable, high-quality video data for informed decision-making, thanks to edge-based AI video analytics, significantly improving security and operational efficiency across various applications. Bosch prioritizes sensitive information protection, achieving critical cybersecurity certifications including IEC 62443-4-1 and UL 2900-2-3 Level 3. Secure Element with Trusted Platform Module (TPM 2.0) functionality supports a 4096-bit key length, setting the industry standard for future-proof security.

www.boschbuildingtechnologies.com

Simplified Video Management

Genetec released Security Center 5.13 shortly after the new year began. Various functions have been enhanced, such as a quick search that makes finding specific video footage even easier. The exact moment you're looking for can be pinpointed instead of searching to see when an item appeared or was removed from an area. This feature now has its own tile, and there is no longer a need to draw a selection box around the area of interest. Cameras can be replaced while keeping the camera's existing configuration and transferring it to the new unit. Password updates can now be centrally managed, while firmware updates in a secure online repository ensure that your cameras remain up to date, secure, and compliant with cybersecurity best practices. Encryption has also been enhanced for digitally signed video files by being upgraded to SHA-256.

www.genetec.com

Access Control with Salto Orion: First Single-Sourced Face Recognition

Salto introduces Orion, a new advanced solution in access control technology: The first single-sourced face recognition door unlock system on the market, requiring only the user's face as a credential.

Orion integrates access control and face recognition technology and aims to enhance the user experience by providing a faster, safer, more convenient, and private keyless door access experience.

Each user gains access through a unique access credential – their face – eliminating the need for physical keys or keycards. This technology streamlines the access process and enhances security by removing the risk of lost or stolen credentials.

Additionally, Salto Orion provides fast, frictionless door unlocking. The user simply walks up to the access point, looks at the Orion-C terminal, and the door unlocks.

Combining a range of algorithms, hardware, and software solutions, it delivers rapid response times and high levels of security. This solution is designed to be simple to use and install, leveraging Salto Space's SVN access control solution. Orion represents a convenient, streamlined, and secure access system.

Orion provides an intuitive face-recognition enrollment service, making onboarding users quick and easy – without the need to download an app. Onboarding can be done from anywhere, on any device. Users do not need to come to a central point to register their



The Orion-C face recognition terminal is minimalist in design

faces. Instead, Orion guides them through an easy mobile self-enrollment process.

The Orion-C face recognition terminal is minimalist in design, ensuring ease of installation and integration, and allowing the device to fit discreetly into any property. Using a clear red or green LED light to display the status, Salto Orion grants or denies access in under a second. It is also completely contactless, and no special positioning of the user's face is necessary.

www.saltosystems.com



**PROTECTION.
EXACTLY WHERE
IT IS NEEDED.**

Highly precise detection and surveillance with REDSCAN mini-Pro

The new REDSCAN mini-Pro sensor series provides highly accurate and reliable short-range detection of intruders and moving objects within a 20m x 20m range. Providing an extra layer of security intelligence, the REDSCAN mini-Pro features an integrated infrared camera for instant verification, while simultaneously recording and saving images for post-event analysis. Designed to work in both indoor and outdoor environments, the sensors can be mounted horizontally to protect roofs and skylights and vertically to create virtual detection walls to protect narrow spaces and high-value assets.



www.optex-europe.com

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INTRUSION DETECTION | VISUAL VERIFICATION
TAILGATING DETECTION | VEHICLE DETECTION
PEOPLE COUNTING

VIDEO-BASED FIRE DETECTION

No Second Notre Dame

A World Heritage Monument Protected by Aviotec: Artificial Intelligence From Bosch Protects the Cathedral in Aachen

Providing peace of mind in the Aachen Cathedral: Aviotec cameras from Bosch

A fire detection and alarm system was put into operation at the beginning of 2023 in the cathedral in Aachen. More than 50 Aviotec cameras from Bosch, equipped with image recognition software and an early warning system, now recognize when flames develop, smoke rises, or intruders approach. The system employs special technology to distinguish between candles and a real fire – and contributes to the survival of a UNESCO World Heritage monument.

■ Paris, 18:20 on 15 April 1919: A catastrophic fire broke out in the almost 1,000-year-old Notre Dame Cathedral and destroyed valuable parts of the historic building. This should never happen to the cathedral in Aachen, hoped Master Builder Helmut Maintz during an on-site press meeting at the beginning of December 2022. The renewal of the cathedral's fire protection equipment became a real job of passion for Maintz, who retired at the end of January 2023. He not only received heavenly support on the financial side from Karlsverein Dombauverein – but in matters of equipment from Bosch in the form of a video-based Aviotec fire protection and security system, which was being used for the first time in a historic, sacral building.

Fire Protection Rethought

Master Builder Maintz knows of the dangers in the more than 1,200-year-old building: "Altars, pews, the organs, cabinets and paraments are made of wood or cloth and can therefore burn quickly." He was very worried before the system was renewed: "The roof spaces are well protected by a

detection and extinguishing system, but most of the rooms have not been protected until now."

According to Maintz, the fire protection had to be totally reconsidered in a heritage site like the Aachen Cathedral, which Kaiser Karl the Great had built during the years 795 to 803. The challenges were as high as the steeple: high vaulted ceilings, listed building status, golden mosaics, old walls and paintings – traditional fire detection technology just would not provide a satisfactory solution to those responsible for finding one.

A special technical solution had to be found for Maintz, the Aachener Restorers Collective, and the consulting engineers Plan Ing, who jointly developed the concept. Intelligent, video-based fire detection that Plan Ing project planner Ralf Wolters had already heard of and read about would be the right approach. Flames and smoke can be detected at great distances by using artificial intelligence. Aviotec provides the necessary security, also under conditions in which conventional smoke detectors would reach their earthly, physical limits.

The technology works reliably in unusually shaped buildings, such as in a church with its high ceilings and challenging lighting environment.

The plan called for around 50 cameras and a 3D simulation that would be required to completely cover the area. Every camera is equipped with its own computer that can detect events by using algorithms and, when there is a fire, raise the alarm. The location of each of the cameras was meticulously chosen while observing the monument protection conditions. Even the color of the cameras was changed to matt black according to the wishes of those responsible and to meet the special needs of this project – this makes them blend into the background.

To prevent fires means to remove the causes of fires, so as part of the project – which had a value of around one million euros – the over 40-year-old cable network was also replaced. Some 20 kilometers of halogen-free cable with improved fire protection performance was laid, as well as new distribution boxes fitted with special fire protection switches. A fiber backbone



Project partners, from left: Sören Wittmann, Aviotec Product Manager (Bosch Building Technologies); Master Builder Helmut Maintz; Planner Dipl.-Ing. Ralf Walters (Plan Ing Engineers Office), December 2022



The new fire protection concept – a job of passion for Master Builder Helmut Maintz

network now serves as the basis for modern, energy-saving building technology.

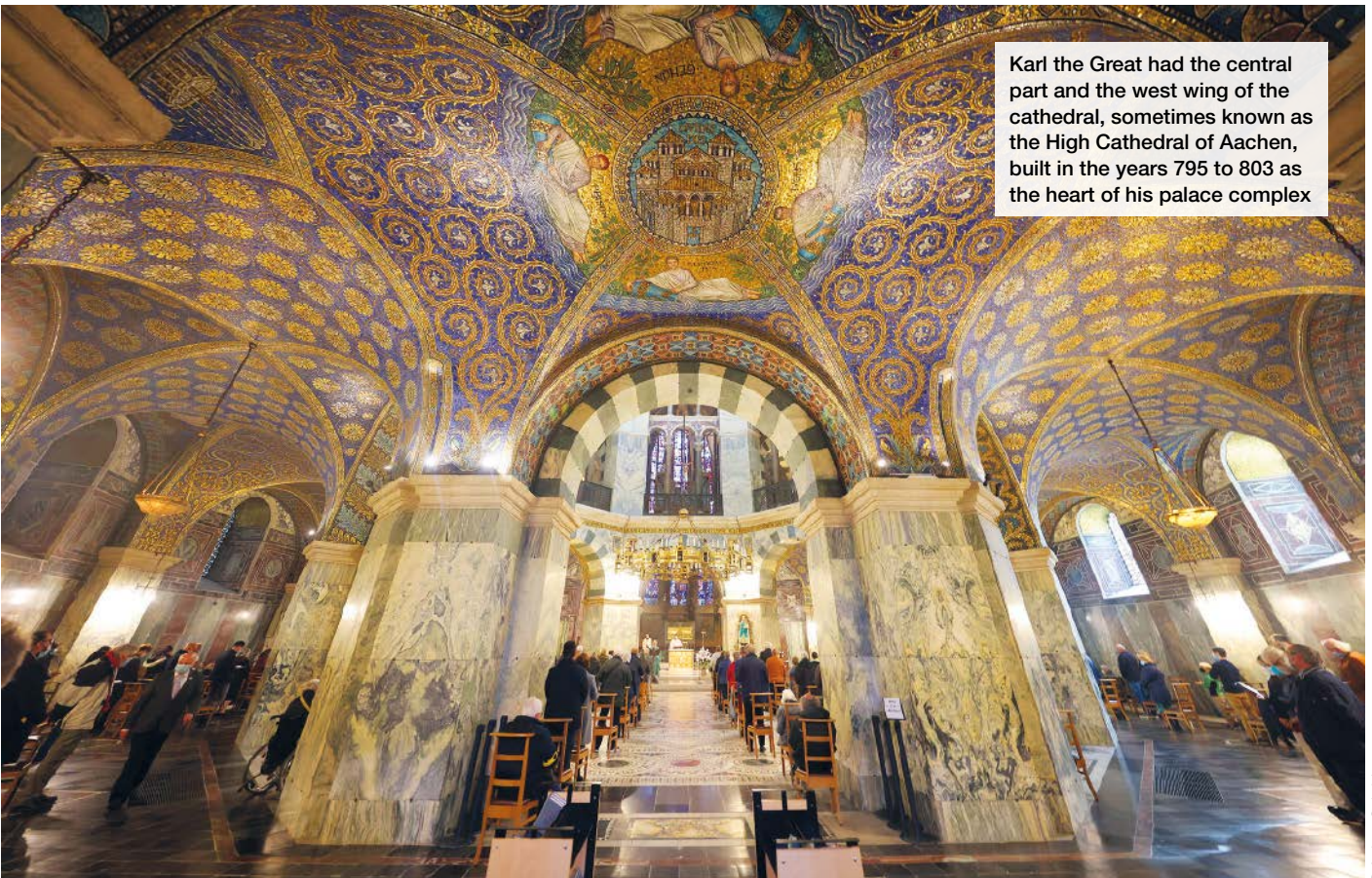
The Fire Brigade on Board

Video cameras are supposed to let you know in good time if there is a fire. Then it is logical to also let the fire brigade know.

The video-based system has therefore been fitted with a special, standardized connection directly to a fire alarm system. The 'video language' is then translated into the lingo of the fire brigade. If a video camera raises the alarm, this is reported to the fire brigade in Aachen in exactly the form the

professionals need it. The fire brigade receives all the important information as soon as they arrive, as well as real-time images from the activated camera, presented on a monitor. The emergency services are immediately in the picture as to where the problem within the cathedral

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Karl the Great had the central part and the west wing of the cathedral, sometimes known as the High Cathedral of Aachen, built in the years 795 to 803 as the heart of his palace complex

has been identified – and can view live and alarm images on-demand.

Break-In Alerts and Protection Against Vandalism

Aviotec can also demonstrate the trinity, namely, the system provides security against fires, against potential intruders during nighttime, and also against (modern) vandals. Images are analyzed in seconds with the help of artificial intelligence and suspicious movements are recognized. The appropriate authorities are immediately given the alarm and images provided for the police.

During public opening times, the cameras protect the valuable objets d'art of the cathedral against vandalism or theft by raising an alarm if anyone goes into protected areas around the objects. The system also helps to observe the maximum number of visitors: as only a specific number of visitors are allowed in the cathedral at any one time, they were personally counted by the 'bouncers', the doorkeepers and stewards in catholic churches, until now. The Bosch cameras have taken over the job with a web-based Intelligent Insights Module. As soon as the preset number of visitors has been reached, the stewards are informed on their cell phone and can take appropriate measures.

Video-Based Early Fire Detection

The most important features of Aviotec in brief: the IP cameras recognize flames and smoke directly at the point where they emerge with the help of their integrated video analysis software. This has significant benefits, in particular where a building has high ceilings, because the camera can



A monitor shows a fire test – intruders are also recognized

identify a fire more quickly than a detector on the ceiling. The solution offers users the following additional benefits over conventional fire detection systems:

- Very quick detection of fires precisely where they happen because smoke takes a while to rise up to the ceiling
- Visual alarm verification
- Coverage of large areas to be monitored
- Can be fully integrated into existing fire alarm, video, and evacuation systems
- The first system of its type back in 2017.

Continuous Improvement

Thanks to intelligent AI algorithms in the video analysis, Aviotec detects an emerging fire directly at the source – and avoids false alarms. The algorithms are being permanently improved to provide continuously improved accuracy and speed. In addition to the flame and smoke detection, the integrated intelligent video analysis functions as security surveillance which, for example, can identify unauthorized people and also comprehensively protect complete factories or other buildings against danger.

The protected areas of the cathedral:

- High ceilings
- Large open areas
- Protected external areas
- Special applications

Donations to finance the rest of the project are welcome.

Account information:
Karlsverein-Dombauverein,
Sparkasse Aachen,
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Reference sites of Aviotec installations can be found in the following environments:

- Airports and aircraft hangars
- Paper processing industry and printers
- Manufacturing sites / industrial buildings
- Semi-open rooms / external areas adjacent to buildings
- Warehouses and external storage areas
- Special applications (such as the Aachen Cathedral)

Companies involved in the whole project:

Electrical installation:
E-line, Baesweiler, Germany

Fire detection and alarm system:
Bosch Building Technologies, Grasbrunn, Germany

Data processing equipment:
Systemhaus X. Cilio, Aachen, Germany

Electrical distribution:
Wagner & Müller, Aachen, Germany

Stone work: Steinmetz- und Steinbildhauerei Schwartzberg, Aachen, Germany

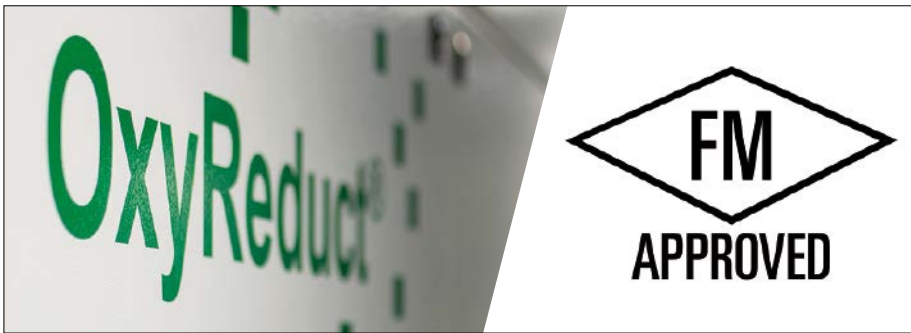
Woodwork:
Holzbau Barthel Korr, Aachen, Germany

Planning and coordination:
RWI Projekte / Plan Ing Ralf Wolters, Aachen, Germany

Additional work and construction management: Dombauhütte Aachen – Jochem Brammertz, Adi Radermacher, Angela Schiffer, Helmut Maintz



Fire extinguishers from Minimax also provide fire security in the Aachen Cathedral: fires can be quickly and reliably fought



WAGNER's oxygen reduction system Oxyreduct for active fire prevention, is now certified to the global FM standard.

FIRE PREVENTION

Turning Fires Into a Non-Issue

Wagner's Oxygen Reduction System Oxyreduct Receives FM Approval

The Wagner Group GmbH's Oxyreduct system has received FM Approval. This technology for active fire prevention through oxygen reduction, introduced to the German market in the 1990s by company founder Dipl.-Ing. Werner Wagner, is now used globally across a variety of applications, including logistics, data centers, and archives. The recent certification by the renowned testing and certification institute FM Approvals, complementing approvals from VdS, VB-Cert, and Pavus, opens the door for many companies to adopt this effective fire prevention technology for the first time.



Dipl.-Ing. Torsten Wagner (left) and Dipl.-Ing. Werner Wagner, Managing Directors and shareholders of Wagner Group GmbH

critical. Examples include logistics, energy, healthcare, industry, IT and telecommunications, and art and cultural heritage.

Oxyreduct protects applications such as warehouses, data centres and archives from fire

With FM Approval, companies insured by FM or adhering to FM standards can rely on Oxyreduct to safeguard their buildings, systems, and assets effectively and proactively. Furthermore, Oxyreduct offers an economical and efficient alternative to sprinkler systems, which are often complex to plan, install, and maintain – particularly for large storage areas. Unlike sprinklers, which respond only to active fires and can result in extensive damage, Oxyreduct provides preventive protection, avoiding such risks altogether. **GIT**

■ FM Approval is a globally recognized mark of quality for products and services that meet stringent requirements and the highest standards of performance, safety, and reliability. Often, FM certification is a prerequisite for deploying technology in high-risk environments. The FM certification for Oxyreduct – granted after extensive testing in a rigorous approval process – confirms the reliability of Wagner's systems and it paves the way for oxygen reduction to become a key technology in fire protection.

"With the successful achievement of FM Approval, and a solution tested and certified by FM, we have once again strengthened and expanded our position as a technology and innovation leader in fire prevention. FM Approval not only validates our systems but also provides us with new access to international markets, creating exciting opportunities for growth," explains

Werner Wagner, Managing Director and shareholder of Wagner Group GmbH. "Our customers can trust that our fire prevention systems meet the highest standards. FM-insured companies, or those whose insurance requires FM-certified solutions, now have a globally recognized system with Oxyreduct when choosing Wagner's active fire prevention technology," adds Dipl.-Ing. Torsten Wagner, also Managing Director and shareholder of Wagner Group GmbH.

The Oxyreduct system is specifically designed to prevent fires before they can start. By reducing the oxygen content in the ambient air, it creates an environment in protected areas where fires cannot ignite or spread under defined conditions. This makes Wagner's fire prevention systems particularly valuable for applications with high concentrations of assets or goods and in areas where operational continuity is



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www.wagnergroup.com

INDUSTRIAL SECURITY

NIS-2 and Cyber Resilience Act in the Industry

Matthias Schmidt From Ifm Electronic on the Importance of New EU Directives and their Implementation in Companies

In industry, the levels disciplines of operational technology and information technology (IT) have long since merged. This boosts efficiency and productivity in many value-added processes. However, it is not all sunshine and roses: networked systems are constantly exposed to attacks from various sources, be it by professional hacker groups or individuals. A security breach can endanger the existence of some companies. To increase the cybersecurity not only of companies but also of the products themselves, the European Union is driving forward the improvement of cybersecurity with the NIS 2 Directive and the Cyber Resilience Act. To meet the requirements of the new guidelines, companies often have to make technical, organisational and legal improvements. Matthias Schmidt, cybersecurity expert at the automation company ifm electronic, explains in an interview what companies should pay attention to when implementing the requirements and what pitfalls need to be overcome.

— **Mr Schmidt, why are new cybersecurity regulations needed?**

Matthias Schmidt: Whether new cybersecurity regulations are needed is a good question. What is more important is that all companies, regardless of their size, become aware of the threats and the impacts that a cyber attack can and will have. Current legislation is largely pushing companies, so that the European economic area is not left defenceless against further losses due to cyber attacks in these difficult times. The figures published by the industry association Bitkom alone should make company managements sit up and take notice.

How do the Cyber Resilience Act and the NIS 2 Directive differ?

Matthias Schmidt: The difference is very straightforward. The Cyber Resilience Act – CRA for short – requires cybersecurity to be taken into account in products and services. The NIS-2 Directive includes measures for company production environments. The CRA aims

to ensure cybersecurity in products, while the NIS-2 Directive aims to make production facilities more secure.

Recently, German automation companies have repeatedly been the target of costly hacker attacks – can the new regulations prevent this?

Matthias Schmidt: It would be nice if regulations could prevent attacks. It is impossible to completely prevent attacks. However, the impact on the value creation process can be reduced and the restoration of “normality” can be accelerated.

Which industries particularly need to pay attention now?

Matthias Schmidt: Cyber attacks are not sector or industry-specific. Aside from targeted attacks from well-resourced groups, most companies are compromised by widespread campaigns.

What challenges do companies face? What specific technical requirements are required in their products?

Matthias Schmidt: First of all, companies must clarify whether the CRA applies to them, as many companies do not even have the issue on their radar due to their size. In the area of automation



Matthias Schmidt is Director Product Security and Cybersecurity-Expert at ifm

technology, there are additional challenges: in times of semiconductor shortages, inadequate supply chains and a difficult global economic situation, many products may simply have to be redeveloped because the existing platform or system architecture cannot meet the requirements. Companies are also faced with a considerable amount of additional documentation and organisational requirements, for example, in the area of vulnerability management. As a small company, you have to be able to implement this, because a shortage of skilled workers is also massively felt here.

While many companies are facing times of economic hardship, what costs can companies expect when implementing cybersecurity and the guidelines?

Matthias Schmidt: This always depends upon the extent to which the company has already considered the issue of cybersecurity, integrated it into the corporate culture and already established processes and measures. Strictly speaking, I am unable to give

a specific cost but we should not lose sight of the subject of "time".

How does ifm implement the requirements in its own products?

Matthias Schmidt: We have long been observing developments in standardisation in the area of cybersecurity for industrial automation. This enabled us to start integrating general security measures very early on. Because there are currently no harmonised standards for the Cyber Resilience Act, we are guided by those currently available.

The requirements currently seem quite abstract – where should the legislator make improvements?

Matthias Schmidt: On the one hand, it would make sense to provide appropriate details or necessary harmonised standards at a very early stage. On the other hand, giving the affected companies sufficient time is more important.

What advice do you have for small and medium-sized businesses as they soon face the challenge of the NIS 2 Directive and the Cyber Resilience Act?

Matthias Schmidt: Companies, whether it is the CRA or NIS-2 that applies to them, should and must take cybersecurity seriously and provide appropriate resources. As I already mentioned, the time factor plays an important role – in terms of the deadlines for implementing the guidelines and, in the worst-case scenario, before you become the victim of an attack.

Cyber insurance of the past or reliance on external service providers are of little to no help here. Complete recovery and the associated damage usually work out more expensive than the initial investment in security structures. **GIT**



ifm Electronic GmbH
www.ifm.com

Power Solution for Demanding Environments

Altronix, global developer of power and data transmission technology, launches NetWaySP4TCW53, the new solution for remote security installations. This 4-port outdoor hardened 802.3bt PoE switch provides a reliable and flexible means



Altronix' new solution for remote security – NetWaySP4TCW53

of powering the latest IP devices in remote locations – from industrial sites and city surveillance to critical infrastructure and transportation hubs. An integrated rapid battery charger provides extended backup time to ensure the security system is up and running, even during outages. The NetWaySP4TCW53 delivers up to 90W per port, totaling 360W across four 802.3bt Ethernet ports, supporting advanced IP devices like PTZ cameras, IR illuminators, access control panels, and WiFi access points. It features two 1Gb SFP ports for long-distance data transmission, supporting single or multi-mode fiber, allowing interconnection of multiple switches.

With a hardened Nema 4/4X, IP66-11 rated outdoor enclosure, the NetWaySP4TCW53 withstands extreme weather, dust, and moisture. It includes embedded LINQ™ Network Management Technology for remote monitoring, diagnostics, and control. The built-in rapid battery charger, Altronix EBC48, charges up to 40Ah batteries in under 8 hours, ideal for mission-critical applications.

www.altronix.com

Enhanced Cloud Connectivity

Milestone Systems has released the R2 2024 update to its XProtect platform. This release introduces Remote Manager, a cloud-connected service that enhances the value of Care Plus subscriptions. The company is introducing XProtect Remote Manager, a cloud-connected service that allows administrators to monitor the health and status of distributed installations in one view from anywhere through a browser. While the product is still in its early stages, it represents a significant step in the company's cloud strategy, laying the groundwork for future enhancements and capabilities. www.milestonesys.com

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Editorial

• Cinzia Adorno
+49 6201 606 114
cinzia.adorno@wiley.com

• Matthias Erler
+49 (0) 6129 5025300
matthias.erler@wiley.com

Managing Director

• Dr. Guido F. Herrmann

Publishing Director

• Steffen Ebert
Tel.: +49 (0) 6201/606-709
steffen.ebert@wiley.com

Sales Managers

• Miryam Reubold
Tel.: +49 (0) 6201/606-127
miryam.reubold@wiley.com

• Dr. Michael Leising
Tel.: +49 (0) 36 03/8942800
michael.leising@wiley.com

Wiley GIT Reader Service

65341 Eltville / Germany
Tel.: +49 6123 9238 246
Fax: +49 6123 9238 244
E-Mail: WileyGIT@vuservice.de
Our service is available for you from
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Production

• Jörg Stenger
• Andi Kettenbach (Layout)
• Eli Palzer (Lithography)
• Claudia Vogel (Sales Administrator)



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GIT SECURITY spoke with Lena Bay Hajland, Product Director Fristads.

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Artificial Intelligence



Pierre Racz: "Real Artificial Intelligence Does Not Exist"
In part one Pierre Racz, President of Genetec, is addressing why IP network video systems were the game changer in the industry and why he does not like the term AI.

Products



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Intersec will mark its 26th edition from 14-16 January 2025 at Dubai World Trade Centre following a huge annual response from both visitors and exhibitors and the 100th jubilee event in 2024 which hosted over 100,000 visitors from 140 countries, including over 100,000 exhibitors.

GSA 2025



GIT SECURITY AWARD 2025 - Winners
The winners for GSA 2025 were chosen by readers, market participants, fans and partners in seven categories.

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Ksenia Security S.p.A.
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