

GIT SECURITY **INTL**

MAGAZINE FOR SAFETY AND SECURITY – WORLDWIDE

EVENTS

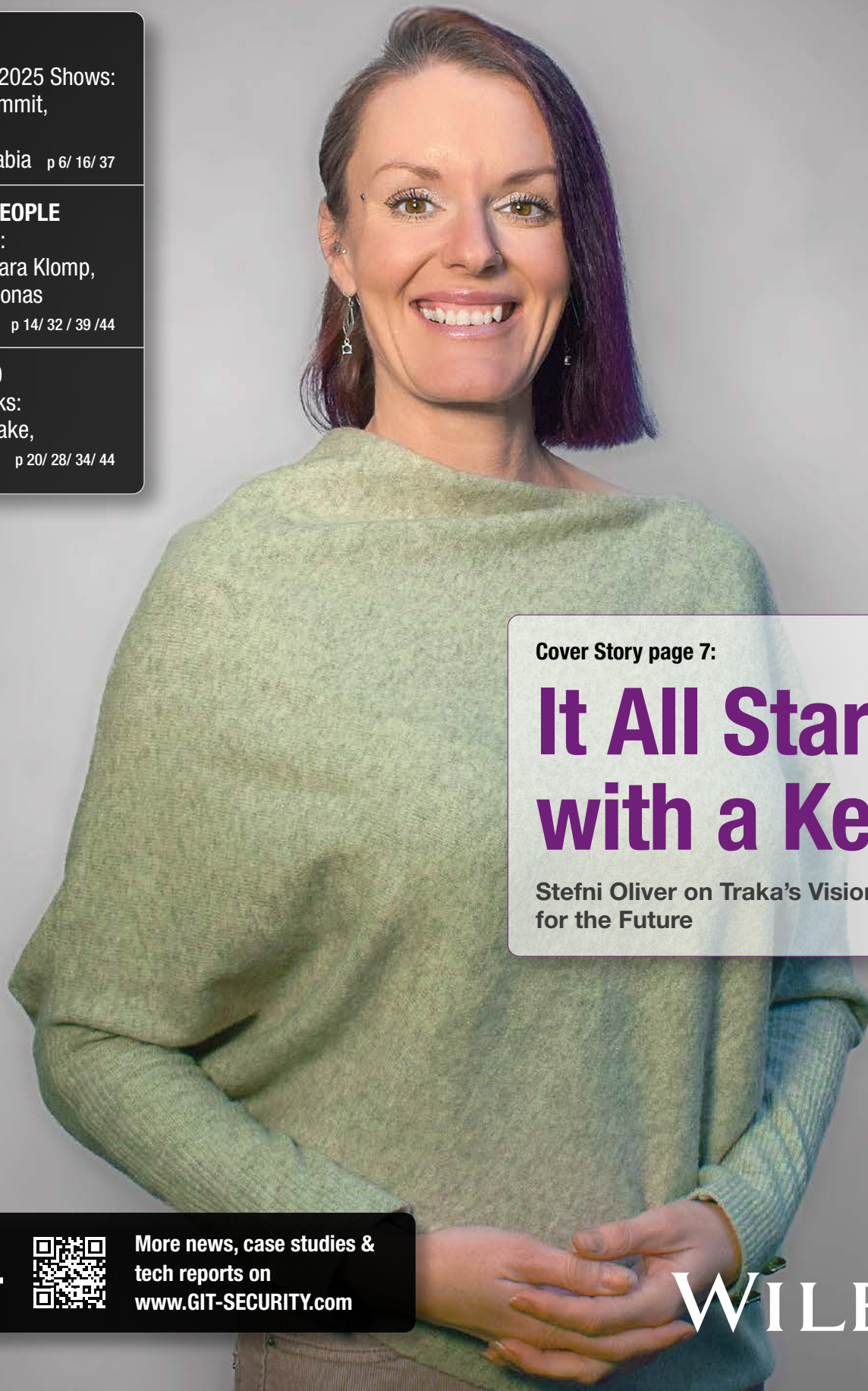
Get ready for the 2025 Shows:
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It All Started with a Key

Stefni Oliver on Traka's Vision
for the Future

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

Around the World

From Riyadh to Milan, Skopje to New Orleans, the security industry is energized by global events and a shared drive to shape safer, smarter environments. Major trade shows like Intersec Saudi Arabia, Sicurezza 2025, and the Adria Security Summit are drawing thousands of professionals together and setting new benchmarks. This issue arrives at a time when the world's stages are alive with exchange, ambition and collaboration and GIT SECURITY is proud to be part of it.

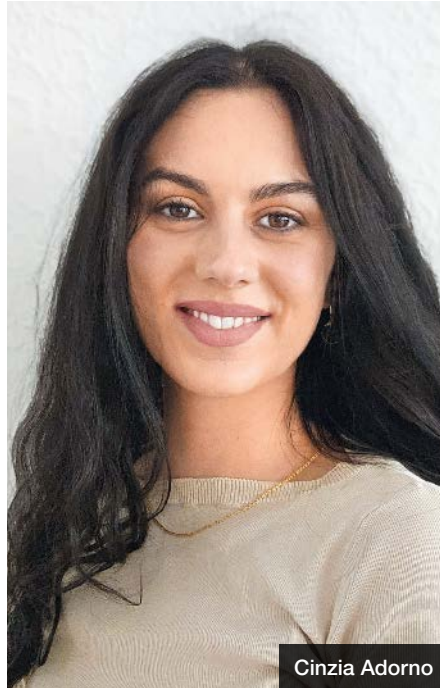
We begin with a story that started with a key, literally: Traka, celebrating 30 years of intelligent asset management, takes center stage in our cover story. From British Airways to global leadership, Traka's journey is a testament to vision, people, and the power of integration. VP Stefni Oliver shares how the company continues to evolve, blending innovation with a deeply human culture, starting at page 7.

From high-octane entertainment to industrial grit, we explore why biometric systems must be built for the real world. Shiraz Kapadia of Invixium makes a compelling case for rugged, customizable solutions that thrive in dust, vibration, and complexity, where generic tech simply fails (page 14).

At page 32, we take you inside The Henderson, Hong Kong's newest architectural icon. Sara Klomps of Zaha Hadid Architects reveals how smart access and seamless design redefine spatial experience, powered by dormakaba's touch-free solutions.

Let's turn to the future of talent: On page 18, Jack Robinson of Assa Abloy Opening Solutions EMEA shares how early talent programs and inclusive culture are shaping tomorrow's workforce.

Looking ahead, Sicurezza 2025 in Milan promises a record-breaking edition. With a renewed layout and a strong international presence, the event will spotlight AI-driven



Cinzia Adorno

surveillance, predictive monitoring, and cybersecurity integration. The three thematic days – Cyber Day, Security Day, and Job in Security Day – will foster cross-sector collaboration and help shape the next generation of security professionals.

In Riyadh, Intersec Saudi Arabia 2025 has just wrapped up its largest edition yet. We spoke with Exhibition Director Riham Sedik about the event's strategic role in aligning global innovation with the Kingdom's Vision 2030. From giga-projects to fire protection summits, the show offered a dynamic platform for dialogue, partnerships, and future-ready solutions.

Whether you're just back from Riyadh, Skopje or packing for Milan, this issue is your companion for the journey: full of personal encounters and insights to carry forward. **GIT**

Enjoy the read and safe travels
to wherever the security agenda
takes you next!

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Cover Story It All started With a Key

Traka Celebrates 30 Years
of Innovation in Intelligent
Key and Asset Management

page 7



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PRODUCTS FOR PROFESSIONALS

Product and Lead Platform
for Safety and Security



John Kent



Steve Hodge



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EVENT

Adria Security Summit 2025

Skopje Sets the Stage for Security Innovation

The 2025 edition of the Adria Security Summit, the largest security industry event in Southeast Europe, takes place for the tenth consecutive year on October 8–9, 2025, at the Aleksandar Palace Hotel in Skopje.

■ Bringing together more than 3,000 participants and over 150 exhibitors showcasing the latest solutions in video surveillance, cybersecurity, IoT technologies, artificial intelligence, automation, and smart cities, the Summit aims to strengthen collaboration, knowledge exchange, and business networking within the region's security and technology ecosystem. It is organized by a&s Adria, a professional mag-

azine for comprehensive security solutions and a member of the global security media group owned by Messe Frankfurt.

Announcing the tenth edition, Mahir Hodžić, President of the Organizing Committee, emphasized the event's importance for the development of the security and technology sectors in the region. "The Adria Security Summit provides a unique platform for presenting cutting-edge technology and building business relationships within the Southeast European security industry. Through its exhibition, conference program, and numerous networking activities, the Summit enables companies, experts, and institutions to connect, share knowledge, and jointly address modern security challenges," said Hodžić.

In addition to a rich exhibition area, the 2025 Summit will feature a comprehensive conference program including expert panels, lectures, and presentations from leading international and regional profession-

als. Special focus will be placed on business matchmaking through an upgraded Buyer Delegation Program and the digital run. events platform, which makes it easy to schedule meetings between participants and exhibitors.

A major innovation this year is the launch of Adria Smart City, a brand-new platform running in parallel with the Summit and dedicated to smart urban solutions. The program will highlight technologies in mobility, energy, digitalization, security, and urban infrastructure. It is tailored for urban planners, institutional representatives, engineers, architects, and all stakeholders engaged in building sustainable and functional cities. **GIT**



Adria Security Summit
www.adriasecuritysummit.com

COVER STORY

It All Started with a Key

Traka Celebrates 30 Years of Innovation in Intelligent Key and Asset Management

From a single smart idea to a global leader in intelligent key and equipment management; Traka's journey over the past three decades is a testament to the power of innovation, vision, and dedication.

■ It all began in the 1990s, when British Airways faced a critical challenge: how to securely manage and track access to essential keys. Enter John Kent, Traka's founder and CEO, who designed the first intelligent key cabinet tailored to meet the airline's needs. This pioneering solution not only solved a pressing problem but also filled a gap in the market, laying the foundation for an entirely new product category.

What started as a hardware innovation quickly evolved into a comprehensive solution. Over the years, Traka has transformed from a manufacturer of smart cabinets into a global provider of integrated asset management systems. Today, Traka serves more than thirty industries worldwide, offering a suite of products that includes the award-winning Traka Touch Pro cabinets and intelligent

locker systems, all powered by the centralized TrakaWEB platform.

TrakaWEB marked a turning point in how organizations manage access. With real-time visibility, automated audit trails, and seamless integration, it enables clients to shift from reactive to proactive asset management, enhancing accountability, security, and operational efficiency.

A major milestone came in 2012, when Traka joined the ASSA ABLOY Group, further accelerating its growth and global reach. Yet, at the core of Traka's success remains a commitment to people: its customers, partners, and employees.

As Traka celebrates its 30th anniversary, it stands as a beacon of integrity, innovation, and teamwork. To reflect on this legacy and look ahead, we spoke with Stefni Oliver, VP & Head of Traka EMEA, who shared insights into how the company continues to evolve and what the future holds.



Integrated and Futureproof: Traka's Next Chapter

Stefni Oliver on Traka's Vision for the Future

As the company celebrates its 30th anniversary, GIT SECURITY International sat down with Stefni Oliver, Vice President and Head of EMEIA, to explore how Traka continues to evolve, the human heartbeat behind its technology, and the vision that propels it into the future.

■ GIT SECURITY International: Ms. Oliver, to start off, could you share a bit about your role as Vice President and Head of EMEIA at Traka, and what your main responsibilities involve?

Stefni Oliver: As Vice President and Head of EMEIA at Traka, I oversee our many diverse regions across EMEIA, each region has a Managing Director with a team of great sales, engineering and operational colleagues and is responsible for the growth of the region. My role, along with my central technical and marketing leads is about empowering them to succeed, creating a culture of collaboration, and working closely with our R&D team to ensure we're aligned with the right products, strategy, and support to drive growth.

How has your previous experience influenced your leadership approach at Traka?

Stefni Oliver: I came from the fast-paced world of telecoms and IT in the UK, where I led a large MSP for a number of years. That experience taught me how to operate at speed, build agile businesses that can pivot quickly to market changes, and automate wherever possible to support rapid growth and tight margins. What it didn't prepare me for was the cultural and regulatory nuances of running a truly global business, which has been a valuable learning curve at Traka. Because security and product quality are such critical priorities here, I've also learned to balance that agility with a calmer, more measured approach to leadership.

When you reflect on Traka's 30-year journey, what stands out to you most about how the company has evolved?

Stefni Oliver: Traka began with a simple request from British Airways to secure its fleet vehicle keys. What started as a solution for a single customer has since grown into a global business, serving a wide range of industries. The challenges we address through





The Traka team poses at IntraLogisteX, one of the largest logistics trade shows in the world

our key cabinets and asset management lockers are universal – organisations everywhere need smarter, more efficient ways to protect and monitor their most critical assets. At our recent 30th anniversary celebration, our founder John Kent reflected on the company's journey. Even in the early days, he sensed that this technology had the potential to transform the way businesses operate. Looking back three decades later, it's clear that vision was well-founded.

How would you describe the philosophy that has guided Traka over the years?

Stefni Oliver: While we're deeply committed to the highest standards in our products, at its heart Traka is built on the quality of its people. For our 30th anniversary, we created a commemorative video that featured our very first employee – still with us today – as well as a father and his two sons who all work at Traka. It may sound like a cliché, but the company truly feels like a family. Our global growth has been driven by employees who not only believe in our technology but who also serve our customers with a tireless, selfless dedication. In the same way, many of our customers have been with us for years, growing alongside our technology, which is rewarding to witness.

Can you share your perspective on the role of people and company culture in building Traka into what it is today?

Stefni Oliver: I haven't been at Traka very long, but celebrating our recent 30th anniversary was particularly meaningful to me. At my previous company, I spent 20 years helping to grow it from a start-up, and it truly felt like a family – many of my closest lifelong friends came from that experience. Sadly, that business has been sold and no longer exists in its original form, so it's wonderful to now be part of an organisation that not only has a proud history but also a long future. Since being acquired by ASSA ABLOY in 2012, Traka has enjoyed the strength and resources of a global leader while still main-

taining the autonomy and close-knit culture of a smaller business. That balance of scale and family feel is special.

As Traka looks to the future, what emerging trends or technologies do you see shaping the next decade of intelligent asset management and how is Traka preparing to lead in that space?

Stefni Oliver: One of the biggest trends shaping the future of intelligent asset management is increased integration. Customers don't want to juggle multiple, disconnected systems – they want seamless solutions that simplify processes while maintaining the highest levels of safety and security. As a result, interoperability is becoming a critical factor in decision-making. End-users are increasingly asking not just how a solution works today, but how it will integrate with their existing operations and adapt to tomorrow's challenges. We're focused on delivering 'futureproof' technology – solutions that are scalable, flexible, and designed to evolve with our customers' needs.

Ms. Oliver, as Traka celebrates 30 years of success, what message or vision would you like to share with the employees, partners, and customers as the company looks forward to the next chapter?

Stefni Oliver: This is an incredibly exciting time for Traka. We've been fortunate to grow consistently over the past 30 years and, thanks to the support from ASSA ABLOY, are well-positioned to serve customers worldwide for the foreseeable future. We pride ourselves in knowing what our customers need and developing a solution that best solves that issue. We'll continue to strive to stay on the cusp of innovation in key and asset management, all to proactively address emerging threats as technology advances. Ultimately, those efforts will be guided by the quality people who make Traka what it has been, what it is, and what it will be in the future. **GIT**



Traka EMEA
www.traka.com



Steve Hodges, Director of Operations at Dallmeier electronic UK

INTERVIEW

Stadium Data On The Ball

Artificial Intelligence Makes Stadiums Smarter

Many of the world's largest stadiums and arenas rely on video technology from Dallmeier. At the heart of this success is the company's patented Panomera multifocal sensor technology. However, in an era of digitization and artificial intelligence (AI), requirements extend beyond pure security considerations. In this interview, Steve Hodges, Director of Operations at Dallmeier electronic UK, explains how modern video surveillance can benefit operators, security teams and visitors alike.

■ GIT SECURITY: Dallmeier is one of the world's leading suppliers of video technology for stadiums. What makes your solution so special?

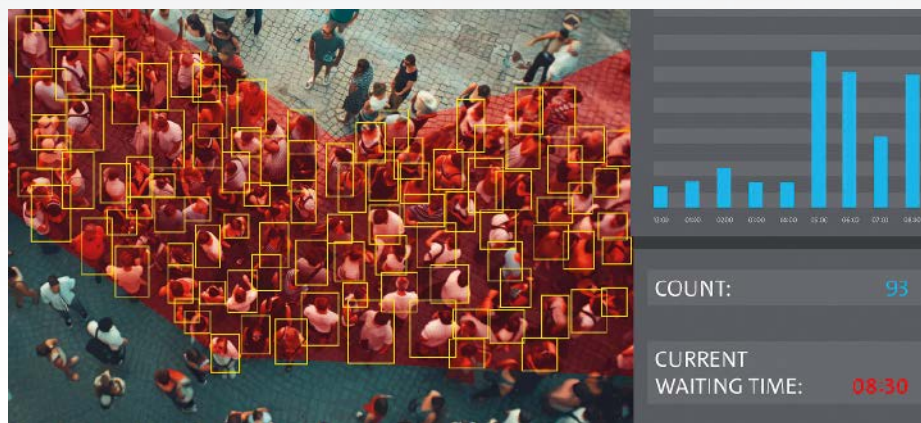
Steve Hodges: The decisive advantage lies in our patented Panomera technology. Unlike conventional cameras, the Panomera system combines several sensors with different focal lengths. This means that even large areas, such as grandstands, spectator areas and outdoor facilities, can be monitored in high resolution with just a few systems. Every area can be viewed in detail at all times, with consistent image quality across the entire scene, both live and in recordings. This enables subsequent forensic analysis to identify offenders and help the club avoid penalties, for example if pyrotechnics have been set off.

The installation, infrastructure and personnel costs are considerably reduced because significantly fewer camera systems are required than with conventional technology. At the same time, the efficiency of security personnel is increased, as they can react more quickly and in a more targeted manner.

Panomera technology produces impressive images, but what about artificial intelligence? Does it already play a role in your systems?

Steve Hodges: Absolutely. AI is integrated into our Panomera cameras. They are equipped with an intensively trained neural network that analyses captured images

son or a vehicle, and whether someone is moving in the wrong direction or lingering longer than usual in a sensitive location. This increases security and makes the work



The High Resolution Counting App adds AI capabilities to provide information on the number of people or vehicles within defined zones

in high resolution and reliably classifies defined objects – for example, people or vehicles – in real time. This data is transmitted alongside the video stream to the Dallmeier recording system where it is available to the integrated edge analytics apps that derive useful information from it depending on the application – for example, to recognize direction or dwell times. This means that our systems cannot only see, but also „interpret“: for example, they can recognize whether an object is a per-

son or a vehicle, and whether someone is moving in the wrong direction or lingering longer than usual in a sensitive location. This increases security and makes the work

And what if stadium operators want to get even more out of their video technology – for example, to optimize operational processes?

Steve Hodges: That is where our AI High Resolution Counting App comes in, for example. It is the perfect add-on for stadium operators looking to expand their existing systems with additional AI capa-



Each Panomera unit provides wide-angle, mid-range, and closeup views simultaneously

bilities – easily, quickly and without major investment. The app analyses high-resolution video data in real time and provides information on the number of people or vehicles within defined zones. Depending on the camera model, up to 4,000 objects can be reliably detected and classified simultaneously!

What specific advantages does this offer in everyday life at the stadium?

Steve Hodges: Many. For instance, the app can show in real time how full a stand or waiting area is. This provides significant added value for security teams, enabling them to respond to overcrowding or bottlenecks at an early stage. For operators, it means better planning and management of visitor flows, more efficient deployment of staff and optimized routing.

Another example would be at half-time when long queues often form at the catering stands. Our queuing solution can show where it is particularly busy at any given time, enabling targeted visitor guidance and short-term capacity adjustments. The app is also ideal for outdoor areas, as it recognizes not only how full a car park is, but also whether there is a backlog on the access routes.

What is the difference between the High Resolution Counting App and the people-counting feature that is already available on the cameras as standard?

Steve Hodges: One big advantage is the quality of the detection. Conventional systems often use neural networks that are trained to recognize people when they are nearly fully visible. However, in practice, for example in stadium stands, people are often only partially visible or overlapping. Our HiRes Counting App delivers meaning-

ful results even in these conditions because it was specially developed for such complex scenarios.

Do you need to replace existing cameras?

Steve Hodges: No, that is the beauty of our solution! The HiRes Counting App can be easily installed on existing Dallmeier cameras and is compatible with all Domera RDF6000 series cameras, as well as Panomera S/W 4 and 8 cameras from MK2. No new hardware, cabling or major conversion is required. This keeps the investment manageable and the implementation quick and straightforward – true to the motto: upgrade instead of replacement.

How can stadium operators keep track of all the AI data?

Steve Hodges: A central component in this process is our SeMSy Hemisphere management platform. It seamlessly aggregates and visualizes all relevant AI data – whether originating from Dallmeier systems or third-party solutions – and makes it readily available for further processing.

With its modular architecture, SeMSy Hemisphere enables operators to tailor their setup precisely, selecting the specific video management, data handling, AI analytics, and front-end applications they need to meet their unique operational requirements.

You mentioned third-party systems – does that mean a stadium can also integrate its own AI tools or external solutions?

Steve Hodges: Our systems are open and modular. Thanks to standardized interfaces, AI solutions from other manufacturers can

be seamlessly integrated – both individually and with a view to the future. We are already working with strong technology partners: Deep Impact provides powerful face recognition for analyzing individual movements in the stadium and for automated employee recognition at access points, for example. ikara offers visitor management solutions such as queue management, automated access control, heat mapping and customer experience, all of which are centrally controlled via a web-based dashboard. In combination with LiDAR technology from Saimos, we can carry out precise real-time analyses of people and vehicle movements, including counting, occupancy, heat mapping and statistics.

The result is a flexible system that complements existing infrastructures and opens up new potential for greater security, efficiency, and visitor satisfaction.

In summary: AI is making video technology even smarter?

Steve Hodges: That is right. Video surveillance has long been about more than just security. Thanks to intelligent functions such as Dallmeier's HiRes Counting App, stadium operators can organize their processes more efficiently, control visitor flows optimally and increase security further, all with the greatest possible flexibility and future-proofing. **GIT**

VIDEO

Making Sure The Party Never Stops

AI-enhanced surveillance from Idis for Richard Rawlings' latest venture

Gas Monkey Garage, the automotive custom shop and entertainment brand founded by Richard Rawlings of Fast N' Loud TV fame, has opened a vibrant new restaurant and bar in South Dakota, equipped with advanced, AI-enhanced video technology from Idis Americas.

■ The new venue, immersed in biking history, has quickly become a popular gathering spot as well as a museum – right at the heart of the local community and famous for hosting full-throttle events throughout the year, including the largest biking rally in the United States. The annual Sturgis Motorcycle Rally is a series of electrifying motorcycle events, leather, live music, and food, which this year has just celebrated its 85th

anniversary with 537,459 vehicles counted, the highest participation in years. The Idis video solution not only ensures safety and security at this landmark event but operates year-round, 24/7, helping to keep the business running smoothly with a high-octane atmosphere and awesome customer service even at the busiest and loudest times.

Installed by KB Technologies, Gas Monkey's trusted integrator, the fully

NDAA-compliant solution gives Richard Rawlings and his senior team full visibility not just from their workstations at their Dallas HQ over a thousand miles away, but also while on the move, with easy system control via their phones and tablets.

It comprises advanced cameras, network recorders, VMS operating software, and the Idis Mobile Plus app, enabling management and control from anywhere at any time.



Idis 5MP AI IR Dome Cameras deliver superior image quality even in variable and challenging lighting conditions, including complete darkness, thanks to Idis LightMaster NIR technology. The cameras support H.265 combined with Idis's patented Intelligent Codec video compression technology, significantly reducing bandwidth and storage requirements. Their advanced AI capabilities include object detection, classification, and behavior analysis, allowing enhanced surveillance with accurate, automated alerts to events of interest, including suspicious activity. **GT**



Gas Monkey Garage-Founder Richard Rawlings and Kristen Plitt, VP Marketing Idis Americas

AI-powered surveillance ensures safety during high-energy events like the Sturgis Rally



Read the full case study on Gas Monkey Garage



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Run With It™

The IXM Titan application interface offers multi-modal authentication, including face, fingerprint, and finger vein recognition



INDUSTRIAL BIOMETRICS

Breaking the Mold

Why Industrial Biometrics Demand a Different Playbook

Automation, digitalization, and geopolitical dynamics are rewriting the industrial playbook, therefore conversations around security and workforce management need to catch up fast. The industrial sector powers economies worldwide, and this is why my conviction stands firm: biometric security solutions designed for polished office environments simply crumble when faced with the hazardous realities of industrial settings.



Author: Shiraz Kapadia, Founder, CEO and President of Invixium

■ This is far more than a technology challenge. It's a wake-up call to rethink how we engineer biometric solutions for rugged applications. How do we design these systems? Where do we build them? How customizable are they? Are they truly made for dust-choked air, gloved hands, remote sites, and ever-shifting crews? Because if we keep forcing generic, substandard biometric systems onto industrial and critical infrastructure settings, we're inviting

disaster. Vulnerabilities will be exposed, putting safety, security, and entire operations at risk.

The environment is a defining factor, not an afterthought. Biometric solutions engineered for enterprise environments stand in stark contrast to the volatile, high-stakes realities of manufacturing plants, mining sites, and energy facilities. Mismatched technology is a liability no industrial operation can afford. This becomes especially

profound for a manufacturing powerhouse like Europe, where industrial output is the backbone of economic resilience. In such a landscape, misaligned biometric technology carries real-world, irreversible consequences.

The Industrial Reality

Industrial sites don't play by corporate rules. They're brutal, unpredictable, extreme, and relentless. In an office, a biometric device may authenticate a few dozen employees per hour in climate-controlled comfort. Contrast this with a manufacturing site or a wind farm where hundreds of workers cycle in and out, in harsh weather, often with dirty hands, gloves, and with little time for delays. In these environments, authentication must be rapid, reliable, and unobtrusive. Devices need to withstand vibration, temperature variation, moisture, and high UV exposure. Helmets, goggles, and masks make conventional face recognition ineffective. When delays at checkpoints create bottlenecks, productivity suffers, tempers flare, and safety protocols are bypassed.

The False Economy of Off-the-Shelf Tech

Off-the-shelf biometric systems look tempting because they are cheap and appear



Designed for industrial-grade authentication, Titan operates flawlessly in dust, sunlight, and vibration-heavy environments – where traditional biometric systems fail

easy to deploy. But this approach is short-sighted. The upfront savings quickly disappear under the weight of costly downtime, frequent device replacements, and heavy IT support demands. Most generic biometric solutions aren't built with industrial-grade data governance in mind, lacking modern encryption standards and audit-ready logs. This can expose organizations to significant legal and financial vulnerabilities. Beyond compliance, they also struggle to integrate with complex industrial systems and workforce management platforms. What may start as a "budget" fix quickly snowballs into an expensive liability over time.

Customization as a Strategic Advantage

Industrial biometrics must be designed from the ground up with a deep understanding of how factories, plants, and field sites operate. This means devices must be ruggedized and sealed against dust, water, and impact, and built with architectural flexibility. Consider a use case in the chemical industry, where workers may need to authenticate at multiple secure zones across a vast facility. A custom biometric system allows for dynamic credentialing: different modalities based on the zone, clearance levels, and role-based access tied to certifications or time restrictions. This leads to tighter security and fewer headaches in high-traffic environments.

Industrial operations often expand unpredictably to a new site, a new subcontractor, or a temporary workforce surge. Seasonal staff, multi-vendor contract teams, rotating shifts, and geographically dispersed sites define this ecosystem. A truly industrial-grade biometric solution must handle this volatility without constant infrastructure changes. It must offer offline functionality for remote locations,



Inside Invixium's manufacturing unit, the IXM Titan is engineered with precision and built to endure the toughest industrial environments

role-based access, and seamless integration with existing systems. This is not just a nice-to-have. It is the operational core of a future-ready security framework.

Security and Sovereignty in a Digital Age

In an era defined by heightened geopolitical tensions and the constant threat of digital espionage, protecting biometric data is non-negotiable. Vendors that ship closed-loop, white-labeled systems from overseas with zero grasp of the real environment introduce unacceptable risks. Too often, these systems come with proprietary or weak encryption, no clear path for firmware upgrades, and closed APIs that block independent audits. This creates openings for data breaches, identity fraud, and regulatory violations, putting industrial organizations in a position they cannot afford to be in.

Purpose-built, field-proven biometrics is not a capability every manufacturer can

deliver. It demands vision, deep technical expertise, and engineering precision that only a select few future-focused companies have mastered. These solutions must be built for the environment, not for the showroom. I ardently believe that biometrics is the gold standard for security and operational control, but it is definitely not a plug-and-play solution. The upfront investment of purpose-built biometric solutions may seem high, but when engineered with the end user in mind, it delivers unmatched reliability, longevity, and return on value. In industries where every second counts and every breach risks millions, only biometrics built to meet real-world challenges can lead the way. Anything less is simply not acceptable. **GIT**



Invixium

www.invixium.com

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Asis International Honors Global Security Leaders with 2025 Awards of Excellence

Asis International, the world's largest association for security management professionals, has announced the recipients of its prestigious 2025 Asis Awards of Excellence, recognizing outstanding contributions to the global security profession. Presented annually, the Asis Awards of Excellence celebrate individuals and organizations that exemplify leadership, innovation, and dedication in advancing security standards worldwide. This year's honorees include professionals from across the globe whose work has significantly impacted the industry and inspired peers within the Asis community.

„These distinguished award recipients exemplify the innovation and leadership that drives our industry for-

ward," said 2025 Asis International President Joe M. Olivarez, Jr., MBA. „Their remarkable achievements not only strengthen the Asis community but set new standards of excellence across the global security profession. I also want to recognize our Awards Committee for their outstanding work in identifying and celebrating these exceptional contributions that continue to shape the future of security.“The awards will be presented during the Global Security Exchange (GSX) in New Orleans on Sunday, 28 September, from 5:00–6:30 p.m. CT at the Ernest N. Morial Convention Center. The ceremony will also be livestreamed for global audiences.

www.asisonline.org



This year's dialogues will dive deeper into EU directives, smart protection strategies, and future careers in security

Sicurezza 2025 Breaking Records

Event Preview

Growing, strengthening, and looking increasingly abroad: Sicurezza 2025, scheduled at Fiera Milano from November 19 to 21, is preparing for a record-breaking edition. Already today, two months before opening, exhibition space is up by 18% compared to 2023, while international exhibitors have increased by 28%, reaching 31% of the total, with companies from 24 countries. This result demonstrates the international strength of the event and its ability to interpret the new frontiers of physical and digital protection.

Thanks to a strong and qualified exhibitor presence, visitors will be able to explore innovations and previews across all sectors - video surveillance, fire prevention, access control, passive security - while also gaining insights into the directions in which the industry is evolving. Among the Italian confirmations are companies such as Inim and Tecnoalarm, while on the international front, global players of the caliber of Notifier and Hikvision make their return. Numerous new entries also testify to the event's growing appeal: among the Italian newcomers are Gams (Bettini) and Combivox; among the international, Assa Abloy and Carrier Fire & Security stand out.

With these premises, a renewed layout, and an increasingly experiential format, Sicurezza 2025 reaffirms itself as a laboratory of innovation in the field of security & fire, where professionals, companies, and stakeholders can share visions, strategies, and practical solutions.

A World of Technologies, Between Integration, Cybersecurity and Customization

Digitalization, the growing use of artificial intelligence, the affirmation of data-driven logic, and the urgency of 360° cyber-resilience are redefining the boundaries of security - a new perspective that will characterize much of the exhibition offering: new video surveillance and access control

systems integrated with AI, predictive monitoring solutions, advancements in video content analytics, edge-cloud platforms for distributed security, and increasingly precise control.

Central will be the theme of technology integration, enabling the management of increasingly complex systems that enhance safety and operational capacity, while at the same time making protection against cyber threats more urgent.

Also in the spotlight will be developments in fire & safety technologies, with

new high-sensitivity fire detection systems, wireless smoke and gas detection systems, and platforms for remote control and predictive maintenance management. Drones, too, will not be missing: they have established themselves as indispensable tools for environmental monitoring and fire prevention - not merely technological gadgets, but true autonomous platforms capable of collecting, transmitting, and analyzing data in real time. Finally, increasingly evident is the trend toward customization of solutions: companies no longer offer just



According to Paola Sarco, Head of Building & Industrial Exhibitions at Fiera Milano, this year's Sicurezza is „a true meeting point between innovation, training, and strategic development for the entire security industry“

products, but position themselves as consulting partners, capable of listening to client needs and designing tailor-made, modular systems.

Three Thematic Days, One Single Goal: Creating A System

The 2025 edition will feature a new format structured around three thematic days, designed to meet the needs of different segments of the sector. The first day of the event, November 19, will be the Cyber Day. Sicurezza will host meetings and events focused on the growing convergence of physical and digital threats, the strategic and cross-cutting role of cybersecurity, operational strategies to protect the value chain of the entire supply chain, and of course, the market impact of the new European directives NIS 2 and CER - fundamental pillars for ensuring resilience and protection of networks, IT systems, and essential services.

November 20 will be the Security Day. Discussions will center on technologies applied in high-risk real-world contexts - transport, finance, major events, cultural heritage - with integrated solutions for video surveillance, access control, intrusion prevention, behavioral AI, and system interoperability. The day will also delve into emerging professional roles required by the market, such as Travel Security Managers or Cultural Security Managers, who combine technological, organizational, and regulatory skills in their specific fields.

November 21 will be the Job in Security Day, dedicated to fostering connections between schools, technical institutes, and companies in the security sector. In an increasingly competitive market, companies report a shortage of adequately trained professionals, while schools and technical institutes are called upon to provide

Visitors at the previous Sicurezza edition in 2023



students with up-to-date, realistic tools to guide them toward future careers. Hence the need to create concrete opportunities for dialogue to bridge the gap between education and the workplace. The EDU Project will address this challenge with targeted activities: company presentations, short interviews, workshops, and dialogue spaces between students, teachers, and businesses. The program is being developed in close collaboration with exhibitors and educational institutions: the listening and needs assessment phase has already begun, aimed at defining the required profiles and key skills. The day will offer a tangible opportunity for companies and schools to meet, focusing on the specific strengths of each, and creating the con-

ditions for a constructive and realistic dialogue.

All Sicurezza 2025 training events will take place in the Cyber & Security Arena, a multifunctional space hosting talks, case studies, demonstrations, and roundtables featuring experts, leading companies, public bodies, and trade associations. Complementing the training program will be the Security Talks organized by the Italian trade Associations AISS, AIPS, ANIE Sicurezza, and ConFederSicurezza, focusing on regulations, trends, and future scenarios, along with ASSIV podcasts offering insights into technology, training, public-private synergies, and innovation in the private security sector.

The Value of Synergies

Sicurezza 2025 will be part of MIBA – Milan International Building Alliance, the format in which it is held simultaneously with GEE – Global Elevator Exhibition, dedicated to vertical and horizontal mobility; Made Expo, Italy's leading event for the construction industry; and Smart Building Expo, the exhibition for home and building automation and technology integration. Thanks to the synergies created among these events, MIBA will transform Fiera Milano into an international hub of reference for topics concerning the evolution of buildings and cities. **GIT**



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



Welcoming new talent into manufacturing is increasingly vital

PERSONNEL

New Faces

Attracting and Retaining the Workforce of the Future

If manufacturing is not attracting and retaining early talent, this will lead to a skills gap that will ultimately mean less innovation and lower productivity in one of our most vital sectors. So what is the scale of the problem – and what can we do about it? Jack Robinson, SVP & Head of Human Resources at Assa Abloy Opening Solutions EMEA, explains why the security and access solutions industry needs to focus on attracting new early talent.

■ It was recently reported in EU Business News that three in five young people would be unlikely to consider a career in manufacturing. When we couple this with the fact that there has been a steady decline of traditional manufacturing apprenticeships in many European countries, it creates a real risk for a significant skills gap in our industry.

Welcoming new talent into manufacturing is increasingly vital to the sector's long-term success. As existing talented workers retire, we urgently need early talent to pick-up the baton and carry the industry forward, developing our future technologies and helping us to continue our journey to work smarter, safer, and more sustainably.

As early talent enters the workforce, they bring new ways of thinking and different perspectives. While experienced professionals have embraced new technologies over time, early talent often enters the workforce already fluent in digital tools, data-driven systems, and platforms like AI. Together, these complementary strengths can drive innovation and adaptability across the industry.

What we as an industry can do

To compete for the next generation of talent, manufacturing must evolve in how we present ourselves to new job seekers. First, learning and development opportunities are essential. As well as equipping new recruits with technical skills, they demon-

strate that manufacturing takes ambition seriously and offers credible, long-term career paths that are dynamic and flexible. By the same token, structured mentorship programs give employees the feedback and support they need to grow, and ultimately, signal that they will be valued and invested in from day one.

We also need to ensure our hiring processes and workplace environments are attractive to job seekers. That means offering a digital-friendly recruitment process, role models that we can truly look up to, and a focus on well-being within the workplace — creating an environment where people feel seen, supported, and inspired to thrive.

What we are doing at Assa Abloy Opening Solutions EMEIA

We are constantly investing in our early talent programs. Since 2010, our EMEIA Graduate Program has welcomed over 200 ambitious young professionals onto an 18-month development journey – one that offers real opportunities to learn, grow, and contribute meaningfully to the business.

I have been personally involved in shaping this program over the years and I am proud to say that it has achieved a 5-year retention rate of over 90 % following completion. This is testament to the program's effective support structures and real commitment to the long-term career prospects of all participants. Since 2022, female representation in STEM roles across our

business has grown by 20 %, and women now hold 27 % of management positions. We have ambitious targets to continue to grow female representation.

Further illustrating our focus on creating a workplace that is inclusive and has a real sense of belonging, 85 % of our colleagues now say they feel comfortable being themselves at work. This is 3 % above the industry benchmark, though our target remains 100 %. These outcomes reflect a meaningful cultural shift and the kind of company we are building for the future.

Looking ahead

Creating a truly future-focused business culture is an ongoing process. The world is evolving quickly – and so must we. This

means constantly improving how we recruit, support, and retain our employees, while continuing to build an industry that reflects the values and expectations of the modern workforce.

To learn more about Assa Abloy Opening Solutions EMEIA and our career opportunities visit: www.assaabloy.com/career/en/open-positions **GIT**



Assa Abloy Opening Solutions EMEIA
www.assaabloy.com

Securitas Secures Contract for Passenger Screening at Frankfurt Airport

Securitas Germany will remain a key partner for security at Germany's largest airport: Following a Europe-wide tender, the company has once again been awarded a contract as one of the security service providers for passenger screening at Frankfurt Airport. The new contract begins on January 1, 2026, and will run for four years with an option for a two-year extension. As part of this, the security provider will take exclusive responsibility for security checks at the new Terminal 3, which will go into operation next year. Securitas already handles screening tasks in Terminals 1C and 2.

With the new contract for Terminal 3, Securitas will be conducting security checks in one of the most modern airport areas in Europe. Terminal 3, which will begin operations after Easter 2026, will expand Frankfurt's hub capacity by up to 19 million passengers annually and plays

a central role in the growth strategy of airport operator Fraport. The project brings new security requirements, which Securitas will fully meet with technological expertise, a location-specific concept, and a high-performing team. The new contract secures employment for over 800 security personnel at the site, reinforcing Securitas' role as one of the most significant employers at the airport.

Securitas has been active at Frankfurt Airport since 2023. At that time, airport operator Fraport took over the management of aviation security checks from the Federal Police. Since then, Securitas has been involved in shaping the new organisational model at the site from the beginning. The successful cooperation between the airport operator, security partner, and authorities will now be expanded with the new contract award.

www.securitas.com



Airport Solutions Live at Inter Airport Europe 2025

Dallmeier electronic and Navtech Radar will be showcasing their latest technologies for integrated security and process solutions in airport operations at stand 720 in hall B6 at the inter airport Europe 2025 exhibition in Munich, Germany from 7-9 October 2025. The emphasis will be on video and radar technology to increase security, make processes more efficient, and to significantly reduce costs. The company's solutions are already used at airports worldwide throughout the entire process chain, from car parks, terminals, the apron area and the runway, to perimeter security. Combining 'Made in Germany' video technology with Navtech Radar's highly developed radar systems enables holistic situational awareness for airside operations under all weather and lighting conditions. www.dallmeier.com

ACCESS CONTROL

Leave Stress and Keys Behind

Keyless Access at Cool Spirit's Smart Beach Huts in Scarborough

Scarborough's beach huts offer secure, stress-free access for every guest, with personal belongings being secured by innovative smart lock technology

Imagine the classic British seaside experience: a sunny afternoon in Scarborough, the country's historic first seaside resort. With its Blue Flag beach, picturesque promenade and multicoloured beach huts, Scarborough is the perfect setting for a relaxing day by the sea. But amidst the bliss, there's always one nagging worry: where do you keep your keys when you want to take a dip?

Cool Spirit Luxury Holiday Apartments, located in Scarborough's North Bay, offers a quintessentially British solution to this age-old conundrum. With select apartment reservations, guests receive complimentary access to their charming beach huts. These mini chalets not only provide a cosy spot for sunbathing and barbecues, but also serve as secure storage for your belongings. Say goodbye to the hassle of carrying keys while you enjoy your day at the beach! However, Cool Spirit wanted to improve the guest experience even further. They wanted to introduce a modern access solution that would eliminate the need for physical keys, bypass complex wiring and ensure the security of guests' valuables. With high guest turnover, they also needed a flexible access management system that could be remotely managed from a centralised platform.

Introducing Innovative Access Solutions

By working with W.G. Pollard Ltd, a respected security provider and Dom Keystone Flagship member, Cool Spirit found the perfect solution: Dom Tapkey Pro V2 access control cylinders. These digital smart locks ensure stress-free access control, allowing guests

to open their beach huts using a mobile app, card or key fob. The intuitive Tapkey app simplifies setup and operation, allowing the admin user to grant secure, time-restricted access to other users with ease. Having previously installed the Tapkey system before W.G. Pollard and Cool Spirit were able to simply extend the wireless operation to the beachfront.

Seamless Integration for Stress-Free Beach Days

The installation of the Dom Tapkey Pro V2 access control cylinders was seamless thanks to their Euro-profile body, which made retrofitting onto existing doors quick and easy. These cylinders feature a low maintenance design, extended battery life and an innovative clutch mechanism for reliable operation. Activating the locks is as simple as using NFC or Bluetooth on your smartphone through the Tapkey app, which is freely available from the App Store or Google Play.

Ben Hume, Dom UK Sales Manager for North UK & Ireland, expressed his satisfac-



The Dom Tapkey Pro V2 access control cylinder enables effortless unlocking of beach huts via the Tapkey app, combining convenience with secure smart-phone-based access

tion with W.G. Pollard's choice: „By specifying Dom access control solutions, we are showcasing what this technology can bring to the market. With the implementation of these advanced access control systems, Cool Spirit has transformed beach days in Scarborough, offering guests a relaxing and safe way to enjoy the seaside. **GIT**

For further information about Dom Security solutions, please contact Thomas Grainger, Dom-UK Marketing Manager thomas.grainger@dom-uk.co.uk



Dom Security
www.dom-security.com

ASSET MANAGEMENT

Advancing Asset Management

Traka To Introduce New Locker Storage Technology

Shared assets are often the lifeblood of operations – the tablet a nurse needs to record her patient's information; the scanner in the warehouse that manages inventory; the radio a supermarket manager squeezes to request assistance. If these items aren't properly managed and stored, it can negatively impact operations and represent not only a security risk if they end up in unauthorized hands, but a financial one if they need to be replaced. Modern lockers are, therefore, a critical resource to proper asset management, and Traka is on the cusp of releasing the latest advancement in modern asset lockers: the Flexible Asset Detection Locker.

Previous versions of asset lockers featured specific inserts and reader brackets; if a compartment was customized for a scanner, that's the only asset that could be placed in it. While those lockers are still a viable and effective way to manage specific assets, many customers are storing a variety of assets in their lockers, and having the flexibility to store any asset in any compartment, while maintaining the same level of monitoring and management, represents the next step in locker evolution. When individual brackets and readers aren't required in every compartment, installation time is reduced, as is the removal and return process. There can often be a time-consuming queue that forms at the beginning and end of a shift when employees need to remove and return assets. If you reduce that downtime and extrapolate it over a year, it can result in significant time saved for companies, which allows employees to focus on more critical tasks.

This new chapter in locker evolution is possible through a proprietary and patent-pending UHF RFID technology. The



Traka's Flexible Asset Detection Locker will serve as a valuable resource in a variety of industry settings, including offices, where several shared assets are utilized



antenna that's equipped in each locker compartment allows for greater tracking capabilities and flexibility for storing individually-tagged assets. The tracking technology is integrated into the locker functionality, which can be utilized as both a standalone and networked solution. Both options allow for full visibility on who has taken which asset, when it was returned, and if there's anything wrong with it. This instills a sense of accountability among employees, who know the locker will keep a running account for all asset usage and can produce an audit report when needed. Additionally, the locker includes charging capabilities so that when an employee removes an asset, the locker prioritizes the asset that has been charging the longest, which cuts down on an employee unknowingly checking out a dead asset. All of these benefits help extend the life of shared assets, which helps eliminate

the need for replacements and provides a greater return on investment for the end-user.

The Flexible Asset Detection Locker represents the latest technology in asset management, as end-users are seeking flexible solutions that empower them to operate more efficiently. A growing number of companies are realizing the impact that modern intelligent lockers can have, and the significant upgrade they represent compared to more manual processes. When leveraged properly, asset management lockers are a foundational solution for streamlined operations, and the latest advancement from Traka shows how they've evolved to meet the shifting needs of modern industry. **GIT**


Traka EMEA
www.traka.com

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Flir Launches Next-Gen Thermal Cameras

Flir launched its next-generation K-Series thermal cameras for imaging before, during, and after firefighting. New single-range dynamic gain and higher resolutions support faster and better decision-making, while the introduction of integral wireless connectivity provides seamless configuration, live streaming, training, media downloads, and camera management.

With the K75 and K85, users can transition to a new era of firefighting professionalism. A high resolution of up to 640 × 480 provides premium thermal imaging quality for precise target identification and enhanced situational awareness from first alarm to clean-up and post-event review. Moreover, the newly introduced single-range interface ensures uninterrupted focus with a simplified live image display and minimal menu interaction to avoid missing critical information. The three-button K75 (320 × 240) will replace both the single-button K33 and three-button K45 (240 × 180), while the three-button K85 (640 × 480) will supersede the

single-button K53 and three-button K55 (320 × 240). Based on a proven legacy of K-Series quality and performance, users can benefit from greater situational and tactical awareness, supported by ergonomic, intuitive ease-of-use. Offering full connectivity, the nextgeneration cameras retain the familiar and preferred pistol-grip design.

"The K75 and K85 are engineered for frontline firefighting with their rugged IP67-rated construction, 2-meter drop resistance, and outstanding high-heat performance," said Peter Dekkers, Director of Business

Development, Flir. "Our engineers have optimized these next-generation cameras for reliable thermal visibility in low-light, no-light and smoke-obscured environments, benefitting not just fire departments, both those in industrial safety, maritime safety and defence. Users will discover that quality is set to the highest professional standards, backed by over 10 years of proven design with previous-generation K-Series sensors."

www.flir.com

Hotel Montresor Tower Enhances Guest Safety and Aesthetics

The Hotel Montresor Tower, a stylish four-star destination just outside Verona, Italy, has successfully upgraded its fire detection infrastructure with Hochiki's advanced Latitude life safety platform. As part of a comprehensive refurbishment, the hotel partnered with local installer TOLA e C. SRL to install a new Hochiki Latitude 8 loop control panel, complemented by voice alarm devices (VADs), call points, and ESP sensors. This system was chosen for its intuitive programming and powerful Hotel Mode that enables controlled alarm delays. Sleek black finished ESP detectors were installed in the newly renovated conference center while elsewhere, legacy sensors were updated to the ESP range to comply with Italian standard UNI11224, which mandates system upgrades every 12 years to ensure reliability and performance.

www.hochikieurope.com



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TUNNEL SAFETY

Keeping Europe Moving

How Optex Secures Critical Tunnel and Rail Infrastructure

Tunnels are critical to Europe's transport infrastructure. They not only speed up the transit of goods and people by rail and road, but they also carry crucial communication networks, connect communities and help contribute to the economy and competitiveness of the European market. But as tunnels continue to become more complex, so too has the security technologies to ensure they remained protected.

Increasingly, transport infrastructure is being built underground in tunnels to reduce the effects of noise and pollution. These tunnels are also getting longer and deeper: the Gotthard Base Tunnel, which runs under the Swiss Alps to form a key part of the north-south Europe rail corridor, is more than 57km long and 2,300m deep, making it the world's longest and deepest traffic tunnel. The Brenner Base Railway Tunnel, once completed, will run 55km between Innsbruck in Austria and Northern Italy. While the new Fehmarnbelt Tunnel, due for completion in 2029, between Denmark and Germany, will be the world's longest underwater tunnel and create a direct corridor from Northern to Central Europe.

Any disruption to these critical networks can significantly impact European economies. For instance, in August 2023, a freight train carrying grain derailed inside the Gotthard Base Tunnel, damaging 8km of track and causing significant infrastructural damage, which took more than a year to fully repair and reopen. Swiss Federal Railways (SBB) estimated billions in economic impact.

The latest European Railway safety statistics show there were 1,567 significant railway accidents in 2023, with 841 lives lost

and 569 people seriously injured. More than half (58.4%) of fatalities were trespassers. Even when there is no injury or loss of life, vandalism can cause significant and costly damage to tunnel and rail infrastructure. In 2024, Austrian train operator ÖBB reported 2,710 graffiti incidents, an 18% increase from 2023, causing damages amounting to approximately €4.5 million. Meanwhile in 2022, for Deutsche Bahn in Germany, graffiti removal totalled €12.1 million.

These figures highlight that protecting railways and tunnels is both expensive and challenging. Tunnels are enclosed, dark, and damp, making it difficult for train drivers to see trespassers who have nowhere to escape. Accurately detecting a person in the confines of a tunnel is challenging enough by itself and is only made more difficult when several trains are using the tunnels at the same time.

Enhancing Tunnel Surveillance

For almost 50 years, CCTV has been in use to monitor tunnel entrances and exits, but these early systems often required security teams to constantly watch anywhere between 12 to 24 camera feeds on a single screen.

Thankfully, the introduction of video analytics has helped security overcome

many of these challenges. Now camera sensors with advanced algorithms can process digital video signals in real time and transform them into data. For instance, a trespasser will instantly trigger an alert which directs security personnel to the appropriate camera feed, allowing them to take the necessary action immediately.

Crucially, however, the technology has to continue to evolve. Trespassers are becoming increasingly more sophisticated and have learnt ways in which they can go undetected by moving towards or entering the tunnel as a train passes or deliberately altering their appearance to fool analytics software. Heat and humidity inside tunnels can also adversely affect many technologies, while radar or microwave technologies can struggle to filter noise and false alarms generated by a train, making them unsuitable.

Modern laser detection sensors, however, are unaffected by humidity or lighting conditions. They can work in complete darkness, strong sunlight, or artificial lighting, and are unaffected by the train's bright headlights, the reflections on tunnel walls or other trains passing through. Equipped with intelligent sensing analytics, LiDAR technology is not reliant on visible light or thermal spectrums, which is useful when



Even in pitch-black tunnel environments, Redscan Lidar sensors operate independently of light conditions, enabling precise detection of human movement

Redscan technology distinguishes between trains and trespassers at tunnel entrances, ensuring accurate alerts and uninterrupted rail operations

tracking a person or animal from the lit tunnel entrance to inside and further along the tracks, or in the shadows.

Precision Detection

Advanced detection sensors, such as Optex's Redscan LiDAR series, use dynamic event filtering to accurately detect human trespassers. When monitoring a tunnel entrance, specific detection criteria or logic is applied to establish different detection zones, the sequence of alarm triggers, and the size of an object, which in combination can determine whether a train, a person, or a group of people is entering the tunnel. If a train is detected, the system will stand down. If a person or group is detected, the control centre and train driver are alerted, allowing the train to slow down or stop to prevent an accident.

LiDAR sensors can detect objects across up to eight different detection zones and an area of 100m. They can also be configured to recognise objects larger or smaller than a defined size; for example, they can ignore trains while detecting people or overlook small rocks but identify boulders. Additionally, the sensors can determine the precise X/Y coordinates of any detected object or objects, enabling tracking when

integrated with advanced VMS software. As part of an advanced Track Intrusion Detection System (TIDS), which integrates multiple technologies, the sensors facilitate intelligent tracking of an individual's movements, allowing security operators to monitor them and pinpoint exactly where they can be apprehended.

In The Dark

As well as performing in darkness, security systems must also overcome increased pressure and pollutants deep inside tunnels. When cleaned, train tracks throw up a considerable amount of metal and oil into the air, which can coat or potentially damage security cameras and sensors.

Dirty systems cannot detect intruders or incidents, so they need to be cleaned. Optex Redscan sensors feature an intelligent algorithm which continuously measures the return or reflection of the laser signal, tracking the percentage of the unit's window that is soiled. Once a certain level of soiling is reached, security personnel are notified. Optex has also developed a special self-healing foil for laser sensors used in underground tunnels, which protects the laser window from dust, metal fragments, oil, and other pollutants.

Getting Tunnel Protection Right

Designing any tunnel security system should begin with a site survey, and an estimate of the number of cameras and sensors needed to ensure sufficient coverage for the size of the tunnel.

Assessing and understanding the types of incidents that need detection – ranging from graffiti, vandalism, and terrorism to trespassers and animals wandering onto the tracks – is also essential. Light conditions at tunnel entrances and along the tracks play a key role in determining whether dynamic filtering functionality is needed because they will be unaffected by trains passing or light bouncing. All this allows the security system to be configured for early, accurate detection that prevents incidents whenever possible.

Ultimately, finding the right combination of technologies that are fit for purpose will vary from tunnel to tunnel. But continued development and advancement of new detection and monitoring technologies can only help to enhance safety and ensure Europe's critical tunnels remain secure and open for business. **GIT**



Optex Security B.V.
www.optex-europe.com

PERIMETER PROTECTION

Sense It Coming

Preventing Airside Incursions with Radar-Based Situational Awareness

The Advance Guard system provides 360-degree situational awareness, ensuring real-time detection and tracking of intrusions at airport sites, even in adverse weather conditions

What happens when someone breaches an airport perimeter? How do airports spot the difference between a lost tourist, a determined protestor, and a genuine threat, especially on a foggy night when every second counts? In this interview, GIT SECURITY speaks with Simonas Mikuzis of Navtech Radar to explore how their radar-based situational awareness systems are transforming perimeter protection and operational safety at airports. From real-time, 360-degree monitoring to the integration of artificial intelligence, Simonas shares insights into the latest innovations, real-world successes, and the future of airport security.

GIT SECURITY: What are the key challenges airports face today with airside incursions – and how does Navtech Radar help mitigate them?

Simonas Mikuzis: Airside incursions are becoming increasingly common and complex. These incidents are not always malicious – we've seen everything from confused individuals walking onto runways to high-profile protestors breaching perimeters. But regardless of intent, the impact is the same: operations come to a halt, people are put at risk, and safety is compromised.

The real issue is that many airports still lack technology-driven situational awareness. Without that, they might not know about an intrusion until it's too late – when protestors breach a perimeter fence and enter restricted areas unnoticed, for example. Our Integrated Security Solution fills that gap. It gives operators real-time, 360-degree visibility of their site. It doesn't just detect intrusions; it tracks them continuously, even in poor weather or darkness, and supports fast, informed response to keep personnel, passengers – and yes, even protestors – safe.

How does Advance Guard stand apart from traditional security technology?

Simonas Mikuzis: Traditional systems are frequently hindered by adverse weather,



Simonas Mikuzis, Product Manager and Security Segment Leader at Navtech Radar

variable lighting, and complex site layouts. Many, once breached – such as perimeter fences – offer no further intelligence. They can't tell you how many intruders there are or where they're heading. Navtech Advance Guard uses high-definition radar and intelligent software to monitor the entire site – not just the perimeter – 24/7. It works

in all conditions and automatically alerts operators when there is a breach. Just as crucially, it provides context: how many people or vehicles are involved, where they've come from, and where they're going. This level of situational awareness is what sets it apart.

Can you give an example of where this kind of system has made a difference?

Simonas Mikuzis: There are numerous examples, though airports understandably prefer not to disclose specific incidents. However, I can say that in several cases, our security solution has provided rapid detection and tracking of intruders – including during night-time – which allowed security teams to act swiftly and resolve the situation with minimal disruption.

One well-publicised example not related to us is a recent incident at a European airport, where a half-naked man ran onto the runway at night and was extremely difficult to locate. If a radar-based security solution had been in place, tracking that individual would have been far easier. At Shannon Airport, where our system is deployed, we understand that a recent attempted incursion was swiftly detected and effectively contained thanks to Advance Guard.

What made Shannon Airport choose Navtech Radar in the first place?

Simonas Mikuzis: Shannon had tried other technologies – particularly optical systems – but they didn't deliver the performance needed. The airport is a high-profile site and it's faced multiple protest-related incursions over the years. Managers wanted a solution that provided not just perimeter protection but full situational awareness. That's when they approached us.

We worked closely with their team to install a system that was scalable, adaptable, and future-proof. Navtech Advance Guard was initially deployed to monitor the entire airside and 10 metres beyond the perimeter, and over time, it's grown with their needs – integrating with VMS systems, ADS-B and Blue Force tracking. It's a great example of how partnership can drive innovation.

How has Shannon Airport responded to the system?

Simonas Mikuzis: The feedback has been excellent. John Francis, former Head of Security at Shannon Airport, said it best: „The precision and scope of Navtech Radar's Advance Guard system, with its ability to spot and track intruders with pinpoint accuracy, to reduce nuisance alarms from wildlife and to distinguish between friend and foe, has greatly improved the security of our perimeter and the situational awareness of our operators.“ It's a testament to how well the system fits the operational demands of a modern, complex airport.

Your HDR series was launched in 2017. What developments have followed since?

Simonas Mikuzis: The technology has matured significantly. The current gener-

ation of radar is robust and proven, and we've continually evolved the solution based on customer needs. Our Integrated Security Solution today is far more than just perimeter detection – it's a full airside safety and operations tool. It integrates seamlessly with video management systems, supports CP line monitoring, and provides valuable insight for runway incursion prevention.

We've also developed our own integrated Blue Force tracking, which gives complete visibility of authorised personnel and vehicles on site. This improves both security and efficiency.

With AI evolving rapidly, how do you see security solutions like yours developing?

Simonas Mikuzis: Artificial intelligence is a topic of significant discussion, particularly in security solutions where it progresses towards identifying patterns and detecting anomalies. While radar itself is a physical sensor, the data processed by our proprietary software already utilises AI to perform additional object identification, thereby reducing false alarms.

The goal isn't to replace human decision-making – it's to give operators more accurate information faster. AI helps systems learn what's normal and what isn't, so we can filter out distractions and focus on real threats. Ultimately, it's about making security more reliable and more efficient. 



Navtech Radar
www.navtechradar.com

ENISA to operate the EU Cybersecurity Reserve with EUR 36 million

The European Union Agency for Cybersecurity (ENISA) and the European Commission have signed a contribution agreement through which the Commission entrusts ENISA with the administration and operation of the EU Cybersecurity Reserve, and provides it with the appropriate financial contribution. The EU Cybersecurity Reserve, foreseen in Article 14 of the EU Cyber Solidarity Act, consists of incident response services from trusted managed security service providers. This support mechanism will be used to respond and recover from significant and large-scale cybersecurity incidents. Procured by ENISA, the services offered will be contracted from trusted managed service providers that have been selected by public procurement calls. The services are intended for users representing critical sectors of EU Member States as described in the NIS2 Directive, as well as EU institutions, bodies, offices and agencies. The services may also be requested by other countries that are associated with the Digital Europe Program (DEP) and whose association agreements include the relevant provisions for granting access to the EU cybersecurity reserve. The reserve is expected to be fully operational at the end of 2025.

www.enisa.europa.eu

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ACCESS CONTROL

Dnake Around the Globe

Five Countries, One System

Dnake is a company specializing in smart intercom and home automation in residential, commercial, and tourist locations. Their technology enhances security and communication in notable developments such as Istanbul's Nish Adalar Konut Project and Bogotá's Centro Ilarco. With over 20 years of experience, Dnake delivers tailored solutions designed to meet the unique needs of communities around the world.

Bogotá, Colombia

Centro Ilarco is a commercial office building in the heart of Bogotá, Colombia. Designed to accommodate three corporate towers with a total of 90 offices, this landmark structure focuses on providing innovative, secure, and seamless access experiences for its tenants. As a multi-building office complex, it required a robust access control system to ensure security, manage tenant entry, and streamline visitor access at every entry point. To meet these needs, the S617 8" Facial Recognition Door Station was installed across the building. Tenants now enjoy hassle-free, touchless access to their offices, while building management benefits from real-time monitoring, detailed access logs, and centralized control of all entry points.



Istanbul, Turkey

Located in Istanbul, Turkey, Nish Adalar Konut Project is a large residential community covering 61 blocks with over 2,000 apartments. Dnake IP video intercom system has been implemented throughout the community to provide an integrated security solution, offering residents an easy and remote access control living experience.



Zlatar, Serbia

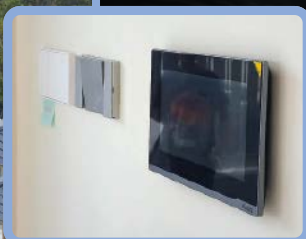
Located in the picturesque region of Zlatar, Serbia, Star Hill Apartments is a popular tourist destination that combines modern living with a serene natural environment. With Dnake's smart intercom solutions, residents and visitors enjoy contactless access through facial recognition and real-time video communication, limiting access to only authorized individuals. The Smart Pro App allows residents to control their intercom system from anywhere and provides easy and smart entry solution for visitors through temporary keys and QR codes. The A416 indoor monitor offers an intuitive interface for seamless communication and control within the apartments.

Warsaw, Poland

This housing estate in Warsaw, Poland, built in 2008, features outdated 2-wire wiring. It consists of two buildings, each with 48 apartments. By leveraging the existing 2-wire infrastructure, DNAKE 2-wire IP intercom retrofit solution eliminates the need for extensive new cabling—significantly reducing material and labor costs while enhancing residents' living and communication experience.

Pattaya, Thailand

Horizon is a premium residential development located east Pattaya, Thailand. With a focus on modern living, the development features 114 luxurious detached homes designed with modern security and seamless communication in mind. The developer chose Dnake's smart intercom solutions to enhance the security and connectivity of the property.





Andreas Beerbaum, VP Global Sales & Service Physical Security at Hexagon Safety

CRITICAL INFRASTRUCTURE

Critical Decision Time

Securing Critical Infrastructure through Regulation

The Critical Entities Resilience (CER) Directive will come into force across all European Union member states in July 2026. Member countries are also passing their own regulations, and a more holistic approach to the physical security ecosystem is being sought. An article by Andreas Beerbaum, VP of Sales, Physical Security – International, Hexagon's Safety, Infrastructure & Geospatial Division. Reminders of the importance of safeguarding national critical infrastructure can be found in global headlines each day, whether it's a fire at an electrical substation, an attack on a nuclear power plant or water utility.

The impact of such incidents is rarely localized and the extended effects can, in some instances, be felt nationally and beyond. In an attempt to shore up defenses, a wave of new domestic and international regulations and directives has recently been introduced with the common objective of strengthening the resilience of critical infrastructure.

One of the most significant pieces of new regulations introduced in recent years is the Critical Entities Resilience (CER) Directive, which will come into force across all European Union member states in July 2026. The new rules will govern organizations operating in the energy, water, transport, banking and health sectors. The regulation aims to ensure the necessary resilience-enhancing measures are in place to improve the prevention, response and mitigation of incidents (such as natural hazards, terrorist attacks, insider threats and sabotage) that could disrupt essential services. The directive runs alongside the Network and Information Systems Directive II (NIS2), which came into force in October 2024 to shore up the cyber defenses of 18 critical sectors across the region.

Local Variations

In addition to EU regulations, member countries are passing their own regula-

tions. In Germany, the KRITIS umbrella law is helping to create a blueprint for CER compliance. This landmark regulation also became law in October 2024 and requires operators of critical facilities to conduct

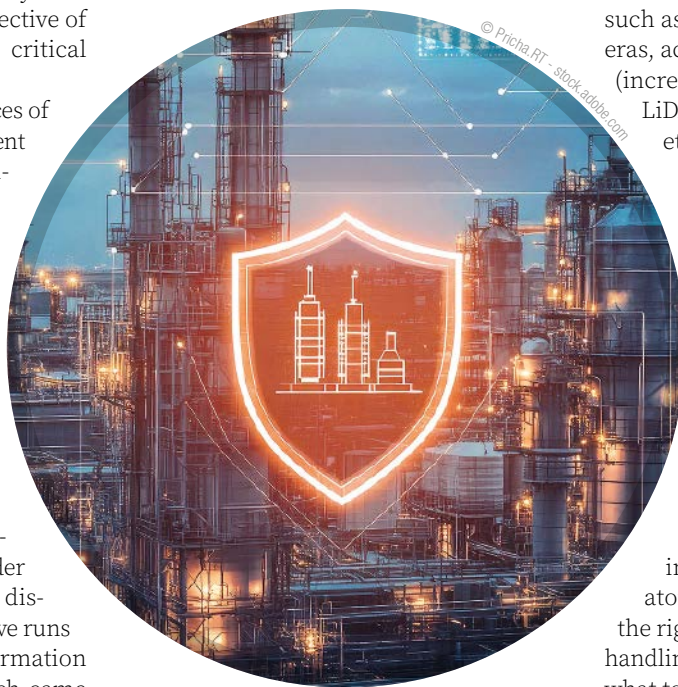
with the regulation have invested heavily in new technologies.

These are organizations that already place a premium on physical security and have vast safety and security infrastructure CCTV and associated technologies, such as video analytics and thermal cameras, access control, perimeter protection (increasingly including the use of 3D LiDAR detection), sensors and alarms, etc. Therefore, the challenge is not necessarily the physical security infrastructure, but how it works as an ecosystem.

System Integration

Often, these component pieces operate in silos, but true situational awareness requires a joining of the dots. This does not mean that every system must be interconnected, as some systems will simply not talk to each other. It is, however, possible to add an integrating layer that provides operators the data feeds needed to make the right decisions at the right time when handling the incident, as well as recording what took place.

Given the emphasis the regulation (specifically, KRITIS) places on incident recording and reporting and the fact that organizations have been given guidelines to deploy suitable measures, it is clear that what is being sought is a more holistic



risk assessments and implement measures to bridge any gaps. This includes deploying the necessary technical, security-related and organizational measures to ensure resilience. KRITIS does not detail specific requirements, so those that must comply

approach to the physical security ecosystem.

That is why these organizations are studying approaches adopted by other heavily regulated industries such as airports, specifically, their use of video management systems (VMS) for more camera-centric operations, and physical security incident management (PSIM) systems. Both of these systems provide the integration and workflows that enable incidents to be handled quickly and efficiently, but also provide the recording, reporting, reconstruction and reply that will aid compliance.

Learning From the Experience of Other Regulated Industries

For example, a large international airport's operations center is using a PSIM solution installed on stations where operators live monitor the airport's fire alarms, access control system and surveillance camera network. When an alert is raised, the operator must follow a strict set of procedures for managing that specific incident in accordance with policy and best practice.

The operator does not need to log into multiple systems to access information, as everything they need is presented to them on the screen at their station. As a result, the operations center has been able to reduce its incident response times and how quickly it responds to other stakeholders.

The airport is required to accurately log every occurrence and the subsequent action, a process that was previously done manually. Today, the PSIM system automatically populates and logs the required information, saving operators time whilst ensuring every report is of a consistently high standard.

It has opened up possibilities to integrate systems, solve problems and make improvements, without needing to make further investments in standalone solutions. The system also gives complete situational awareness regarding when and how an event transpired, who responded, how, and the result. This insight improves decision-making and feeds a continual cycle of improvement.

Physical security resilience regulation, whether at an international or national level, provides much-needed clarity and guidance. However, it is also the case that the legislation is often slow to adapt to what can often be a rapidly evolving physical and digital threat landscape. Operators of critical infrastructure need to be on the front foot in their resilience provision to keep the lights on, pipelines flowing and to safeguard commercial, national and international interests. **GT**



Hexagon
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A Digital Access Solution Helps Campus Managers Feel Confident About Security

The SMARTair system, a wireless and mobile solution from the digital access experts at Assa Abloy, helps universities to digitize access for new and existing student accommodation and to fulfill their statutory duty of care. The out-of-the-box digital access solution has a range of battery-powered locks to secure almost any opening – bedrooms, entrances, lockers, gates, parking barriers, and more – all managed together by simple web-based software, in real time and/or remotely if required. Staff and students appreciate the convenience of secure keyless access, also mobile with the intuitive Openow smartphone app. It is possible to integrate SMARTair with payment systems in the laundry or cafeteria so that students only carry one mobile or digital ID.

www.assaabloy.com

A free Solution Guide for Student Accommodation is available here:



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In the heart of Hong Kong:
the 36-story building The Henderson

ACCESS CONTROL

Smart Spaces, Bold Visions

How Zaha Hadid Architects and dormakaba are redefining smart access and spatial experience in Hong Kong's newest landmark

Sara Klomps is a director at Zaha Hadid Architects and is responsible for the realization of an architectural masterpiece in the heart of Hong Kong: the 36-story building The Henderson. Inspired by Hong Kong's vibrant mix of tradition and modern lifestyle, it stands out among the spectacular skyscrapers of the business district with its curved, organic-looking glass façade. dormakaba's access solutions have helped the architect realize her vision of a building that invites the public to visit and offers seamless, touch-free access.

■ The ferry glides gently across the water from Hong Kong Island toward the metropolis's business center. Sara Klomps stands at the railing, gazing at the silhouette of the skyscrapers, her small backpack slung over her shoulder and her cellphone in her hand. The pinging sounds from her phone constantly remind the architect that there are still details to be worked out before her project is completed and the official opening of The Henderson, scheduled for 2026.

"That's how it works here, always on the cutting edge," she says with a smile, looking at her cellphone screen and typing

as she continues talking. "There's a lot of texting; my entire project is literally running on WhatsApp. I'm almost always on my cellphone."

Sara gets off the ferry and jumps straight into a taxi to get to The Henderson quickly. She has a lot to do today: the layout of a floor that is still empty has to be decided. Not all the counters are in the place she has planned for them. In the afternoon, there is a meeting with suppliers. After that, she has conferences with the Zaha Hadid office in London. Unexpected appointments always crop up. It is going to be another long day and Sara is constantly on the go.

Designing for Innovation

The project has already cost her many sleepless nights, but it is a price she is happy to pay. "It's always exciting to work on such a unique building. In Asia, customers love innovation. They often want smart architecture. And they want buildings that stand out, something that has never been done before. That's fantastic for architects. It helps us realize our visions, of course." She pauses briefly, smiles, and adds: "In Europe, people tend to be cautious about new things at first. Here, it's the opposite. That gives me a lot of freedom, which I really enjoy."

The Henderson: A Landmark on the World's Most Valuable Plot

She gets out of the taxi at 2 Murray Road. This is where the real estate company Henderson Land Development bought the plot of land in 2017 on which The Henderson, with its curved glass façade, now stands. At the time, it was the most expensive building site in the world. This was partly because of its highly sought-after location – right in the heart of Hong Kong, with an unobstructed view of Chater Garden, the largest park in the otherwise extremely dense city center.

Architecture That Connects

For a moment, you could almost forget that you are surrounded by buildings and façades in Chater Garden. A path leads past

old trees, landscaped gardens, a waterfall, and fountains. It is the ideal place to take a break – for businesspeople working in the surrounding bank and office buildings, for tourists who want to recover from the hustle and bustle of the city, and for senior citizens who traditionally meet in the green space to practice tai chi. This peaceful green outdoor area flows seamlessly into the spacious public areas inside The Henderson.

The Concept

The reflections of the surroundings in the curved, exceptionally precise façade emphasize the seamless connection between the garden, the city, and the interior of the building. The connection to the context played a central role in the design of The Henderson. The team at Zaha Hadid developed a creative idea for this: they raised the building on curved stilts to preserve as much of the existing public space under the building as possible. This allows visitors to be guided from Chater Garden into the publicly accessible area of The Henderson.

Sara walks from the park toward the building and is very pleased with the implementation of the design: “It’s a magnificent sight when you look up from the park toward the sky and see the organically shaped silhouette of the building in front of you. Visitors can experience how the boundaries between outside and inside are connected and dissolved.”

Public Space with Purpose

The Henderson joins this series of architectural masterpieces. People move seamlessly across walkways between the building and



Sara joined Zaha Hadid Architects in Hong Kong in November 2017. As part of the team, Sara has driven the development and rise of the company to become one of the world’s leading architectural firms.

the park. An escalator leads to the third floor and the breathtaking lobby with panoramic views, shimmering walls, and light objects that look like works of art. Making this lobby public – with seating areas, art exhibitions, cafés, and restaurants – was an important decision and a central aspect of their design for The Henderson, says Sara Klomps: “We have created a new place for the public to come together and enjoy.”

Dormakaba meets Architecture

From here, smart technology automatically opens sensor gates, doors, and elevator entrances for everyone who works here

or has an appointment or reservation at the rooftop restaurant – controlled only by cellphones or access cards. Part of this concept are the seamless and secure access solutions from dormakaba. Security for access to the office floors was very important to the client. “Once access authorization has been checked, visitors can enjoy a seamless journey through the building,” explains Sara. The design of The Henderson already envisaged that seamless movement within the building should be possible. No stopping, no waiting, no hesitation – everything flows. After the outbreak of the Covid-19 pandemic, this idea became even more important. Visitors can now go from the parking lot to the roof terrace without touching a single surface.

Looking Ahead

The building will officially open in 2026. Sara is delighted with the successful completion of her project and celebrated with her team and other stakeholders in March 2025. “Finishing something in life is always a strange moment – on the one hand you’re sad, but at the same time you’re happy because you’ve done it,” says Sara. She looks to the future with confidence and curiosity: “There will always be another challenging project that will inspire me.” **GIT**



Dormakaba's Access Solution for the office floors installed in The Henderson, Hong Kong



Dormakaba Group
www.dormakabagroup.com

VIDEO

250 Hours Saved Every Year...

... by Optimized Image Improvement

Founded in 1952, Betsukawa Corporation has long specialized in electric power distribution equipment and services – including the design, manufacturing, installation, and maintenance of systems such as distribution boards, control panels, and sub-distribution boards. These systems receive electricity from power companies, adjust voltage levels, and distribute power to various facilities. Beyond its core business, Betsukawa also delivers a wide range of urban infrastructure solutions, including facility management products that streamline monitoring and control for factories and buildings, production automation equipment for the manufacturing sector, energy management solutions for efficient control of lighting and HVAC, and design and maintenance services for railway electrical systems. The Vision Core FCS image improvement software from Eizo was implemented to improve operational efficiency. The two project leaders Daichi Maekawa and Mitsuru Shimazu explain how the software was used and the tangible benefits it has brought.



Daichi Maekawa, Corporate Planning Office, DX Promotion Team, Betsukawa Corporation



Mitsuru Shimazu, Osaka Branch, Sales Group, Betsukawa Corporation

■ GIT SECURITY: Mr. Maekawa, Mr. Shimazu, what were the main challenges in designing the power distribution systems, and what led you to implement VisionCore FCS?

D. Maekawa, M. Shimazu: We have been in the power distribution equipment business for many years, and often handle replacement or modification projects for equipment installed 20-30 years ago. Since our designs are based on existing installations, our sales and technical staff conduct on-site surveys and take reference photos. Our designers then use these images to check cable routing, cap colors, and wire markings.

However, close-up photography is often not possible because of the high-voltage environment. Outdoor conditions like back-lighting and shadows also result in unclear images. We used to rely on standard Windows tools for image correction – or even revisit sites to take more photos. With around 3,000 on-site surveys conducted annually, we needed a more efficient solution. That is why we decided to implement Eizo's VisionCore FCS image optimization software.

How are you using VisionCore FCS?

D. Maekawa, M. Shimazu: We developed an in-house loader tool to be able to inte-

grate the new software without disrupting our existing workflow. This automatically copies photo files to the VisionCore FCS watch folder, processes them, and returns the enhanced images to the original folder – allowing our staff to continue saving files to the company's internal file server as usual. This ensures that all images are enhanced automatically, without requiring any changes on how employees work. The original and enhanced images are stored together, making them easy to compare and use.

What has been the impact of the implementation, and how has it been received within the company?

D. Maekawa, M. Shimazu: The feedback from our design team has been very positive. We have received comments such as, "The photos are much easier to see, and the automatic processing is a huge help." Although VisionCore FCS was only recently introduced, we estimated the potential time savings based on the number of projects, the frequency of unclear images, and the average correction time. The result: approximately 250 hours saved annually.

What were the deciding factors in choosing VisionCore FCS?

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Eizo's VisionCore FCS uses the company's proprietary image enhancement technology to identify and improve hard-to-detect areas in recorded videos or still images

Image Optimization Software: VisionCore FCS

This software uses Eizo's proprietary image optimization technology to identify and enhance hard-to-see areas in captured video or still images, making them clearer and easier to interpret. It features a watch folder function that continuously monitors user-specified folders. When a file is added, the software automatically performs encoding and image enhancement, then saves the processed file to a designated folder or FTP server.



D. Maekawa, M. Shimazu: Firstly, the fast, automatic enhancement of photo batches. The watch folder function was a major advantage – it continuously monitors the server and automatically enhances batches of photos. The software's flexibility also made the integration with our internal systems seamless. We tested everything during the free trial, which gave us the confidence to move forward. Secondly, in an age where most services rely on ongoing subscriptions, Eizo's VisionCore FCS stood out with its one-time purchase model. This made it a highly cost-effective solution for us.

What is your outlook for the future, and what are your expectations for Eizo?

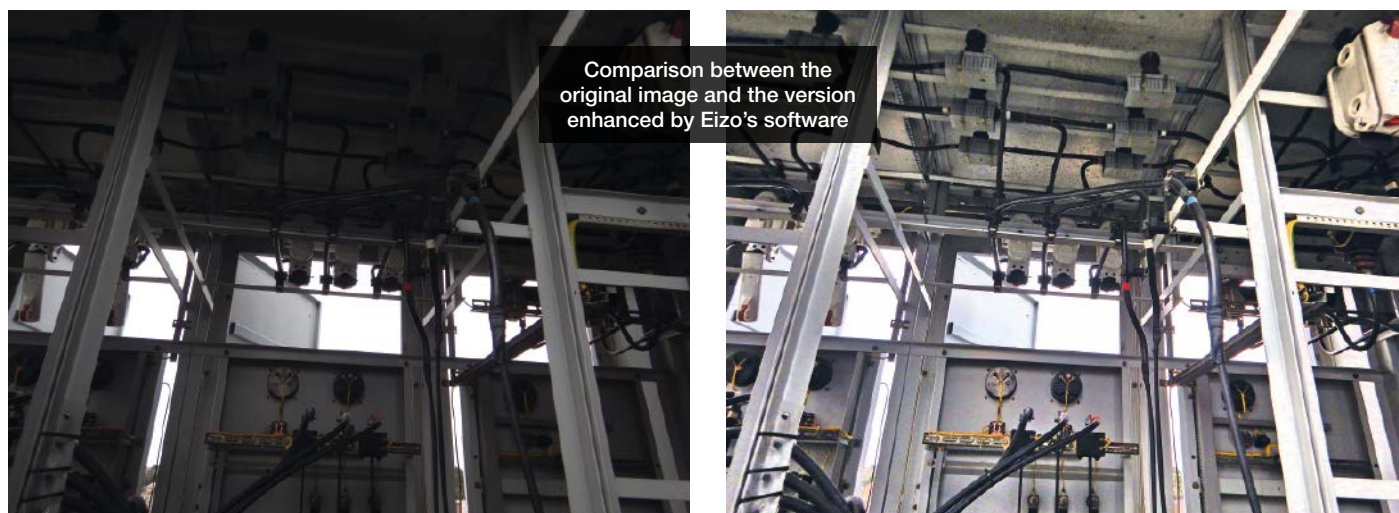
D. Maekawa, M. Shimazu: We are exploring ways to expand the use of VisionCore FCS into other areas of our business, such as surveillance systems and nighttime railway operations, to deliver even greater value to our customers. As part of our DX (Digital Transformation) Promotion Team, we are also working on digitizing design drawings. We are currently considering the implementation of touch panel monitors that allow users to annotate digital drawings as easily as writing on paper during

review sessions. We look forward to Eizo continuing to provide innovative and versatile visual solutions that support our evolving needs. 



Eizo

www.eizo.eu/video-surveillance





Intersec Saudi Arabia brings together industry leaders, government representatives, and technology providers to address the Kingdom's evolving safety, security, and fire protection needs

EVENT

Intersec Saudi Arabia 2025

The Largest Edition of the Event

The seventh edition of Intersec Saudi Arabia, featuring increased government support, will be held at the Riyadh International Convention and Exhibition Centre (RICEC) from 30 September to 2 October. Intersec Saudi Arabia will showcase innovations in security, safety and fire protection, hosting industry experts from around the world. Intersec Saudi Arabia will host 370+ exhibitors across the security, safety and fire protection industries. The size of the exhibition has increased by 25% following a record-breaking edition in 2024, with over 27,000 visitors expected to attend.

Aligning global innovation with national priorities, Intersec Saudi Arabia brings together government authorities, industrial leaders and international solution providers to secure the infrastructure, environments and communities building the nation's prosperous future. Organised by 1st Arabia and licensed by Messe Frankfurt, Intersec Saudi Arabia will be held in association with a range of government entities under the theme Securing progress, igniting safety: Unveiling tomorrow's solutions for Saudi Arabia.

With a series of giga-projects underway in Saudi Arabia, including Neom, Qiddiya,

and Red Sea Global, and major global events on the horizon, such as Expo 2030 and the 2034 FIFA World Cup, the Kingdom is undergoing a significant transformation. Together, these developments mark a pivotal moment in Saudi Arabia's evolution, positioning it as a key player in global tourism, sports, and industry. Focused specifically on the needs of the Saudi market, Intersec Saudi Arabia brings together global innovators, government leaders and industry pioneers to strengthen national resilience, enabling future growth and prosperity.

Bilal Al Barmawi, CEO and Founder of 1st Arabia Trade Shows & Conferences, said: "Now in its seventh edition, Intersec Saudi Arabia provides a vital platform for giga project leaders, critical infrastructure buyers and private sector decision makers to meet, build trusted partnerships and drive progress across the safety, security and fire protection industries."

Intersec Saudi now also features CPD-certified content theatres. The highly anticipated Future Security Summit, Powered by ASIS International Dhahran Chapter, returns, bringing together global experts



as they explore the critical trends shaping the future of public safety and national resilience.

Held in partnership with Asis International Dhahran Chapter, the summit will cover a variety of topics, from AI-driven surveillance and predictive policing to mega-event protection and critical infrastructure security. The summit will also offer in-depth insights into the challenges and solutions shaping the future of the security landscape in the Kingdom and beyond.

Abdullah S. Alshemaly, Chairman of Asis International Dhahran Chapter, said: "As national development in Saudi Arabia accelerates, public and private sectors are scaling up their investments in advanced

surveillance, cyber defence, and critical infrastructure protection. The Future Security Summit at Intersec Saudi Arabia offers a timely platform to explore the technologies, partnerships and policies reshaping the regional security industry."

Also returning is the Fire Protection and Technology Summit, which will explore the future of fire and emergency response with international leaders at the forefront of innovation. From smart city firefighting to high-rise rescue, Hazmat response, and regional disaster collaboration, this summit equips fire safety professionals to tackle the unique challenges of Saudi Arabia's evolving urban environments. Key themes discussed at the summit include

Talent Investment: Building Human Capital in Fire Protection and Safety at Scale: Safeguarding Giga developments during large-scale events in the Kingdom.

The National Fire Protection Association (NFPA) will host a dedicated event on September 30th, exploring how the implementation of global standards supports the Kingdom's Vision 2030 strategy. Commenting on NFPA's strategic participation at the event, Jim Pauley, President and CEO of NFPA, stated: "As Saudi Arabia undergoes rapid transformation aligned with Vision 2030, integrating internationally recognized fire and life safety standards is more vital than ever." The sessions will emphasise the crucial role of standards in fostering innovation, ensuring public safety and promoting cross-sector collaboration. Throughout the day, attendees will gain practical insights into NFPA standards, certifications, and training programs, as well as how they can be successfully utilised for Saudi Arabia's specific needs.

Riham Sedik, Exhibition Director, Intersec Saudi Arabia, Messe Frankfurt Middle East, said: "With giga-projects such as Neom, Red Sea Global, North Pole Riyadh and Qiddiya, Intersec Saudi Arabia offers access to one of the world's fastest-growing markets. "During the event, exhibitors have the opportunity to engage with over 27,000 buyers looking for solutions that address key fire, safety and security challenges while our content theatres deliver the latest market insights and best practices." **GIT**



Messe Frankfurt Middle East GmbH
www.ae.messefrankfurt.com

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An Electronic Locking Solution for Modern Work, Life, and Play

Salto's newest product is the XS4 One S, a next-generation addition to the XS4 One product family and a cutting-edge extension of its smart access ecosystem. It is a compact yet powerful universal electronic locking solution that redefines what modern access control can look and feel like. This new series offers enhanced features and a contemporary square design with sleek reader surfaces, elegant finishes, and durable materials. Compatible with a wide range of global door standards – including Euro, ANSI, and Scandinavian mortise locks – the XS4 One S is easy to install or retrofit to new and existing doors. It effortlessly integrates with access control platforms such as Space, KS, and Homelock from the same manufacturer to deliver a secure and completely keyless solution. **www.saltosystems.com**

INTERVIEW

Beyond the Expo Floor

Five Questions with Exhibition Director Riham Sedik

Riham Sedik, Exhibition Director, shares insights on the event's evolution, highlights of the upcoming edition, and its role in connecting global innovators with national security goals.



© Messe Frankfurt Middle East GmbH

■ GIT SECURITY International: Since its launch, how has ISSA evolved; what milestones stand out most to you?

Riham Sedik: Intersec Saudi Arabia has become established as the Kingdom's leading platform for security, safety, and fire protection. Now in its seventh edition, the event has expanded significantly in scale and influence, reflecting both the growth of the sector in the region and the Kingdom's evolving priorities under Vision 2030.

Over 1,000 brands will be showcased across seven halls, with attendance expected to exceed 27,000 visitors. To accommodate this demand, the exhibition space has increased by 25%.

Intersec Saudi Arabia 2025 is held under the patronage of His Royal Highness Prince Abdulaziz bin Saud bin Naif bin Abdulaziz Al Saud, Minister of Interior, and in association with the General Directorate of Civil Defense. The event brings together government authorities, industry leaders, and international solution providers to safeguard the Kingdom's infrastructure and communities.

With giga-projects such as NEOM, Qiddiya, and the Red Sea Development – as well as major global events like Expo 2030 and the FIFA World Cup 2034 on the horizon – Saudi Arabia is rapidly reshaping its security landscape. Intersec Saudi Arabia plays a vital role in connecting decision-makers with global innovators to ensure these projects are secure, resilient, and future-ready.

Equally important has been the growth of our conference programme, which includes the Future Security Summit, Powered by ASIS International Dhahran Chapter, and the Fire Protection and Technology Summit. These forums continue to attract the most respected voices in the industry, providing invaluable insights and setting the agenda for the sector's future.

What are the major highlights introduced in this year's edition of the show?

Riham Sedik: This year, we have partnered with the National Fire Protection Association (NFPA) which brings unparalleled global expertise in fire protection to the event. As part of this collaboration, NFPA will host a dedicated event program on 30 September, focusing on how the adoption of global standards supports the Kingdom's Vision 2030 strategy.

Topics that will be discussed during the NFPA day include 'Protecting GIGA developments and large-scale events in the Kingdom', 'Building human capital in fire protection', and 'Navigating new fire safety regulations and compliance.' The initiative creates a powerful platform for exchanging knowledge, building local expertise and fostering meaningful collaboration between industry leaders, government authorities and safety professionals.

We are also proud to announce that all conferences at Intersec Saudi Arabia are now CPD certified, underscoring our commitment to providing high-quality, valuable educational experiences that contribute to the professional growth and development of our attendees.

Visitors will also have the opportunity to explore dedicated country pavilions for China, Italy, the UK and Czech Republic and gain valuable insights from speakers from the United Nations, FIFA, the Saudi Ports Authority, Red Sea Global and NEOM through our conference programme.

In addition, the Premium Club returns to Intersec Saudi Arabia, offering key buyers and decision makers exclusive benefits during their visit to the exhibition as well as the Majlis, the exclusive invitation-only space for senior government officials and stakeholders to engage in strategic dialogues.

How can first-time visitors have the best experience at ISSA 2025?

Riham Sedik: Intersec Saudi Arabia unites professionals in security, emergency response and safety from all corners of the world, making it an unmissable platform for first-time visitors who want to experience the full scope of the industry in one place.

To make the most of their experience, visitors should explore our five main product categories which include Commercial & Perimeter Security, Homeland Security & Policing, Cybersecurity, Fire & Rescue and Safety & Health. Each of these product sections showcase the latest technologies and live demonstrations from local and international brands.

Beyond the exhibition floor, our CPD-certified conference programme provides an invaluable opportunity to learn from global experts and gain insight into new regulations, best practices and emerging trends. Ultimately, the best way for first-time visitors to experience Intersec Saudi Arabia is to plan their visit in advance, prioritise both the exhibition and the conference elements and leverage networking opportunities.

In the years to come, what role do you envision Intersec Saudi Arabia playing on the global security and safety landscape?

Riham Sedik: In the years ahead, Intersec Saudi Arabia will serve as a crucial link between national priorities and global security innovation. With the Kingdom's Vision 2030 driving significant investments in smart cities and infrastructure, the event will continue to increase in importance, connecting international expertise with local needs and promoting collaboration and knowledge exchange, shaping the future of security and fire safety. 

www.ae.messefrankfurt.com

ENCRYPTION PROCESS

Protection Against Tomorrow's Quantum Attacks

A New Method of Key Exchange Enables Economic and Secure Communication

Quantum computers are a nightmare for data security. They will soon be able to crack many of the encryption processes used today. Among other things, this affects encrypted emails, messenger service or online banking. Researchers at the Karlsruhe Institute for Technology (KIT) have developed a process together with their partners that can reliably protect Internet connections today against the quantum technology of tomorrow.

Thanks to a new process for key exchange, researchers can now protect today's communication from tomorrow's quantum attacks

■ The problem: "The rapid progress made in the development of quantum computers is a threat for data security and encrypted communication", says Laurent Schmalen, Professor at the Institute for Communications Technology of the KIT. "The most common encryption processes are based on the difficulty of dividing large numbers down into their prime factors – that is, into the numbers that are only divisible by one and themselves." This process is extremely complicated and time-consuming for conventional computers, but not for quantum computers, the expert explains. "And whoever knows the prime factors of a large number can break the security."

No Expensive Special Equipment Necessary

The solution: quantum attacks can nevertheless be thwarted using conventional cryptography processes, namely with symmetric encryption. For this it is necessary for both parties to exchange a virtual key before setting up the encrypted connection to be able to decode the transmitted data later on. Although this is in itself secure, complicated and expensive equipment has been necessary to date. Now the researchers have made use of conventional

hardware: "We were able to carry out the quantum key exchange with standard fiber communications hardware, such as the type that is installed with fiber connections in houses and apartments and not expensive special devices", says Schmalen. This would enable widespread introduction within five years. "We can make global telecommunications networks secure with this."

Successful Demonstration

The project team demonstrated the process in real time at the Ludwig Maximilians University in Munich on 27 March 2025. A video transmission was made over the fiber network on the campus that was protected by the quantum key exchange. The researchers at KIT have developed a new type of algorithm for the key exchange. They ensure that both parties who want to establish a secure encrypted connection have an absolutely identical key, and that the connection is definitely secure. "Our new algorithms for the exchange of keys are a significant step to ensuring that connections are secure. They adapt themselves dynamically to changing conditions and prevent attackers from gaining information about the key exchange", explains Schmalen.

Tobias Fehenberger, Director R&D at Adva Network Security, adds: "The project marks a major milestone in the development of quantum secure encryption. The successful validation of a modular, powerful system proves that quantum security can be applied in practice using commercially available components and an open architecture." The Bundesministerium für Bildung und Forschung (BMBF) supports the 'Development of high-performing transmission components for quantum secure communication over glass fiber lines in metro and long-distance networks' (DE-QOR) project with a 3.4 million euro budget. Of this, KIT has received around 350,000 euros. The project partners beside the KIT and Adva Network Security are the Ludwig Maximilians University, the Leibniz University in Hanover as well as the Microwave Photonics and Creonic companies. **GIT**



Karlsruhe Institute for
Technology
www.kit.edu

Showa Launches Sentinel Hand Protection Program In EMEA Region

After combining on-site assessments with structured glove trials to help large employers reduce hand injuries, improve protection, and identify cost-saving opportunities, Showa has launched its Sentinel hand protection program in the EMEA region. Already operating successfully in the US, 'Sentinel by Showa' is a free two-step process that begins with an assessment of the entire facility by experienced company representatives. This identifies risk factors and potential improvements in hand protection, and recommendations are compiled in a report tailored to the needs of each end user. This can be followed by the Sentinel 4-week trial program that allows end users to test recommended Showa gloves against their currently used products in terms of comfort, dexterity, durability, and suitability for specific purposes.

www.showagroup.com



Verkada cements AI and cloud leadership at VerkadaOne

Verkada unveiled a range of product enhancements designed to make physical security more proactive and intelligent during its annual customer conference, VerkadaOne. More than 2,000 IT and physical security leaders gathered in Chicago from September 22-24, to connect and learn about new solutions from Verkada that are empowering physical security leaders to protect people and places.

ple and vehicles across a property. With the new AI-Powered Unified Timeline, Verkada Command will unify video events from all cameras onto a single, map-based timeline. Paired with expanded AI-Powered Alerts that include activity- and industry-specific detections and an Operator View that centralizes alerts into a ticket-based system with a structured workflow, Verkada is delivering powerful tools to unlock new efficiency for security professionals.

Verkada also expanded on its leadership in cloud access control by launching a new wireless lock series and Face Unlock feature with its new AF64 Access Station Pro. The AF64 allows users to simply walk up to a door and unlock it with their face as their key. The novel AF64 reader combines a single-door controller, multi-technology door reader, 5.5" touchscreen, and a full-featured 5MP wide angle camera into one sleek device that requires only a PoE connection to get up and running. Verkada is also extending the power of its platform to reach beyond the perimeter of buildings and to even more remote locations than ever. Verkada's new CR63-E Remote Camera with LTE enables organizations to easily monitor areas that lack power and internet infrastructure. To offer even flexible solutions for mobile or temporary deployments, the provider introduced its MT81 Cloud-Managed Security Trailer, a solar-powered, cloud-managed trailer that supports up to six Verkada devices.

www.verkada.com



Building on its suite of AI features like People and Vehicle Analytics and AI-Powered Search, Verkada introduced a first-of-its-kind tool to visually reconstruct the entire journey of peo-



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DATA PROTECTION

The Pillar of Digital Resilience

Why Safeguarding Sensitive Information Must go Beyond theory and become a leadership imperative

Data privacy is a leadership responsibility – that much should be clear by now. Data loss can occur anytime and anywhere: in companies, public institutions, or private settings. That's why regular backups, strong cybersecurity measures, and proactive planning are all the more important. With the rising threat level, taking action is no longer merely advisable – it's long overdue. Unfortunately, despite growing awareness, there is still a dangerous imbalance between theoretical understanding and practical implementation: according to the current TÜV Cybersecurity 2025 study, 73 percent of companies consider cybersecurity important. Yet their technical measures often do not match the actual risks.

Protecting sensitive data should always be the highest priority. In addition to increasingly sophisticated attack methods, the constant evolution of regulatory requirements poses an ongoing challenge. The planned ban on ransom payments in the UK public sector, for instance, is a step in the right direction in the fight against cybercrime. At the same time, it underscores the importance of taking responsibility. While there are public initiatives like cybersecurity groups and national security authorities, true resilience must be built within organizations themselves. This requires tailored contingency plans that reflect individual risks, systems, and personnel – enabling swift and targeted emergency responses.

Just like the human body, digital resilience consists of a unique set of components. Early detection, prevention, structured response plans, and recovery processes must work together. Only when these components are integrated can true self-healing capacity emerge.

The Strategy Behind the Ransom Payment Ban: A Political Signal with Consequences

At first glance, banning ransom payments in ransomware attacks seems reasonable: if cybercriminals can no longer extort

money, the attacks lose their appeal – or so the theory goes. In reality, it's rarely that simple. Especially in the public sector, institutions often lack the financial and human resources to recover independently from an attack. The ban removes the option to pay, without providing better tools to restore systems.

This change in policy should therefore be understood as a wake-up call. It signals that reactive measures are no longer sufficient in a dynamic threat environment. Leaders must stop viewing cybersecurity as a purely technical task and instead embed resilience into their overall strategy. Regulatory demands are becoming stricter: EU directives like NIS2, the Cyber Resilience Act, and DORA are increasingly pressuring companies not only to plan strategically for cyber resilience but also to implement it concretely. This is not just about refusing to pay ransom – it's about ensuring operational continuity in the event of a crisis.

Resilience is a Leadership Responsibility, Not a Budget Issue

Electronic flexibility is often associated with high costs or a multitude of technical security tools. However, true flexibility is not measured by budget but by mindset. The best-protected companies are not necessarily those with the latest software, but those that manage risks strategically and prudently. Studies show that 91 percent of companies overestimate their security level – a classic case of „optimism bias.“ Companies that haven't yet been attacked often have a false sense of security. This cognitive distortion leads to necessary investments and actions being postponed.

Ransomware attacks are not only successful because of the attackers' sophisticated methods. Often, basic organizational mistakes pave the way: weak passwords, outdated systems lacking current security patches, poor access controls, or untested recovery plans. This is why phishing (53 percent according to Bitkom), data leaks, and ransomware (31 percent according to KPMG) are among the most common types of attacks – more due to organizational shortcomings than technical genius.

That's why leaders must ask the right questions about critical aspects of their business – before something happens. For example: "What would happen if our systems failed tomorrow?" or "How quickly could we recover them?" If the answers to these questions are unclear, action must be taken immediately. Backups should not only exist but also be regularly tested and secured. Only then can access rights be clearly defined and systems quickly

restored in an emergency – to protect the entire company.

Backups Alone Aren't Enough – Resilience Goes Further

Regular data backups remain an indispensable component of any resilience strategy. Yet in many companies, they are treated as an annoying compliance task rather than a crucial lifeline in the event of a major security incident. Weekly backups stored on the same network are far from sufficient. Backups must be regular, external, encrypted – and most importantly – tested. An unreadable or compromised backup is just as useless in an emergency as having none at all.

The proven 3-2-1 rule remains the gold standard: three copies of data, on two different storage media, with one stored offline or externally. Equally important is to train staff on recovery processes and document them thoroughly. Flexibility is not shown by the amount of data stored, but by the ability to restore it quickly and completely when needed. If a company becomes the victim of a ransomware attack, paying the ransom is not an option. The only remaining choice is recovery – and at that moment, the quality of preparation determines business continuity. Clean and accessible backups, clearly defined processes, and a well-rehearsed team – none of this is accidental. It's the result of proactive planning.

Control Access, Protect Identity – In a New and Holistic Way

When we talk about cybersecurity, we must be honest. In most cases, cybercriminals don't enter systems through complex or unknown vulnerabilities. Instead, they gain access using stolen or reused credentials. That's why identity security must be the foundation of any serious security strategy. Some of the most effective means of protecting sensitive systems include multi-factor authentication, secure password requirements, and role-based access controls. These provide extra layers of protection, reduce the potential scope of attacks, and ensure only authorized individuals have access at the right time. In this regard, the identity and access management system (IAM) plays a key role – not just in prevention but also in active protection. Without an effective IAM system, other security measures are often ineffective.

All of this is of little use, however, if attackers can bypass security measures by posing as legitimate users. Investing in expensive network monitoring or endpoint security without ensuring fundamental identity and access management

is like building on sand. IAM is now critical infrastructure for companies and essential for protecting sensitive data and maintaining operational integrity. It is leadership's responsibility to set this priority and actively support it.

Protecting Reputation Through Sustainable Cyber Resilience

Ransomware is no longer just a technical issue – it's a management challenge. In crises, help rarely arrives fast enough. When ransom payment is no longer an option, the responsibility for response and recovery lies entirely with the organization itself. That's why cyber resilience must be an integral part of emergency and business continuity planning – treated as a strategic priority, not a technical add-on. The organizations that will survive in the future are those that invest not just in technology, but also in their people. They view backups, access controls, and training not as burdens but as critical tools. They understand that cyber risks affect everyone – not just the IT department.

Sustainability in cybersecurity is like juggling several balls: it's not enough to strengthen individual elements. The key to success lies in the ability to think holistically and coordinate multiple actions at once – from awareness training to technical protection to clear crisis management. Money alone doesn't guarantee success. Experience shows: organizations with the biggest IT budgets are not always the best protected. What matters is whether security and sustainability are top priorities and whether processes, responsibilities, and recovery concepts are regularly reviewed.

Strategic Responsibility Is the Prerequisite for Resilience

The biggest mistake is believing you're not at risk – or that help will arrive in time. When cyberattacks become a reality, only one thing matters: how well prepared the company is. Flexibility begins in the mind and becomes effective when technologies, processes, and people work together. Cyber resilience is not a technical option – it is a strategic necessity. Those who are prepared gain more than just security – they earn the trust of their stakeholders. 





VIDEO

One for All

Gordon Mattern on Ajax Systems' EN54 Line

With a strategic focus on real-world installer workflows and the pressing need for rapid, disruption-free deployment, Ajax Systems' Gordon Mattern introduces us to its EN54-certified fire protection line, offering a wireless, app-configurable system that combines fire detection, intrusion protection, video surveillance, and automation in one seamless platform. Mattern's insights reveal today's clients expectations and what's the new standard in modern fire safety.

— GIT SECURITY International: Mr. Mattern, as Head of Technical Pre-Sales at Ajax Systems DACH, how has your experience in the security industry shaped your perspective on current challenges and opportunities for innovation?

Gordon Mattern: We have completely new customer demands in the security industry. Private customers' expectations have evolved. They want convenience in addition to security. The demand for a unified and seamless security ecosystem has increased. Meanwhile, commercial customers now need to secure their properties in much more innovative ways. They are looking for sophisticated and fast-deployment security solutions to protect any type of assets.

Furthermore, seamless integration is no longer optional; it's essential. Ajax Systems offers the perfect solutions to meet market demand, offering a comprehensive security ecosystem that combines intrusion, fire protection, video surveillance, and automation.

How would you describe the current state and main trends in the fire safety market, particularly across the DACH region?

Gordon Mattern: The current state of fire protection remains robust, but it has historically lacked disruptive innovation. Recognizing this gap, we've developed an EN54 certified system that delivers comprehensive dual-purpose security – addressing both fire detection and alarm systems in one integrated platform. We have brought precisely this solution to market with our EN54 Line. It is not another regular EN 54 certified system. It is a true disruptor of the conservative and stale industry.

For those unfamiliar with EN54, could you explain what these standards encompass and what they mean for the fire safety industry?

Gordon Mattern: The application areas of the DIN EN 54 series of standards for fire detection and fire alarm systems extend to commercial and municipal sites, such as office buildings, hospitals, kindergartens, retirement homes, and hotels, as well as special environments such as mining and ships.

Thus, the application possibilities are enormous in the DACH region. Our customers often request the implementation of a fire alarm system according to DIN VDE 0826-2. With Ajax EN54 Line, this is

perfectly possible, and the installer can also integrate intrusion protection and video surveillance into our systems.

Ajax Systems' new EN54-compliant product line is positioned as a significant shift in fire safety. Could you walk us through what makes this product line distinct in today's market?

Gordon Mattern: What has always distinguished Ajax Systems the most is its innovation in the security industry. EN54 Line is built for real-world installer workflows and end-user expectations. It's an easy-to-install system that functions reliably and can be quickly and easily commissioned entirely via an app. It allows the building of a fully wireless system and then the management of the setup via the CIE's touch screen and Ajax apps, on-site or remotely. The installation means minimal disruption on site and rapid rollouts across single locations or multi-site portfolios. It's designed to be installed quickly without compromising compliance.

What considerations and philosophies guided the development of Ajax's EN54 Line? What do you think sets it apart from traditional solutions?

Gordon Mattern: We aimed to build on our success in the burglary sector and introduce a system that would be easy for installers to set up. Additionally, we wanted to create a new bridge between professional fire alarm and burglar alarm systems so that everything operates under one system. This not only simplifies management for installers and end users but also opens the door to smarter, more integrated safety strategies.

Rather than viewing fire as a separate layer of protection, we designed the EN54 Line products, combined with Ajax intrusion protection, automation, and video surveillance, to build a strong foundation for any client offer — whether it's a chain gas station, a local grocery shop, a museum in a historical building, or a rapidly scaling manufacturing site. This is a true wireless solution with exceptional range, scalability, remote maintenance, and fast implementation — designed to fit all types of projects.

What can customers expect from this new generation of fire detection systems?

Gordon Mattern: Customers can expect the most innovative and advanced EN54 system on the market. This system offers fast and clean deployment of wireless fire

detection and alarm systems that shortens installation time and reduces disruption on-site. Installers can implement wireless solutions faster and with fewer resources to stay ahead of the competition. No more programming the logic of interaction between system devices and the complex configuration process. Ajax Systems offers smart software and intuitive settings in the Ajax apps, quick device installation without disassembling enclosures, and automatic testing and reports.

Can you share some examples of how Ajax's solutions can support both safety and business needs for different types of facilities?

Gordon Mattern: Yes, of course. Let's consider a hotel, which naturally needs not only fire protection but also to secure its facilities against burglary. Additionally, the hotel wants to be able to operate its video door intercom and surveillance cameras through the system. With Ajax Systems, all of this can be managed via an app. But it gets even better. Customers like hotels or kindergartens can also measure air quality with our system and receive notifications when certain levels are exceeded. That's truly fascinating.

The combination possibilities are suitable for every industry. Ajax EN54 Line enables fast setup and reliable protection without permanent wiring, and it's easily reusable, reconfigured, or redesigned. No noisy or invasive installation, low maintenance, and centralized supervision are critical in environments like schools or hospitals and high-risk facilities.

How do you envision the evolution of fire safety technology over the next few years, and what role will wireless innovation and advanced integration play in that transformation?

Gordon Mattern: I think they will play the biggest role. The market is moving toward solutions that are not only compliant and reliable but also faster, simpler, and easier to deploy. Laying cables is extremely expensive, especially in the DACH region, and finding installers is very difficult due to the shortage of skilled workers. An innovative and simple wireless solution for fire protection in the highly professional sector is exactly the right answer. **GIT**



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HSE managers and PPE manufacturers need to work far more closely to develop circular practices that reduce the environmental impact of PPE from design through to the end of use

OCCUPATIONAL SAFETY

From Disposable to Sustainable

How Circular Practices Reduce Waste and Emissions

In the world of occupational health and safety, the selection of personal protective equipment (PPE), such as protective garments, is a matter of paramount importance. But the choice of PPE is no longer solely about personnel safety: environmental stewardship is increasingly important. This raises new challenges for HSE managers.

For example, disposable coveralls may offer vital protection for front-line workers, but they are also a significant source of plastic waste and carbon emissions – not least because PPE packaging is often not recycled either. The time has come for health and safety professionals to embrace circular economy principles in their PPE strategies.

A circular economy centers on minimizing waste, keeping materials in use, and supporting more regenerative and restorative systems. Textiles, including the materials used for making protective garments, offer significant potential for improvement. The UK's Waste and Resources Action Programme (WRAP) has shown that enhancing product longevity could halve the carbon and water footprints of the textile sector by 2030.¹

To achieve circularity and deliver on sustainability, collaboration throughout the value chain is essential. HSE managers and PPE manufacturers need to work far more closely to develop circular practices that reduce the environmental impact of PPE from design through to the end of use.

Reducing Impacts

There are some key questions that HSE managers can ask to identify whether their preferred PPE manufacturer is applying circular principles. For example, transportation is a major contributor to carbon emissions, so check whether garments can be manufactured locally, or what method of transportation will be used.

Check whether renewable energy is used during garment manufacture. Many Dupont protective garments are made from a unique, lightweight, and durable material called Tyvek. Dupont Tyvek manufacturing locations use renewable energy credits and Guarantees of Origin to power 100% of their operations.

Packaging is another area of focus. Key considerations here are whether garments are wrapped singly or in bulk, and whether the packaging material is recyclable and/or contains recycled content. In 2015, DuPont introduced Tyvek 500 Xpert Eco Packs, which has removed 820kg of solid waste per 35,000 garments. We also have an ambition to replace paper-based instructions for use (IFUs) with electronic QR codes as soon as European legislation allows it.

Recycling is key to the circular economy. Although the law requires HSE managers to dispose appropriately of contaminated PPE, there are now viable options to recycle uncontaminated garments. Ask whether your PPE provider offers recycling initiatives. For example, Dupont has conducted successful trials for a recycling scheme that means customers can ship their non-contaminated Dupont Tyvek garments in large batches directly to a local recycler. By adhering to the Tyvek protective apparel recycling referral program, HSE managers can introduce circular practices and contribute to lowering carbon emissions.

Lifecycle Optimization

Of course, the best way to support a circular economy is to create less waste in the first place. This makes lifecycle considerations central to selecting a PPE partner. Look for more durable garments, which will last longer and do not need replacing as often. Also check to see if coveralls are made of mixed materials, how easy these materials are to separate and recycle, and whether there is a market for the recovered material. For example, Dupont Tyvek fabric is highly

resistant to abrasion and tears, which can extend garment shelf-life and significantly reduces the number of items that HSE managers must discard. It is spun from a single high-density polyethylene (HDPE), which is easily extracted for recycling and reuse in multiple applications.

Disposal is the last option in the circular economy. There is no other practical option for contaminated protective garments: but HSE managers can make a difference here as well. For example, choose PPE made from materials that do not produce hazardous substances after incineration. Also, try to select PPE made with lighter fabrics. This has no impact on safety but a big impact on the planet because heavier materials generate more waste. Tyvek material is typically 20% to 50% lighter than microporous film and spunbond-meltblown-spunbond (SMS) alternatives.

Final Word

Safety and sustainability go hand in hand. Working more closely with manufacturers such as Dupont, HSE managers can support the transition to a circular economy and develop new ways to reduce their PPE carbon footprint across the products' lifecycle.



PPE solutions like Tyvek demonstrate how safety and sustainability can align, minimizing environmental impact without compromising protection.

Adopting more sustainable PPE sourcing also makes sound business sense, by reducing garment replacement frequency, waste, and disposal costs. **GIT**

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Dupont Personal Protection

¹ www.wrap.ngo/take-action/uk-textiles-pact

www.dupont.com/personal-protective-equipment

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