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CUSTOMER MAGAZINE OF SCHRACK SECONET

01
APRIL 2022



# fire&care

# Editorial

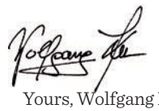
**Dear Customers and Business Partners,** We are presenting three very different international projects in this issue of fire&care: Erste Bank Serbia, which is bringing the security systems of all its branches under one digital roof with a completely new networking concept. The Basecamp student housing complex near Copenhagen, which sets new standards from the certified green building concept to the fire alarm system with its convenient app functions. The Medipol hospital in Istanbul, which takes sustainable energy use to a new level with our communication system.

As different as these three projects may be, they all impressively demonstrate the added value of digital solutions. Our concern was to be able to offer exactly the right concepts for very different needs. We are pleased that this has been successfully achieved in these projects and that we are able to present these best practices as part of the focus topic of this issue.

**Digital buildings of the future**
Immediately after, we present another extraordinary project: The Upper Austrian engineering firm Adenbeck has implemented almost everything that is possible today in terms of sustainable building technology in its new company headquarters. We see it as a special distinction that we were able to meet the high requirements and contribute to this high-level project with our fire alarm systems.

In an interview, two employees from Adenbeck also provide an outlook on digital progress in building and security technology: What solutions will enrich buildings of the future and what advantages are associated with them?

Digitalisation accompanies us right across all the articles in this magazine. I hope that you can gain something from reading this issue – whether it's the online or the print version, depending on your personal preference.



Yours, Wolfgang Kern

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PHOTO: PEPO SCHUSTER / ADENBECK

# Content



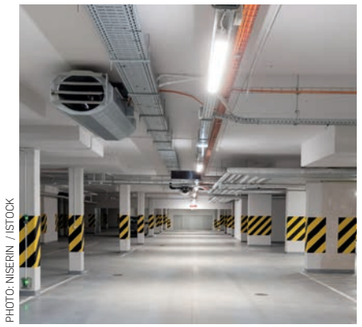


PHOTO: NISERIN / ISTOCK



***Daniel Liechti** is the new CEO of the Securitas Group as of 2022. He previously headed the Alarm and Security Systems Division, which also includes Schrack Seconet. The previous CEO **Armin Berchtold** is the designated Chairman of the Board of Directors and will take over as Chairman from June 2022. Here's a brief introduction of the two managers at the helm of the Securitas Group.*

# New Leadership at the Securitas Group

## Daniel Liechti

CEO Securitas Group as of 2022

**Date of birth:** 15/07/1972

**Training:** Studied electrical engineering at the University of Applied Sciences Solothurn Northwestern Switzerland (El. Ing HTL / Bachelor of Science), studied general management at the University of St. Gallen (Executive MBA HSG)

**Most important professional posts:** Witschi Electronic AG Securiton AG, ERNI Group, since 2019 with the Securitas Group as Head of Corporate Division A&S

**Languages:** German, French, English and "Bernese German"

**Family:** Married to Anita Schär Liechti, one daughter together (Stefanie)

**I can relax best when:** On the move – jogging or hiking in summer, and with two boards strapped to my feet in winter

**This invention would make my everyday life easier:** If the dishwasher could load and unload itself ...

**This is a topic that will occupy me a lot in the near future:** The availability of qualified personnel and electronic components and products, so that we can always serve our customers in the usual time and quality

**These are the major challenges facing the security industry in the next three years:** Digitalisation is both a major challenge and an opportunity. We need to offer our customers efficient and user-friendly solutions – Schrack Seconet is well on the way to achieving this

**I'm looking forward to this in my new position:** Making a difference, exploiting existing potential and exchanging ideas with exciting people

## Armin Berchtold

CEO Securitas Group, Chairman of the Board of Directors as of June 2022

**Date of birth:** 10/10/1965

**Training:** Studied business administration at the University of St. Gallen (Lic. oec. HSG)

**Most important professional posts:** IBM Switzerland and Europe (including at IBM's European headquarters in Paris), Mailsource Client (subsidiary of Swiss Post), since 2009 at Securitas Group (first as COO, then as CEO)

**Languages:** German, French, English and "Walliser German"
**Family:** Married to Astrid Berchtold-Furrer, three children (Laura, Carole, Remo)

**If the day had three hours more, I would:** Spend them with my family

**These values have always been important to me:** Having a down-to-earth attitude, clarity, openness, fairness, predictability

**I would like to pass on this experience:** Follow your heart and not your "wallet" – in other words: Pay attention to what you enjoy and where your heart is!

**I would like to meet this person:** I can't name anyone in particular for this one – I know enough great people in my private and business environment

**That's what makes the Securitas Group unique:** Diversity of topics, culture of a family business

**I'm proud of this success:** Success is almost always teamwork – I'm proud that I've succeeded in recruiting and retaining mostly good teams or staff over all these years

**As Chairman of the Board of Directors, I would like to pay special attention to this:** Having a long-term perspective when it comes to important decisions

PHOTOS: SECURITAS GRUPPE

# Smart Hospital

Several groups of companies operate hospitals in Turkey – Schrack Seconet has already delivered communication solutions for all of them. The latest project is the new Medipol University Hospital in Istanbul. A unique Green Hospital concept was developed for it. Medipol had special requirements for this prestigious public project, which were implemented together with a special approach that puts the focus on Visocall IP: Schrack Seconet's platform, which is directly connected to the hospital information system and the building technology, ensures an automated information flow of vital data and minimises energy consumption.

**Visocall IP Information Hub**

"We've already equipped seven other Medipol hospitals with Visocall IP and are pleased that we've been awarded the contract again for this showcase project – it's an important confirmation of the quality of our products," says Utku Yüksek, Head of Representative Office Schrack Seconet Turkey. For this hospital, Medipol had a special set of requirements – with the primary goal of avoiding unnecessary energy consumption. Schrack Seconet developed a customised solution for this purpose, and it can also serve as an exemplary model beyond the hospital. Visocall IP forms the central platform that accesses both the hospital information system and the building technology.

**Based on HL7 and KNX**

As soon as a patient is checked in at the hospital, the hospital information system automatically forwards the name and room number to Visocall IP via an HL7 interface. From here, the central energy supply for the room is automatically activated via KNX. Air conditioning and heating start operating, and the patient can switch on the lights or watch TV. The processes are similar for a transfer to another room or a check-out: The room's power supply is automatically interrupted within a defined period of time.

**No Unnecessary Energy Consumption**

This avoids unnecessary energy consumption; the systems are only in operation when they are actually needed by the patient or the staff. The hospital staff are equipped with RFID cards for this purpose. They simply hold their card to the reader in a room to activate the power supply. The system offers extensive and customisable options: from unlimited activation to automatic shutdown after a few minutes. This eliminates unnecessary energy consumption, for example, if someone forgets to switch off the lights.

"Medipol really challenged us with this project – we developed our own scenarios and software, which are unique in Turkey, for this hospital and set new standards for sustainable, green hospitals of the future," Utku Yüksek emphasises. The latest project is also a consistent continuation of the previous path, as Schrack Seconet was the first provider to implement IP-based communication systems in Turkey and is now one of the leading international providers in Turkey. ✱

> "We have developed our own scenarios and software, which are unique in Turkey, for this hospital and set new standards for sustainable, green hospitals of the future."
>
> Utku Yüksek,
> *Head of Representative Office Schrack Seconet Turkey*

PHOTO: XAVIER ARNAU, ICON: ILYALIREN / ISTOCK

For the new Medipol University Hospital in Istanbul, Schrack Seconet developed a unique green hospital concept that combines Visocall IP with the hospital information system and building technology.

PHOTOS: SCHRACK SECONET, MEDIPOL HEALTH GROUP

***Medipol University Hospital in Istanbul***

- *4 main buildings (general surgery, cardiovascular surgery, oncology and dentistry)*
- *58 departments, 260 outpatient rooms, 25 operating theatres*
- *515 inpatient beds, 140 intensive care beds*
- *Largest hospital of the Medipolitan Education and Healthcare Services Group*


***Turkey*** **Capital:** *Ankara* • **Population:** *83.6 million* • **Area:** *783,562 km²*

ILLUSTRATION: MATT JEACOCK / ISTOCK

# 87 locations centrally monitored in real-time

A digital security system that links different components at all locations in the country – that was the vision of Erste Bank Serbia.

Five years later, this idea has become reality – in 2022, the last remaining issues will be wrapped up. “In the security centre in Novi Sad, all the information from the systems for video surveillance, access control, fire protection, etc. is now coming together. From there, we can now collectively keep track of all the security systems and remotely controlled systems”, says Zoran Vrbašky, Business Development Manager at Schrack Seconet Serbia. The integration of the fire alarm systems into this intelligent concept is not something that can be taken for granted. Conventional solutions could not meet the complex requirements for digital networking of systems at the distributed locations across Serbia - but Integral WAN could. Schrack Seconet developed this completely new networking concept for precisely these applications.

“The quality of Schrack Seconet’s services really impressed us. Integral WAN helps us avoid many problems that we couldn’t adequately solve before in our distributed branch network in Serbia.”

Vladimir Mićić
*Head of Security Risk Management Service, Erste Bank Serbia*

**First Mover with Integral WAN**

A sneak peek at Integral WAN piqued the interest of Erste Bank. The proof of concept in a branch confirmed the viability of the concept, and this was the signal to start. “We used to have a lot of false alarms, and we often couldn’t respond to them appropriately. Remote access was also not possible. This prompted us to replace all analogue fire protection systems, thus achieving a new security standard,” says Drago Žunić, Head of Physical Security Unit. Erste Bank thus became a first mover on two counts: Up to that point, no other company in Serbia had such an innovative network, and internationally, Erste Bank was the first to opt for the new premium Integral WAN solution and its associated benefits.

**Smart command bridge for security technology**

All branches of Erste Bank in Serbia are now being successively added to the Integral WAN network – 87 locations are already connected. The individual branches are connected via the bank’s secure online lines. All the security systems are now controlled from the central control room at the headquarters in Novi Sad. There, symbols clearly show the status of all integrated systems. The personnel are immediately aware, in detail, of any situations that occur, and can take steps right away to provide an optimal solution. A redundant control centre in the second headquarters provides additional security.

**Addressable detection**

Secolog IP is used for monitoring the fire protection systems. The data from the branches is transmitted to this alarm management system via Integral Message. Detailed information is automatically provided for each alarm. The detector that triggered the alarm and the specific location, such as entrance, office, server room, archive or garage, are shown. In the data centre, an allocation down to rack level is possible. “A stored floor plan also shows the exact position on a map. This allows a fire to be localised immediately and precisely. Video surveillance even allows a real-time view into the room,” explains Zoran Vrbašky. Numerous controls can also be carried out remotely via the central operations control system, such as day and night switchovers, deactivation of sirens or decoy alarms, switching to service mode, etc. All processes are logged, so the system also provides more transparency.

Fire protection at Erste Bank Serbia is now integrated into a uniform, fully redundant overall system. The track record is clear for Vladimir Mićić, Head of Security Risk Management Service: “The quality of Schrack Seconet’s services really impressed us. Integral WAN helps us avoid a lot of problems that we couldn’t adequately solve before in our distributed branch network in Serbia.” ✱

PHOTO: DUŠAN BARTOLOVIĆ, ICON: ILYALUREN / ISTOCK

Erste Bank Serbia’s headquarters are located in Novi Sad. In its security centre, all information generated through video surveillance, access controls and fire protection converges

PHOTO: ERSTE BANK A.D. NOVI SAD

## *Serbia*

**Capital city:** *Belgrade*
**Population:** *6.9 million*
**Area:** *88,361 km²*


## *Erste Bank Serbia*

- *2005: Erste Group acquires Novosadska Banka, the country’s oldest financial institution*
- *Today: 87 branches across Serbia, headquarters still in Novi Sad*
- *Early entry into the digital era of security technology: Integration of all systems into one central control panel with real-time information 24/7.*

ILLUSTRATION: GT29 / ISTOCK

# Fire Protection – The Next Generation

PHOTOS: BASECAMP STUDENT

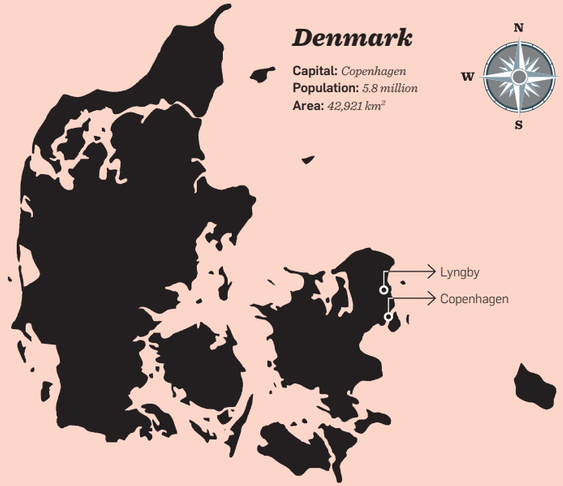



ILLUSTRATION: LUISRFTC / ISTOCK

### BaseCamp residential complex in Lyngby

- Buildings with gently rounded structures and up to six storeys
- 786 small and larger flats and circular community house
- Project developer: BaseCamp Group (several projects in Scandinavia, Germany, and Poland)
- 41,000 m² plot of land

PHOTO: LEO PATRIZI, ICON: ILYALIREN / ISTOCK

With more than 1,000 employees, EL:CON is one of the largest providers of electrical installations in Denmark. The company offers a comprehensive range of solutions for commercial and residential applications, from preventive fire protection to video surveillance.

**Urban & Sustainable Living**

That is exactly why EL:CON had the full-service competence that was required for BaseCamp's spectacular new student housing complex in Lyngby – the building technology company was commissioned to carry out all the electrical installations. In addition to 786 apartments, the complex also offers a circular community centre, a running track on the roof, and urban gardening areas. Not far from the Technical University in the north of Copenhagen, the project's flexible, intergenerational concept makes sustainable living possible not only for students, but for people of all ages. Photovoltaic modules and special façade insulation are essential elements of the green building concept. The high level of sustainability is documented by a BREEAM certificate (Building Research Establishment Environmental Assessment Methodology), which rates the impact as "very good" at global, regional, local, and indoor levels.

"Schrack Seconet's systems, with their overall design and redundancy principle, are very reliable and safe, which is why they were the clear first choice for us in this project. The customer has no false alarms, which of course they don't want, and they can rely on a smooth operation."

Flemming Jespersen
*Technical Division Manager at EL:CON*

**Integral Mobile: Always Informed**

For fire protection, EL:CON implemented an integrated system consisting of one component each for the common area and for monitoring the flats. "In total, more than 2,000 fully automatic fire detectors are installed in the apartment complex. We also use Integral Mobile," says project manager Flemming Jespersen, who works as a technical division manager at EL:CON. Jespersen and the two building technicians on site receive automatic notifications of any incident. This means that there is immediate information about every event. In addition, Integral Mobile also facilitates coordination between the client and the installer: "If there's a problem on site and the building technician calls me, I can immediately check what's going on via Integral Mobile," says Jespersen.

**Robust & Smart**

The system also includes numerous fire control systems. In the event of a fire, the lifts move to the ground floor, the ventilation systems are shut down and the photovoltaic system is deactivated. These automatic processes provide an additional important layer of safety. Jespersen is very familiar with the various fire alarm systems on the market – he is totally impressed with Schrack Seconet's solutions: "Schrack Seconet's systems, with their overall design and redundancy principle, are very reliable and safe, which is why they were the clear first choice for us in this project. The customer has no false alarms, which of course they don't want, and they can rely on a smooth operation." ✱

PHOTO: EL:CON

BaseCamp's new student housing complex in the north of Copenhagen blends harmoniously into the surrounding nature.

Using future technologies in the present was Adenbeck's credo for their new company headquarters in Wels, Austria. All the building technology systems are state of the art and make use of the numerous advantages of resource-saving systems. Schrack Seconet supplied the latest fire alarm, access control, and break-in alarm technology.

# The Office Building of the Future

PHOTO: PEPO SCHUSTER / ADENBECK



The concept for Adenbeck's new office building was co-developed with reliable partners and successfully completed after only ten months of construction time.

PHOTOS: PEPO SCHUSTER / ADENBECK

Two important questions were key to the planning of Adenbeck's new office building in Wels: In what spaces do the employees feel comfortable and how can the building be designed to be as efficient as possible? The result shows: Comfort and efficiency do not have to be mutually exclusive.

"We've integrated state-of-the-art systems for sustainable, technical building equipment into our building to achieve minimal energy consumption," explains owner Markus Adenbeck. Different innovative heating and cooling systems were used along with a photovoltaic system on the roof. Another important factor is the compact design of the three-storey company location, which was built with a total investment of about six million euros.

"We've integrated state-of-the-art systems for sustainable, technical building equipment into our building to achieve minimal energy consumption."

Markus Adenbeck
*Executive Partner*

**Innovative building technology expert**

"Since our company was founded, we've built up a great deal of expertise and helped shape building technology trends. All of this flowed into our office building on Welser Westring," says project manager Michael Hörtenhuber. Different systems were integrated – for example, ceiling sails for heating and cooling, suspended cooling ceilings, pipe systems with directly cooled well water, and a concrete core activation system that ensures a pleasant work environment. A continuous glass façade was not installed for energy reasons. The building envelope consists of a curtain wall, ecological thermal insulation, and an interior wall construction made of concrete with a high storage capacity.

The layout of the building was meant to be open, but also offer space and room for privacy and concentration. This was achieved by combining two and four-person offices with additional open-plan meeting points and inviting kitchens on each floor.

The high, light-flooded entrance area accommodates clients as well as staff and emphasises the clear building form.

**Complete rejection of fossil fuels**

Adenbeck draws its energy from the sun and groundwater and does not use fossil fuels. Groundwater is used for cooling in summer and for heating in winter. The energy footprint remains balanced over the course of the year. A ventilation system with highly efficient heat recovery supplies the building with 100 percent fresh air. The modern building technology also ensures consistently optimal lighting conditions at the workplace and low energy consumption with an innovative weather forecast control system, CO2-controlled air volume adjustment, fully automated lighting control, and weather-dependent blind control. Finally, there are six charging stations for e-cars in the outdoor area. Adenbeck's fleet already consists of several electric and hybrid vehicles.

**Security technology from Schrack Seconet**

The concept for the office building was planned with reliable partner companies and successfully completed in only ten months of construction. "Adenbeck and Schrack Seconet aren't just linked by their long-standing cooperation, but also by high quality standards. We're pleased that we were able to contribute solutions to three trades at once in this groundbreaking project," emphasises Niko Paralis, branch manager of Schrack Seconet Upper Austria. ✱

***This is Adenbeck***

The engineering firm Adenbeck was founded in 1996 in Wels and employs more than 100 people at five locations. More than 50 percent of the revenue is generated abroad. More than 2,000 projects have already been implemented worldwide. These include numerous logistics projects, pharmaceutical production plants, hotels, office buildings, universities, shopping centres, and hospitals. Adenbeck specialises in complex building technologies, electrical and fire safety technologies, as well as measurement, control, and steering technologies.

# The Digital Transformation of the Fire Alarm System

PHOTO: ERIKONA / ISTOCK



Schrack Seconet's new service platform brings the installation and maintenance of fire alarm systems into the digital era. "Our partners can now efficiently manage all systems and locations of their supervised sites via a clear dashboard. Six functionality bundles make it possible to provide even higher quality services", says René Türk, Head of Product Management Information Systems. The new service platform will be operated as a private cloud in our highly secure data centre; it launched in the first countries at the beginning of 2022. Other regions will follow gradually.

**The New Service Platform – a Head Start through Knowledge**

Partners can choose from three packages for the new service platform: "Free", "Basic" and "Premium", each of which combines different functions. The entry-level package is free of charge and already offers everything needed to manage a specific number of sites. The "Basic" and "Premium" packages enable different levels of expansion as well as more systems to be controlled digitally.

The first function set of the service platform provides Product knowledge management for Schrack Seconet products – with data sheets, installation manuals, certificates, etc. All content is always up to date, so the knowledge database forms a central source of information with reliable, current content.

**Higher Information Quality and Efficiency Gain**

The second functionality bundle, site management, provides a perfect overview of the supervised sites: All project information, programming, building plans, etc. are organised centrally. The information for each site is uploaded in a few minutes, and partners benefit immediately from the higher quality of information and the gain in efficiency.

Partners can improve the quality of their services enormously with the third bundle of functions: The automatic site analysis takes over the permanent check of all systems. A clear dashboard assigns all the results of the analysis to the three traffic light colours. Situations requiring action are identified at an early stage, and measures can be planned in advance. Another very convenient feature is that the service platform automatically provides all the information needed for system improvements.

**Complex changes made simple**

Another feature set is dedicated to the topic of extension and modernisation: The service platform displays compatible components for both software and hardware and gives sound recommendations on which components are needed for an extension. Complex changes can thus be remotely planned correctly and almost effortlessly without the need for time-consuming detailed research.

The fifth set of functionalities supports the entire maintenance process of a fire alarm system. The test report is filled out automatically (only in combination with a service router), and faults can be recorded even better with photo documentation. The test report is created immediately after completion. The integrated scheduling enables targeted preparation and handling of future maintenance measures.

"The new service platform makes our partners' daily business much easier. It brings an important competitive advantage to the quality of services and increases the availability of fire alarm systems. Our experience from Austria, where the functions were tested on thousands of systems in the course of a process lasting several years, flowed into the development" clarifies René Türk.

René Türk
*Product Manager for information systems at Schrack Seconet*

**Predictive Maintenance – All Events at a Glance**

Sixth, detailed event management provides a real-time overview of all messages from all systems across all functionalities. Based on the information of the system management, a compact overview shows the status or fault messages of all supervised systems. Predictive maintenance makes it possible to react immediately or to plan in a timely manner. The integrated functions for team organisation are another benefit: Tasks can be assigned digitally, and cooperation can be planned efficiently. ✱

***Service Platform: All 6 function sets***

- Product Knowledge Management
- Site Management
- Site Analysis
- Extension and Modernisation
- Maintenance
- Site Event Management

# d-LIST: Now even more Versatile

In industry, underground garages, and other places where the risk of fire is very high, it is often especially difficult to detect it. The linear heat detector LIST reliably detects fire and can locate it with pinpoint accuracy – even in places where other fire alarm systems are difficult to use. A new SCU 835 evaluation unit is now available for the d-LIST model that optimises its use even further.

PHOTO: NISERIN / ISTOCK

"The new model SCU 835 significantly extends the system's range of application."

Peter Bock
*Product Manager Fire Detectors at Schrack Seconet*

**Versatile Applications**

The d-LIST system uses a shorter and slimmer cable than the larger LIST model, making it suitable for medium and simpler projects. Up to now, two sensor cables including a supply cable with a length of up to 250 metres could be connected to one evaluation unit. "With the new SCU 835 model, a length of up to 350 metres is possible. This significantly extends the system's range of application," explains Peter Bock, product manager for fire detectors at Schrack Seconet. Direct communication between the SCU 835 and the fire alarm control panel is now also possible via the new MODBUS TCP protocol – a clear advantage for detailed data exchange.

The d-LIST system is ideal for shorter tunnels, underground garages, loading ramps, conveyor systems and industrial plants. It can also be used to monitor cable ducts and riser shafts. In addition, d-LIST can be used to check the ambient temperature of solar panels – the temperature can be adjusted if necessary, by cooling for example, thus optimising the efficiency. Schrack Seconet has already completed several projects with the new SCU 835 – for example at Ikea in Bangalore, India.

**Linear Heat Detector**

The d-LIST system is a resettable linear heat detector based on a sensor cable. Every ten seconds, the temperature is queried by the individually arranged sensors. Even a temperature increase of 0.1 degrees Celsius is registered. A fire alarm is triggered when either the temperature at a measuring point exceeds a threshold value or a defined temperature increase is registered over time. ✱

**Fact-Box**

The d-LIST system has been approved for the temperature response classes A1N, A2N, BN, CN by VdS according to EN 54-22:2020-07 (G 221004). The SCU-800-03-Ex evaluation unit is also available for use in potentially explosive environments. It is certified according to ATEX zones 2 and 22 and DNV-GL.



## TV Sets for a Good Cause

Use instead of waste – in keeping with this maxim, Schrack Seconet has donated about two dozen high-quality TV sets to a charitable organisation. The brand-new but out-of-date Philips models were left over from the warehouse and are now being put to practical use in a one-off campaign. "In the spirit of sustainability, we didn't want to destroy these appliances, but to put them to good use," says Markus Korunka, head of the Vienna office. The devices are now being used in residential or nursing homes.

## Hospital Technology Conference in Pörtschach

The Austrian Association of Hospital Engineers (ÖVKT) was able to catch up on the celebration of its 25th anniversary in 2021. After a year's break, the annual conference in Pörtschach was held in person again. Numerous participants learned a lot from the top-class lecture programme and enjoyed seeing familiar faces again and exchanging experiences.
Schrack Seconet was represented with an exciting contribution: Christoph Karl, Head of Product Management Communication Systems, spoke on the topic of "Smart maintenance – building technology in the digital age". The guests were also able to find out more about Schrack Seconet's solutions at the exhibition stand.


"Technology in health care – what was, what is, what will be?" This was the slogan of the conference of the Austrian Association of Hospital Technicians. Christoph Karl gave a lecture on the topic of maintenance.

## Preventive Fire Protection has a Name …

The Korean company SK has been manufacturing lithium-ion batteries for Hyundai since 2010. The plant in Komarom/Hungary is the first factory in Europe to produce third-generation battery cells using pouch technology. Solutions from Schrack Seconet are used in preventive fire protection.

"The second project phase of our SK battery factory in Hungary is nearing successful completion. The dedication of Schrack Seconet's employees was truly beyond exceptional. If I were asked to recommend a fire protection company anywhere in the world, it would definitely be Schrack Seconet."

**Jun Song** *Electrical Manager Hyundai Engineering Co., Südkorea*


PHOTOS: PROVIDED

## India: Product of the Year

Schrack Seconet received the FIST Award in India. The Fire & Security Association of India is the initiator of the industry award; Price Waterhouse Coopers is the knowledge partner. Schrack Seconet's fire protection solutions were chosen as the winner in the category "Product of the Year – Fire Detection" by an illustrious jury. "This award shows that we're moving in the right direction, and it motivates us to become even better. I've been involved with Schrack Seconet in India for twelve years. Our progress during this time has been tremendous, and the R&D team works tirelessly to develop the best products for our clients," emphasises Anubhav Guglani, Head India Region.

# From BIM to BUS

**fire&care — *What advantages do apps and other digital solutions bring to safety technology?***
**Klaus Pecherstorfer –** A major advantage of apps or digital solutions is constant, worldwide access to the system of the installations. Faults or alarms can be analysed in real time via tablet or mobile phone and managed via app control, as can the images of a video system. The possibility of push messages completes this offer. A mobile user interface enables easier, faster, and more flexible application and management.

**fire&care — *What advantages are associated with 3D or BIM planning?***
**Gabriel Anzengruber –**The most obvious advantage with BIM planning is the introduction of integral collaboration. Project teams can work together better across companies. The respective trades of all partners involved and interfaces are visible, and this is something that can be taken into consideration subsequently. The standardisation of processes and data structures is also a significant advantage. This improves cooperation and enables a more detailed planning service.

**fire&care — *What is the current situation with Building Information Modelling?***
**Gabriel Anzengruber –** There are still many challenges to overcome before the benefits can actually be used. A lack of rules, standards, and definitions is certainly one of the reasons for the slow dissemination. In addition, there are still organisational and technical challenges relating to the high level of detail and information content of BIM models. Necessary investments in BIM software, including maintenance and hardware costs, also represent a financial challenge. Finally, employees in planning offices and on construction sites have to be on board and get the requisite training.

**fire&care — *What is the significance of BIM in ongoing operation and subsequent use?***
**Gabriel Anzengruber –** A building planned, built and operated using the BIM method has advantages over its entire life cycle. The digital information can be used for ongoing facility management through the interaction of computer-aided facility management and BIM software. During operation, the data of the BIM components simplify the maintenance and replacement of components and, finally, also help with the dismantling and disposal of a building.

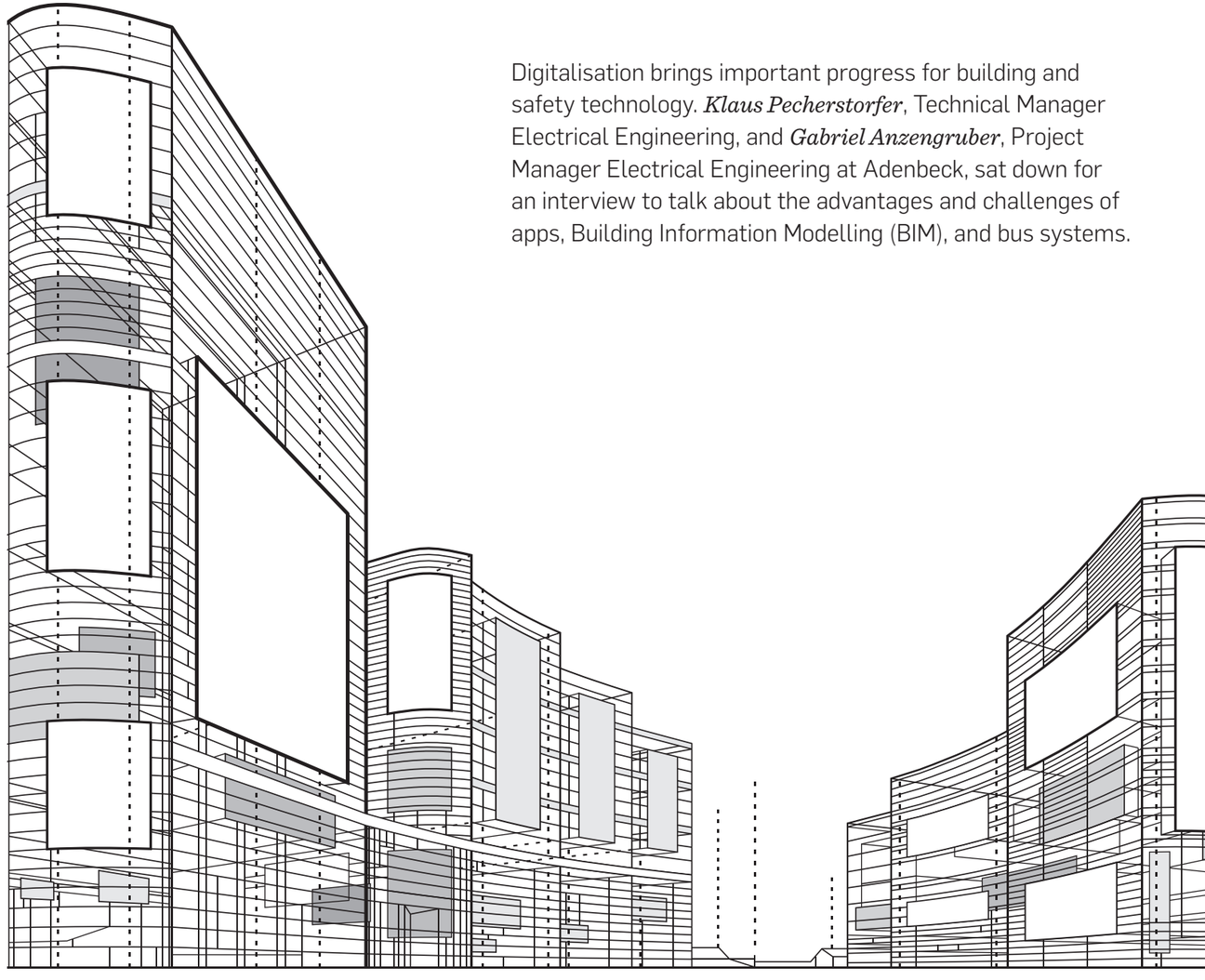
**fire&care — *What are the advantages of bus systems?***
**Klaus Pecherstorfer –** Bus systems significantly reduce the effort required for the installation of safety-related systems such as alarm systems and fire detection systems. The system can be adapted or modified without major effort. Previously separate systems or trades such as lighting, blinds, security technology (alarm system, locking system, etc.) in the private and industrial sectors can communicate with each other or be interconnected via bus systems. Data can be exchanged and used for control purposes. The number of household appliances that can be integrated into a bus system is also increasing in the private sector. At home, a bus system forms the basis for a modern "smart home". ✱

**ABOUT THE STAFF**
**Klaus Pecherstorfer** has been with Adenbeck since 2007 and, as technical manager, is responsible for the electrical engineering division.
**Gabriel Anzengruber,** electrical engineering project manager at Adenbeck, wrote his bachelor's thesis on BIM and 3D planning this year. We present the new headquarters of the building technology company on page 10 in this issue.

PHOTOS: ADENBECK



Digitalisation brings important progress for building and safety technology. *Klaus Pecherstorfer*, Technical Manager Electrical Engineering, and *Gabriel Anzengruber*, Project Manager Electrical Engineering at Adenbeck, sat down for an interview to talk about the advantages and challenges of apps, Building Information Modelling (BIM), and bus systems.



## WHAT WILL BE DIFFERENT WITH BIM?

The introduction of integral, cross-company collaboration is seen as the greatest advantage of BIM. This is also shown in the chart from Statista. Planning errors become visible and the accuracy of collision control increases. In addition, all components used can be automatically displayed in a parts list.

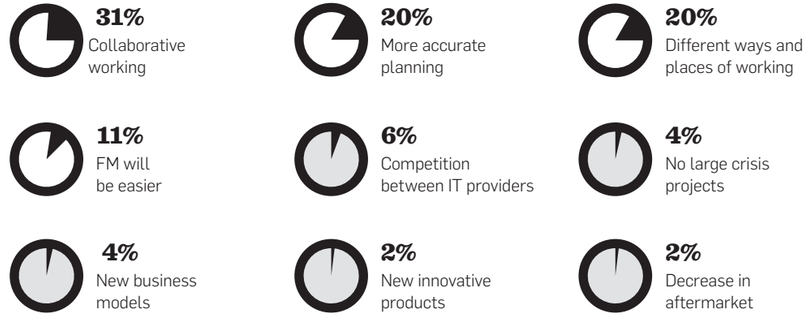



ILLUSTRATION: YEMKEO / ISTOCK

SOURCE: STATISTA

# MAJOR FIRE IN SCHNEEBERG: STATE-OF-THE-ART STANDARDS IN FIREFIGHTING

The forest fire at Mittagstein – Schneeberg – in Lower Austria was one of the country's largest fire brigade operations in recent decades. Within a few hours, the fire had spread from 5 to about 115 hectares. More than 186,000 operational hours were needed to extinguish the fire in a steep mountain forest, with modern technologies and knowledge of firefighting playing an important role. In an interview, Chief of Operations Josef Huber describes how the fire was fought and what caused it.

**fire&care —** ***What was the special challenge when it came to this fire?***
**Josef Huber —** The fire broke out in very impassable terrain; strong winds fanned it even more. The first measure was to prevent the fire from spreading by setting up barricades. The longer the operation went on, the more precisely we were able to detect the fire. One difficulty is that ground fires often develop underground.

**fire&care —** ***Are thermal imaging cameras of any help with such embers below the top layer of soil?***
**Josef Huber —** Yes, helicopters were able to locate hot areas very well with thermal imaging cameras. Ground crews then used these geo-referenced images to fight the hot spots. It was extremely exhausting, as the firefighters were equipped with a backpack containing 19 litres of water and heavy tools for working the soil.

**fire&care —** ***Lower Austria has recently devoted special efforts to fighting forest fires. What was the motivation for this?***
**Josef Huber —** Neunkirchen and Wiener Neustadt are particularly endangered districts, so we've been dealing with forest fires here for a long time. Two years ago, together with the provincial fire brigade commander Dietmar Fahrafellner, we started to address the issue in more detail, and we also went to Portugal for this purpose. As a first step, we invested in equipment and purchased special vehicles for fighting forest fires, as well as special, lighter hoses and special tools for working the soil. As a second step, we set up our own special service unit, which already has 200 people with special technical and tactical training. The first new vehicles had just been delivered; the fire in the Schneeberg area was their baptism of fire.

**fire&care —** ***What caused the fire?***
**Josef Huber —** The fire was caused by a foreign ignition source; by an illegal bonfire. People are too careless; cigarettes and campfires don't belong in the forest. Something small can have a devastating effect.

**fire&care —** ***Will there be more fires in the coming years due to climate change?***
**Josef Huber —** Statistics from Vienna's University of Natural Resources and Life Sciences clearly show that climatic changes have already occurred. Unfortunately, this means that we must expect an increase in wildfires and forest fires. Forests are becoming drier; the fire in the Schneeberg area also started on a southern slope that was extremely dry. ✱

PHOTO: NÖLFV/FISCHER

**BACKGROUND**
Provincial fire chief **Josef Huber** is the District Fire Chief of Neunkirchen and thus presides over the 90 volunteer fire brigades in the district. He was Head of Operations at the forest fire in the Rax area in October and November 2021.

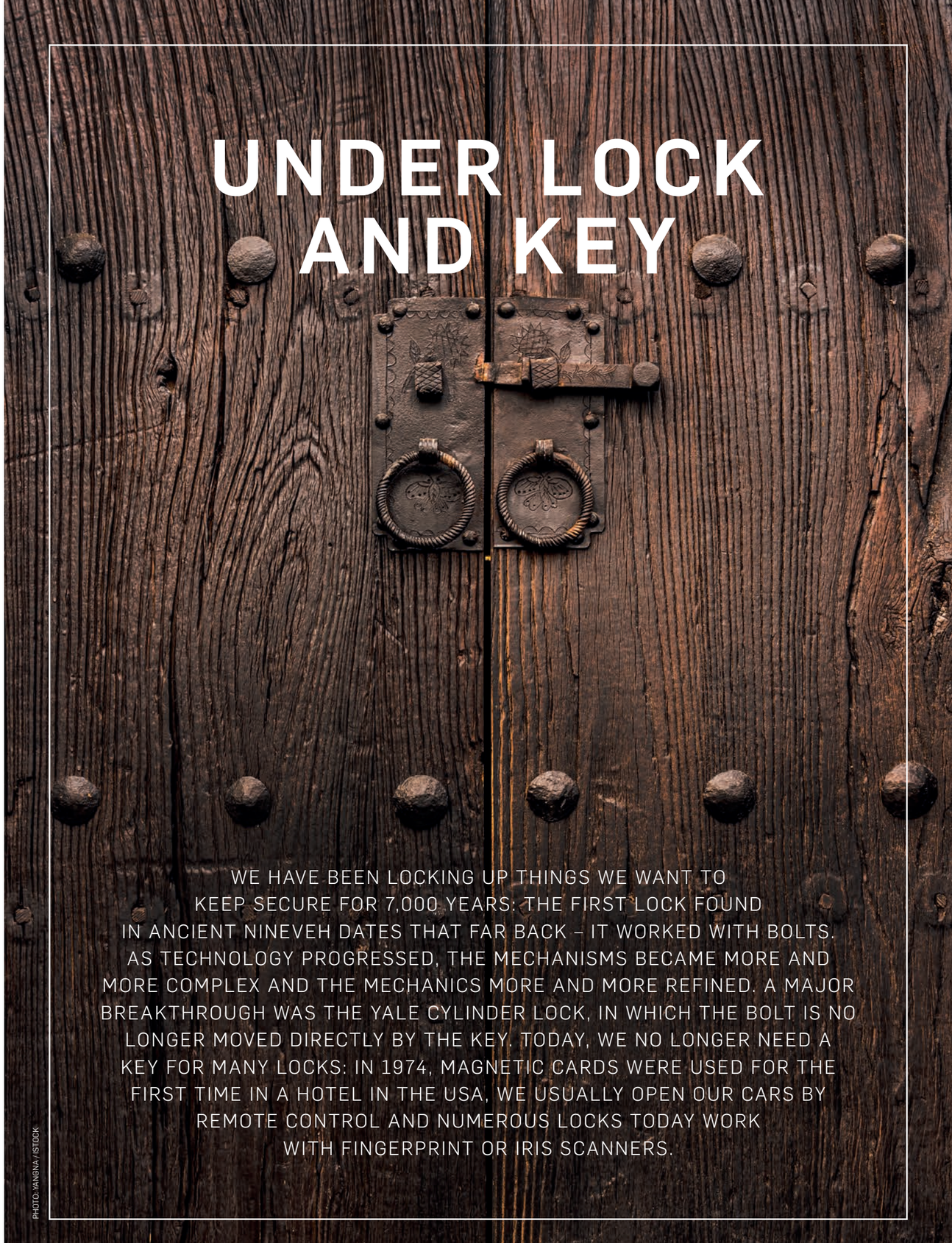


PHOTO: YANGNA /ISTOCK

# UNDER LOCK AND KEY

WE HAVE BEEN LOCKING UP THINGS WE WANT TO KEEP SECURE FOR 7,000 YEARS: THE FIRST LOCK FOUND IN ANCIENT NINEVEH DATES THAT FAR BACK – IT WORKED WITH BOLTS. AS TECHNOLOGY PROGRESSED, THE MECHANISMS BECAME MORE AND MORE COMPLEX AND THE MECHANICS MORE AND MORE REFINED. A MAJOR BREAKTHROUGH WAS THE YALE CYLINDER LOCK, IN WHICH THE BOLT IS NO LONGER MOVED DIRECTLY BY THE KEY. TODAY, WE NO LONGER NEED A KEY FOR MANY LOCKS: IN 1974, MAGNETIC CARDS WERE USED FOR THE FIRST TIME IN A HOTEL IN THE USA, WE USUALLY OPEN OUR CARS BY REMOTE CONTROL AND NUMEROUS LOCKS TODAY WORK WITH FINGERPRINT OR IRIS SCANNERS.