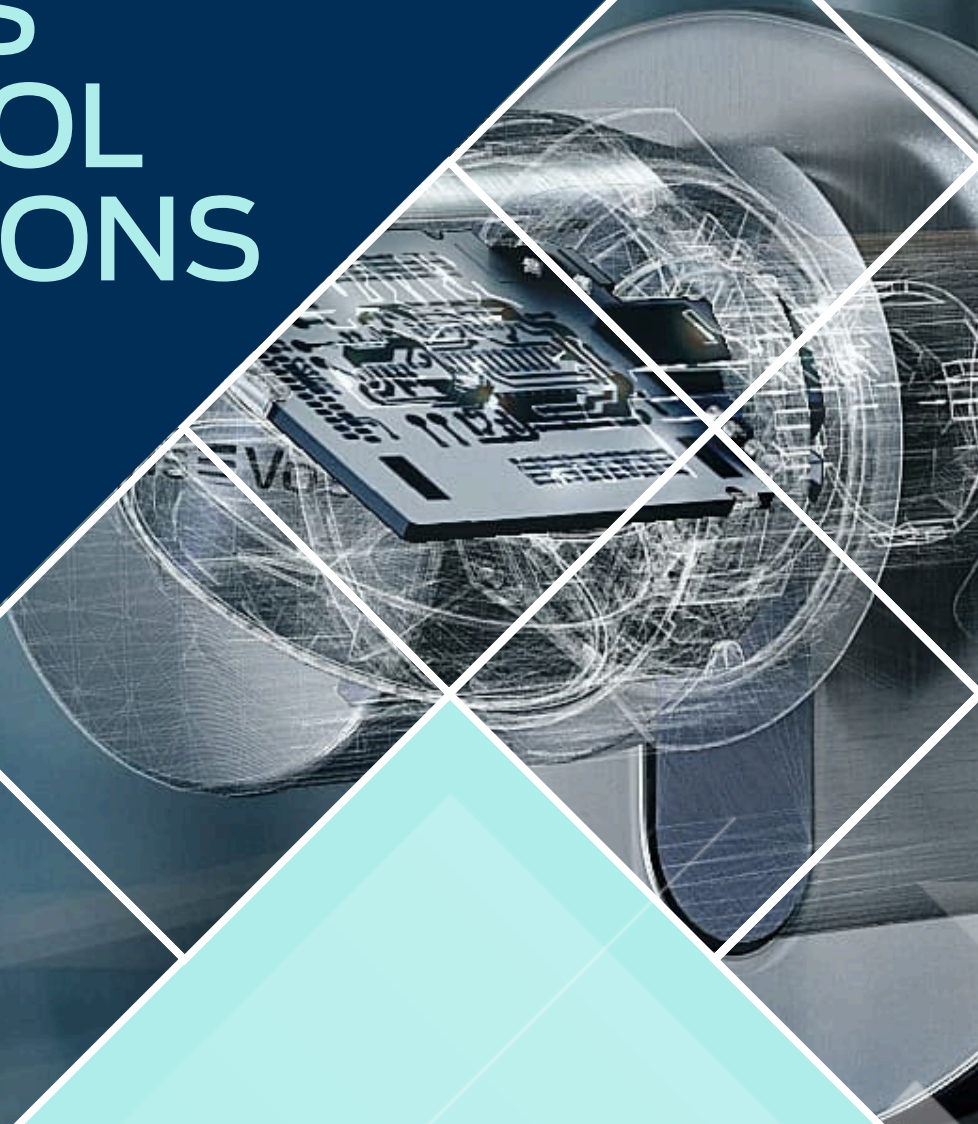


# INNOVATIVE ACCESS CONTROL SOLUTIONS



**A KEYLESS WORLD = ENHANCED SECURITY,  
FLEXIBILITY AND TRANSPARENCY.**

# Table of Contents

## INTRODUCTION

About SimonsVoss	3
Why SimonsVoss	4

## DIGITAL LOCKING AND KEYLESS ENTRY

Digital locking & keyless entry: a modern, secure and flexible version of access control	5
What are digital locking systems?	6
Advantages and disadvantages of common locking systems	7
Unlock the Future: Discover the Advantages of Digital Locking Systems	8
How does a digital locking system work?	9

## SIMONSSVOSS SOLUTIONS

Digital Locking Systems: Everything You Should Know	11
The benefits of using transponders	12
Cylinder or door handle – what do you need to consider?	13
Cost Comparison: What's the difference?	14
Offline, virtual or fully networked – which variant fits me best?	15
The key benefits of full networking	16
Unlocking Cost Savings with Digital Locking Systems	17

## RESULTS

Access control in an office building	18
Partnering with SimonsVoss	20

# About SimonsVoss

## Step into the Keyless World!

For over 25 years, we've been realising the vision of a keyless world, making your life and work safer, more comfortable, and more economical. By revolutionising traditional mechanical locking systems with digital technology and integrating additional functions, we've transformed access management into intelligent security that is easily scalable and cost effective.

No person, business or organisation has been spared from the rapid increase in the cost of living in the UK. The annual rate of inflation reached 11.1% in October 2022, a 41-year high, before easing in subsequent months to 10.1% in January 2023. The increase has affected the bottom line of many businesses resulting in cost saving being a priority for everyone.

While balancing new budgets with increased costs, businesses are expected to provide the same products and services without increasing their prices. When looking to reduce spend and make budgets go further, it's important not to let one objective skew another. When cutting costs, don't try to cut corners by investing in cheaper products because further down the line, you'll have to replace them again, doubling your spending.

With our unwavering commitment to simplicity, technology, and reliability, we offer sustainable solutions tailored to individual security needs. From complex security structures to the touch of a button, our modular and low-maintenance systems meet the highest standards of design and quality. Our systems are simple and straightforward to use, proving that secure systems can be safe without being complicated.

Join us and become part of the keyless world as an employee, customer, or partner, where innovation thrives and movers and shakers are always welcome.

**Bruce Donald**  
**National Sales Manager UK & Ireland**



“

*For over 25 years, we've been realising the vision of a keyless world, making your life and work safer, more comfortable, and more economical.*

”

# Why SimonsVoss?

German-made  
quality  
European  
technology  
leader

Founded in 1995  
25+ years'  
experience

ISO 9001/14001  
and VdS  
certified

Installed  
average of  
2,500,000  
locking devices  
and 7,000,000  
transponders

## Meet The Team



Bruce Donald  
National Sales  
Manager UK &  
Ireland



Stuart Mowat  
System Support

## Our Philosophy

The finest in KEYLESS Security

- A single system for everything
- Open system platform
- Matched to customers' needs
- Optimum security
- Clear planning
- User-friendly and flexible
- Easy Installation
- Plug-and-play version
- Low operating costs





# Digital locking & keyless entry: a modern, secure and flexible version of access control

Estate and security managers face several challenges with access control, particularly in business premises where they need to manage multiple sites. Providing the public and employee access to various spaces can be tricky and has the potential to impact employee productivity and safety if access control is not planned down to the smallest detail with precisely defined rights of access for both internal and external doors.

Facilities managers, estate managers, and security personnel grapple with the complexities of managing access for diverse stakeholders, including employees, contractors, and the general public. Traditional locks simply can't keep up with the demands of modern access control.

SimonsVoss digital locking solutions offers a cutting-edge technology to address these challenges head-on. With robust security features and seamless integration, it provides secure access control while adhering to data protection laws and accessibility standards. Its flexibility allows for easy management across multiple sites, ensuring tailored solutions for each unique environment.

Plus, with straightforward maintenance and upgrade options, it ensures ongoing security and reliability for years to come.

**SimonsVoss offers realistic and  
reliable solutions that can be  
customised to your specific needs.**

# What are digital locking systems?

Digital locking systems, also known as electronic or smart locks, are security systems that use electronic or digital components to control access to a building, room, or property. Unlike traditional mechanical locks, which rely on physical keys, these systems use electronic methods such as keycards, PIN codes or smartphone apps to grant or restrict access.

## Why should you transition to digital locking systems?

Digital locking systems are the future of key management

Conventional mechanical and electronic cabled systems are still the most common method of locking doors and gates. However, these very often can't meet the complex demands made on today's access control. The solution is digital and cable-free: offering you more flexibility, security and convenience.

Let's talk advantages and disadvantages.



# Advantages and disadvantages of common locking systems

DIGITAL LOCKING SYSTEMS	ADVANTAGES	DISADVANTAGES
MECHANICAL LOCKING SYSTEMS	No cabling required	<ul style="list-style-type: none"> <li>• Inflexible – no subsequent modifications possible</li> <li>• High costs if keys are lost</li> <li>• No control over keys being passed to third parties</li> <li>• Lost keys always involve replacing locking cylinders or even the entire locking system</li> </ul>
ELECTRONIC CABLED LOCKING SYSTEMS	<ul style="list-style-type: none"> <li>• Access control functions: who's allowed to go where and when?</li> <li>• More flexible than mechanical systems</li> </ul>	<ul style="list-style-type: none"> <li>• High investment costs</li> <li>• Laying the cables is laborious</li> <li>• Retrofitting or extending the system is very complex</li> </ul>
DIGITAL LOCKING SYSTEMS	<ul style="list-style-type: none"> <li>• No cabling required</li> <li>• Integration into facility management</li> <li>• Control and monitoring functions</li> <li>• Offline, partially networked and online</li> <li>• Low operating costs</li> <li>• A high level of security</li> </ul>	High initial investment costs

# Unlock the Future: Discover the Advantages of Digital Locking Systems

We're living in the era of digital transformation. It's not surprising that digital technology is now transforming locking systems. Electronic "keys" and locking cylinders outperform mechanical models by a wide margin, because they can do more than just lock and unlock. They offer much more security, flexibility and convenience, and are more economical in the long run.

## EASY AND QUICK INSTALLATION

- Electronic cylinders are just as quick and easy to install as their mechanical counterparts.
- No electrical connection necessary – installation doesn't require cabling

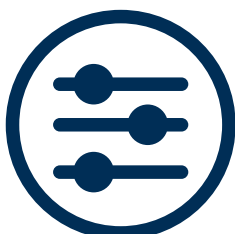


## ONE ACCESS MEDIUM FOR ALL LOCKS

- All locks, e.g. door cylinders, locks on barriers and lifts, can be operated with a single digital "key".
- Suitable for all types of doors, lifts, roller doors and lockers.

## NO PROBLEM IF KEYS ARE LOST

- Lost or stolen electronic "keys" can easily and quickly be blocked in the software remotely
- Expensive and complex replacement of keys and cylinders becomes a thing of the past



## MORE CONTROL AND HIGH SECURITY

- The rights of key owners can be individually defined.
- User permissions can easily be added or removed with a click of a mouse.



# How does a digital locking system work?

## 3 Options for a Keyless World

System 3060	Smart Intego	MOBILEKEY
Digital locking solutions for large enterprises and public institutions	Integrated access control systems	Locking solutions for small and medium sized commercial units and properties with a maximum of 20 doors.

## 3 Steps to a Keyless World

Transponder or SmartCard?	Cylinder or SmartHandle	Networked offline, virtual or direct?
Choose your identification medium which is ultimately your digital key.	You decide which locking component best suits your building.	Our systems provide the individual solution for your security and organisational requirements.

# How does a digital locking system work?

## So how does all of this work together in one digital locking solution?

### Digital locking components

The different components have the capability to identify those who have authorisation to access. It also carries out all monitoring and control functions for the specific door.

Digital Cylinder  
AX Digital  
SmartHandle  
3062  
Digital  
SmartRelay  
Digital  
SmartLocker AX

Transponder  
SmartCard  
Smartphone  
Pin Code Keypad  
Smart Tag

### Identification Media

The chosen identification media bundle the access rights of their owner. If authorisation exists, an identification signal is all that is needed to open and close the door concerned.

### Central System Control

User authorisations are easily managed centrally via the access control software, and are transmitted to the digital locks and identification media.



# Digital Locking Systems: Everything You Should Know

## Smart card vs transponder – which digital key is better?

SmartCards are “passive” locking media.

These plastic cards have an integrated chip but don't have their own power supply (RFID technology). They draw their energy for the data transfer from electronic readers (locking cylinder or relay) by induction. The data is transferred as soon as the card is less than 1 cm away from a reader



Transponders have their own power supply in the form of a battery. The data transfer to the reader must be actively triggered by pressing a button. This increases security by helping to prevent identification data being read by unauthorised parties.

Each digital key has its strengths depending on its needed application. Transponders generally offer more advantages than smart cards. Our extremely robust and aesthetic transponders are “active” access media. They offer high performance, while consuming little power. However, if MIFARE® RFID cards are already being deployed by an enterprise, e.g. as company IDs or for timesheet records, it makes sense to integrate them into SimonsVoss locking systems, too .

# The benefits of using transponders

## ROBUST DESIGN

- Transponders are extremely durable. They last for years.
- Smart cards that aren't handled with care can stop functioning correctly.

## EASY LOCKING

- Transponders transmit up to 40 cm; with a smart relay, they even cover distances up to 20 cm. This makes locking very easy.
- In contrast, smart cards must be held close to the reader – often a less convenient solution when opening barriers, for example.

## EXTREMELY LOW POWER CONSUMPTION

- Chip cards are powered by energy-intensive induction.
- Transponders, on the other hand, have their own batteries. These enable them to carry out up to 400,000 locking operations, making them basically maintenance-free.



# Cylinder or door handle – what do you need to consider?

Our digital locking cylinders are an economical standard solution offering excellent performance. These smart all-rounders fit almost everywhere. The SimonsVoss SmartHandle, our digital door fitting, comes with integrated locking technology. This means that the handle only needs to be pressed to open the door – the cylinder doesn't have to be unlocked with a thumb turn first. So, the SmartHandle is particularly suitable for connecting doors used very frequently.

## VERY FLEXIBLE

- SimonsVoss compact cylinders can be installed in all standard doors.
- With their attractive design, they are aesthetically pleasing in any setting.



## FOR ALL PURPOSES

- Whether it's separating doors without handles, doors on laboratory cabinets or exterior doors that resist wind and weather – there's a cylinder suitable for every specific application.

## QUICK INSTALLATION

- Whether it's an initial fitting or retrofitting: installing a locking cylinder is quick and uncomplicated.
- No changes to door, escutcheon or handle necessary.



## COST EFFECTIVE

- Digital locking cylinders offer outstanding value for money.
- The costs for purchase and installation soon pay off.

# Cost Comparison: What's the difference?

Let's consider the electricity costs of an electronic mag lock vs SimonsVoss SmartHandle AX. When it comes to keeping your facilities secure, every penny counts.

Electronic mag locks not only consume electricity constantly but also rack up a hefty bill, with a yearly cost of £357.70 per lock.

## The math:

### Electric Mag Locks:

- Uses 0.25A on a 24VDC power supply. This equates to 0.0006 kilowatts or 0.144kWh over 24 hours. typical unit rate for 1 kWh in England was £0.27, so the cost for 1 day is £6.84.
- $£6.84 \times 0.144\text{kWh} = £0.98$  per day
- $£0.98 \times 365 = £357.70$  per year for each electronic mag lock.

In contrast, SimonsVoss SmartHandle AX operates on four cost-effective CR2450 lithium batteries, ensuring your peace of mind for up to 7 years at a mere £1.28 per year.

## The math:

- 4 CR2450 lithium batteries at £8.90
- Standby battery life is 10years – our research shows our products are in standby mode for 96.6% of the time.
- If you get a minimum of 7 years battery life, it means it's going to cost £1.28 per year!  $£8.99/7 = £1.28$
- You'll save a substantial £338.17 per year, per door, all while maintaining top-tier security.

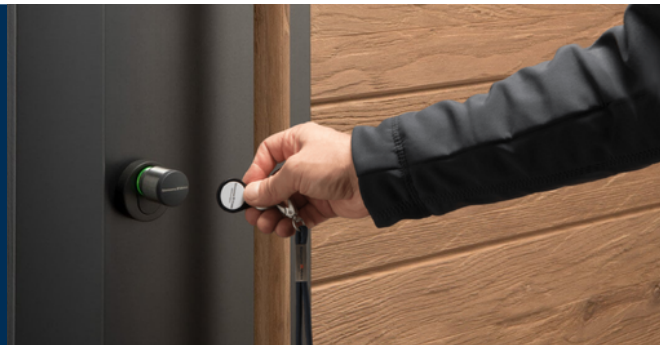
The choice is clear - efficiency and savings with SimonsVoss.

# Offline, virtual or fully networked – which variant fits me best?

How should the components in your locking system be connected?  
Offline, virtually, online?

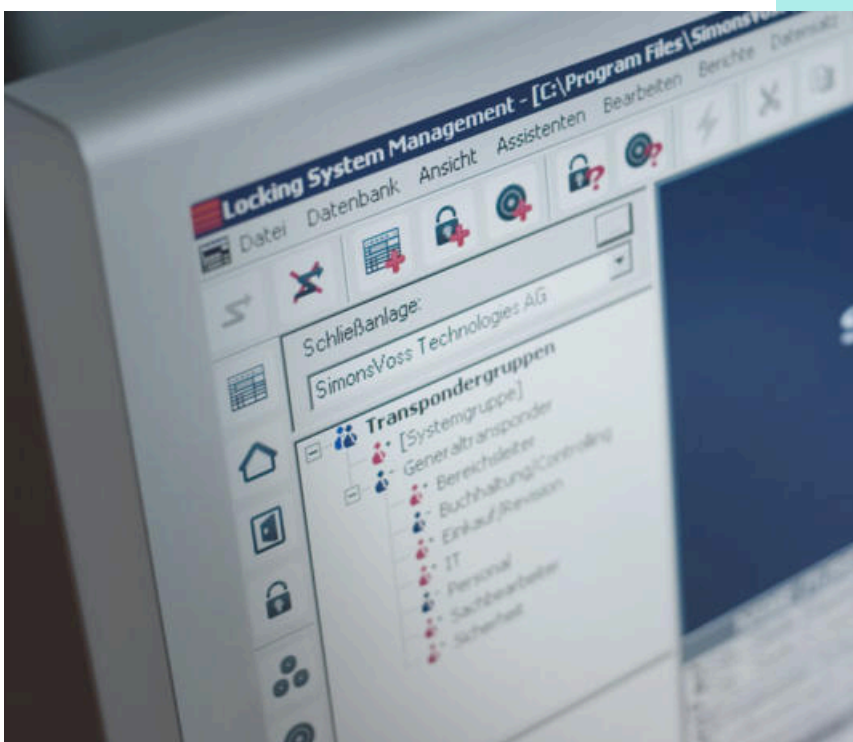
Offline means that the components aren't networked. Changes in the locking plan must be transmitted to the relevant lock by physically using a programming device or transponder.

In virtual networks, data is exchanged via gateways installed in the entrance area. These transfer the access authorisations, for example, to transponders and cards.



In online networks, all locks are connected to the central control system wirelessly – the prerequisite for real-time data exchange.

And the best thing is: in the SimonsVoss System 3060, you can combine all three variants!



# The key benefits of full networking

## IMMEDIATE RESPONSE

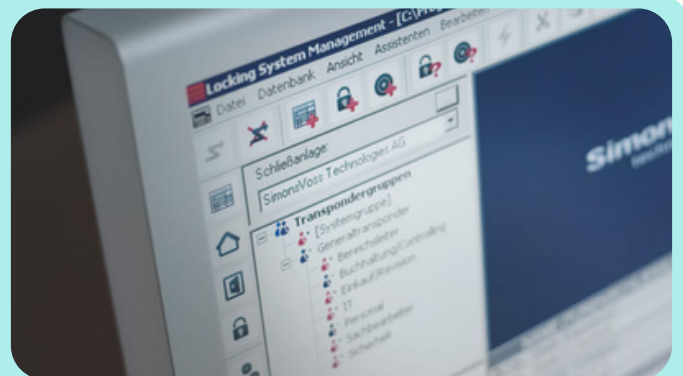
- If an access medium is reported as lost, it can be blocked online immediately.
- In contrast to virtual networks, changes can be made in real time.
- In panic or emergency situations, the components can be centrally controlled in the section of the building concerned.

## SIMPLY MORE ROBUST

- Fully networked systems are less complex than virtually networked systems. This increases system stability.
- Operation and use of the fully networked variant can be learned quickly – specialist know-how isn't required.

## EVERYTHING'S UNDER CONTROL

- All system administration tasks can be carried out centrally.
- These include querying door and battery statuses, reading physical access lists, and modifying configurations on the locks.



## SATISFIED USERS

- Access authorisations are always up to date.
- Going long distances, to get the current access rights from special gateways, are a thing of the past.





# Unlocking Cost Savings with Digital Locking Systems

## Electricity costs

**Automated Operations:** Programmed to automatically lock and unlock doors, eliminating manual efforts and reducing costs associated with staffing for door management.

**Building Automation Integration:** Seamlessly integrates with building automation systems to optimize energy usage, automatically adjusting lighting and HVAC systems based on occupancy patterns.

## Reduced risk of theft and vandalism

**Enhanced Security:** Offers superior security compared to traditional locks, deterring theft and vandalism with advanced anti-pick mechanisms and remote management capabilities.

**Remote Management:** Allows for remote management via software, enabling quick response to emergencies and security breaches to prevent theft.

**Access Control:** Provides precise control over access permissions, limiting entry to specific areas or individuals to protect high-value assets from theft.

**Integration Capabilities:** Easily integrates with other security systems like cameras and alarms, enhancing security measures and deterring theft with a comprehensive security solution.



# Access control in an office building



## NO MORE FEAR KEY LOSS

- ❖ The facility manager creates a replacement transponder (digital key)
- ❖ The employee collects this
- ❖ The lost transponder is automatically blocked when the replacement transponder is used in the locking system for the first time
- > Security is restored



## MAINTENANCE/REPAIR

- ❖ Give tradespeople temporary access to service and administrative rooms
- ❖ Only one transponder instead of many keys



## THEFT PROTECTION

Always securely locked:

- ❖ Office rooms
- ❖ Administrative and service rooms
- ❖ Archive rooms
- ❖ Basement entrance/bike storeroom

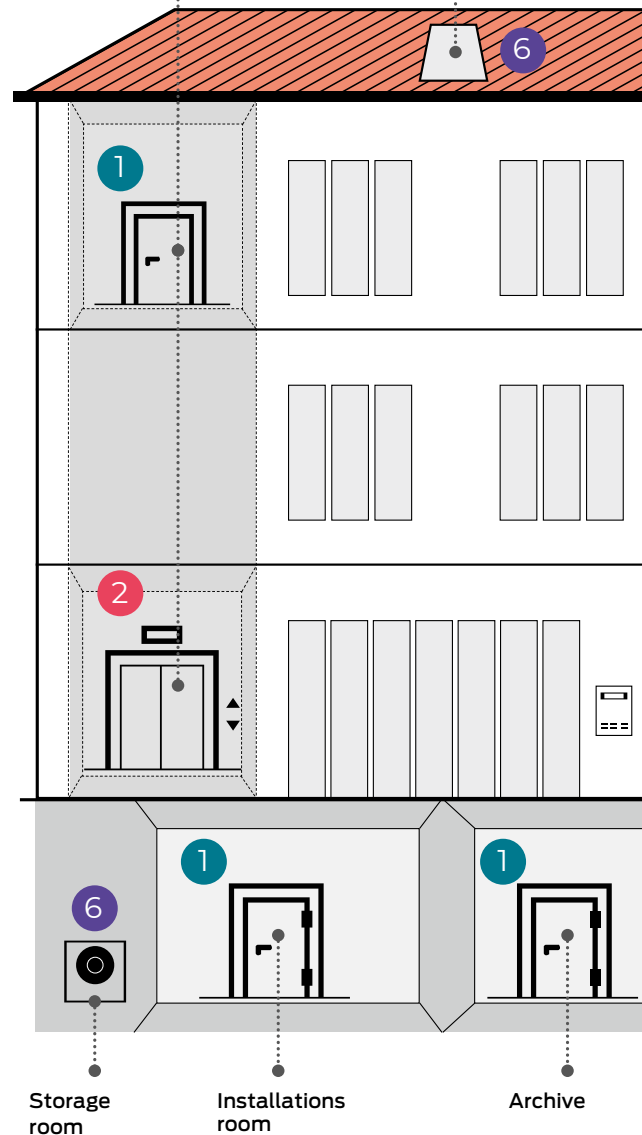


## SECURE ROOMS AT RISK OF FIRE

- ❖ Better protection for installations room, storage room and lift machine room, for example
- ❖ An interface to the alarm system is possible

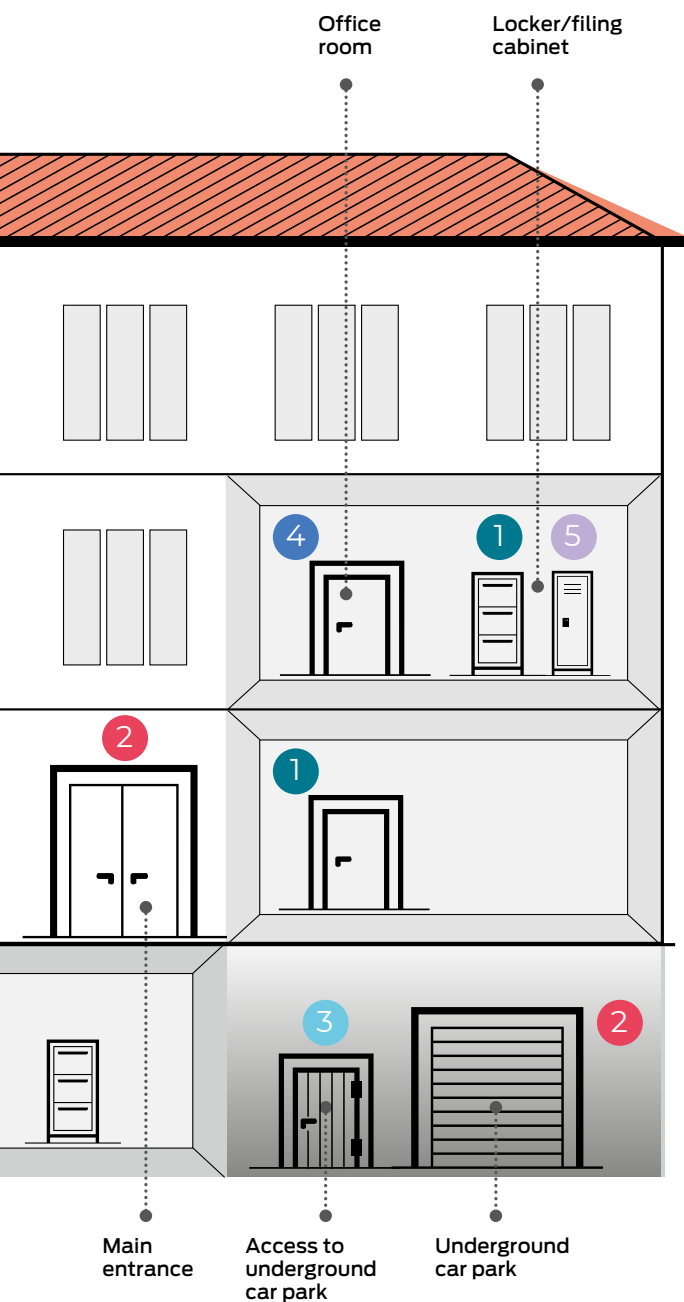
Lift +  
machine  
room

Maintenance  
window for roof  
work



## FILING CABINETS AND LOCKERS

- ❖ Protect filing cabinets with digital half cylinders against unauthorised opening
- ❖ Secure storage of valuables in lockers with our digital SmartLocker AX



## MAIN ENTRANCE

The main entrance is only open to everyone during official opening hours. At all other times, it can only be opened with an authorised identification medium.

## KEY ADMINISTRATION



Access rights are assigned by the facility manager with the aid of the software.

## BARRIERS/UNDERGROUND CAR PARKS









All entrances without their own locks are secured by smart relays. These can operate barriers, roller doors or lifts, for example.

## DOOR WITH MONITORING



Door Monitoring registers open and unlocked doors online and issues a warning in the case of critical events.

## DIGITAL LOCKING COMPONENTS

- 1  Digital locking cylinder
- 2  Digital smart relay
- 3  Digital door fitting for exterior doors
- 4  Digital door fitting for interior doors
- 5  Digital locker lock
- 6  Digital padlock

# Partnering with

# SimonsVoss

technologies

**SimonsVoss has been working with local authorities here in the UK for 15 years and counting.**

Each of our partners is guaranteed the same personal attention as we strive to provide everyone with the ultimate best products, supported by our outstanding service levels.

We'll be glad to show you the advantages of a SimonsVoss digital locking system using your individual, project-related requirements as an example.







## This is SimonsVoss

SimonsVoss, the pioneer in remote-controlled, cable-free locking technology provides system solutions with a wide range of products for SOHOs, SMEs, major companies and public institutions. SimonsVoss locking systems combine intelligent functionality, high quality and award-winning design Made in Germany. As an innovative system provider, SimonsVoss focuses on scalable systems, high security, reliable components, powerful software and simple operation. As such, SimonsVoss is regarded as a technology leader in digital locking systems. Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide ([www.allegion.com](http://www.allegion.com)).

### Made in Germany

SimonsVoss is truly committed to Germany as a manufacturing location: all products are developed and produced exclusively in Germany.

SimonsVoss Technologies GmbH  
Feringastrasse 4  
85774 Unterföhring  
Germany  
Tel. +49 89 992280  
[info-simonsvoss@allegion.com](mailto:info-simonsvoss@allegion.com)  
[www.simons-voss.com/en](http://www.simons-voss.com/en) | [www.allegion.com](http://www.allegion.com)

SimonsVoss Technologies GmbH  
SimonsVoss Technologies Ltd  
1200 Century Way  
Thorpe Park, Colton, Leeds, LS15 8ZA  
Great Britain  
Tel. +44 113 2515 036 uk-  
[simonsvoss@allegion.com](mailto:simonsvoss@allegion.com)

PD.ASSISTED-LIVING.EN.MM – 2021.10

© Copyright 2024, SimonsVoss Technologies GmbH, Unterföhring.

All rights reserved. Text, images and diagrams are protected under copyright law.

The contents of this brochure must not be copied, distributed or modified. You can find mandatory technical data in the system manual. Subject to technical changes.

SimonsVoss and MobileKey are registered brands belonging SimonsVoss Technologies GmbH.

