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GIT SECURITY EMEA

MAGAZINE FOR SAFETY AND SECURITY

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Dear Readers,

Early this year, Intersec 2023 in Dubai was the perfect occasion for us to reconnect with the industry, talk to our partners and understand the trends in security and fire safety. As you can see in our review on page 10, the show was a big success. Our talks at the show, the conference program and the presentations on the show floor confirmed several trends in the industry for 2023.

Some regions will show an impressive growth and Saudi Arabia is certainly one of them. The Kingdom witnessed the highest value of project awards in 2022, demonstrating its commitment to driving economic diversification and transforming the country in line with its Vision 2030.

Integration is King in 2023. Never have we seen so many integrated solutions advertised at a show like in Dubai and if you read through this issue of GIT SECURITY, you will see many examples for deep system integration. Cooperation and co-developments together with other vendors are not a sign of a lack of expertise but a sign that vendors understood the message from the market.

Energy saving is taken very seriously. The pressure on building and business operators is forcing them to work on energy savings and prove the achievements. Technology is available that displays the energy consumption in real time and this makes improvements in this sector easier and more transparent.

Mobile Access, Mobile Access and Mobile Access. A look at our cover story helps you to understand why this topic is so dominant in the access control sector. The only factor that still slows down growth in this area is the acceptance by some end-user groups.

Cloud services are on the rise, finally. End-users and integrators have the freedom of choice. Hybrid models, where you can store data on-site at one location and via a cloud service at another, were the missing link for the security industry.

Finally, a little reminder to our industry partners: To promote product development, every year we recognize the best products with GIT SECURITY AWARD. In preparation to the next round of the award, we are asking our partners to submit new products via www.security-award.com. The closing date for applications is March 31st.

Stay safe and enjoy reading this issue!

Heiko Baumgartner
For Wiley's Safety and Security team

■ MANAGEMENT

■ SECURITY

Yavor Gueorguiev
Genetec

Bjørn Bergqvist
Milestone

44

30 Johannes Ortmeier
CES

Dexter Zhu
Hikvision

Andreas Conrad
Qognify

www.GIT-SECURITY.com

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NEWSLETTER

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societies and individuals to develop digital content, learning,
assessment and certification tools.

Wiley continues to share and deliver the answers to the world's
challenges helping you to further your mission.

Senstar Expands Its Presence in the EU

Senstar announces its European expansion with the appointment of Gabriel Furtado as Regional Sales Manager position covering Spain, Portugal, and Italy. "Gabriel has helped Senstar develop various markets in North and South America," said Alain Grinbaum, Senior Sales Director. "I am confident he will be successful in this new role. Gabriel's qualifications of being a degreed Electrical Engineer with both Field Sales Engineering and Regional Sales Management experience makes him the logical choice." Gabriel has held various positions at Senstar since 2014. Prior to Senstar he worked in the security industry selling and supporting IP video surveillance solutions. Gabriel holds an Electrical Engineering degree from Pontificia Universidade Catolica in São Paulo, Brazil, and a Masters in Product Management from the Escuela Superior de Publicidade e Marketing (ESPM). "I look forward to building on our success and helping customers integrate Senstar's innovative solutions in their security and business intelligence systems from my homeland - Portugal," said Furtado, who is fluent in Portuguese, Spanish, and English. **www.senstar.com**

Hexagon AB Acquires Qognify

Qognify announced being acquired by Hexagon AB. Hexagon is a global leader in digital reality solutions combining sensor, software, and autonomous technologies and acquires Qognify from Battery Ventures, a global, technology-focused investment firm. Steve Shine, President and CEO at Qognify, highlights the opportunity the acquisition creates for Qognify: "Joining Hexagon gives Qognify the ability to expand its footprint in the area of true enterprise-class physical security solutions – especially in key verticals such as public safety, infrastructure and transportation. Qognify will be able to leverage Hexagon's geographic reach to address additional markets. The acquisition creates a solid basis for continuous growth and development, from which also existing customers and partners will benefit." **www.qognify.de**

Christopher Sincock joins PureTech as VP Channel Development

PureTech Systems announces the addition of Christopher Sincock as Vice President, Channel Development. Chris brings over 30 years of broad ranging experience in the electronic security industry serving in roles ranging from Product Manager to President. Chris held executive leadership positions with Lenel Systems International where he created the Lenel OpenAccess Alliance Program, and with HID Global, Zenitel USA, Inc., and DAQ Electronics. Most recently, Chris served as a Physical Security & IoT Subject Matter Expert for Everbridge (formerly CNL), responsible for PSIM sales in North America. In his new role, Chris will be responsible for building PureTech System's channel program, encompassing select security system Value Added Resellers, OEMs, and cultivating relationships and building awareness within the Consulting & Specifying community. **www.puretechsystems.com**

Facial Recognition in US Airport Checkpoints

The TSA started operating facial recognition in US airport checkpoints, while the tech is already operative behind the scenes in hundreds of airports. Hundreds of airports around the world already use FRT to perform one-to-one verification, real-time watchlist alerting and touchless access control. Earlier the Transportation Security Administration reportedly rolled out a pilot program of its facial recognition identification to 16 domestic airports in the US. Oosto CMO Dean Nicolls explains: "One-to-One Verification is typically used at security checkpoints within airports around the globe. You step up to the travel document checker kiosk and stick your ID into a machine. Then you look into a camera for up to five seconds and the machine compares your live photo to the one it sees on your ID. They call this a 'one-to-one' verification system, comparing one face to one ID. Even though the software is judging if you're an impostor, there's still a human agent there to make the final call." **https://oosto.com**

Global Fire Equipment Invests €7.5 Million in New Manufacturing Facility

Global Fire Equipment (GFE) has announced the opening of its new manufacturing facility in the Algarve region of Portugal. The new facility represents an investment of €7.5 million by GSS Group, creating a new home for two of the group's companies – GFE and Createch Emergency Lighting. At 7,500 m², the facility is more than twice the size of GFE's previous plant, and the land purchased spans 16,000 m², so there is plenty of scope for further expansion should this be required as the company works towards its ambitious future growth targets. GFE has sustained impressive growth over the last 10 years, including double digit growth during the COVID-19 pandemic. Createch Emergency Lighting has also achieved strong growth and will need the increased manufacturing capacity to help deliver its international sales ambitions. GSS Group sees a significant market advantage of integrating both its fire safety and emergency lighting divisions under one roof, with space to expand in the coming years. **https://globalfire-equipment.com**

Milestone Appoints Rahul Yadav as the New CTO

Milestone Systems welcomes new Chief Technology Officer to the Executive Leadership Team. As Milestone moves from being a global leader in providing Video Management Software within security to a global leader in data-driven Video Technology both in and beyond security, Rahul will play an essential role as a member of the Executive Leadership Team. His primary focus will be on further strengthening Milestone Systems' position as a provider of market-leading Video Management Software. As part of this, driving innovation in data-driven software based on responsible technology principles will be essential. The Technology Group will continue to focus on delivering innovative, second-to-none business outcomes for customers and partners to maintain a strong market position. Rahul will be based at Milestone's headquarters in Brøndby, Denmark.   www.milestonesys.com

WearRAcon Europe Conference at A+A 2023

WearRAcon Europe will be held at A+A from 25–26 October 2023 for the first time. The conference will be organised by the Fraunhofer Institute IPA in cooperation with the Stuttgart University and the Wearable Robotics Association (WearRA). The 38th A+A Congress, which is held by Bundesarbeitsgemeinschaft für Sicherheit und Gesundheit bei der Arbeit (German Federal Association for Occupational Safety and Health - Basi) will be closely dovetailed thematically and in terms of content with it. The WearRAcon Europe Conference 2023 will provide new insights into the promising world of exoskeleton systems from different perspectives and, in conjunction with the A+A Congress, set future-oriented impulses. It thus offers the ideal framework for scientific and industry-focused discourse.
www.messe-duesseldorf.de

Maxxess Highlighted Integrations and Projects at Intersec

Maxxess showcased the extended ecosystem of integrations now available with its eFusion access control and integrated security management platform, as well as the latest, powerful functionality available with its eVisitor visitor management solution. Visitors to Digifort stand S1-F09 also learned more about the run of recent major integration projects taking advantage of the technology, including high-end hotels, landmark mixed-use developments, and major corporate and industrial sites. eFusion, now widely used in industrial settings, the hospitality sector, and mixed-use developments, is a feature-rich platform that allows seamless off-the-shelf integration with more than 60 leading technologies. These include video surveillance, fire and building management systems, as well as site specific

Side view of a security worker watching monitors in a control room

applications and hardware. Expanding customers' choice to a wider range of VMS and camera brands managed through the eFusion interface, new integrations will include Digifort's full suite of video management as well as the latest facial recognition technology.
www.maxxess-systems.com

Secutech Vietnam to Relocate to Hanoi

Secutech Vietnam is taking the opportunity to attract more fire safety and security industry players from the north of the country by moving to the Friendship Cultural Palace in the capital city, Hanoi for its 2023 edition. Benefiting from strong official links with local authorities, the upcoming fair will cooperate with the Vietnam Fire Department and the Ministry of Public Security to celebrate the 61st Anniversary of the Traditional Day of the People's Police Force during the three-day fair. Originally scheduled to take place in mid-August, the fair will now be held from 19 – 21 July 2023. "It's important for us to hold Secutech Vietnam in a place that will benefit participants the most, and the temporary move will definitely maximise the business opportunities for both exhibitors and buyers particularly after the pandemic disruption," explains Ms Regina Tsai, General Manager, Messe Frankfurt (HK) Ltd – Taiwan Branch. "We are honoured that Secutech Vietnam is considered the perfect platform for the Ministry of Public Security to celebrate its most important event of the year. Their full support of the show will not only draw high-level government officials, but also attract a large number of overseas and local fire safety and security industry players."
www.secutechvietnam.com

Hanwha Techwin Europe Partners with Nxgen

Hanwha Techwin has announced a strategic partnership with Nxgen Technology AG, a Swiss-based start-up that focuses on scalable alarm and event management. In particular, the partnership will benefit monitoring stations where real-time event management and alerts are critical. With the security landscape becoming ever more complex with multiple systems and devices required to work seamlessly together – including video, the Internet of Things, access control, perimeter detection, and more – the partnership between Hanwha and Nxgen aims to simplify this with the development of a single interface to connect all Hanwha Techwin video solutions with other systems using the NXG Genesis cloud-based event and alarm management platform. Hanwha and Nxgen are already working together on several installations across Europe for large well-known organisations that require a single management system for all their video devices. The integrated solution can scale across complex installations utilising multi-vendor devices.
www.hanwha-security.eu · www.nxgen.io

Barco and Creon Announce Strategic Partnership for Benelux and Nordics

Barco and Creon announce the signing of a strategic alliance contract. This will allow the two companies to jointly approach the control room markets with a complete offering consisting of visualization hardware and software solutions and the matching technical furniture. Creon has been in the control room furniture business since the late 1990s. The company has built a strong reputation for its high-quality products and focus on usability and ergonomics. Combined with Barco's control room solutions (including content management and distribution systems, operator workspace software and video wall solutions), the companies can offer an almost 360° control room solution to customers.

www.barco.com
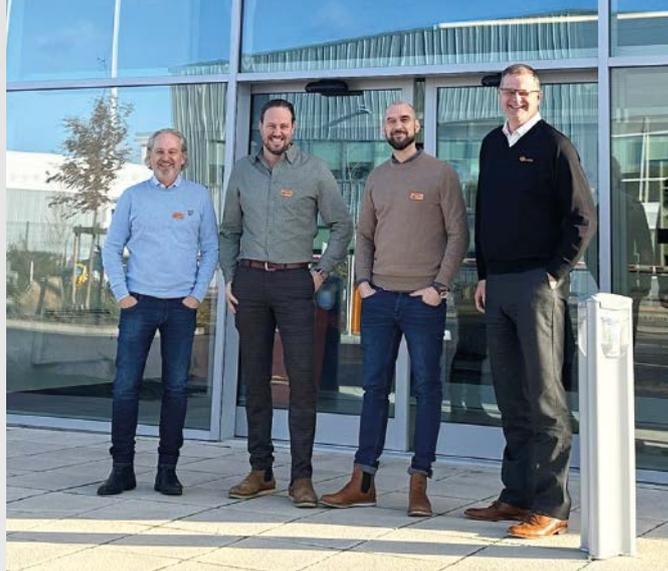
Ronald Boon New Head of Marketing at CES

CES is increasingly becoming a provider of customized solutions and a valuable advisor for complex access systems. Of course, this change also requires a different marketing orientation. This course will be driven by Ronald Boon, who has been the new Head of International Marketing at CES since January 1, 2023. "We will open many new doors in the coming years," says Bernd Becker, Managing Director of CES. "Further developments are planned, new innovations, complex large-scale projects and much more. In order to achieve our ambitious growth targets, we also need to take our marketing to the next level. We have confidently assigned this task to Ronald Boon." Ronald Boon has held management positions within the group since 2008, initially as Sales Manager and since 2014 as Managing Director of the Dutch subsidiary CESnederland B.V. in Apeldoorn.

www.ces.eu

Co-Branded App

Ajax has released a co-branded app, a solution helping security companies to increase brand awareness and customers to receive better service. A security company can now place its logo on the main screen of the Ajax security system mobile app. If the client taps on the logo, they quickly receive their account status and contact information. The solution is available only to authorized partners of Ajax Systems. Every fifth customer chooses an Ajax system because of the availability of a convenient mobile app: It gives full control over the system, even thousands of kilometers away from the home, office, or any protected facility. A user receives device status, instant notifications, event logs, and automation scenarios. System owners can watch streams from security cameras, use photo verification of alarms, geofence, and have an in-app panic button and many other features. The co-branded app has all the benefits of the Ajax app but with the service provider's logo.

www.ajax.systems

(from left) Håkan Björkman, Johan Reich, Daniel Groth and Richard Huison

Gallagher Security Announces New Swedish Team

Gallagher has announced the introduction of a new team that's poised to service the growing market in Sweden and the surrounding Nordic countries. As a global security leader, trusted to protect sites in 138 countries, and with over 13,000 customers worldwide, creating a team in Sweden was a logical choice for Gallagher due to the parallels between the UK and Sweden's business cultures and the country's adoption of cyber technology. Synergies across the vertical alignment of Gallagher's established business in the UK and the business opportunities for the company in Sweden also played a role in the decision, with key focuses on critical national infrastructure, military, and complex environments. The new team, led by Håkan Björkman and including Daniel Groth (Technical Account Manager) and Johan Reich (Business Development Manager), are experts in the Nordic market for access control, perimeter and intruder detection solutions, and are tasked with building lasting partnerships for Gallagher across Sweden and the Nordic region.

https://security.gallagher.com

Cambaum's SmartGate Wins iF Design Award 2022

iF Design Award recognized the elegant and timeless design of Cambaum's SmartGate in 2022. In the discipline 'Product', category 'Public/Retail', the access system manufacturer earned the iF Award for their state-of-the-art sensor barrier. The iF Award is globally recognized as a symbol of design excellence. In 2022, the design institute received close to 11,000 entries. Launched in 2021, the SmartGate can be used at airports, railway stations and industrial buildings worldwide, e.g. for self-boarding or staff access. With the intuitive user interface and an easy to clean surface the solution is prepared to meet the contemporary demands of operators and users. Compared to conventional materials, the stainless steel uses for the housing also reduces CO_2 emissions and is therefore the best choice for environmentally friendly equipment. Cam-

baum develops and produces physical access systems, such as sensor barriers, turnstiles and tripod barriers, for sensitive areas that require access control.

www.cambaum.com

TDSi Honors Exceptional Team Members With Staff Recognition Awards

Integrated security manufacturer TDSi has honored two members of its team at its annual staff recognition awards – Channel Partner Manager North, Gwen Curran, and Technical Support Manager, Jon Hooley. The awards recognize their respective contributions to TDSi, its partners, and customers over the last 12 months. John Davies, Managing Director of TDSi commented, "Gwen has driven highly impressive sales growth across the northern part of the UK and comfortably smashed all her KPIs, ensuring a great start to 2023 as a result. Jon has provided unwavering support for his colleagues right across the business and to our end users and resellers, greatly enhancing our reputation as a business. I am also very proud of the TDSi team as a whole. We celebrated our 40th anniversary in 2022 and it was an exceptional year of growth and rebuilding for our business and that of our partners following the considerable challenges of the previous two years."

www.tdsi.co.uk

Sesamsec Presented High-Performance Readers and PACaaS at Intersec

The access specialist presented high-performance products and new services to an international audience. These include both high-performance readers and forward-looking services. The wide range of readers that sesamsec offers are designed to cover different requirements and areas of application for the access control industry. With all the different specifications, Sesamsec applies the same high standards to the entire device portfolio: The readers are characterized by design diversity that allows them to be harmoniously integrated into any environment: For example, the sturdy, high-quality manufactured devices are available in different color variants as well as with or without a keypad, depending on requirements.

www.sesamsec.com

Recording and Synchronized Replay of Video Walls

In today's control rooms, operators have to deal with a constantly increasing number of live audio-visual information and data streams, so being able to capture and reproduce what they experience has become essential. SkySoft offers recording and synchronized replay of video walls and workplaces in control rooms. The system is now being seamlessly integrated into Barco's control room solutions and allows the output of single source workstations, the content of operator workplace screens, or the whole display area of large video walls to be recorded and replayed from Barco encoders. The recordings are immediately available for synchronized replay on the same screen(s), on a superuser position, a dedicated replay position or anywhere within the Barco system. www.barco.com

Facilities Management Whitepaper

A new expert-authored whitepaper from Assa Abloy Opening Solutions considers practical security strategies that facilities managers can put into action right away. Written by Simon Wilson, a 20-year veteran of the security industry, 'Modernizing Facilities Management' analyzes the relationship between health, safety, access control and security – both physical and cyber. He takes a step-by-step approach to the important questions – and potential answers – to tackling problems and threats which facilities managers face every day. Rather than treating these issues in isolation, Simon examines the links between the key problems that modern facilities management must tackle. "Effective facilities management is vital to any organization," says Simon, who works as CLIQ Business Development Manager at Assa Abloy Opening Solutions EMEIA. "It is about much more than compliance and regulation – facilities management can help deliver an organization's strategic objectives. It also ensures a safe working environment, which is key to the success of any business. Fundamentally, effective facilities management is about finding solutions," says Simon. "The right solution protects the health and safety of staff and visitors, and in the process gives a facilities manager peace of mind. In addition, by helping a business and its managers to work smarter, it can provide a critical competitive advantage." A free copy of 'Modernizing Facilities Management' can be downloaded here:

www.assaabloy.com

Ansell Introduces Plastic-Free Packaging to Industrial Gloves Range

Ansell is removing all plastic packaging from selected styles of industrial gloves as part of their pledge to minimize their environmental impact. Previously packaged using a plastic-coated U-shaped paper insert and polybag, 12-pair bundles of gloves will now be wrapped in a strong, lightweight and recyclable paper band instead. This removes on average 429 g of plastic and paper from standard shipper cases of 144 pairs of gloves, reducing the products' impact on the environment and saving 1.25 kg in equivalent carbon emissions per shipper case. Over the past year, Ansell's R&D, Quality and Product management teams have performed more than 80 tests in line with PPE standards on representative product types and material combinations to check the effect of removing the plastic packaging on the gloves' performance and shelf life. As a result, only products and material combinations where research confirms no negative impact are being changed to the new plastic-free packaging. www.ansell.com

EVENT

The Sun Shines on Intersec 2023

24th Edition Resounding Success With Visitors From 131 Countries

When the organizers drew the curtains on the 2023 show they were very happy with the outcome and thanked government supporters, sponsors, partners, exhibitors and visitors for their support for one of the most successful gatherings of the security industry in this region.

The show started January 17th with Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, Chairman of the Dubai Council for Border Crossing Points Security, opening Intersec 2023 at the Dubai World Trade Centre. He toured the exhibition, which spanned 10 halls at DWTC, accompanied by Helal Saeed Al Marri, Director General of Dubai's Department of Economy & Tourism. Sheikh Mansour visited the Dubai Police stand where he was briefed on the force's latest public safety solutions.

As part of the tour, Sheikh Mansoor was also briefed by executives from Saudi Arabia's National Security Services Company (SAFE) on the latest initiatives to elevate the standards and image of the Kingdom's security sector. He also visited the Dubai Civil Defence stand, as well as the German and UK pavilions and Naffco, the Dubai based leader in manufacturing firefighting products.

During opening day, delegates got to hear first-hand about some of the safety lessons of the recent Qatar World Cup 2022, in a lively session with Helmut Spahn, Director of Safety, Security and Access at FIFA.

Special features during the show included the Attack Zone, hosted by the Loss Prevention Certification Board, where exhibitors could test their products in live-action demonstrations. In the Start Smart Zone, start-ups connected with decision makers, buyers, and investors while the purpose-built Future Defenders Hack Arena was a hive of activity for futurist cybersecurity teams from schools, universities and CISOs competing for prizes and industry recognition.

Key highlights for day two of the Intersec Conference included a keynote session from Dr. Bushra Al Blooshi, Head of Research & Innovation at Dubai Electronic Security Center, titled 'Pioneering Digital Economy: Integrated & Innovative Smart Secured Services Ecosystem'; and a session on 'The Present and Future of Hybrid Cyber Warfare' with Sultan Al-Owais, Digital Lead at the Prime Minister's Office.

Intersec Awards 2023

The winners of the Intersec Awards 2023 were announced during a gala dinner event at the Ritz Carlton. Among the winners were Dubai Police, UAE based Atos and Protec Fire Detection from the UK, as well as individuals from Aman Security Training and Naffco.

The Awards, which recognise the people, products and companies for exceptional performance in the fire, safety and security industries across ten categories, attracted almost 1300 entries. The People categories reward those who challenge industry stand-

ards, are exceptionally skilled at inspiring transformation and bringing about substantial change, and who have achieved great success as industry experts in their particular field.

The award for Outstanding Commitment to the Industry went to Adil Abdel-Hadi of Aman Security Training, for proactively raising the professionalism of the security industry throughout the Middle East and Africa. One way in which he achieved this was by introducing City & Guilds accredited training courses for both the Security Industry Regulatory Agency (SIRA) and the Dubai Police Academy, which have benefited over 200,000 vocational students.

Other winners in the People category included Les Allan, Chairman of the Association of University Chief Security Officers, who was named International Leader of the Year; while Khalid Al Khatib, CEO of Naffco was selected as Regional Leader of the Year and Essa Ahmed Al-Mutawa of Dubai Civil Defence has been hailed as a rising star, receiving the Young Emirati Achiever Award. Al-Mutawa said, "I feel extremely honoured to receive the award. It will help me try to think positively and to give more to my work and company," and paid tribute to Intersec 2023.

Homeland Security Product of the Year went to D-Fend Solutions for its EnforceAir counter-drone technology, while Optex Redscan pro Lidar series from Optex Europe won Commercial and Perimeter Security Product of the Year. Secure Logiq was recognised for its efforts in offsetting the carbon of the electronic security manufacturing sector with the trophy for Security Sustainability Service of the year and the award for Cybersecurity Service of the Year went to Atos for the AI platform powered managed detection and response services – Alsaac.

Fire and Safety Sustainability Product of the Year recognised the Eco Land and Eco Sea products from Detectionloop; and Fire Product of the Year was presented to Protec Cirrus Hybrid Aspirating Fire and Smoke Detector from Protec Fire Detection. Data-analytics platform chnnl, designed to help organisations create meaningful wellbeing and psychological safety strategies won Safety Product of the Year, while a special award for Excellence in Community Service and Wellbeing was presented to Dubai Police for its Lost and Found service that takes advantage of artificial intelligence and digital technologies.

"Security, safety and fire protection play a vital role in the world, and the stars of the industries deserve to be celebrated," said Alex Nicholl, show director at Messe Frankfurt Middle East. He continued, "The calibre of entries for the Intersec Awards this year was incredible, demonstrating the commitment and innovation of people and companies to driving advancement across the board. It is an honour to reward and celebrate these achievements and I send my congratulations to all of our winners."

Our Take-Aways From Intersec 2023

For the GIT SECURITY team, Intersec 2023 was the perfect occasion to get an overview about what is going on in the industry, to talk to our partners and understand the trends in security and fire safety. We recognized that by the morning of the first day, the show was crowded and there were vivid discussions at the stands. The high level of attendance did not stop until the end of the show on Thursday afternoon.

We had the impression that there were fewer side events during the show time and in the evenings and that the exhibitor party, organised during previous Intersec shows, was missed by many. Nevertheless, the overall summary of the exhibitors was very positive. Intersec in Dubai is back on track to become a truly international show and steps up in the ranking of the most important shows in the EMEA region.

Impressive Growth in Saudi Arabia

During Intersec, Saudi Arabia's National Security Services Company showed the latest initiatives to elevate the standards and image of the Kingdom's security sector. The country is opening up and is looking for international cooperations. This goes in line with the impressive economic growth, which is fueling the growth of the whole Middle East region. The Kingdom witnessed the highest value of project awards in 2022, demonstrating its commitment to driving economic diversification and transforming the country in line with its Vision 2030. Many of the vendors present at Intersec spoke of a high visitor attendance from Saudi Arabia and a strong demand for their products and solutions there. Just one number to show the dynamic of the market: In the second half of 2022, 13,000 hotel keys were delivered in Riyadh, Jeddah, and Makkah, accentuating the continuation of the Kingdom's hospitality sector development.

Integration is King

In previous years, one could get the impression that the focus on integration was forced by the end user, so vendors had to be open and integrate third party components into their offerings. Our discussions with several vendors and the display of so many integrated solutions at the stands in Dubai show that the need for more and deeper system integration is now well accepted and more and more vendors take this message to heart.

Others recognize the limitations of their service and know that they cannot offer best of breed products in every single application and vertical business. These vendors open their products for integration with partners and develop interfaces and SDKs. Telling the customer that a solution can only be provided at the highest level when partners contribute to the solutions and that they are really needed, is not seen as a weakness anymore but as a sign that these vendors understood the message from the market.

Global Cooperations (or Not)

We noted above how important the integration of security products from different vendors into security systems is and how the trend towards integration is welcomed by the industry. During Intersec, behind the scenes there was a lively discussion on how the relationship of big market players, especially software companies, with Chinese manufacturers will influence the market and how this will affect the openness towards integration.

The discussion has become more heated since the US government, through the Federal Communications Commission, has banned the sale of equipment from Chinese telecommunications and video surveillance vendors in the US due to "unacceptable risks to national security".

The option to ban Chinese technology from projects and integration due to cyber risks was the elephant in the room at the Dubai show. Initiatives in this direction are understandable on the one hand, but on the other hand, there are so many electronic components and OEM devices from China built into today's network systems that it is legitimate to ask whether banning individual components or product groups would increase security. In the Middle East there are several government and public authority projects with strict due diligence measurements where equipment from Chinese manufacturers is implemented. Not only here, software manufacturers, like VMS and PSIM vendors, and integrators face the dilemma of either acting strictly, possibly losing projects and limiting integrations, or accepting risks.

Saving Energy Is Finally Being Taken Seriously

When one takes a look at initiatives for energy saving in countries that are so rich in energy like the VAE, the question is: Are these initiatives a kind of greenwashing and not the real deal? Talking to several industry experts, we were proven wrong in my assumption. All across the Middle East, the pressure on building and business operators grows to not only work on energy savings but to prove that they really have achieved them. This is quite impressive and it looks like engineers fight for every watt that can be saved. If an IP loudspeaker consumes 12 watts instead of 18 watts, this is not something that is found on page 20 of the product description, but was advertised on displays at the show.

Mobile Access, Mobile Access and Mobile Access

Talking to the access control manufactures at the show, one could get the impression that there is only one topic on their minds: mobile access, the trend to implement mobile phones as authentication devices in access control systems. There are so many secure systems on the market now, that the only factor that still slows down growth in this area is the acceptance by some end user groups.

The Cloud

Do we need to mention that cloud services are on the rise? Sure, this is a hot topic not only in the industry, but we were really surprised at how many different systems were displayed in Dubai and how user-friendly the services are. For end-users and the distribution chain it is good to hear that vendors and service providers who offer cloud solutions are not pushing you in one direction. Hybrid models, where you can work with on-site data storage at one location and with a cloud service at another, are nothing special anymore. Users can enjoy the freedom of choice.

Next Edition 2024

For those of you who missed the show and are considering visiting Intersec in 2024: The organizers have announced the date for the next issue. The silver jubilee of Intersec will take place from 16 – 18 January 2024 in Dubai.

CONTACT
https://intersec.ae.messefrankfurt.com
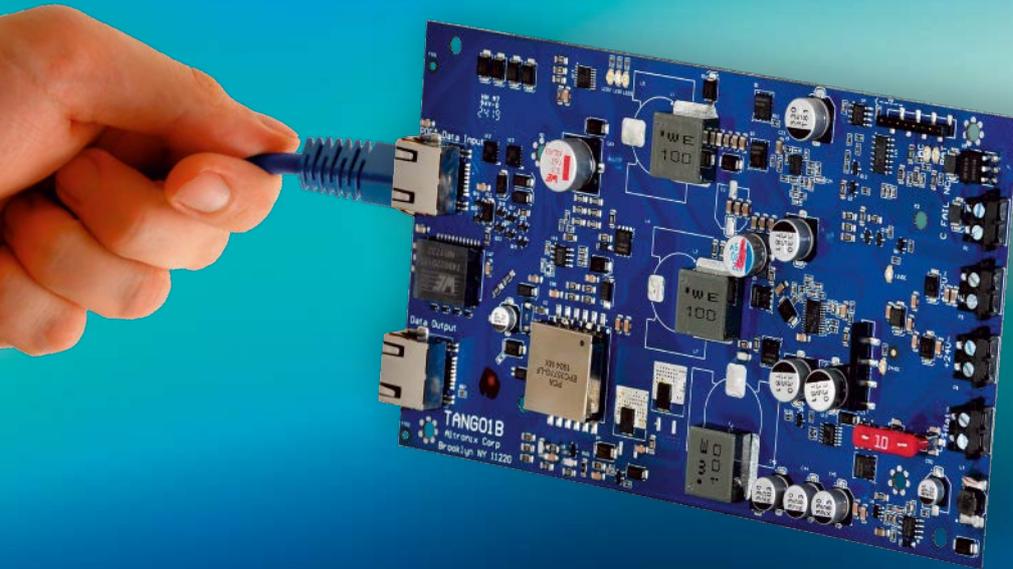
OBITUARY

Mourning for Dieter Dallmeier

Dieter Dallmeier, Company Founder and CEO of Dallmeier Electronic, Passed Away on 16 December 2022 After a Brief Illness.

Dieter Dallmeier, 1955 – 2022

Dieter Dallmeier, an important personality, died much too early, at the age of only 67. As a doer and pioneer in security, he not only rendered outstanding services to developments in the security market. The editors of Wiley and GIT SECURITY were also shocked by the news of this sad event. We had been in contact with Dieter Dallmeier since the 90s of the last century. He was always ready and willing to provide information about the solutions he and his team had come up with as well as insights into the company's activities, most recently also in a major Dieter Dallmeier interview about responsibility in matters of data protection, ethics and sustainability (GIT SECURITY 1/2022, page 54, see the QR code for the link).

According to information from his team, he was still present in the company every day and with full commitment until his death on 16 December 2022. Dieter's son Thomas Dallmeier had already been a partner in the management since 2015, and the subsequent succession of the company's management had thus been arranged for a long time. The next generation was, therefore, already in place, the future fate of the company in the best hands - the more, one would have wished that Dieter Dallmeier could have looked back on the further development of his life's work for much longer.

The news of Dieter Dallmeier's death deeply shocked all employees of his company, as can be read on the Dallmeier homepage, and filled the entire Dallmeier Group with great sadness. Dieter Dallmeier was regarded as an entrepreneur par excellence, even beyond his own company, also worldwide, as a technical and entrepreneurial visionary the likes of which the industry rarely experiences. His vision, his determination and his tireless commitment have contributed to the fact that the company he and his wife Christina founded together in 1984 has become what Dallmeier Electronic is today: a global player with regional roots and more than 400 employees worldwide supplying customers in over 60 countries with video technology from Germany.

For many years, as long-time companions confirm, he himself stood on the ladder as an installer of video systems and lent a hand. This down-to-earth attitude, which had always remained with him, has shaped many things in the company: from the products, which, as readers of GIT SECURITY have confirmed time and again, were developed with a great deal of love and understanding of detail for the market and for the users, to the way he treated his employees. According to the Dallmeier team, this interaction was always characterised by great personal appreciation for good work and for the people behind the tasks.

The company continues to write on the homepage: Due to a unique combination of entrepreneurial spirit, decisiveness and human kindness, Dieter Dallmeier had always enjoyed the highest esteem among the staff, but also among customers, partners and suppliers. Once again, the publishing house Wiley and the magazine GIT SECURITY can only fully concur. With the death of Dieter Dallmeier, the security industry and the business world lose a great entrepreneur, doer, and inventor who, with his ideas and commitment, has significantly shaped not just the video security industry over four decades.

Wiley and GIT SECURITY would like to take this opportunity to express their sincere condolences to the Dallmeier family, friends and the entire team.

The last, in-depth interview with Dieter Dallmeier in GIT SECURITY 1/2022, page 54

Dallmeier electronic GmbH & Co. KG
Regensburg, Germany
Tel.: +49 941 8700 0
info@dallmeier.com · www.dallmeier.com

Global Video Solution Services

Konica Minolta has defined 'ensuring social security' as one of its business areas. Through its business operations, the company aims to help solve challenges such as the growing risk of disasters due to climate change or the diminishing workforce due to aging societies. AI-assisted, real-time, on-site detection and assessment using Konica Minolta's Forxai IoT imaging platform offers robust, high-performance, decentralized video technology and the highest cybersecurity-oriented Mobotix video technology. Konica Minolta's global sales companies provide video solution services based on Mobotix products and services to digitize customers' workflows. Konica Minolta opened a showroom in Prague in June 2022 and introduced new services related to the Forxai Video Analytic Solution and Visual Quality Inspection. Vaxtor, which Mobotix acquired in May 2022, offers solutions for automated license plate recognition (ALPR) and optical character recognition (OCR). Their OCR technology can be used, for example, to manage, monitor, and control trucks and containers at ports. It scans and recognizes license plates from more than 150 countries and can guide drivers on-site and check access authorizations. In addition, by collaborating with Mobotix, Konica Minolta aims to expand into new business areas by providing its customers with transportation and logistics infrastructure using AI technology to scan license plates and containers. Mobotix CEO Thomas Lausten is proud of the increased Konica Minolta investment: "We are confident that our products and solution services can solve many more social challenges. I expect we will work with Konica Minolta to develop new video solution services."

www.mobotix.com

Mul-T-Lock Provides OnPoint Electrics' Van Security

OnPoint Electrics has fitted Mul-T-Lock's innovative vehicle security solution, MVP2000, to its company van following a break in that resulted in a significant loss of tools. Says Jon Dawson of On Point Electrics: "The crime was committed in less than 20 seconds, with my van in full view of obvious CCTV systems, in broad daylight, in front of a busy leisure centre. None of these elements seemed to act as a deterrent. The loss of tools for me and my apprentice was significant and meant a huge amount of time and resource had to be invested in insurance claims, with the potential loss of work. We had to rely on friends and work colleagues to ensure we could continue to meet customer requirements, whilst we replaced all the tools that were stolen."

www.mul-t-lock.com/uk

CORPORATE SECURITY

Perfect Hat-Trick

Start-Up With a Long Tradition: Security Management at Daimler Truck

The company is young and old at the same time: it emerged from the Daimler corporation about a year ago – and was immediately listed on the DAX. Daimler Truck today employees around 100,000 people at more than 40 locations worldwide. The security management has the spirit of a start-up. GIT SECURITY spoke with Andreas Osternig, Global Head of Corporate Security and Chief Security Officer Daimler Truck.

Andreas Osternig,
Global Head of Corporate Security and
Chief Security Officer Daimler Truck

GIT SECURITY: Mr. Osternig, first of all, for those who put the business section of the newspaper to one side unread: in spite of its traditional-sounding name – and the fact that it is DAX-listed – Daimler Truck is a very young company, isn't it?

Andreas Osternig: Quite true: sometimes I consider us to be a 'DAX-listed start-up', whereby this is only partly true and refers mainly to our independence as a commercial entity. Many of our locations have a very long and successful history behind them and were also largely responsible for the success of Daimler AG in the past.

The company has many locations – each with its own security officer. Tell us about this organizational structure.

Andreas Osternig: The list of tasks for corporate security is long and broad, so we have organized them into a matrix that is aligned with the Daimler Truck management divisions to best be able to react to the various requirements they each bring. Corporate security also shares responsibility with other central operational divisions on various matters, company data protection, for example.

Mr. Osternig, you are responsible for the corporate security of Daimler Truck worldwide. Can you tell us a little about your background?

Andreas Osternig: I got involved with the subject of security over twenty years ago through my business administration background on the subject of fire protection and site security in the chemicals industry. In 2004, I moved to the automotive sector and from there I was able to take on various positions in a number of automotive companies

The portfolio of Daimler Truck includes more than 40 trucks with 15 different bodies – for long-distance, distribution and construction site transport

Casino 2.0: Easy Security Operations for Casinos

Dallmeier is launching a comprehensive awareness campaign to show how modern video technology can help casinos. The patented Panomera W8 Multifocal Sensor System is particularly developed for the extensive video surveillance of large-scale areas such as casinos. "Making casino operations easier": According to this motto, Dallmeier is launching a comprehensive awareness campaign to show how modern video technology not only ensures greater user-friendliness, but also higher objective security, greater efficiency and, at the same time, cost savings in casinos.   **www.dallmeier.com**

– locally, nationally, internationally and now worldwide.

Could you tell us broadly what your tasks are and what you are primarily occupied with?

Andreas Osternig: Our main activity during 2022 was to structure the first year of Daimler Truck as an independent company together with my team. This means that we had first of all developed and then implemented all the security regulations and processes of Daimler Truck AG. We were able to start with our joint history of the Mercedes-Benz Group on some matters, but for others it was and is necessary to adapt the security aspects to the needs of our company.

The job brought with it the very pleasant task of building part of the new corporate security team. On the one hand, we have a very experienced team at our manufacturing locations, another important part of our team moved from Daimler to our company and these two groups were

Electric: the Mercedes-Benz eCitaro

Access and Surveillance Power and Data Transmission Solutions

Altronix featured their latest power and data transmission solutions for security, access, surveillance and fire applications at Intersec 2023. New technology enables the deployment of multiple edge devices at greater distances with more power to accommodate a wide range of surveillance and security products utilizing the 802.3bt PoE standard. The firm's portfolio includes ofNetWay and NetWay Spectrum PoE and fiber solutions that accommodate 802.3bt cameras, illuminators, access products, LED lighting and more. Providing up to 90 W per port, new midspans and hardened PoE switches accommodate fiber, hybrid, and structured cable for a wide range of indoor and outdoor applications. Altronix Pace1KRT Single Pair Long Range Ethernet Adapters transmit power and data up to 1000 m over a single pair. The NetWay PoE adapters enable deployment of up to two devices over a single cable. Net-Way3012PConverter/Adapter provides PoE+ (30 W) and 12 V DC simultaneously.   **www.altronix.com**

enhanced by specialists and managers who we recruited externally. This has resulted in a very good mix of significant security experience, curiosity, and an international mindset coupled with great flexibility and enthusiasm. And we notice that every day.

From an organizational point of view, we were of course also confronted with the implementation of Covid protection measures, as well as the effects of the war in Ukraine, and faced with major challenges right at the beginning of our 'company history' in terms of crisis management.

Mr. Osternig, you mentioned during our first contact that there is a real 'start-up' spirit at Daimler Truck. In what way is this noticeable – in the organization as a whole and specifically in the corporate security team?

Andreas Osternig: It can be seen throughout the whole company: starting with

work under stress, flexibility and a culture of openness towards errors throughout the whole team.

The structural separation from Daimler was a major change. How did your team come together?

Andreas Osternig: Some of our staff decided to move from the Mercedes-Benz Group (previously Daimler) to Daimler Truck. They had very different reasons for doing so: some wanted a change and to be able to make their mark – or they had the desire to develop security in a previously unknown environment. Others wanted to put their practical and management experience to good use in a new company. This mix has created an optimistic mood, a start-up spirit. We have the responsibility, and in particular the management team, to develop and maintain this positive atmosphere in the long term.

processes that you have put in place?

Andreas Osternig: The first step was to take a good look at the aspects and needs of our company with respect to crisis and emergency management before we moved to a concept stage. We were able to benefit from the experience obtained from pandemic management that provided us with real-life scenarios, and this enlightened the scale of emergency and crisis management for us. Building on that, we have implemented a tailor-made emergency and crisis management organization throughout the company and correspondingly trained up the responsible staff. The model is supported by standards and technical tools and checked by regular training sessions and audits.

The corporate security of a DAX concern naturally also includes the safety and security of the AGM, for example. Can you manage this with your own resources or do you work with external service providers?

Andreas Osternig: The shareholders' meeting is certainly the most important for a DAX company for a number of reasons. Corporate security is responsible for security at the AGM. This mammoth task is impossible to manage alone, so there is an organizational team at Daimler Truck that ensures the success of the AGM 2023 through a lot of early planning and attention to detail. Of course, discussing the matter of security with appropriate members of our security network from various sources is a core element of this.

Most famous multi-talent: the Unimog – shown here as model U219 with a combination of summer and winter equipment

Mr. Osternig, you evidently do your job with a great deal of enthusiasm – and probably because at Daimler Truck it is all new and you can do everything differently?

Andreas Osternig: Yes, you could say so. Footballers would call it a perfect hat-trick: it is a great feeling to be able to do this great job in a great company together with a great team, and I'm very grateful for that.

the members of the management team who demand and promote an extremely pragmatic method of working; by the flat hierarchy and direct access to senior management; through the extremely simple and rapid processes; and, above all, the decision-making. And that is also reflected here in the corporate security group: our employees work with autonomy and are able to make their own decisions within their area of responsibility. We often have to get an overview of events in our job, consider the situation and make quick decisions but remain flexible enough to adapt as necessary. This requires the ability to

How have information security and cyber security been reorganized?

Andreas Osternig: We handle these two subjects together with nearby central departments and they are currently being reworked for Daimler Truck. This concerns both the discussion of content as well as the organizational structure and responsibilities. We are establishing the ideal working methods for our company here, too.

A fundamental security job is crisis and emergency management. Could you describe the tools and

PERIMETER PROTECTION

Recall Plus Extension

GSTVA Will Be Back in 2023

In the September issue of GIT SECURITY we published the results of the first „GIT System Test Video Analytics" (GSTVA) that was done in April 2022. Eleven powerful, currently available systems were subjected to intensive test scenarios we developed together with the expert office of Markus Piendl and the system house i-Alarmsysteme. In 2023 we will add another GSTVA and extend the range of tested systems beyond video analytics with the GIT System Test Perimeter Protection GSTPP.

We will extend the scope of the testing beyond video analytics and will test radar, PIR and LiDAR systems, too

The April 2022 Test

For the first GSTVA the intrusion tests were divided into different scenarios and scenario groups. Variations were made between different types of movement, i. e. approaches were made at different speeds, angles and rhythms. Different types of clothing and camouflage were used in further variations, which were evaluated separately, and both day and night tests were conducted. Some test scenarios involved destabilizing the video analysis systems through the use of pyrotechnics, for example. The results of the intense testing are available via the QR code at the end of this article.

After the Test Is Before the Test

One of the results from the first test series was that while the resolution, image quality and low-light display of all the tested systems are now consistently at a very high level, there is definitely 'room for improvement' in video analytics. As expected, the performance of some systems could be improved for complex camouflage and movement types. With better system tuning to local conditions and refined algorithms tuned to more challenging scenarios, performance can be improved. To give other vendors the chance to participate in the test and to include new or improved systems, we will launch the second GIT System Test Video Analytics in summer 2023 with the same scenarios we used in the first test. In addition, further tests in other product groups (GIT System Test Perimeter Protection) will provide a good basis for security decision makers.

Extended Range of Tested Systems: Radar, PIR, LiDAR

To deliver more valuable information beyond video analytics about perimeter protection best practices, we will extend the scope of the testing and will test radar, PIR and LiDAR systems in addition to video systems in a new test series, GIT System Test Perimeter Protection GSTPP.

We are already in close contact with different vendors about the tests this coming summer. In case you are a representative of a vendor producing systems for perimeter protection and you want to join the tests this year, please let us know via GIT-GS@ wiley.com.

Link to the results of GIT System Test Video Analytics
https://www.git-security.com/ news/git-system-test-video- analytics-test-results

SPECIAL FOCUS INTRUSION PREVENTION

Stop Here

The Equipment and Strategies to Thwart Intruders

The Christmas and New Year holidays are over and almost everybody is back to work, the thieves included. A group of them attempted to ram-raid a German jewelers shop late on the night of January 4 with their sights set on the numerous display cases full of valuable gems. This time however, their enthusiasm was brought to an embarrassing and abrupt end as the vehicle got trapped in a protective shutter. In fact, the vehicle was so wedged in that the doors wouldn't open and the would-be thieves had to climb out through the tailgate. Jeweler 1: Thieves 0.

While these guys used a car to help them, this article will concentrate on less violent methods of gaining illegal access, and how we can prevent that.

Walled Garden
Of all the high-risk places to live in the world, security companies in South Africa in particular have had to come up with ever more effective boundary breach prevention measures. Their solutions could be considered particularly 'nasty', if not illegal, in some countries. Whatever, they are effective. The spiky method of deterring wall jumpers is excellently demonstrated by Spike-It, who have a range of decorative as well as forbidding products. Among other security products, the Canadian company Senstar offers stun fencing or non-lethal electrified fencing and detection systems. It is essential, though, to check the legality of such measures in your location, as well as your insurance policy, before installing such a device.

Assuming the boundary has been breached, the 'holes in the wall', i.e. the doors and windows of the property, are the places to protect by using mechanical and electronic means that either deter an attempt in the first place, or make it so difficult to get in that intruders resign to defeat and go away. The intention here is to make entry either unattractive, obviously time-consuming or downright impossible.

Window to the World
Different construction specifications and standards around the world don't make the work of the intruder defense equipment manufacturers easy. They have to devise products that can be fitted to wooden, metal or plastic window frames of all shapes and sizes, and many just concentrate on geographic regions to limit the number of variants that they have to produce. Abus is an exception and supplies a wide range of hardware worldwide that fits the regional construction norms and complies with local standards and regulations.

The windows on the ground (US: first) floor are considered most vulnerable and often fitted with additional security measures. One floor up, however, and you will often find no measures at all, making these windows an easy target for agile 'parcour' intruders. Anti-climb paint, such as that supplied by Rawlins Paints, applied to gutter downpipes and poles can thwart their

SPECIAL FOCUS

efforts, although there must be warning signs that this petroleum-based oily substance is in use.

External steel bars fixed into the masonry make it absolutely impossible to climb through a window, but they can only be fitted if they enhance rather than spoil the building's appearance, the walls are substantial enough and, importantly, if there is an alternative fire escape route. Cardea Solutions supply removeable internal security measures that solve the problem of emergency exit capability. Attractive external window gates and grates in various finishes are manufactured in Italy and also exported by Windowo.

So then we rely on the window (frame) itself for the next line of defense. In Europe, this is categorized by a resistance class value given as RC1, RC2 (N), RC3 etc. The Italian manufacturer Ponzio delivers its impressive, high-resistance windows in many different countries to both private and commercial customers, with an architect support team for larger projects. The Concept System 77 from Reynaers can also be supplied to meet various different resistance classes while maintaining good insulation and acoustic isolation properties.

The Door to Success

Statistically, very few break-ins occur through the front door of a property, so although this must resist quick attacks during darkness or periods of absence, it is probably not the most vulnerable door in the building. These are the side entrances and doors at the rear, in particular when they are located in alleys or locations that are not otherwise in general view – intruders hate an audience. So strategies to protect them include bright lighting, obvious camera surveillance, as well as mechanical protection, such as a sturdy shutter and excellent locks.

Bright lighting that reacts to movement can be obtained from the local DIY shop, but illuminators from Raytec, for example, provide visible or infra-red

light for surveillance cameras, or both together in a hybrid housing. They can also be remotely controlled and integrated into many leading video management systems. You may also like to see what Wiseled have on offer. Apart from white and infra-red long-range units, they also provide 'dazzlers' that make further progress for intruders almost impossible. Their Starling product, for example, combines an illuminator with a PTZ camera from Axis in one housing.

The choice of security surveillance cameras on the market these days is bewildering. Domestic users can quite cheaply

◀ Anti-climb paint, for example from Rawlins Paints, can thwart their efforts when applied to gutter downpipes and poles

Heroal can deliver security roller shutters that deter and prevent access ▶

fit a WLAN-capable model – some even with nighttime infra-red support – and connect it through their router to home PCs, tablets or mobile phones. For more durable and higher performance cameras, you might choose from the outdoor camera range of Mobotix, who seem to have thought of every conceivable installation scenario. The main aspect is that potential intruders realize that they are being watched. IDIS provide complete video surveillance systems: cameras, recorders, and analysis software to do the job.

Shut Up

Shutters – either inside or outside – are also very effective, as successfully demonstrated to our jewelry thieves. The long-established manufacturer Heroal can deliver security roller shutters that not only deter and prevent access but also look attractive, too. They work together with private customers,

Senstar offers stun fencing or non-lethal electrified fencing and detection systems

architects and installers to find the ideal product from their palette. The Murax range from La Toulousaine meets various European security certifications and will certainly make potential intruders think twice before attempting a break-in.

Of course, a simple sign that says some security measures have been installed here can make opportunistic intruders pause before considering breaking in. Captain Safety in the UK have a wide range of suitable signs in English – there are comparable companies in other countries producing similar signs in the local language. And when the range of potential solutions mentioned above doesn't appear to cover your particular situation, then you should at least put up a secure fence, then pay a visit to the local animal rescue center and take on the services of Gnasher, the Rottweiler guard dog.

M73 High Performance IoT Cameras from Mobotix

Suppliers

Abus | www.abus.com/eng/
Axis Communications | www.axis.com
Captain Safety | captainsafety.co.uk
Cardea Solutions | cardea-solutions.com
Heroal Shutters | www.heroal.de/en/
IDIS Video | www.idisglobal.com
La Toulousaine | www.la-toulousaine.com
Mobotix | www.mobotix.com
Ponzio Windows | www.ponzioaluminium.com
Rawlins Paints | www.rawlinspaints.com
Raytec Illuminators | www.raytecled.com
Reynaers Windows | www.reynaers.com
Senstar | senstar.com
Spike-It | www.spike-it.co.za
Windowo | www.windowo.com
Wiseled | www.wiseled.com
Animal Rescue Center | www.internationalanimalrescue.org

INTERVIEW

At the Forefront of Intrusion Detection

Optex Optimises Solutions Together With Industry Partners

Optex systems have been successfully deployed across the EMEA region for over 40 years for a number of applications ranging from perimeter security to indoor intrusion detection and roof and asset protection. GIT SECURITY had the opportunity to talk to Masaya Kida, Managing Director of Optex EMEA at this year's Intersec Dubai. We discussed market trends, the challenges of outdoor intrusion detection, visual verification and Optex's approach to working with partners.

GIT SECURITY: Here at Intersec in Dubai, you share the stand together with integration partners. How important is the deep integration with other partners on the VMS side and with other technology partners?

Masaya Kida: At Optex our mission is to protect and help to create safety, security, and comfort in societies around the world through the use of our sensing technology. Our partners help to fulfil this mission. We have seen a strong demand from the market in solutions for critical infrastructure, transportation, utilities and energy, and we are significantly investing to develop such solutions together with our technology partners. Our sensors are at the cornerstone of the security system, they do a great job at accurately detecting intrusions, enabling a more efficient and reliable system, but in order to provide a complete solution they need to be part of a wider system, which is why all of our detectors integrate with all major VMS and PSIM systems. They need solutions to keep up their operations and we help them to stop or minimize disruption.

What are the biggest challenges when you want to protect infrastructure with outdoor security systems?

Masaya Kida: The main challenge in outdoor security systems are nuisance alarms, which is why using sensing technology is paramount to designing a robust and stable security system. Sensing technologies have been designed specifically to 'detect intrusions' and will perform reliably, not affected by different light conditions or weather. I think you have tested a lot of video analytics systems in your GIT System Test Video Analytics and have identified some of the most common causes of nuisance alarms for those technologies. We will take part this summer in your testing, when you extend the range of tested systems beyond video analytics in GIT System Test Perimeter Protection. When you test other perimeter protection systems like our LiDAR Redscan Pro technology, you will probably see less nuisance alarms compared to video analytics systems. The biggest challenge that LiDAR and other sensing technologies help to achieve besides creating reliable and accurate detection, is avoiding false alarms. Especially for critical infrastructure this is crucial. Too many false alarms interrupt operations, make security teams lose confidence in the system, are time-consuming and costly. This is a real problem for operators but also for installers and system integrators because the end-user complaints to them.

What are your thoughts on the importance of visual verification?

Masaya Kida: It is a critical component in a security system and we can expect to see more of it in future developments by Optex. In order to meet the challenge of verifying alarms, we offer our own cloud-based monitoring software, CHeKT, a leading visual verification solution that can enhance the effectiveness of the security

system by connecting outdoor and indoor sensors, ONVIF compliant cameras, and other third-party devices to provide an all-encompassing visual verification event-driven solution while minimizing false alarms. The Optex Visual Verification solution offers an elevated level of security, giving users the ability to see what is happening within their protected areas in real time. This allows the user and the alarm receiving centre to immediately receive valuable information with which to make decisions at the most critical moment. As soon as the alarm goes off, regardless of the time of day, a user can instantly be 100 % sure of what is going on within the protection zone with optimized video directly on the visual verification app. At any time, we can tell our customer if it is a true alarm or if it is a cat or small animal or bag flying through the air, and we can prove it. Visual verification is not only great for business operations, it also helps to build the operators trust into the systems.

Here at Intersec you display the FlipX series of sensors for indoor residential to high-end commercial security applications. For what applications are they designed and what advantages do they offer?

Masaya Kida: We are continuing to develop our indoor sensor range as we are seeing a huge demand for this. The FlipX series is our newest generation of customized detection for indoor applications. The new FlipX PIR and dual-tech series is equipped with an innovative pyroelectric element and 180° rotatable lens, a feature unique to Optex. This characteristic allows the FlipX to tailor its detection pattern to cover everything from large open indoor areas to narrow and long passageways or windows. Users have the choice for either wide or narrow detection zones by simply rotating the FlipX lens 180°. This 'flipped' lens has been designed with flexibility in mind and effectively gives installers 'two sensors in one' to satisfy multiple customer demands. It helps installers manage both their inventory and their cashflow, while giving them the versatility and confidence of arriving on site with the solution they need to match their customer's needs. The Standard models are EN Grade 2, which come with pet immunity features to minimize false alarms and are a great choice for residential and light commercial applications, while the Advanced models are EN Grade 3 and feature IR anti-masking and advanced sensitivity settings to adhere to the customer's specific application needs for high-value commercial and high-security sites.

At Intersec 2023 in Dubai:
Heiko Baumgartner (left),
GIT SECURITY, and Masaya Kida (right),
Managing Director of Optex EMEA

CONTACT

Optex EMEA Security Headquarters
Maidenhead, UK
Tel.: +44 1628631000
marketing@optex-europe.com
www.optex-europe.com

Touchless Biometric Technology

Iris ID Systems, a provider of iris recognition technology for 25 years, and Diyar United, a prominent information and communication technology company for the Middle East, have partnered to demonstrate the eService Kiosk integrated with Iris ID's new frictionless IrisBar solution. Diyar United has the in-house capability to design, manufacture and integrate IrisBar in kiosk solutions and is the first in the Middle East to do so. The kiosk is used in eGovernment services to provide registration and verification at airports for immigration and passenger check-in, as a gate pass within the oil and gas industry, in the FinTech industry as well as for national ID programs. The IrisBar is a complete multi-biometric OEM module that is standards compliant and streamlines the verification process. It is designed to be platform agnostic and includes a REST API for easy integration.   **www.irisid.com**

Power Over Ethernet Injectors

Hanwha Techwin Europe now supports AMG Systems' Power over Ethernet (PoE) injectors. PoE injectors offer several benefits for security teams looking to improve energy efficiency and reduce downtime. They eliminate the need for AC/DC power supplies and outlets, with power and data delivered over a standard Ethernet cable. There are also fewer points of failure, something that is critical for CCTV installations. A joint initiative has been established whereby AMG Systems is now developing products specifically for Hanwha Techwin to meet the requirements of several large customers across Europe. The PoE injectors are industrial grade and can withstand extreme conditions from -40 °C to +75 °C. They support 100 Mb and 1 Gb Ethernet speeds, and provide 15 W, 30 W or 60/90 W of PoE from either one or two ports.

www.hanwha-security.eu

Hybrid working – efficient use of multiple rooms and spaces – reducing energy consumption: These are just three among many challenges facing businesses of every type and scale. In an environment where change is a constant, security which is agile and futureproof helps to address them. A modern access control solution should offer a wide range of digital locks and credentials, allowing a business to manage their workspaces and workflows with maximum efficiency. Assa Abloy's Incedo access control solution was designed for this purpose, with the option to upgrade to the cloud.

Cover Story

Grab your mobile phone, apply your Incedo Mobile Key, and then pedal off on your Kolovna bike

COVER STORY

Outlook?
Cloudy but Bright

A Variety of Hardware to Secure Every Door

The challenges mentioned above are greater still for a small or medium-sized organization. When being ready to expand or pivot the use of space at any time is an advantage, flexibility becomes the key. And when a huge, diverse range of door hardware is available from one manufacturer, commissioning or extending control becomes more streamlined and cost-efficient.

Flexible control for security, agility and efficiency

When they choose Incedo, organizations secure almost any building access with autonomous electronic locks, or in real time with online devices. They issue users with credentials of their choice. And they manage everything from one place, via the flexible, scalable, and intuitive Incedo platform.

It is easy to get started with Incedo: Businesses can choose from a vast range of hardware. Doors, cabinets, gates, server racks and almost any other opening may be locked with a wireless or wired device. Building users gain access via smartcards, mobile keys stored on their smartphone, or battery-free smart keys. The range of credentials can be used across a vast choice of hardware elements. Incedo software manages this hardware and the security of users – in the cloud, if required. Hardware and software installations are easy, with no complex integrations required. The entire ecosystem is modular, designed for simple adoption and easy expansion at any time and in any direction. Incedo leaves business owners with more time to focus on their main task: the business.

Door Hardware to Suit Any Application

The heart of an Incedo system is the controller and its door reader modules. These combine to put a facility manager in total control – of a few doors or hundreds. Any Incedo system can include both wired and wireless locks, all natively integrated and covering almost any application. A vast choice of door and other hardware, to secure any type of opening, is available from a single manufacturer – Incedo controls everything. Wireless locking

A Multi-Use Manufacturing Site Application Scenario

Securing the King Engine Bearings facility posed all the challenges of a mixed-use site. Their location in Kiryat-Gat is used for manufacturing, sales and distribution. To control access to offices, the warehouse and a packaging facility, they needed an integrated solution with a comprehensive device range suited to different rooms and zones at the facility.

As a company whose reputation is founded on engineering, King Engine Bearings understands the importance of manufacturing. Assa Abloy Opening Solutions' Incedo access control ecosystem met their desire for a solution designed and built to "European standards and quality," according to Koby Ben Hamu at King Engine Bearings. External and internal doors between various areas of the facility are secured and monitored with iClass R10SE readers. Incedo M50 controllers and DM5 door modules connect the hardware to Incedo software, with all devices working seamlessly within the same ecosystem. Incedo has a robust, field-tested solution for almost any opening. "Incedo gave us a perfect and fast solution for access control," added Ben Hamu.

Cloud Access Management Enables a New Business Model

In the Czech Republic, Incedo Cloud's remote management and scalability have helped Kolovna Bike Rental to reimagine their business on a national scale. Kolovna aims to make cycling more widespread by offering customers top-quality products, services and technical support, and by streamlining trip logistics. The company's solution is to open a secured bicycle container at popular cycling locations all over the country. Access to each container is filtered by electronic locks, so customers can safely park their own bike or rent one from the container.

The containers combine security with easy customer access, including the ability to unlock them via mobile keys on a smartphone. Kolovna needed an access control platform to achieve this that could multitask without additional technology, more software or extra staff. They chose Incedo, installing readers, a controller, and a door module in every container. Incedo connects all Kolovna's security software and hardware within one seamless system while cloud management keeps their staff in control of their premises from anywhere – they can work in an office, at home or on the road.

Access Hardware for Diverse Flexible Workspaces

Clockwise is a provider of shared offices and meeting rooms in multiple cities. How flexibly Clockwise deliver their service for clients is essential to thriving in such a competitive market, which makes door security and access control all the more important. Clockwise needs a broad choice of electronic devices to secure meeting rooms, private offices, communal spaces, and main entrances, which may not all require the same lock type. Because tenants come and go frequently, the company's facility managers need the tailoring of user access rights to be as easy as possible.

The range of Incedo-enabled devices and door hardware – managed by simple software – convinced Clockwise to choose Incedo for all their premises. Incedo now connects security software and hardware within a single, seamless ecosystem, and the diversity of devices offers Clockwise the ideal lock for every opening. Internal private office doors, 'zoom rooms' and meeting rooms – as well as communal area doors and entrance/exits – are secured with devices from the Incedo range.
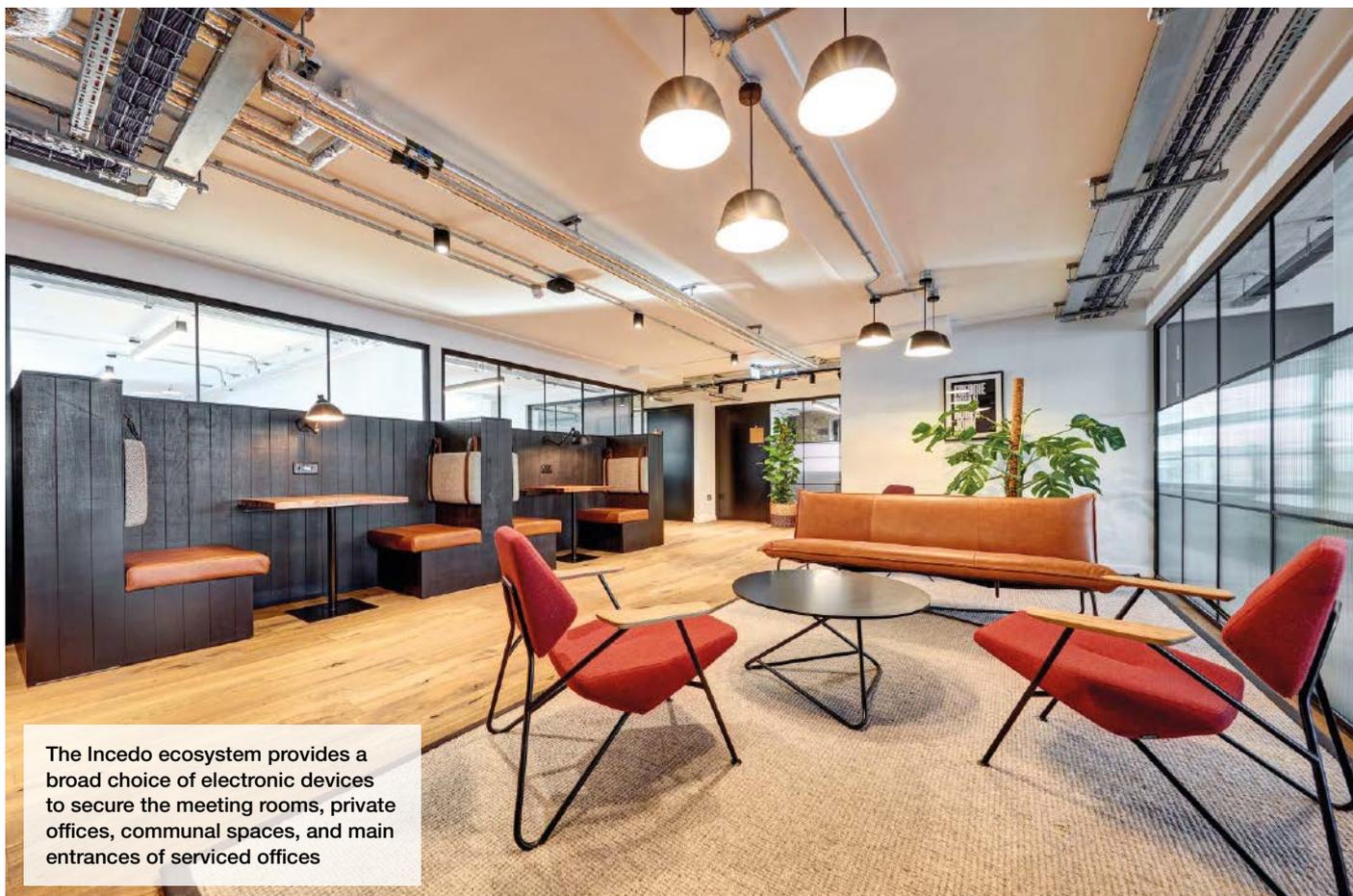
The Incedo ecosystem provides a broad choice of electronic devices to secure the meeting rooms, private offices, communal spaces, and main entrances of serviced offices
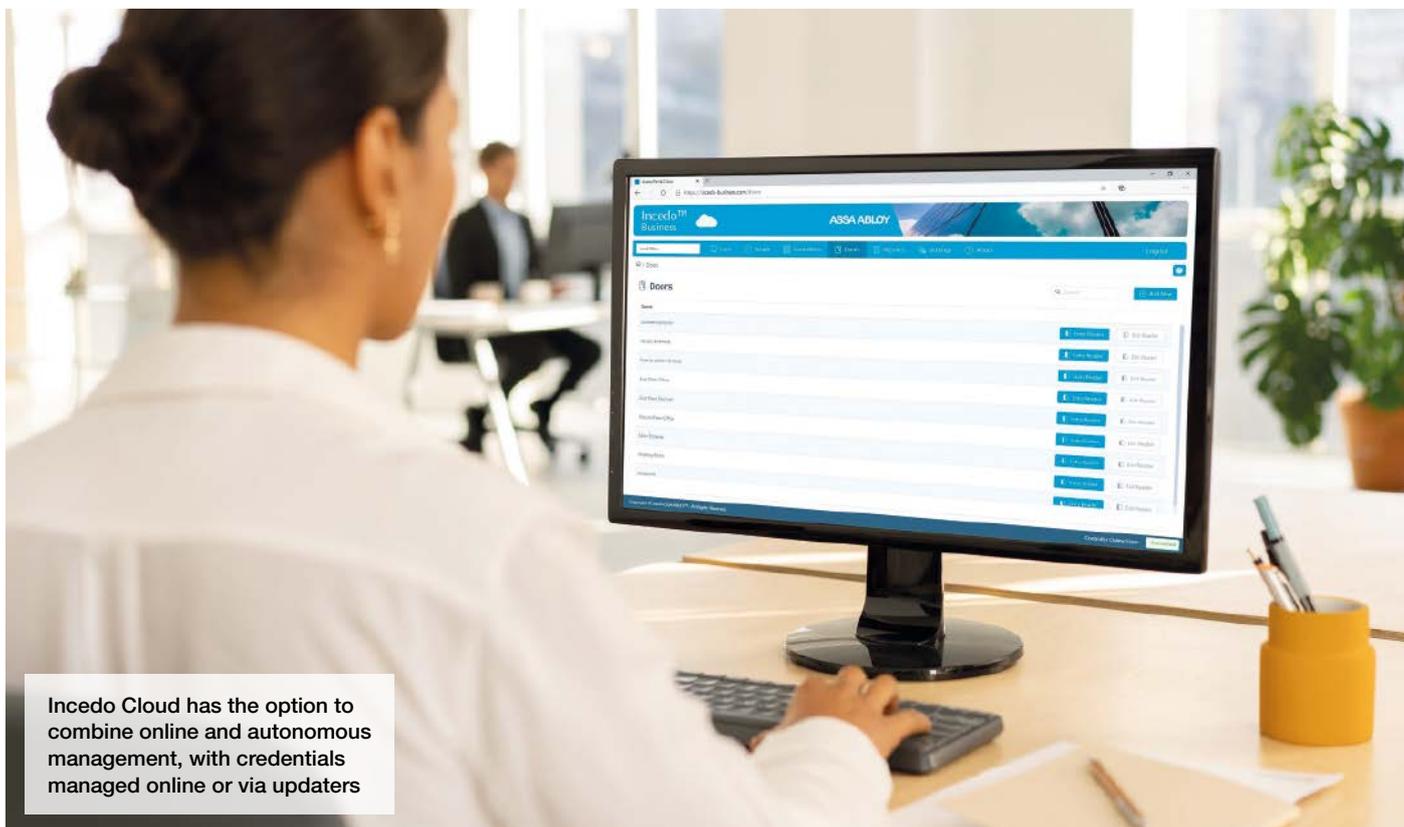
Incedo Cloud has the option to combine online and autonomous management, with credentials managed online or via updaters

is provided by an award-winning range of Aperio devices with built-in readers: the Aperio wireless handle, escutcheon, cylinder, security lock and server rack lock. Aperio devices secure almost any interior or exterior door, whether wooden, glass or a fire door. Because Aperio locks are wireless, they are quick to install, without disturbing the fabric of the building. They consume up to 70 % less power during use than equivalent wired locks.

Also available in an Incedo ecosystem are Pulse key-operated digital cylinders. These are self-powered using energy harvesting technology, operating without wires or batteries. They consume no power when in use. The Pulse cylinder range includes door locks, cam-locks, furniture locks and padlocks which operate outdoors, even in harsh environments. Almost any mechanical or electromechanical cylinder can simply be switched for a Pulse device and connected to Incedo without wires or drilling.

Working seamlessly alongside wireless locks, Incedo can bring control to wired security doors, too. These can be equipped with Abloy maglocks and effeff electric strikes from the Assa Abloy portfolio. Hardwired or high-security doors can be managed via Assa Abloy Signo readers. These are powered by Seos, a credential technology with the highest encryption and authentication standards. Each one supports almost any credential and is mobile-ready when installed – for Bluetooth and NFC.

Unlocking by Smartphone, Smart Key or Smartcard

For almost all door devices, building users can carry almost any credential. All common RFID technologies are supported, including iClass and Mifare. Users can also unlock with an Incedo Mobile Key stored on a smartphone. A shared Seos backbone ensures all credential types can be deployed together in the same system, which makes gradual site upgrading easier.

Incedo Mobile Keys work on a broad range of mobile devices, including phones, tablets and smart watches. These credentials are simpler and safer to administer than fobs or smartcards. Mobile Keys are sent over the air to employee smartphones, removing the need to buy plastic cards or schedule time-wasting credential handover meetings. Updating, revoking or adding new access rights is practically instant.

For added convenience, each Pulse energy harvesting key is also equipped with RFID authentication technology. It can be inserted into a Pulse cylinder to generate power. The same key doubles as a standard credential, able to unlock doors via a reader. For users and building managers, this is much more convenient than keeping track of two separate credentials.

Incedo Cloud: Control From Anywhere

Different areas often have different security requirements. Where entrance doors or critical areas need real-time monitoring with alerts, some other areas in a building might have lower physical security requirements. Autonomous hardware can be installed faster and more cost-efficiently here, with no need for network cables or wireless hubs.

Incedo Cloud has the option to combine online and autonomous management, for example by controlling access to secure areas, such as entrances, labs and server rooms in real time, with online management. Adding autonomous devices alongside these enables the business to control access to areas that previously have been uneconomical due to their location, environment, or cost. It gives security managers even more choice and convenience. Because Incedo is built for flexibility, switching between online and autonomous management is always seamless for both users and administrators. The only difference is how credentials are managed: online or via updaters.

On the previous page are three use cases which demonstrate where Incedo products and the Incedo Cloud solution have brought tangible benefits to business operations.

SW

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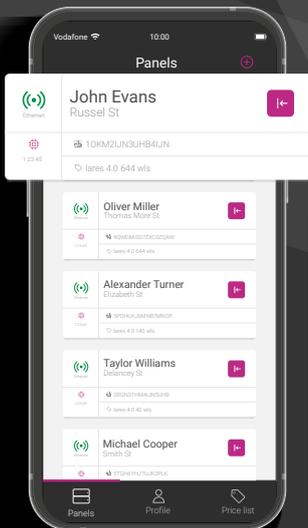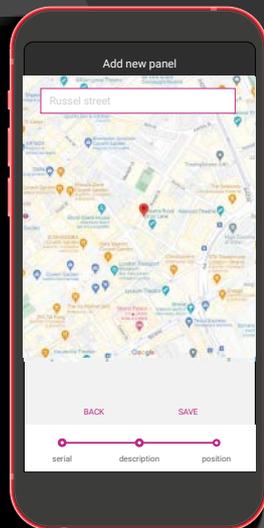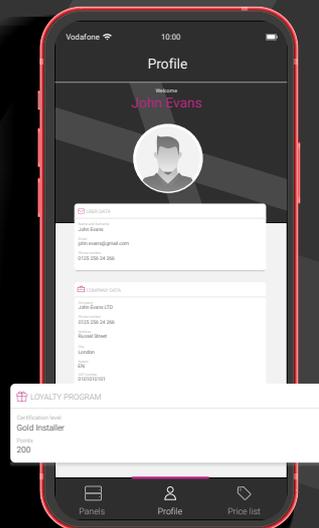
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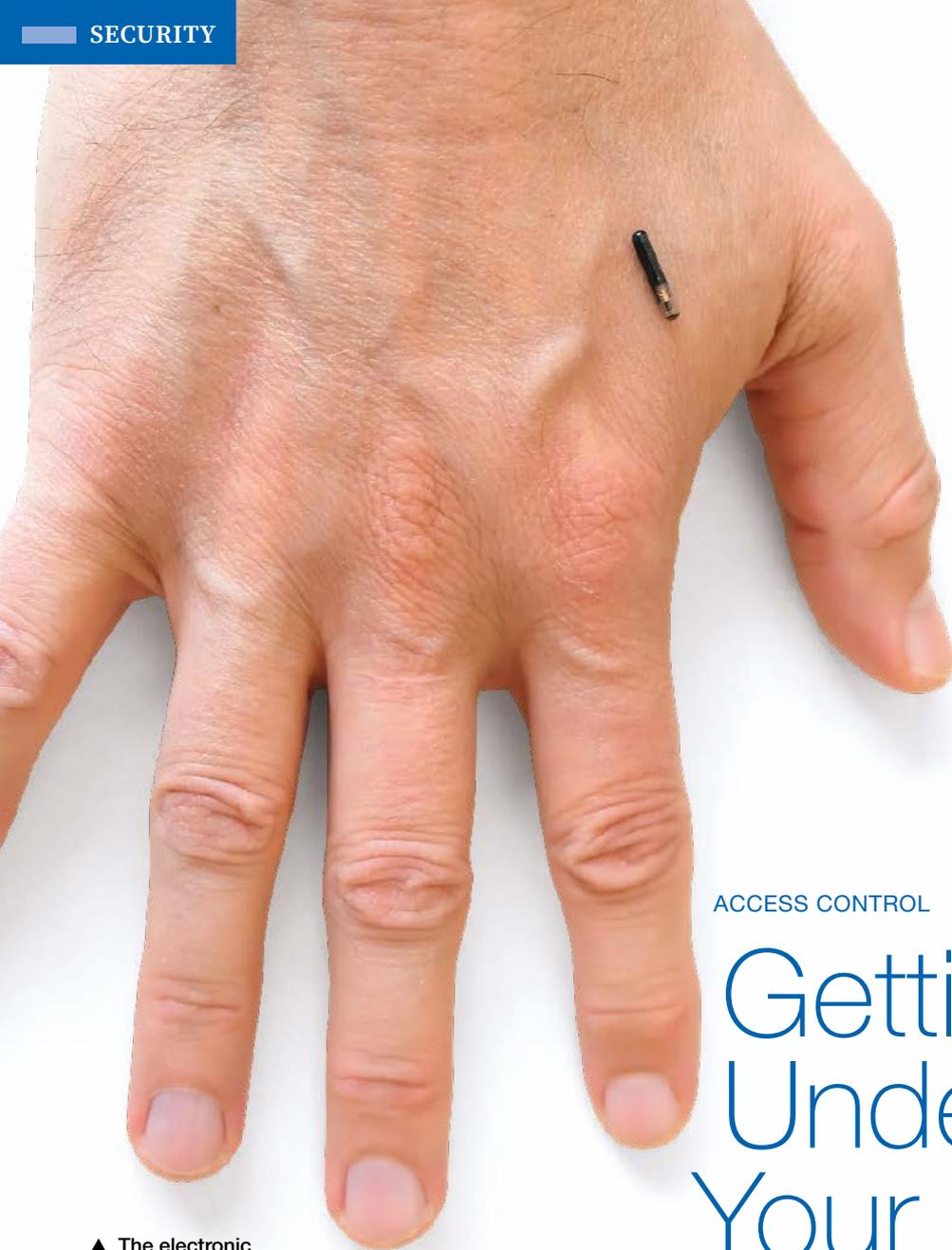
▲ The electronic cylinder is activated via a transponder chip in the hand

Sascha Koestermann (r.), Commercial Director and General Manager of Wilka, had a chip implanted live at the Security exhibition in Essen moderated by CEO Jörg Braun (background)

ACCESS CONTROL

Getting Under Your Skin

The Next Era of Access Control Has Embedded Tokens

It is pitch black, and a light drizzle has set in. A dark figure slowly approaches the door and stretches out its hand to the electronic lock cylinder – neither a key nor a transponder can be made out. Nonetheless, the knob of the electronic Wilka cylinder briefly glows green in the dark and the door opens as if by magic.

It sounds like science fiction, doesn't it? "By no means," says Dr. Patrick Kramer, founder and owner of Digiwell – Upgraded Humans, a platform for biohacking and human augmentation items. Kramer also sells electronic lock cylinders from Wilka, which he obtains from a nearby wholesaler, Bergedorfer Baubeschlag. In the case depicted, the cylinder is activated via a transponder chip in the hand. And that is where Wilka comes in, because electronic lock cylinders from the family company based in Velbert, Germany, are ideally suited to this type of opening, according to Dr. Kramer. "We tested a whole host of products. Those from Wilka react very sensitively due to their construction and can be opened at any time via the chip – even in the coldest winter through gloves."

Digiwell stands for 'digital wellness' and describes itself as a specialist for microchip implants. It has the full variety of implantable technology solutions for people in its range – from RFID and NFC implants to customized systems and hardware installations. Its owner has been working with a major supplier of RFID implants, Dangerous Things, since 2014.

"Near-field technology is probably familiar to many people from their mobile phone or credit card. It is also referred to using the term 'RFID tags'. These tags have a small amount of storage that can hold information, for example emergency information, medical records, medication, key codes and contact information, marriage vows – but also links to websites like a Google photo album. The data can be transmitted wirelessly from this storage over a short distance, less

than five millimeters," explains Dr. Kramer. In principle, a human microchip implant is nothing other than an electronic RFID chip that is enclosed in biocompatible glass and works passively beneath the skin.

Function and Use of Microchip Implants

The first RFID implants were used twenty years ago, but they have enjoyed increasingly widespread use since around 2013. A microchip implant is passive, which means it works without its own power supply or battery and can be very easily configured individually via an app with a smartphone. The small chips are not capable of independent transmission, which means that it is not possible to track them. To be able to read data, an NFC-capable reader such as a smartphone has to be held at a short distance of one to four millimeters from the chip. Data transmission takes place simultaneously in encrypted form, which in turn guarantees protection against unauthorized data access.

There are diverse options for the use of NFC implants. They can be used as business cards and to store contact details, as access cards for locations such as gyms and offices, as openers for electronic lock cylinders, for cash-

less payment, for the storage of emergency medical information, as well as for the triggering of smart home applications or for the unlocking of password-protected computers. In the German-speaking region there are some 20,000 people who have such implants and so have a 'digital interface' in their body. Indeed, many people even have several chips under their skin so as to be able to use various functions or to cover different standards.

The microchip implants, of which there are two types, differ with respect to their technical RFID standards and their form. Just like there are Windows, Linux and Apple in the IT sector, there are various standards in the RFID area (for instance Ultralight, Classic, DesFire) in the high-frequency (13.56 MHz) and low-frequency (125 KHz) ranges. With respect to form factor, there are so-called 'x-series implants' and 'flex implants'. The small x-series tags are placed directly beneath the skin using a syringe. This should always be carried out by a competent piercer or doctor. "Insertion is carried out in a few seconds, and it feels as if you have been pinched briefly," says Dr. Kramer. The flat flex implants, by contrast, are placed beneath the skin by an experienced body modder (a special piercer) or doctor. This occurs under local anesthetic and takes just a few minutes. There are no injection complications, and they are never rejected by the body. The implants do not fuse with tissue and can be removed again at any time without any problems, if required.

▲ When the hand is placed in front of the knob, the electronic Wilka cylinder will glow green and the door will be unlocked

Who Has Microchip Implants Fitted?

The majority of people who have microchips implanted are between the ages of thirty and fifty. Sixty percent are men, while forty percent are women. Their reasons differ: Some simply consider it fashionable, while others find that they mislay everything – including their house keys and car keys. The implanted chip renders this a thing of the past. For some people, though, implants represent added convenience, for example in the event of physical impediments. Dr. Kramer reports on two customers: the first is blind. The implanted chip makes it easier for her to access the changing room at the swimming pool, for instance, as her stick means she only ever has one hand free. Another customer, a 13-year-old girl, was born without arms. She has an implant in her foot and can now open the door of her

The small x-series tags are placed directly beneath the skin using a cannula. The flat flex implants, by contrast, should be inserted by an experienced body modder or doctor

home without any problems, as her father fitted a wall reader for the door at foot level. In both cases, the microchip offers greater quality of life and security. A basic implant can be acquired via Digiwell.com for just under 60 euros, which can then be used to open an electronic door at home.

Biohacking Partnership

When Dr. Kramer first demonstrated to Wilka that its electronic lock cylinders are perfectly compatible with microchip implants, he was delighted with the positivity and openness to this topic that he encountered in Velbert. A genuine partnership has now developed, even though the form of the collaboration is of course different to that with a 'traditional' dealer or locksmith. "It goes without saying that I have transformed myself into an expert on the electronic systems from Wilka in the years gone by. Now, if customers enquire about an 'electronic door lock', I can provide them with extensive product advice and explain why this is so easy with these particular cylinders," says Kramer. The biohacker sells the cylinders in a special edition. Naturally, an after-sales service in relation to the cylinders is also part of his offer. And should a customer ultimately decide against the implant – the electronic Wilka lock cylinder can also be acquired from Digiwell in traditional fashion, for instance with a transponder for a key chain.

▲ Dr. Patrick Kramer, founder and owner of Digiwell – Upgraded Humans, a platform for biohacking and human augmentation items

ACCESS CONTROL

Everything on an ID Card

Mathias Foundation Adopts the Smart AccessOne Solution from CES

The Mathias Foundation pursues specifically Christian, non-profit and charitable objectives with the aim of promoting and carrying out the work of the Caritas organization, care of the elderly, and healthcare. As one of the largest employers in the inpatient and outpatient health and care services in the northern Muensterland region, more than 4,400 employees provide aid to persons in need. With three acute care hospitals, a rehabilitation clinic, six senior citizen and care facilities, medical care centers, outpatient nursing services, its own training facility and service organization, the Mathias Foundation is an excellent example of holistic health care from a single source.

Security and cost reduction are prime considerations in the operation of senior citizen nursing and health care facilities. Digitalization plays a key role here and, as a digital pioneer – digital patient records were introduced 10 years ago – the Mathias Foundation had a vision: to map all security-relevant processes using a single means of authentication. This was implemented with the introduction of the AccessOne access control system from CES, with the option of integrating third-party systems.

The requirements were to organize access management and also to integrate various hospital-related systems such as laundry services, lockers in changing rooms, methods of payment and documentation centers into the access control system via suitable interfaces. Johannes Ortmeier, departmental head of electrical systems for the Mathias Foundation and site manager at the Klinikum Ibbenbüren, compared the packages offered by various suppliers and service providers to the foundation's requirements profile and put them

The multi-purpose CES identity card serves to log on to systems, open doors and lockers, watch over documentation and also as a method of payment

◀ One of the Mathias Foundation clinics in the Muensterland region of Germany

through their paces. "The access control system is not just an electronic locking system for us, but also a process tool that efficiently controls the security-relevant processes in our properties. Our focus is therefore on establishing a sustainable system that can be expanded in successive stages," says Ortmeier. He made his decision because of the broad functional spectrum of the AccessOne access control system from CES, the economic and long-term full-cost analysis and the services offered by CES partner Konntec Sicherheitssysteme GmbH.

Authentication by ID Card

AccessOne is open to the integration of a wide variety of services that are offered in a healthcare establishment. Ortmeier adds: "The multi-application ID cards have provided our employees with a means of authentication that allows them to easily register on various hospital systems and thereby confirm their identity." For example, an application on the ID card controls the access rights management for the locking devices. Another application, deliberately separate from the access control system, transmits the employees' personnel numbers to the hospital systems in a coded, data protection-compliant format. Thanks to the ID card creation facility in the software and with the aid of a printer, the foundation can create the ID cards itself. The layout is placed on the card and all applications, including those of third parties, are coded in a single printing operation.

External access points, internal doors with security relevance and frequently used doors, such as entries to changing rooms or the laundry room, are integrated into the access control system. Reader units with update functions are installed at central locations and are linked to the controllers of the access control system. At the start of their shift, employees identify themselves on the reader with their ID card. Their authorizations are checked in milliseconds, updated and, if they are correct, the door is opened. Authorizations for mechatronic offline locking devices, such as electronic cylinders, electronic handles, wall terminals and furniture locks, are also updated during the reading operation. In addition, system information from the locking devices is sent to the central access controller during this operation. If a member of staff loses their ID card, the card can be blocked by the software. This information is sent to each controller and updater in real time. The information is also sent to the other employee ID cards and thereby distributed to the devices.

Time-Restricted Authorization for Lockers

When the two sites merged into a single hospital, it quickly became apparent that there were not enough lockers for the additional staff. There was not, however, sufficient space to install additional lockers in the changing areas, nor was it economically viable to set up extra changing rooms on the wards. It was, therefore, initially decided to install 'Z lockers' that double the number of lockable compartments in the same space. But the most significant change was the integration of RFID locks, i. e. conversion of the lockers from mechanical locks to an electronic solution with a time-limited period of use. Today, a locker can only be occupied by one person for a maximum of 12 hours. During that period, the same person cannot also take a second locker. If the occupancy time expires but the employee has not vacated the locker, the locker remains locked but can now only be opened by a 'locker master'.

After initial reservations, the clinic staff are now pleased with the solution that enables each employee to access an empty locker at the start of their shift. The next idea for even better utilization of the locker system is currently in the process of implementation. In future, information terminals with a PIN pad will improve user comfort still further. If a staff member forgets which locker they are using, they present their ID card at the terminal and enter their PIN. The display then indicates the locker number and the occupancy time remaining. A further function is the temporary blocking of lockers, which helps service staff to plan and carry out cleaning operations on the functioning lockers.

The 'Z lockers' have been converted from mechanical locks to an RFID solution with a time-limited period of use

Johannes Ortmeier is responsible for the electrical systems for the Mathias Foundation and is also site manager at the Ibbenbüren clinic

Personal or Shared Use

Depending on the programming, an RFID furniture lock can be set up for personal use or for the use of a group – the design of the lock is the same in both cases. For staff, the advantage is that rather than each person having to obtain the single ward key individually, each of them already has authorization for the communal locks on their ID card. This also simplifies the documentation of when the locker was opened and by whom.

Laundry System Interface

Another function, the KEMAS laundry system, is also linked to AccessOne via an interface. Authorized employees identify themselves with their ID card at the KEMAS terminal, which then releases the revolving door to the clean laundry area. The employee collects their work clothing, which is fitted with RFID chips, and leaves the laundry area through another revolving door. At the end of their shift, the employee leaves the used clothing at the automated return point. The KEMAS laundry system logs the collection and return of the clothing, while assignment to the individual is via the ID card.

There are still more ideas for linking technical and security-related processes to AccessOne in future. In addition to the intelligent functions that are currently available in the software package, individual modifications can be made at any time. And as an open system platform, there are no limits to the integration of third-party systems of all kinds.

CONTACT

C.Ed. Schulte GmbH
Velbert, Germany
+49 2051 204229
info@ces.eu
www.ces.eu

ACCESS CONTROL

Get a Grip on Serviced Office Space

An Access Solution for Space as a Service Business

Around 120 doors can be opened, or not, by some 500 passive transponders

The Design Offices company offers flexible rental offices, coworking, meeting and conference rooms, as well as event spaces in top locations. One of the properties, the Atlas building in Munich, was completely renovated and modernized in 2019. In the course of this renovation, a contemporary electronic locking system from Uhlmann & Zacher (U&Z) was installed in cooperation with Performance Buildings.

Long contract periods and the cost of renovations are a nuisance for many commercial tenants. Design Offices is taking a new approach: In the Space as a Service Business, the premises are already completely set up, and the customer no longer has to take care of organizing his services, such as cleaning or maintenance.

This all-round carefree package is well received: Design Offices is already offering customers fully equipped spaces that can be rented flexibly at over 45 locations in 15 cities, including Berlin, Hamburg, Cologne and Frankfurt am Main. The company is the market leader in Germany with a total area of around 280,000 square meters. The business area is growing rapidly, especially in large cities, and offers both companies and teams an important opportunity for flexible work.

Confidentiality and Discretion

One of the locations is the Atlas building, a well-known and defining element of the skyline in the east of Munich. The 13-story building has a long history and was completely rebuilt from 2016 to 2019. A six-storey base building and an accessible roof terrace were also added. At this location too, when it comes to coworking space, the trend is moving away from the typical open spaces and towards significantly smaller

Self-service office booking will soon be available

© Design Offices

offices and meeting rooms with more privacy. The reason for this is the increasingly large companies and corporations that are requesting these premises. Customers often want their employees to work in separate areas where confidentiality and discretion are guaranteed. Due to the trend towards home office, some companies are already

creating facts and giving up expensive office space. Rooms are then rented for the duration of projects that correspond exactly to the acute need.

When it comes to access control, the requirements in such a property are particularly high. The advantages of an electronic locking system are obvious here: On

© Design Offices

Rental offices, coworking, meeting and conference rooms, as well as event spaces are all secured by an U&Z electronic locking solution

the one hand, the locking authorizations can be completely changed at any time; on the other hand, there is the option of setting time-controlled access, for example daily within a certain period of time or exclusively on certain days of the week. Furthermore, lost transponders can be blocked immediately and access by unauthorized persons can be quickly prevented. And last but not least, such an electronic system can be retrofitted and expanded at any time, which offers the customer maximum flexibility.

Shapes in Steel

As a competent partner, Performance Buildings AG supervised the project and ensured that the implementation of the electronic locking system ran smoothly. The electronic locking units come from the manufacturer Uhlmann & Zacher. A total of 120 electronic door handles from U&Z were installed. This extremely flexible product range can be installed on almost all commercially available doors without special tools or cabling. The combination with a selection of different handle shapes enables additional customization. Thanks to the minimalist stainless steel design, the electronic door handles blend in unobtrusively with the existing interior.

The electronic locking units could be easily and flexibly integrated into the operating system of Performance Buildings using the Clex public system. Online modules from U&Z with LAN power over Ethernet were also installed in order to obtain a completely wireless online solution. With Mifare Desfire for around 500 issued passive transponders, the planners also opted for the currently leading transponder technology.

Self-Service Bookings

It is a locking system solution from U&Z that works completely online. All electronic door handles are controlled by radio via the online modules, which enables an important workflow in the offices: The customers can book and use rooms very efficiently and dynamically without having to issue authorizations or issue transponders. Access to the offices is controlled exclusively via a smartphone app from Performance Buildings.

Design Offices will soon be introducing a new function that allows customers to access their desired premises with a fully automated and digital process on the Design Offices website. Thanks to the electronic door handles being connected online, all authorized persons can then enter their workplace or meeting room completely independently during booking times.

The successful cooperation between Design Offices, Performance Buildings and Uhlmann & Zacher will be continued. More locking units will be installed in the Atlas building in the near future as the electronic system can be flexibly enlarged. In addition to electronic door handles, electronic locking cylinders from U&Z will then also be installed in the building.

CONTACT

Uhlmann & Zacher GmbH
Waldbüttelbrunn, Germany
Tel.: +49 931 40672 0
contact@uundz.de
www.UundZ.com

Biometric Access Control

Suprema, a global provider of access control and biometrics, participated at Intersec, the largest security exhibition in the Middle East, which was held in Dubai from January 17 to 19. The company showed its various access control solutions, including the 100 % contactless BioStation 3 terminal, flagship facial recognition terminal FaceStation F2, and QR code/fingerprint recognition terminal X-Station 2. Suprema also gave demonstrations of the BioStar 2 platform's capability to integrate access control for up to 1,000 doors and elevators, and scale to enterprise levels by installing controllers and modules. The Middle East region has a high demand for facial recognition and mobile access control solutions. BioStation 3 satisfies this need with an AI processor called an NPU (Neural Processing Unit). The device is also compatible with various access authentication options, including QR codes, barcodes, mobile access, and RFID cards.

www.suprema.co.kr

Combined Access Control and Video Management

The international security technology manufacturer Paxton's latest innovation, Paxton 10, is a combined software that allows end-users to manage office access and video surveillance on one single platform. To protect an office from unauthorized access, it is advisable to have both access control and video management systems installed, traditionally requiring the installation of two separate software packages. Paxton10 is a hassle-free security system that allows office administrators to easily manage their facilities and video surveillance on a single platform from a variety of devices. It can manage up to 1000 doors and 1000 cameras, while the latest multi-site feature makes it possible to navigate across up to 100 sites. The free app, Paxton Connect, can be used on smart devices, and Paxton10 has intuitive web-based software and a customizable dashboard that allows site managers to generate reports on the precise time and date or location of their choice.

www.paxton-access.com

ACCESS CONTROL

Access to the City of Mozart

Security System for Salzburg City Properties

The electronic access control system blueSmart from Winkhaus secures the government headquarters as well as municipal properties and sports facilities – including the popular Volksgarten ice arena, the Liefering sports centre and the historic Volksgarten swimming pool in Salzburg. Well over 1,000 electronic door cylinders in total and many other smart system components, such as upload readers and ETB-IM electronic door handles, ensure controlled access in the state capital.

Salzburg is always worth a trip: The romantic old town invites people to wander around, offers a wealth of historic sights, and world-famous festivals welcome visitors with an interest in culture. The city's magistrate is based in the baroque Unesco World Heritage Site Mirabell Palace. Visually speaking, time seems to have stood still in the birthplace of Mozart. However, if you look closely, there is a lot of modern access technology to discover.

There are a number of reasons why the city has decided on this system. A key factor is the compact shape of the door cylinders, as they also fit into historic doors and subtly blend into the aesthetics of the surroundings. The system offers high flexibility and reliability, which the decision makers were impressed with right from the start. The Winkhaus building management technology has been in use for many years and the reliable service provided by competent technicians from the headquarters is highly appreciated. This is a good reason to gradually expand the existing system and incorporate new functions.

Sensitive Area: Government Base and Tourist Attraction Mirabell Palace

The baroque Mirabell Palace complex is one of the city's most popular tourist attractions, while also fulfilling its role as a state-of-the-art administrative and government base. The ground floor of the building houses the departments with high levels of public traffic, such as the passport office or the city treasury. As these are sensitive areas that must be easily accessible to citizens on the one hand, but also effectively protected against unwanted access on the other; safety and security pose a particular challenge here.

In order to resolve the apparent contradiction between secure locking and citizen-orientated service and to save costs in the

also cold-resistant and low-maintenance: The batteries have a service life of up to 10 years, depending on the type. There is no need to oil the cylinders, as is the case with mechanical locking systems, as the tip of the electronic key is made of plastic and does not cause metal abrasion on the contact surfaces.

Since access control has been reliable from the very beginning, numerous expansions have been added over the years. More than 430 cylinders now secure the palace complex. Ancillary buildings of the city of Salzburg are also included: Gardens were converted to electronic building security. Seven upload readers in the palace ensure that the keys are provided with up-to-date user rights.

The flush form of the door cylinder prevents damage

At Mirabell Palace, the administrative and government seat of the city of Salzburg, blueSmart manages the access organisation

Thanks to their design, electronic cylinders are an optimal solution for historic doors in Mirabell Palace

© moofushi | Adobe-Stock.com

process, the decision was made in 2006 to implement an electronic locking system. Since then, this system has secured the outer skin and was already compatible with the existing alarm system back then. Today, the blueSmart system, the next generation of Winkhaus electronic access control systems, is used. It is also compatible with existing security systems.

No Wiring and No Maintenance for Cylinders

With their unobtrusive design, the flush-mounted electronic door cylinders do not interfere with the appearance of the historic doors in the Mirabell Palace. No wiring is required because the battery-operated cylinders work off-line. They are

Easy-Grip Keys Help With Organisation

Around four hundred electronic keys are used in the Mirabell Palace to unlock the electronically secured doors. Around three hundred employees, the mayor, the local councillors and political party members go in and out of the buildings. The premises are also used by external organisations and the church, for example.

Only a flexible locking system is able to reliably manage access for so many different groups. The blueSmart system supports users with a variable colour concept: The electronic keys have different colours that enable precise assignment to the individual user groups. Employee keys also contain an additional transponder for time record-
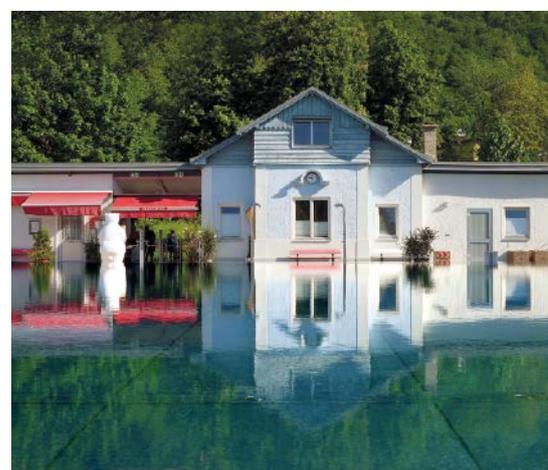
With blueSmart, state-of-the-art technology moved into the historic Volksgartenbad

The Volksgarten ice arena secures its doors with technology from Winkhaus

ing. All keys feature an especially sturdy plastic casing that is waterproof (IP 68) and resistant to hand disinfectants, is easy to clean and easy to grip. They are simple to use, with a system based on the usual locking behaviour: The key is simply inserted and turned. The authentication check takes place in the background and unnoticed by the user.

Central Control:
Five Sites on a Central Server

The management software for the electronic locking system in the palace runs on a central server. Five clients are set up in the system, so that those responsible on site – such as in the swimming pool or sports hall – can also work with it without having to go through the town hall.

A process that involves significant effort with a mechanical locking system can be completed with just a few mouse clicks with the electronic solution: If a lost key is reported, the authorisation can be withdrawn from this key without delay. Changing locking authorisations is managed just as easily. The blueControl Professional software provides user-friendly support. And when the programme requires an update or maintenance, Winkhaus provides quick and expert support. Employees in charge of the locking system can therefore manage any relocations within the administrative offices with minimal stress.

Access to Sport is Well Organised

The sports facilities in the Mozart city are much younger than the palace. The Volksgarten swimming pool dates back to the late 19th century, the Red Bull ice arena was built in the 1960s, while the Liefering sports centre was built just a few years ago.

The outdoor pool, which Salzburg locals affectionately call "Volksi", has grown over the decades and was also fitted with an electronic locking system in 2020. An upload reader and thirty door cylinders secure the outdoor and indoor areas.

Salzburg's ice rink is located in the immediate vicinity. It offers space for 3,400 spectators and was converted into a multi-functional arena at the start of the millennium. Professionals and amateurs of all ages from various clubs train here. The requirements for access management are therefore high. The two ice rinks, one of which is outdoors, offer a wide range of ice sports activities: In addition to public and formation ice skating, these include ice hockey, figure skating, curling and

> The employee keys contain an additional transponder for time recording", Martin Svata, Product Manager of Winkhaus Austria.

short track. Trade fairs, concerts, musicals and exhibitions are also held here in the summer months from April to September. Access is controlled by almost 300 electronic door cylinders, which minimise the risk of injury from crushed fingers and offer little surface for accidental or intentional damage, as well as three upload readers. In the administration area, the doors are equipped with electronic door handles (ETB-IM). In addition to the electronic blueSmart keys, employees also use transponders to unlock doors without touching them.

Technology for the Smart City Standard

In 2016, a gym was built as a positive energy building for the first time in Austria in the form of the Liefering sports centre. It meets the Smart City standards and has been awarded the Climate Active Gold Standard. The building generates more energy than it needs itself. Its three-field sports hall offers space for numerous sports and is also geared towards disabled sports. A movement room and office space for the clubs complete the range of facilities. The smart technology of the building, which includes a locking system, fades into the background. 120 door cylinders and three upload readers safeguard the indoor area and the outdoor facilities. BlueSmart also effectively controls floodlight systems and other applications.

Hier finden Sie ein Video zum Projekt:
www.youtube.com/watch?v=ilNYcVzsjaU

CONTACT
Aug. Winkhaus & Co. KG
Münster, Germany
Tel.: +49 251 4908 0
info@winkhaus.de
blueSmart.winkhaus.com

Integrated AI-Powered Video Security Solutions

Motorola Solutions was at Intersec 2023 in Dubai and presented its new video and software solutions that enable security operations to detect and analyze incidents in real-time. Ava Security cloud-based cameras and Openpath cloud-based access control solutions demonstrated the power of integrating video security and access control to provide unprecedented situational awareness where every physical entry and exit is authenticated and recorded. The cloud-native, AI-powered video management system, Ava Aware is equipped with integrated machine learning capabilities, while Openpath's mobile access control solutions deliver remote management capabilities with cloud-based software on an open ecosystem, providing smart, touchless security at every door. Avigilon previewed two new cameras: the H5A multisensor camera with AI-powered analytics and adjustable sensors, and the H6SL camera line equipped with AI-powered analytics and high-resolution for image clarity in challenging lighting conditions.

www.motorolasolutions.com

Scalable Alarm and Event Management

Hanwha Techwin has announced a strategic partnership with NXGEN Technology, a Swiss-based start-up that focuses on scalable alarm and event management. In particular, the partnership will benefit monitoring stations where real-time event management and alerts are critical. With multiple systems and devices required to work seamlessly together – including video, the Internet of Things, access control, perimeter detection, and more – this partnership aims to simplify this with the development of a single interface to connect all Hanwha Techwin video solutions with other systems using the NXG Genesis cloud-based event and alarm management platform. The two companies are already working together on several installations across Europe for large, well-known organizations that require a single management system for all their video devices. The integrated solution can scale across complex installations utilizing multi-vendor devices. **www.hanwha-security.eu**

PoE Outdoor Boxes

With the new Synaps PoE 5 and Synaps PoE 6 outdoor boxes, cameras can be connected with the desired voltage, the necessary power and the preferred communication protocol. There is PoE equipment power up to 90 W available with a total budget of 150 W. All types of cameras can be connected: fixed, domes, thermal, multi-sensor, infrared etc. Data flow management (VLAN, Multicast, QoS, SysLog ...) allows network performance to be optimized for better images. The box can be remotely managed up to 20 km away via the five or six-port layer 2 switch with one or two fiber links and contains a secure webserver with automatic first level support. The unit offers a secure space for client equipment such as a 4G router, fibre cassettes, a micro-PC or other devices. And should the power feed fail, a lithium SLAT battery with a ten-year operational life keeps everything working. **www.slat.com/en**

School Administration Buys 15,500 Locking Systems

iLoq will deliver locking systems to all public schools in Gothenburg, which corresponds to 15,500 doors. The order is the largest so far for iLoq in Sweden and delivery already began in December last year. All doors of all public schools in Gothenburg will be equipped with iLoq's S5 locking system during the first half of 2023. The system is battery and cable-free – the energy needed to confirm the authorization and unlock the doors comes from the kinetic energy generated when the key is inserted into the lock. The administrator can update access to the schools' doors in real time and members of staff only need one physical key in their hand to access them. "What made the deal possible was the focus on sustainability and safety. It is very exciting that these are issues that determine a deal for everyone in the supply chain," said Gunilla Berg, sales manager at iLoq. **www.iloq.com**

Powerful Access Management Solution

Traka, the intelligent asset management systems provider, has integrated with Paxton's Net2 software to enable users to operate critical key and equipment management from one access control platform. The seamless integration ensures complete data integrity, including sending personnel, credential, and access level updates to the Traka system in real-time. Users need only a single credential for both door access and the keys and/or equipment managed by Traka, which can be controlled by time and day on an automatic basis with instant audit control reporting. Further benefits include the ability to expose Traka events and alarms, making them visible within the Net2 software, and an ability to administer the Traka system from the familiar access control environment. This includes varying staff access to selected items and providing curfew functionality to ensure keys are checked out and returned in specific, defined time allocations. **www.traka.com**

Behavioral Video Analytics Set for Continued Global Growth

Viisights, a provider of behavioral recognition video analytics that deliver real-time video intelligence, is touting the continued growth and market expansion for intelligent AI-driven video analytics. The company is continually helping cities and municipalities turn their reactive video security systems into pro-active and pre-emptive Smart City solutions, providing new sources of security, safety and environmental health. Their video understanding technology utilizes deep neural networks to analyze video streams from existing video camera systems and automatically detects developing safety and security risks before raising near real-time alarms. The early notification of impending and real-time behavioral events of interest enables responders to take faster action. Viisights intelligent analytics can be deployed on-premises or remotely as a service (SaaS) with general availability planned for early 2023. **www.viisights.com**

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ACCESS CONTROL

The Dark Side of Dark Deliveries

Five Risk Factors in Access Methods for Overnight Deliveries

According to current studies, a higher security level is the main reason why property owners equip their buildings with intelligent SmartHome or access control systems.[*] One area of application in which the advantages are particularly evident are the so-called "dark deliveries".

I n many organizations – especially restaurants, canteens and grocery stores – goods are often delivered overnight, outside of the business hours. On the one hand, ongoing operations are less disrupted, and on the other hand, products with a very short shelf life, such as seafood, herbs, baked goods or convenience food, are freshly available in the morning. One problem, however, is the access control for the suppliers and changing drivers. Access Management expert Brivo explains the risks and challenges associated with overnight deliveries, showing why digital solutions like mobile credentials are becoming more prevalent. Such solutions enable managers to assign specific access rights to employees and external partners, which can then for example authenticate themselves via their smartphone and use it as a key to access buildings or certain areas.

Overnight deliveries are often conducted by logistics companies and third-party providers, whose drivers must have access to the building, storage or cold rooms outside of business hours. In the past, this was often handled with a high degree of trust. With service providers and drivers changing more and more frequently, the risk is no longer tenable for most business owners or decision makers.

Missing Backup and Communication Gaps With the "Gatekeeper Method"

One method of admitting access to suppliers is for an employee or security guard to be present, even late at night or early in the morning, to verify the identity of the suppliers and to open any necessary doors to the building and store or cold rooms. However, this procedure harbors more possible sources of error than assumed at first glance. If an internal employee is assigned to access control, there is often no backup. If the person gets sick or can't turn up, sometimes a manager has to travel a long way in the middle of the night to ensure that several kilograms of seafood are

not left standing in front of a locked door – if the absence of the person appointed is recognized at all. If there is a security service responsible for the building, then they must be able to verify the suppliers and drivers. Here, there are often breaks in communication, because the staff on the side of the suppliers and logistics services as well as the security service changes frequently.

Trust Risk in the "Key Strategy"

In the past, business owners often simply provided a trusted supplier with a key. What is perhaps still feasible for a restaurant owner with 1-2 suppliers cannot really be implemented in larger companies with changing delivery services and drivers. This approach not only requires a high level of trust in the logistics partner. The key must also be passed back and forth between people if the same person does not always take over the delivery. If a key is lost, there are also high costs for replacing the entire locking system. Of course, this not only applies to the suppliers, but also in the event of an employee losing a key.

High Effort With Token Solutions

A first step towards digital solutions to replace keys are locks with number combinations or tokens that are programmed. However, when access codes change, all employees and suppliers must be reliably

Mobile credentials are becoming more prevalent to assign specific access rights to delivery partners
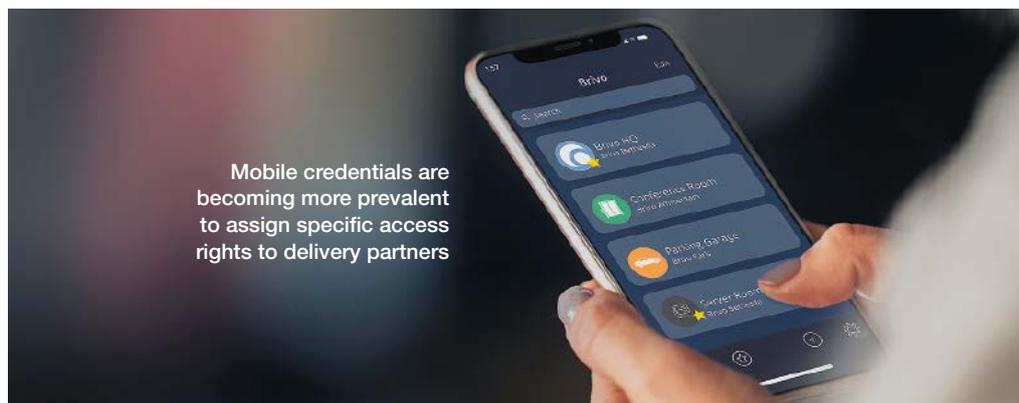
be implemented with a certain amount of effort – but if, for example, there is a delay in delivery, someone from the IT or security team who could adjust the time window is not always available at that time. Overall, there is a high risk factor for all these options, as in most cases, it cannot be regulated or supervised at what times and for what purpose employees and external partners use their access to the building or certain rooms.

Lack of Transparency About Deliveries Conducted

Another shortcoming with many of the previously described methods is that those responsible cannot remotely check whether a delivery has arrived and whether the goods have been properly stored – for

turned to us because it took an average of 30 minutes to register a driver for the access system and equip him with the necessary token. However, since the drivers change more and more frequently, the previous system was no longer practicable. For this reason, they decided to switch to a mobile credential access system."

A modern system for mobile access control offers the advantage that no dedicated hardware is required. Access authorization and authentication can be implemented via the smartphones of employees or suppliers. If the owner has the necessary access rights, the smartphone serves as a kind of key for access to buildings or specially secured areas. A mobile app communicates with the reader at the door and allows users to access premises – without the traditional plastic cards, tokens, etc. that have to be handed over and programmed. Access rights can be assigned and adjusted in real time via the cloud without the need for an internal IT team. Mobile credential systems thus provide the basis for a holistic

Brivo's digital access management solution helps with overnight deliveries ▶

informed, and there is no control over who may pass their code on to third parties. The problem is similar for tokens. While it is more difficult to pass a card or token along than a number code, the cost of the system and the amount of programming work are much higher.

Lack of Control Over Time Slots for Access

When keys, codes or tokens are issued, there is usually no way of specifying a precise window of time for a specific delivery. In the case of tokens, this could

example in a cooler. If the missing delivery or improper handling is noticed, the goods may already be unusable or cannot be replaced in time. For a large staff restaurant, catering for an important event or delivery to a large fast food or supermarket chain, such a failure can result in enormous costs.

"Many larger companies have already implemented stronger security measures. So far, however, this was often associated with high costs and considerable effort," explains Ingo Meijer, VP of EMEA, at Brivo. "A large restaurant chain, for example,

and integrated access control system that increases both security and convenience for employees and external partners.

* https://www.bitkom.org/Presse/ Presseinformation/Smart-Home-2022

CONTACT

Brivo Systems
Bethesda, MD, USA
Tel.: +1 301 664 5242
sales@brivo.com · www.brivo.com

SPECIAL FOCUS RETAIL

Retail From Front to Back

Security Solutions for the Retail Industry in 2023

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SPECIAL **FOCUS**

If you were a shoplifter, what environment would you choose to steal from a retail shop? Are you thinking of stealing a T-shirt in a crowded yet out-of-sight area? Think bigger! How about taking action at night, when the deliveries are coming in? When access rights to warehouses are unorganized, there's opportunity for fraud. More often than you think, however, it is people from your own company or from partner companies who cause the greatest damage. GIT SECURITY takes a closer look at technologies that can help reduce loss and fraud significantly.

The good old classic CCTV camera has been around for decades, and has progressed by leaps and bounds since its introduction. With highly intelligent algorithms either built into the camera itself or sophisticated apps studying the incoming images centrally in real time, it is relatively easy nowadays to spot shoplifters in action. No matter whether it's a single thief or an organized gang, today's systems can raise an alert when they recognize suspicious behavior based on movement patterns, such as lingering, an unusual grouping of customers or running. Stockrooms and warehouses can also be kept in view and similarly protected against theft by employees.

Video Analytics With AI

On the basis of their Wisenet cameras, Hanwha Techwin Europe can provide a complete retail solution that will deliver not only security surveillance but also customer behavior intelligence. Integration with other in-store systems is supported through the devices' open platform approach, for example through the use of AI-based video analytics to ensure the current occupancy, social distancing and mask regulations are being complied with.

Uri Guterman, Head of Product & Marketing at Hanwha Techwin Europe recently said in an interview: "Perhaps the biggest development in video technology in recent years has been the wider deployment of AI 'at the edge' – to not only deliver better image quality, but to provide users with greater insight into the images captured. So, while retail security systems may have grown in complexity in recent years, retailers need to understand that the massive processing power of the latest generation of high definition cameras means they are able to offer so much more than traditional security cameras.

"Indeed, the wider availability of affordable, easy-to-configure and discreet cameras equipped with video analytics software has opened up a massive opportunity for retailers to gather reliable and verifiable data that can help them assess why an individual store is performing better than others, for example, or better understand the behaviour and intentions of customers."

Graham Swallow, Retail Lead for Axis Communications EMEA says: "Capturing images and driving actionable alerts to reduce burglary, theft and violence brings value, but it doesn't need to end there. Video analytics on the camera edge can be used to create actionable alerts to drive a retail operation (identify loitering customers in a high-risk area to initiate service to deter or drive a sale) and provide data for long term planning (busy times require more staff and available baskets). The same analytics improve the customer experience, drive sales but also impact on the safety of customers and staff."

Bosch Security is another provider that offers sophisticated retail solutions. Areas like emergency exits must be clear and accessible at all times. With video analytics, cameras can identify objects blocking or people entering or exiting a designated area. An intrusion system can monitor the status of a door during disarmed periods. The system can alert to a door propped or inadvertently left open, indicating the possibility of employee theft and preventing unnecessary heating and cooling costs.

"Video analytics is still in its infancy. Today's video analytics provide limited insights which can translate to poor and

Unattended shopping doesn't mean a free-for-all. Products removed from display are detected at the exit and charged, even if they are concealed

Perimeter Protection Group: Firmly anchored bollards provide excellent protection against 'ram-raiding'

missed alarms," according to Dieter Joecker, Oosto Chief Technology Officer. "Talking to enterprise customers and the partners who serve them, it's clear that the world of physical security needs to move out of the dark ages and help organizations prevent incidents of violence and vandalism, or to minimize the damage immediately after."

Joecker added, "Tomorrow, commercial enterprises will harness the power of contextual scene analysis – multi-threaded AI – to deliver real-time contextual analytics and precision alerts based on a more holistic understanding of live video surveillance. For example, when someone falls down in a store, this could mean any number of

things: Were they actually bending over to tie their shoes? Were they pushed by another person? Was it a staged 'slip & fall' to generate a fraudulent claim? Is the person having a legitimate medical emergency? How an organization responds in real-time is based on the timeliness and quality of the alert."

Today's AI-supported video analysis algorithms keep a close and constant watch according to selected event criteria, even in stock rooms and warehouses. Here: i-PRO Extreme H.265 Dome Network camera

Access Management

Speaking of disarmed periods, access management expert Brivo explains the risks and challenges associated with overnight deliveries, showing why digital solutions, such as mobile credentials, are becoming more prevalent. Such solutions enable managers to assign specific access rights to employees and external partners, who can then for example authenticate themselves via their smartphone and use it as a key to access buildings or certain areas.

Overnight deliveries are often conducted by logistics companies and third party providers, whose drivers must have access to the building, storage or cold rooms outside of business hours. In the past, this was often handled with a high degree of trust. With service providers and drivers changing more and more frequently, the risk is no longer tenable for most business owners or decision makers.

Robust access control is a vital key point for Salto for successful retail store security. With their system, users can define precisely who can enter or exit through which access points and at what times. Opening doors remotely from anywhere and replacing mechanical keys with mobile access, smart tags, key fobs, or PIN codes is very easy to realize.

Biometric Surveillance

Standard video security cameras supply images of shoppers entering the store to be checked against a database of known criminals or troublemakers. i-PRO offers a broad range of professional cameras for warehouses and retail stores. With the combination of an i-PRO camera and deep learning technology, users can quickly search images and automatically detect specific attributes of people or vehicles. The analytics technology eliminates the need for expensive analysis servers and lowers costs.

As well as security, these intelligent video systems can offer additional analysis functionality, such as identity recognition and people counting. Returning recognized shoplifters immediately trigger an alarm on entering the store. Pelco's commercial camera security systems for retail and shopping centers uses AI to send alerts notifying motion detection, abandoned objects and tampering so users can respond quicker to events. Pelco provides cameras for business and retail that perform occupancy counting and alert users of crowd formation through their integrated analytics suite.

Electronic Article Surveillance

Under this heading fall RFID tags – tuned circuits that oscillate and emit a magnetic pulse or a radio frequency that is detected by receivers at the entrance/exit of the store. Century Europe have a range of discreet solutions suitable for various types of goods: electronic items, foodstuffs, health & beauty products, clothing etc. They can be applied to items during manufacture to save in-store effort with each new delivery. Striving to reduce costs for retailers, Nedap Retail offer a spectrum of RFID tags, with more or fewer features as required.

Smart Shelving

Combining inventory management, in-store analytics and loss prevention, the smart shelf technology of Imco looks after a number of tasks that your staff would otherwise have to do. The American company AWM manufactures innovative smart shelf systems that at first glance just make shopping easier for customers, but in the background provide shop owners with valuable, accurate and real-time data on their product lines.

A contactless shopping system called Frictionless has been developed by Flir. This utilizes the company's own Blackfly camera systems and makes unattended shopping for smaller items a reality – a distinct advantage in these pandemic times.

Break-Ins

Of course, theft happens not only when a shop is open – the cover of darkness and deserted streets inspire thieves to break into retail properties and fill their (probably stolen) vehicle with goods. Shopfront design and construction have come a long way in recent years and there are a number of ingenious methods of preventing, or at least delaying, unauthorized access through the front doors when the 'Closed' sign is hanging.

The first line of defense is the glass window itself, which nowadays can be almost impenetrable to bullets, pickaxes, sledgehammers and the like (i. e. Pilkington). The second tactic is the use of 'street furniture' which, in cooperation with the owners of the land immediately in front of the property, can provide protection against so-called 'ram raiding' while simultaneously enhancing the appearance of the street. What looks like heavy flower boxes can in fact be disguised bollards that are sunk into the ground below to stop any vehicle from going any further. Perimeter Protection Group operate internationally and have a range of vehicle prevention devices for every situation.

These are just some of the retail security solutions that you might implement to prevent that nasty realization one day that your store has just become the latest statistic in an insecure world. We will probably never manage to make theft impossible, but the solutions mentioned above will make it much less attractive, both for determined and for casual thieves.

Suppliers

Ariba | www.ariba.at
AWM | smartshelf.com
Axis Communications | www.axis.com
Bosch Security | www.boschsecurity.com
Brivo | www.brivo.com/
Century Europe | www.century-eu.com
Flir | www.flir.com
Hanwha Techwin Europe | www.hanwha-security.eu
Imco | www.imco-berlin.de
i-PRO | i-pro.com/global
Nedap | www.nedap-retail.com
Oosto | oosto.com
Pelco | www.pelco.com
Perimeter Protection Group | www.perimeterprotection.net
Pilkington Glass | www.pilkington.com
Salto Systems | saltosystems.com

Global Video Solution Services

Konica Minolta has defined 'ensuring social security' as one of its business areas. Through its business operations, the company aims to help solve challenges such as the growing risk of disasters due to climate change or the diminishing workforce due to aging societies. AI-assisted, real-time, on-site detection and assessment using Konica Minolta's Forxai IoT imaging platform offers robust, high-performance, decentralized video technology and the highest cybersecurity-oriented Mobotix video technology. Konica Minolta's global sales companies provide video solution services based on Mobotix products and services to digitize customers' workflows. Konica Minolta opened a showroom in Prague in June 2022 and introduced new services related to the Forxai Video Analytic Solution and Visual Quality Inspection. Vaxtor, which Mobotix acquired in May 2022, offers solutions for automated license plate recognition (ALPR) and optical character recognition (OCR). Their OCR technology can be used, for example, to manage, monitor, and control trucks and containers at ports. It scans and recognizes license plates from more than 150 countries and can guide drivers on-site and check access authorizations. In addition, by collaborating with Mobotix, Konica Minolta aims to expand into new business areas by providing its customers with transportation and logistics infrastructure using AI technology to scan license plates and containers. Mobotix CEO Thomas Lausten is proud of the increased Konica Minolta investment: "We are confident that our products and solution services can solve many more social challenges. I expect we will work with Konica Minolta to develop new video solution services." **www.mobotix.com**

Transit Agency Adopts AI Gun Detection

Southeastern Pennsylvania Transportation Authority (SEPTA) voted to deploy ZeroEyes AI-based gun detection software on its train platforms, the first major U.S. transit system to adopt a proactive security solution that detects visible guns and alerts law enforcement within three to five seconds. ZeroEyes is entirely focused on identifying guns, not people. It does not record, store, or share any personal or biometric data or conduct any kind of facial recognition. It is used and trusted by schools, commercial businesses, houses of worship, government properties, military bases and others. It delivers accurate and actionable intelligence on gun-related incidents, including the gunman's appearance, clothing, weapon, and real-time location. "Our nation's cities have been experiencing dramatic increases in violent gun-related crime, and we need more leaders like SEPTA who take proactive measures to protect the public," said Mike Lahiff, CEO and co-founder of ZeroEyes. **www.zeroeyes.com**

Security Ecosystem

The integrated security manufacturer TDSi exhibited in the UK Pavilion at Intersec 2023 for the first time in a decade to promote British security exports and expertise. The company showcased the latest versions of its powerful GARDiS security ecosystem of hardware and software products as part of the BSIA's promotion of British security technology. Having exhibited at Intersec since 2006, TDSi's stand is a regular feature at the event as an enthusiastic exporter of security systems and solutions across the Middle East and beyond. This year, the latest additions to the GARDiS software (version 2.5), including new integration with Suprema's biometric systems and Pelco's VideoXpert VMS solutions, along with enhancements to the Mantrap function and additional features that add extra convenience and usability, have become available. **www.tdsi.co.uk**

Public Safety and Security in the UAE

Professional communications corporation Nedaa showed its solutions and applications at the recent Intersec 2023 in the UAE. One of the highlights was the future-proof Coremote Tactics solution which, operating on Nedaa's 4G network, allows users to not only manage a mobile field force remotely, but also to create and provide situational awareness across multiple (hybrid) critical communication networks. The unit also features automatic vehicle location management, fleet management as well as a dispatching solution. Another major attraction was Esharah's Everbridge Signal, a comprehensive set of Open Source Intelligence (OSINT) tools that offer foolproof protection for organizations that are critically dependent on fast and secure communications. Airbus displayed an array of its latest communication products run on Nedaa facilities, with its Tactilon Agnet solution occupying pride of place. **www.nedaa.ae**

Access During Power Cuts

There has been a lot of media coverage recently about how to prepare for possible power cuts. In the event of a power cut, iLoq customers do not need to worry because the locking system is powered by the movement of the key when it is inserted into the lock cylinder. No separate power source is needed for the key or the lock cylinder. iLoq's cylinders operate normally during a power failure and ensure uninterrupted movement around the site. Many apartment buildings have an iLoq Online reader and door module on the main entrance doors that require a source of electricity. The electrically operated lock functions with the use of a PIN code or by showing the key to the reader. Very often with a digital locking system, access to the main entrance door during a power failure is secured by a battery backup. However, in all cases, there is an iLoq cylinder at the same location. The door can be opened using the key in the normal way, despite a power cut. **www.iloq.com**

4x3

Public Transportation

1. **What are the biggest challenges in the public transportation sector and what solutions do you recommend to increase transportation?**

2. **What can users expect from your systems beyond security?**

3. **Please describe a success case where you have implemented one of your systems in a 'Public Transportation' project.**

Yavor Gueorguiev
Application Delivery Manager, Intelligent Mobility at Genetec

www.genetec.com

1. With public transport use now bouncing back to pre-pandemic levels, it's essential to be able to provide a safer environment for passengers and a quick response when incidents occur. However, when providers first adopted technologies, such as video surveillance, access control and intruder detection, they were typically deployed on a stand-alone basis to address a specific need. That hampers efforts to mount a coordinated response. We recommend the adoption of a unified security platform that breaks down silos, encourages collaboration and facilitates data sharing between security teams and law enforcement.

2. The value of a unified platform is that its applications can quickly extend beyond security to support daily operations and provide an additional source of business intelligence. For example, it's possible to use people counting and other video analytics to monitor occupancy levels inside the concourse, on platforms and in waiting rooms. Automatic alerts can be generated and a pro-active approach to crowd management can be deployed before a problem escalates. Equally, accurate footfall, people flow and demographic data can be collected and used to help attract retailers and let out commercial space.

3. The Lyon Metro in France has successfully implemented Genetec Security Center to manage its 1,900 cameras across 42 subway stations. It is also seamlessly monitoring the 576 cameras onboard its D-line trains from the same interface. The change has been transformational as it had previously relied on two disconnected systems, meaning they lost real-time visibility of users as soon as they stepped on board a train. It can now offer an enhanced level of passenger safety and support. For example, by having sight of passengers when they press the intercom inside the train. And by providing evidence more quickly to law enforcement should a criminal activity occur.

Dexter Zhu
Public Transportation Solution Manager at Hikvision

www.hikvision.com

1. For public transportation, safety is the foundation, and efficient operation is the purpose. One challenge for the sector is to ensure safety for both transportation facilities and passengers. To address this, we offer transportation hubs comprehensive security solutions with Hikvision's scenario-based intelligent algorithm. It not only protects and monitors the key elements in hubs, but also keeps track of any potential anomaly or emergency and instantly triggers alarms, so that the security team can react quickly to any threats or security concerns.

To help achieve constant improvement of operating efficiency, Hikvision provides people counting solution to track passenger flow in both transportation hubs and on-board. Live passenger flow analysis helps to control passenger capacity in case of overload. On the other hand, historical passenger flow data can assist further transportation network planning.

2. With many years of continuous scenario analysis and solution development, what Hikvision can provide is way beyond security. By combining our diversified product family and scenario adapted algorithm, our solutions can help transportation industry in many ways such as safe driving and operational efficiency improvement. For example, our intelligent cabin solution for buses is featured with advanced driving assist, blind spot detection, 360 degree around view monitoring and driver anomaly detection, along with Hikvision's on-board products embedded with intelligence algorithms. The solution provides 360° views without blind spot, and collision warning for bus driver, which ensures safe driving, reduces accidents, improves bus lane traffic flow, and makes the urban bus system work more efficiently.

3. We have many success cases in multiple industries such as metro, railway, bus, port and airport around the world. For one project, where we unfortunately are not allowed to mention the city, we have worked closely with an industry-leading integrator, and designed and installed video security system with more than 6000 cameras, the access control and other systems in more than 30 stations within the city. The system design includes site cascading, software high availability, remote disaster recovery, cluster storage and ISCS system integration, which provided an integrated system that met the industry RAMS standard for metro system. The system has been running 24/7 for 2 years and the user is satisfied with our stable product and system performance, and are looking to collaborate with us for upcoming metro lanes.

1. By 2050 around 70 % of the world's population will be living in cities, putting immense pressure on infrastructure. Cities around the world go through substantial changes designed to accommodate this expected growth. As cities grow in area and in population, making it from point A to point B efficiently becomes a challenge for city officials and a priority for residents. Cities are continuously looking for data and insights that can help them plan, invest, and serve their residents more efficiently. Video is present in many cities and local governments are interested in utilizing it to increase their Return on Investment. Video technology and Milestone's wide range of solutions not only allow decision makers to make better decisions and deploy public transport more effectively, but also to improve the overall customer experience making the journey more pleasant and seamless.

2. For decades, video surveillance has been used almost exclusively for security purposes. Advances in technology, like data processing and video analytics, made it possible to generate insights and not just video from cameras. While the use cases that can benefit from video analytics are many, one area that is already using video technology beyond security is public transportation. Francis Bacon once said that "knowledge is power" and this cannot be truer when it comes to video technology. In large areas, such as in cities, being able to monitor and analyze big amounts of data is key. Qualified manpower is getting harder and more costly to recruit and due to the size of cities,

being efficient requires a lot of it. Milestone's customers can use video technology to learn, analyze, and improve traffic patterns within and between cities, increasing efficiency and taxpayer's satisfaction. Scenarios, such as cameras that learn traffic patterns and direct passengers to the fastest means of transport, are becoming a reality. Improving business outcomes for our customers is at the heart of everything we do here at Milestone. We are on an exciting journey that is designed to increase value for our customers in safety, efficiency, and satisfaction. Stay tuned.

3. When discussing public transport, most people immediately think about buses and trains designed to ease traffic congestion attributed mostly to ever-increasing privately owned vehicles on the road. Due to its mountainous terrains, the French territory of Réunion Island faced a challenge: how to ease congestion on steep and crowded roads. The solution was a modern cable car conduit that safely mobilizes a thousand passengers an hour, easing the way for inter-city dynamics and economic advancement. Together with our exceptional partners, video technology is used here to plan and run this inspiring project, that offers an effective alternative to using private vehicles, alleviates crowded road traffic conditions, connects several cultural, academic, and societal hubs, sparks economic growth, improves interfaces and links between housing and employment areas, and improves the municipalities' integrated public transportation network.

Bjørn Bergqvist
Senior Manager,
leading the marketing of
Milestone's solutions
for cities
www.milestonesys.com

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1. One of the biggest challenges for the public transport sector is still dealing with the consequences of the pandemic. In many cases, acceptance and usage have not yet returned to pre-pandemic level. At the same time, we are observing a further increase in urbanization and the emergence of megacities worldwide. The result is an increase in traffic - with the well-known negative consequences for quality of life and climate. That is why it is all the more important today to create attractive public transport offers – and attractive not only means affordable but also comfortable, safe and secure to use.

2. Security in public transport is not an isolated issue – it has a direct impact on operations. That's why our Enterprise Incident Management solutions follow a holistic approach by orchestrating the management of safety, security, or operations related incidents. They do not only create a more

secure environment for passengers, but also improve the service quality, e. g. by helping reduce delays or providing more transparent information. This also applies to our video solutions that can leverage advanced integrations, e. g. to measure the occupancy of stations to make traveling more convenient.

3. A recent example of the successful deployment and use of Qognify technology is the VGF (Verkehrsgesellschaft Frankfurt am Main), the operator of the tram and subway network in Germany's financial capital Frankfurt. As part of a modern, integrated security control center that combines alerting, response and documentation based on an ecosystem of closely integrated solutions, the video surveillance system based on Qognify VMS covers more than 500 camera channels at over 40 stations and locations. The solution is easy to scale and can grow with the customer's future needs.

Andreas Conrad
Vice President
of Marketing, Qognify
www.qognify.com

VIDEO SURVEILLANCE

Trains and Trams

The Transport Authority for Frankfurt am Main Has Implemented a Comprehensive Public Transport Security Solution

The Frankfurt transport authority (VGF) transports around 200 million passengers each year over its underground and tram networks with the help of some 2,600 employees and 400 vehicles

Almost 300 banks have their headquarters in Frankfurt – as well as the German Central Bank and the European Central Bank of course. The most populous city of the state of Hesse strives to provide an attractive environment for both people and commerce, fundamental to which is a comprehensive local public transport system. This is operated by the "Verkehrsgesellschaft Frankfurt am Main" (VGF), which transports around 200 million passengers each year over its underground and tram networks with the help of some 2,600 employees and 400 vehicles.

When passengers feel safe travelling on public transport it has a positive influence on acceptance and usage, in particular for the access points to the network. With Germany the host nation for the FIFA World Cup in 2006 and Frankfurt chosen as a host city, VGF had already invested extensively in a service and security center with an operations control system and integrated video and emergency call technology. However, the regulations for critical infrastructure and the requirements of the VGF had changed since then. Technological innovations also offered new opportunities.

◄ The new video system for the VGF uses IP cameras from Axis an video management software from Qognify

Modular Solution

The VGF therefore initiated the "Service and Security – Renewal, Migration and Expansion" (SuS-EME) project in 2017. An important element of this initiative was the renewal and expansion of the video system, since the technology available had advanced considerably in the meantime. It was also necessary to link threat detection directly with the capabilities of a modern operations control system. It was important to have quick and effective coordination of an incident together with the police, fire brigade and rescue services. The aim of the project was to create an all-encompassing solution with independent components in which all applications, from operations control to video management and a GIS (geographic information system), would communicate with each other via standardized interfaces. In addition, a modular structure would reduce dependency on individual suppliers and offer more scope for technical innovations.

VGF awarded the lead contract planning, including project support, to Genius Technology and Management Consulting, a planning office specializing in integrated control center and security technology in the KRITIS environment. Ulrich Matern, Managing Director of Genius TMC, accepted the challenge: "Due to the many operational and legal requirements and all the technical and organizational interfaces, the requirements for system planning were very complex. An essential aspect for the successful implementation

of the project was the high motivation of all project participants from planning to deployment. Practical workshops gave everyone involved a picture of the project goal at an early stage."

Punctual Implementation in Spite of the Pandemic

A tender published throughout the EU in 2019 led to the project being awarded to Hexagon in 2020 as general contractor and supplier of the operations control system. As a system integrator, vi2vi GmbH took on the renewal and expansion of the video system, using IP cameras from Axis and video management software (VMS) from Qognify. The basis for the project was a detailed specification drawn up in 2020.

The system conversion began in March 2021–under exceptional conditions, as Felix Müller, project manager at VGF, said: "Due to the travel and contact restrictions caused by the Covid pandemic, we had to carry out the project virtually with online collaboration tools and video conferences. Above all, the virtual factory acceptance test was particularly special: The system integrator set up a control center in his premises and simulated all processes in the operational control system and in the video management system. The content of all the screens was then transmitted in real time to the project team members. Thanks to the extraordinary commit-

incident is closed, it is transferred to a web-based digital log book. In this way, the VGF's internal investigation group can provide the police with relevant information in a prepared report. A database-based reporting tool also provides detailed statistics on recorded incidents that enable the VGF to continuously improve its reaction processes.

The solution is also innovative from a technical point of view – Felix Müller reports: "As a transport company, we are subject to the regulations for critical infrastructure. That is why it is particularly important to us to have standardization, fail-safety and reliability in our IT systems. For this reason, we operate both the operational control system and the video management in a fully virtualized environment in several data centers." When setting up the camera network, VGF also took care to ensure reliable and fail-safe solutions. Barox extenders that are designed for digital video systems were used. VGF currently operates around 500 camera channels for 27 underground and 16 above-ground stations as well as several properties and depots. They are managed and activated centrally in the VMS.

More Targeted and Effective Response

The system has been in use since the end of 2021. Felix Müller is very satisfied with the result: "We are aware that security tech-

An EU-wide tender published in 2019 led to Hexagon being awarded the project in 2020 as general contractor and supplier of the operations control system. ▶

ment of everyone involved and the highly solution-oriented cooperation, we were able to complete the project on time in December 2021, despite all the challenges."

Process-Oriented, Fully Integrated Control Center

Today, VGF is equipped with one of the most modern service and security control centers in public transport. All involved departments are connected through a uniform system structure and provide the best mutual support. The result is an innovative overall solution that guarantees the holistic, structured management of events based on predefined processes. Powerful video components help the staff in the control center to quickly and comprehensively assess the situation on site.

Most of the incidents processed by the team in the VGF service and security control center are reported by passengers via emergency phones at the stations and bus stops. An incident record is automatically created in the operations control system for each service or emergency call. Staff in the SuS control center who answer the call immediately see the exact location of the event on a map from the GIS in the operations control system. At the same time, images from nearby cameras are automatically displayed. This gives the employees a comprehensive overview of the situation at that location in real time. All the details of the incident can be quickly recorded in dynamic input templates. Depending on the type of incident, the operations control system displays a catalog of measures that must be processed step by step, which ensures a standardized and fast response.

The employees in the control center can also use the operations control system to alert nearby VGF security staff. The communication takes place via an app, avoiding any media discontinuity. Once the

nology cannot completely prevent criminal offenses. However, through the right measures and improvements to the individual system components, we can now act in a more targeted and effective manner. Thanks to the new operations control system, we were able to significantly improve the management of incidents. Significant success factors are the app for quick localization and coordination of the security service personnel and the digital log book for greater transparency and better cooperation with investigative groups and authorities."

The video system has also proven its flexibility: "We have already added further properties and more than 50 additional cameras to the video system beyond the original project. In further expansion stages, we expect a total of around 1,000 cameras in the medium term. Thanks to the open architecture, we can add new functions in future – for example, intelligent video analysis to measure passenger flows."

© Images: Stadtwerke Verkehrsgesellschaft Frankfurt am Main mbH (VGF

◀ Antwerp Fire Service refurbished their control room with hi-tech communication equipment

The Antwerp Fire Service chose Barco OpSpace, allowing the operators to control everything with a single mouse and keyboard ▼

EMERGENCY SERVICES

Control Room for Fire Department

Centralized Information Flow: Antwerp Fire Service Renews Their Control Room

The Antwerp Fire Service has no fewer than 700 operational, professional firemen. They are responsible for the basic tasks, but every fireman also has a dedicated specialty. The Antwerp Fire Service protects three municipalities: Antwerpen, Wijnegem and Zwijndrecht.

For more than 10 years, the dispatching control room at Post Noord has been the 24/7 heartbeat of the fire department. The outdated equipment got a complete overhaul when the Antwerp Fire Service refurbished their control room with hi-tech communications equipment. This control room now manages the entire fire department zone. Important information is given to the emergency vehicles, as interventions are dispatched via the control room.

To manage the constant flow of information coming from many different sources, the Antwerp Fire Service chose to implement state-of-the-art technology. This allows them to communicate the real-time information in a structured way to the control room operators.

Barco OpSpace

For the renovation of the control room, the Antwerp Fire Service chose Barco OpSpace, allowing the operators to control everything with a single mouse and keyboard. The application ensures that the control room operators can easily centralize the information flows.

The control room can now also easily send images to the crisis room, so collaboration between these two rooms is a lot easier. In this way, the staff can manage interventions more smoothly and

everything can easily be displayed on one screen. Barco OpSpace is also very scalable, which means that they can easily add or remove sources.

An Ergonomic Investment

The control room is manned 24/7, so it is important to invest in ergonomic solutions. There are always 4 operators on duty, so the area consists of 4 ergonomic desks. Due to the multifunctionality of the Creon Desk, it is possible to store the technical equipment at the bottom of the desks. This integrates with the clean desk principle of Antwerp Zone Fire department.

Fire Brigade Zone Antwerp chose to engage Play AV for the installation of the new control room because of the quality support and the professional guidance of the consultants.

SECURITY MANAGEMENT

FACILITY SECURITY

VIDEO TECHNOLOGY

PLANT SAFETY

Company Index

Imprint

Closing the Loop
on a True *8K* Experience

The first of its kind, Hikvision's **M-Series NVRs** record, decode, and output video in 8K resolution. They enable advanced applications and an outstanding user experience in environments where a wide field of view and premium-quality imagery are needed.

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8K Video Wall

8K NVR

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Hikvision Headquarters

T +86 571 88075998
overseasbusiness@hikvision.com

f @HikvisionHQ   @HikvisionHQ   in @Hikvision

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