Simons≡Voss
technologies

SYSTEM 3060

Digital locking systems with access control

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ENTER!

Open flexibly, lock securely, manage easily.

Only digital systems are able to meet such requirements for contemporary locking technology. They link doors, gates and barriers to a centrally controlled system. Lost keys no longer mean security vulnerabilities. Programming makes replacing expensive keys and locking cylinders unnecessary. Individual access rights are used instead of multiple keys.

This is how to deliver something which is difficult to attain: an intelligent combination between flexibility and security. Creating such optimum quality combinations and custom-made systems is the trademark of SimonsVoss. Quickly and easily extended, our System 3060 meets highly complex requirements, even in large buildings, and is invariably cable-free in its operation. Needless to say, the entire system is made in Germany.

THE COMPLETE WORLD OF DIGITAL LOCKING

Secure, transparent and convenient with SimonsVoss locking systems

Rapid digitisation, growing security requirements and increasingly more flexible working time models: mechanical locking systems are no longer able to keep pace with developments in today's world. Modern, secure, flexible locking is digital in its operation, preferably using a SimonsVoss locking system. Incidentally, digital locking systems can easily replace mechanical ones anywhere with no need for cabling, installed in new or old buildings, on few or many doors, in a single building or on several separate sites.

// Greater control and security

At SimonsVoss, security implies much more than being able to deactivate lost keys instantly. Security also means that electronic keys are protected against unauthorised copying. Our solutions also allow you to control restricted access areas centrally with cable-free door monitoring. What's more, every access can be time-restricted and documented.

// Greater convenience

An electronic key for all doors provide security with hassle-free access for your employees and visitors. You also get a comprehensive overview of which users have gained access through each door at what times and you can modify access rights instantly and flexibly.

// More quality

We have manufactured all components in our own production facility in Germany since our beginnings as pioneers in digital locking technology. For us, German-made quality means long service life, reliable mechanical components, trouble-free operation and, last but not least, minimum power consumption.

// More service

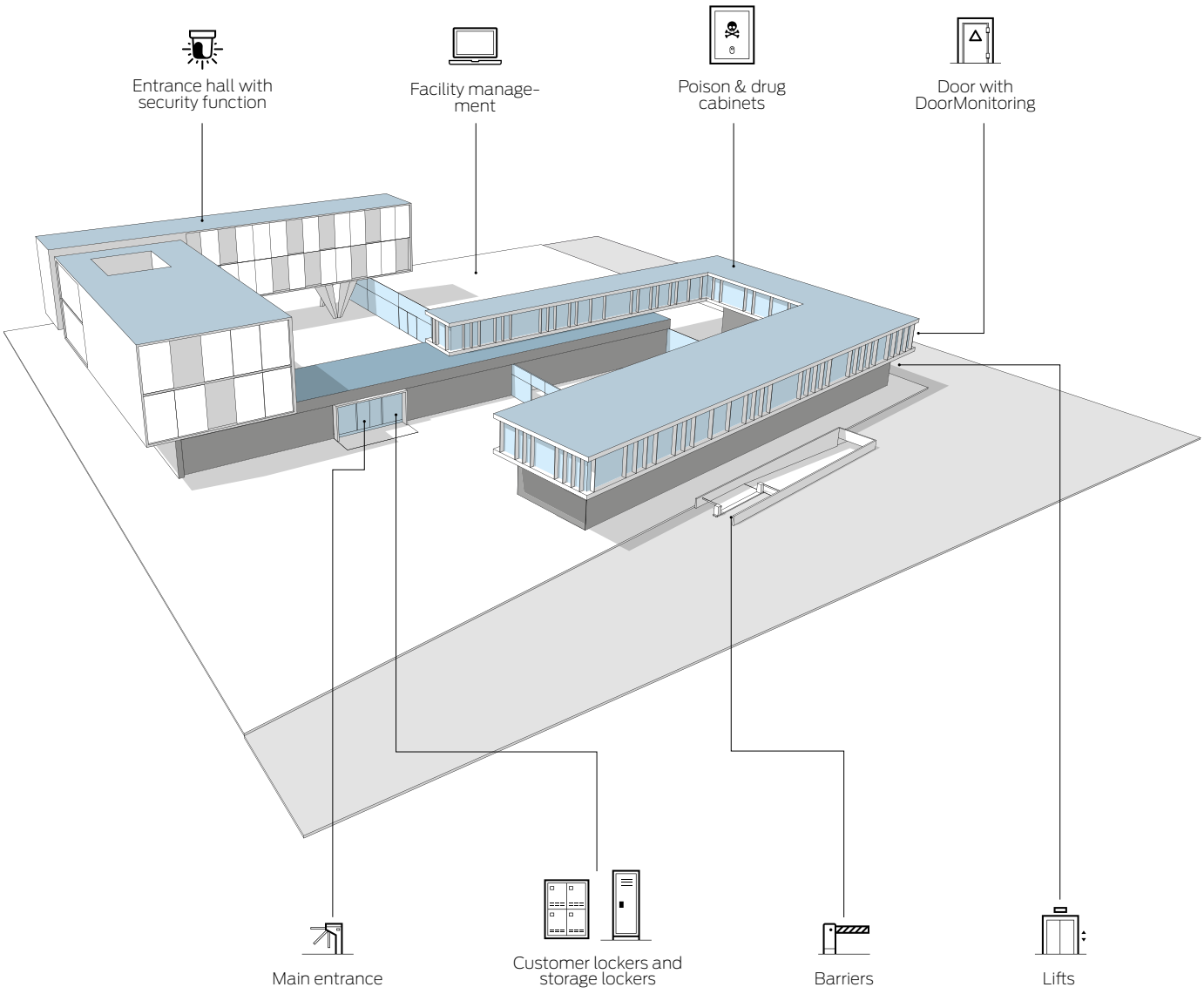
Reliability builds trust. Whether they provide assistance on site, remotely or via the hotline, our service teams are always ready to assist you.

// A fully future-proof investment

We have always taken an approach where all SimonsVoss locking systems can be upgraded with new software and new components at an affordable price, even years after initial installation. That's why we ensure our products and systems offer backward and forward compatibility.

OFFICES, MAIN ENTRANCES, UNDERGROUND CAR PARKS...

SimonsVoss locking systems cover virtually every door installation type



SYSTEM 3060

The all-inclusive digital solution which simply does more

A locking system for every security need. System 3060 integrates all lockable elements into an all-inclusive digital solution: from doors, gates and lifts through to turnstiles and cabinets. There's nothing which System 3060 cannot do, but there are things which make it really stand out.

However complex controlled opening and locking may be, it must be simple, flexible and convenient in its operation at all times. System 3060 installations network intelligent locking and control components with a custom-designed overall system without any cabling. Access, logging, monitoring and control functions can be programmed individually and are easy to change at any time. Even door monitoring functions without any cabling – SimonsVoss is the only provider to offer such cable-free installation.

// Easy to install and expand

Structured in modules, System 3060 not only provides customised locking systems; it can also be extended and upgraded any time. A new extension, more doors, additional control functions: any change you make is quick and easy thanks to wireless, battery-powered technology.

// Variable and secure with active and passive technology

SimonsVoss offers you a variety of identification media: the "active" transponder, the "passive" smart card or the "active" transponder as a combination medium with integrated smart card technology. Similar to a remote key, a battery-powered transponder delivers major advantages in terms of security and convenience.

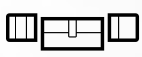
// Reliable quality and optimum service life

System 3060 installations are supremely future-proof since all components and all older versions are compatible and functional with new technology. These digital system components are top quality in terms of material, design and technology – essential for full functionality and total reliability.

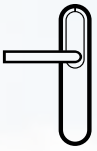
HOW DIGITAL LOCKING AND OPENING WORKS

DIGITAL LOCKING COMPONENTS

They know each and every authorised person and perform all monitoring and control functions for the door concerned.


Digital Cylinder AX

SmartHandle AX


SmartHandle AX Advanced

Padlock AX

SmartRelays

SmartLocker AX

Simons≡Voss

System control

CREDENTIALS

Transponders and smart cards store all the access rights of their respective owner. If an access authorisation exists, an identification signal is sufficient to open and close the door concerned.

Transponder

SmartCard

Smartphone

PIN code

Smart tag

CENTRAL SYSTEM CONTROL

Access rights are managed centrally using the access control software and transmitted to digital locking devices and credentials.

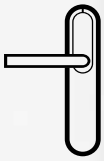
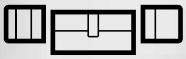
SmartLocker AX

SmartRelays

SmartHandle AX

Digital Cylinder AX

SmartHandle AX Advanced

OUR INTELLIGENT SYSTEM COMPONENTS

Cable-free, radio-controlled and network-compatible, our locking components and identification media are extremely intelligent and sophisticated.

DIGITAL CYLINDER AX

High-quality, durable, future-proof

- :: No wiring or drilling. Extremely fast, uncomplicated installation without the use of special tools
- :: All reader variants, whether active, passive or hybrid, are possible and support Bluetooth Low Energy (BLE) technology
- :: Flexible thanks to modular design
- :: Optimum user convenience thanks to ergonomic thumb-turns and visual and audible feedback signals
- :: Encapsulated actuator electronics with an integrated Secure Element, which stores the encrypted system data and reliably protects against attacks from outside
- :: Equipped with core and profile drilling protection as standard
- :: Very long battery life: up to 10 years on stand-by, 2-stage warning system when battery power is decreasing
- :: Protected against extreme weather influences and ingress of dust and water up to protection rating IP67

The digital locking cylinder contains the complete locking and control intelligence. Available in a widely varied range of designs, it can provide an extensive variety of locking, monitoring, logging and control functions.

Voss

SMARTHANDLE AX

Next keyless generation: the intelligent fittings for interior doors

SmartHandle AX was the start of the new, even more powerful generation of SimonsVoss system components: "Next Keyless Generation".

Greater security, greater convenience, greater intelligence: the SmartHandle AX achieves a new quality standard.

// Increased access security and performance

The innovative security architecture is a decisive advantage in SmartHandle AX. The Secure Element, a separate unit, is highly efficient in saving and encrypting all security-relevant data.

// Adaptive design, flexible scope for design

SmartHandle AX has a modular structure. This means it can be adapted to all door types with regard to door thickness, centres distance and spindles. The lever can be fitted on the left or right. It provides unique scope for visual design with four different SimonsVoss handles and the option to combine it with standard handles by renowned manufacturers – a first that only SimonsVoss offers.

:: Various SimonsVoss handle variants and finishes in different colours

:: Modular design: Door thickness, centres distance and spindles are adaptable. The lever can be fitted on the left or right.

:: Can be combined with handles by renowned manufacturers

:: Proven durability capacity for 1 million cycles (EN 1906)

:: Can be online and virtually networked

:: Manages up to 64,000 credentials

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SMARTHANDLE AX ADVANCED

Security for exterior doors in all weathers

SmartHandle AX Advanced shows its advantages in exterior doors, security doors and on escape routes.

// Watertight and weatherproof

In the WP version with an IP66 protection rating, it is fully shielded from environmental influences such as dust or direct water jets, also a great advantage for standalone outside doors such as fence doors. The wireless connection between the outer and inner side provides optimum protection for the electronics and avoids any vulnerabilities in the electronics.

// Maximum certified burglary protection ES3/SKG***

The version with a security fitting uses robust fastening screws and a metal plate to prevent unauthorized manipulation. An additional mechanical cylinder is protected by a casing and is installed in such a way so that it does not protrude.

// Can be combined with panic bars in emergency escape doors and rescue routes

The A4 version of SmartHandle AX Advanced for panic bars can also be used on escape and rescue routes in accordance with EN 1125. A mounting adapter can be used to attach a panic bar on the inner side of the door, ensuring the way is cleared in the event of an emergency.

// High rotation angle to prevent wear

A high rotation angle of up to 50° ensures that the handle is less likely to be pressed all the way to the stop. This high angle protects against wear and extends SmartHandle AX Advanced's lifespan.

// Diverse range of variants for different door installation situations

SmartHandle AX Advanced is available in different versions. Thanks to the diverse range of variants, no additional drilling is necessary in most installation situations.

:: Weatherproof - suitable for exterior doors

:: Maximum certified burglary protection

:: Compatible with panic bars for escape and rescue routes

:: Suitable for solid-core doors and metal frame doors

:: Also available in variants with mechanical secondary locking device

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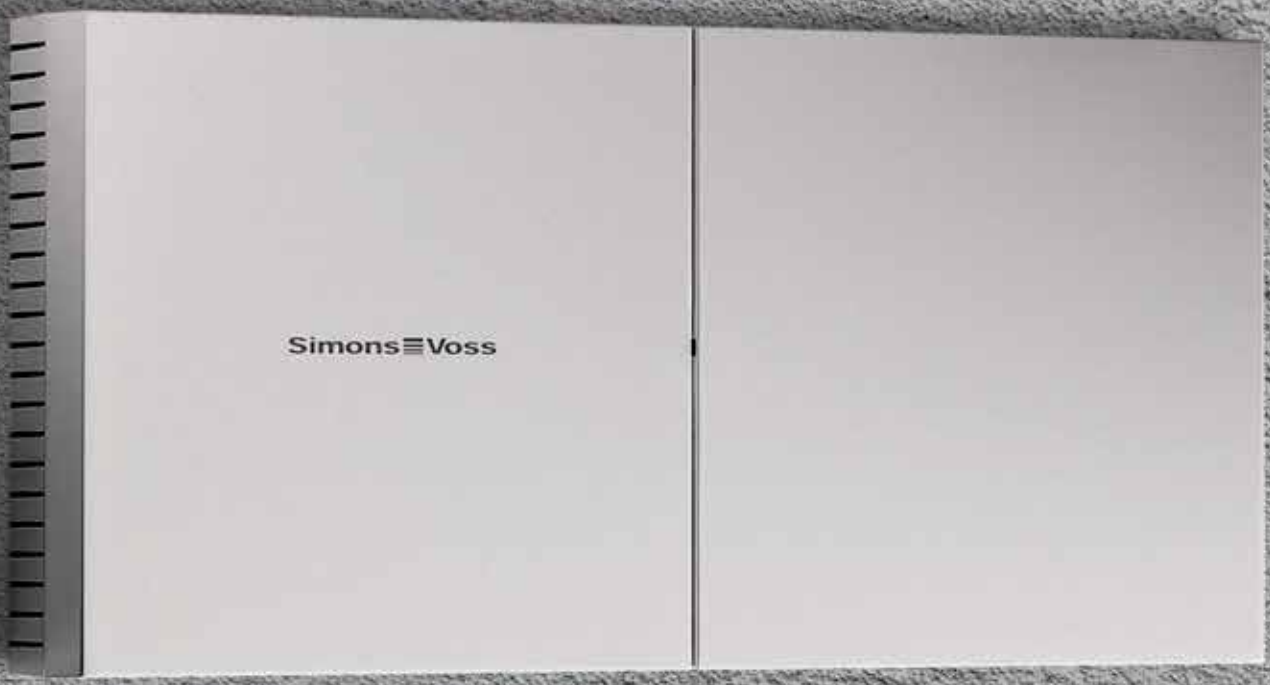
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SMART**RELAY**

For intelligent opening and controlling without any locking cylinders

The elegant SmartRelay can perform a variety of functions: Access control reader, gateway in virtual networks, or control of technical systems and devices.

// Access control reader

Barriers, gates, lifts: there are some entrance points without locking cylinders where access must be controlled electronically. SmartRelay can perform this task safely and reliably, both indoors and outdoors.

// Control for technical systems, machines -and devices

SmartRelay can be connected to third-party technical systems such as time-and-attendance solutions and control them or exchange data with them.

// Use as a gateway in virtual networks

In a virtual network locking system, SmartRelay takes over the role of a central gateway. This means it transmits new or modified access rights to identification media, ensuring that every user has up-to-minute access rights.

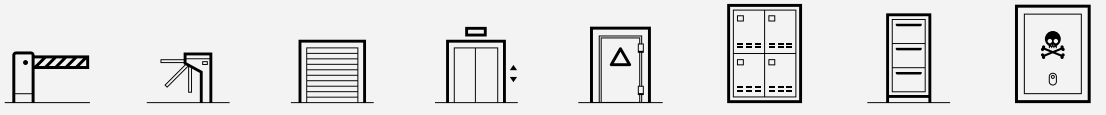
→ More on the virtual network on page 25

:: Active and passive access media can also be used as well as AX2Go on a smartphone, depending on the variant

:: Switches lights, gates, barriers, machines and similar electrical items

:: Transmits data from credentials to third-party systems, such as time-and-attendance systems, canteen payment solutions or facility management systems

:: Transfers data in virtual networks (depending on the variant)



SMART LOCKER AX

The first locker lock in SimonsVoss quality

SmartLocker AX is now the first SimonsVoss system for lockers and lockers.
SmartLocker AX is extremely flexible and can be installed with no drilling.

:: **Visual and audible feedback signals:** a visual and an audible signal indicate when the lock is opened or closed (can be switched off).

:: **Low-priced standard batteries:** Replacement is easy and uncomplicated.

:: **Durable:** Up to 50,000 openings without changing the battery, depending on the reader technology and operating mode.

:: **Emergency power supply via USB:** if the batteries happen to be flat, SmartLocker AX can simply be powered and opened via a USB port using a back-up power supply.

:: **Anti-sabotage contact on the cover:** any attempts at tampering can be displayed in the software.

:: **No more deadbolt blocking:** The pre-tensioned bolt spring prevents the bolt from blocking if the locker is too full and objects are pressing against the locker door on the inside.

:: **Quick, convenient adaptation with bolt inserts:** the inserts allow SmartLocker to be optimally aligned with cabinet and locker doors.

:: **Quick-Click installation:** our Quick-Click system makes installation even easier. No additional mounting holes are required.

:: **Fully customisable:** The platform offers the right variant for every cabinet door.

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RELIABLE IDENTIFICATION MEDIA WITH ACTIVE AND PASSIVE TECHNOLOGY

Perfect match for all requirements with transponders and smart cards

As tamper-proof, robust and convenient as possible, this is how identification media should be. That's why we use the superior active technology in transponders and are the only system provider to do so. We also offer smart cards with passive technology. The best thing is that you can use both technologies in a single system at the same time. only SimonsVoss offers you this option.

THE TRANSPONDER: UNRIVALLED IN SECURITY AND INTELLIGENCE

Transponders with active technology can do more than other identification media: It has a greater range, a much longer service life and more memory for all types of data. The robust casing protects the reading electronics and provides effective protection against vandalism and manipulation. Our transponder activates door release at the push of a button. Transponders are battery-powered since power is required for active data transmission. This also offers the advantage that battery life is increased in cylinders and hardware.

THE KEY FUNCTION ON THE SMARTPHONE AX2GO

AX2Go is a mobile key for opening digital locking components using Bluetooth Low Energy (BLE). If locking authorisations are stored in the app, the smartphone can be used like an access card or transponder.

THE SMART CARD: PASSIVE TECHNOLOGY

Depending on the situation and application, the smart card is a useful variant – for example, if cards are already being used in a company.

EASY TO INSTALL, COST-EFFICIENT OPERATION

Energy-saving technology, low maintenancecentral management

// No drilling, no dirt, no cabling

The digital locking components are designed for quick, simple installation without drilling. Thanks to the modular system design, they can be used for all purposes and fit practically anywhere.

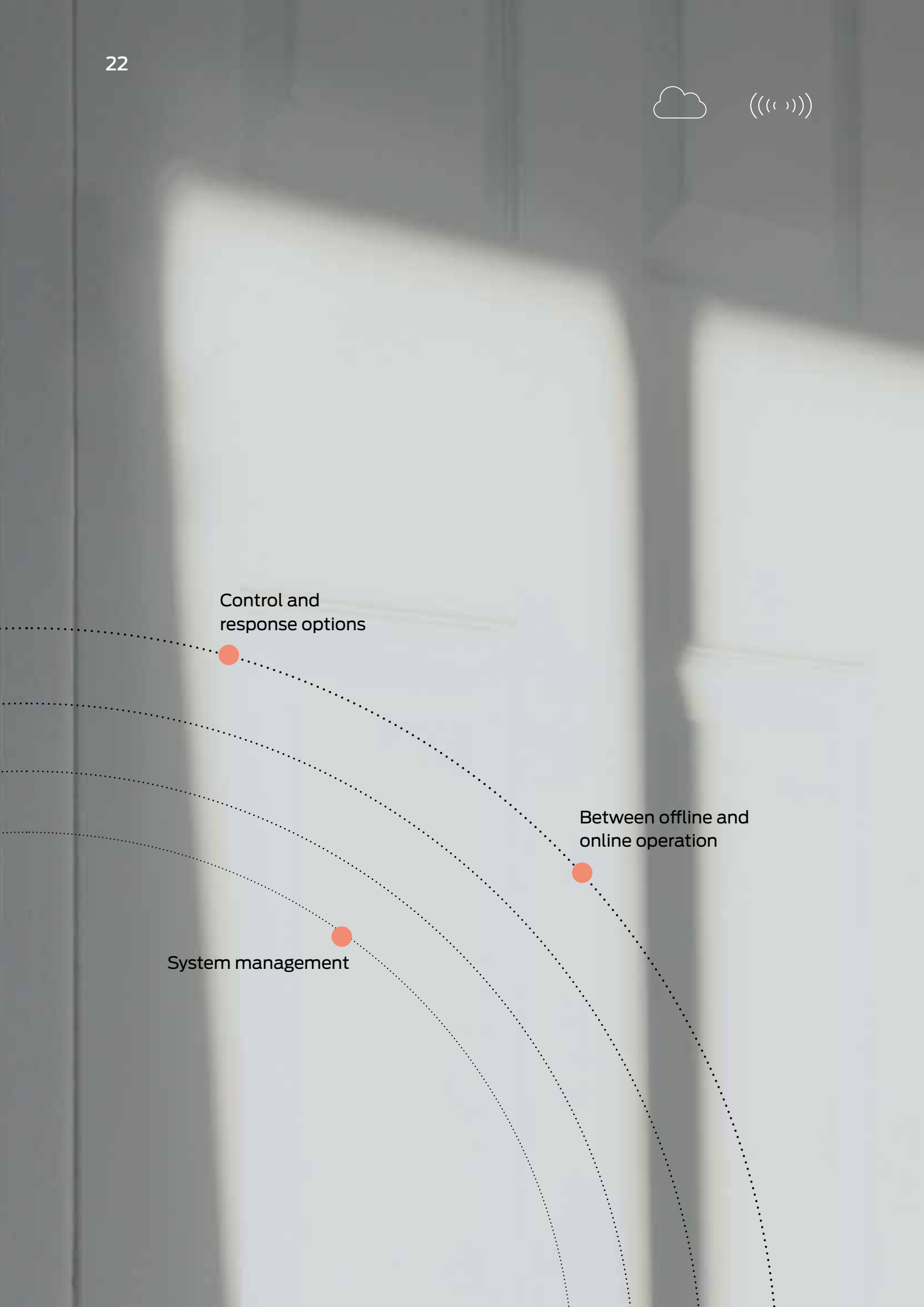
// Down with life-cycle costs, up with convenience

It is primarily the long-lasting, highly reliable locking components which are key to ensuring our locking systems are cost-effective in their operation. We also focus on using extremely power-saving electronics at all times. This means the batteries in locking cylinders and transponders last an age and are easily replaced in seconds, thus minimising maintenance requirements.

INFINITELY COMBINABLE AND EXTENSIBLE DUE TO ITS VERY NATURE

System 3060's open, modular design also helps save time and costs: the system can be restructured or extended at a later date with more doors, additional floors, buildings or locations at any time.
As you would expect, we are constantly developing our components further, making them even more intelligent and extending their capabilities. In doing so, we ensure universal compatibility, thus offering our customers maximum investment security.

:: Minimum maintenance requirements
:: Energy-saving electronics, long-lasting batteries
:: Simple retrofit for new electronic functions and technology
:: Fully backward- and forward-compatible components
:: Simple, flexible system expansion


Control and
response options
Between offline and
online operation
System management

MY SYSTEM 3060

Modular structure, extended flexibly and combined in any way.
Use the advantages that System 3060 offers for your custom-fit digital locking system.

THE MANAGEMENT SOFTWARE FOR LOCKING SYSTEMS

For customised, convenient system management

In a digital locking system, system management interlinks intelligent system components with users and their identification media. Two software generations are currently available to you in System 3060. The new AX Manager (AXM) and the time-tested Locking System Management software (LSM).

The locking system management software allows you to perform all set-up, operation and management tasks in your System 3060 quickly and conveniently:

- System and management of locking plan (matrix display)
- Identification media programming and management: transponders, smart cards
- Programming and management of all components, such as cylinders, SmartHandles and SmartRelays
- Creation of different lists, reports and logs for items such as access rights and programming requirements for locking devices when a transponder is lost.

// Different editions for every need

The larger a building and the more complex its locking system security requirements are, the more functions the software must offer. As a result, each new generation of software presents an edition model that meets your unique requirements. Locking systems can be upgraded to a higher edition at any time to expand their range of functions.

AXM Lite

Simple locking plan management for small systems:

- Up to 20 doors and 100 transponders
- Software and data installed locally on a computer

AXM Classic (see LSM Basic)

Standard locking plan management for small and medium-sized systems:

- Any number of local databases and locking systems
- Up to 64,000 doors and persons per locking system
- Possible to use both transponders and smart cards in the same system

AXM Plus (see LSM Basic Online)

Additional optional functions:

- Upgradable with cloud services such as AX2Go
- Virtual and direct networking
- Integrated update and support service

LSM Business Edition

Additional functions:

- Multi-user system for large systems
- Decentralised system management (server-client installation)
- Integrated reporting
- Task and event management

LSM Professional Edition

Additional functions:

- Use of multiple databases on the server
- Operation in a terminal-server environment

HOW MUCH “ONLINE” WOULD YOU LIKE?

All variants between offline and online locking system operation

System 3060 delivers an extensive variety of options to control your locking system securely and conveniently based on individual requirements. The building size and functional requirements are ultimately the decisive factors in determining whether a system is to be operated offline, online or in a virtual network.

// Small building and simple requirements

Offline operation may be sufficient for small locking systems. Deciding on offline mode for your system is not a definitive choice. You can switch from an offline to an online system at low cost at a later stage any time.

// Large building and various sites

A large building, strict security requirements and different types of employee and visitor traffic require a networked system to provide all real-time control and locking functions. We offer two network variants for optimum building protection:

:: The online network
:: The virtual network

Both versions can also be freely combined with one another to deliver a network which meets your requirements precisely.

VERSION 1: OFFLINE MODE

If the number of doors is manageable and changes to access rights are infrequent, a System 3060 installation can also be operated offline effectively. The components are managed in the locking plan software. A unique feature in SimonsVoss systems is that the updated data is then transferred to either the locking components or identification media using the programming device, whichever is more convenient for you.

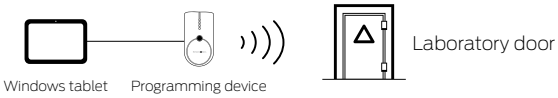
// The features of an offline locking system:

:: Inexpensive solution for small systems
:: Management software installed centrally on a computer

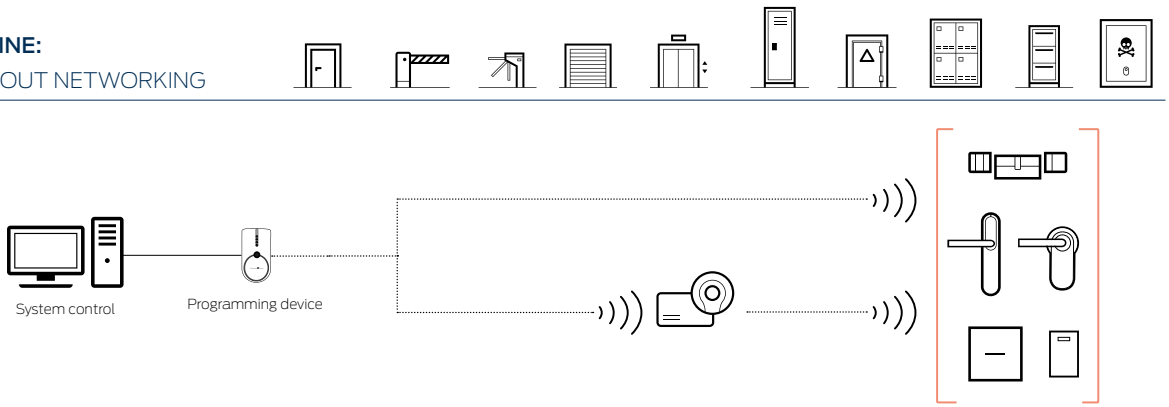
1 Locking times programmed in the LSM software

2 Data transported to the door concerned "on foot"

3 On-site wireless data transfer to locking components using the programming device



OFFLINE:
WITHOUT NETWORKING



VERSION 2: VIRTUAL NETWORK

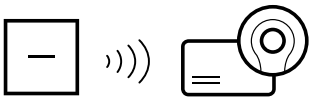
Only “gateways” are networked in a virtual network. Access authorisations that have been modified in the software are transmitted to the gateways via Ethernet. Identification media that are scanned at the gateways distribute the information to locking components and also carry new data back to the gateways.

// The advantages:

:: Less infrastructure since only central gateways are networked
:: Low administration requirements, important for large locking systems
:: Online activation also available for individual doors requiring special protection
:: Possible to re-programme locking devices with the programming device at any time

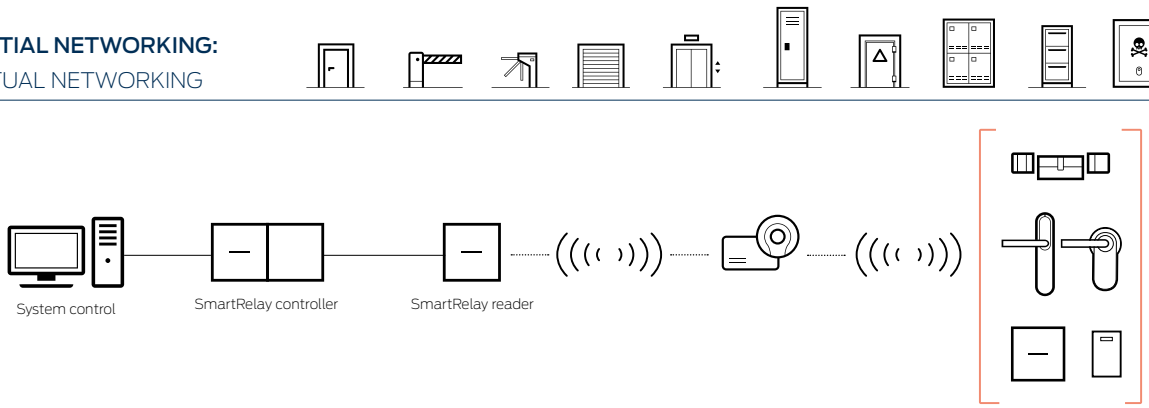
1 The new access right is transmitted to gateways/SmartRelays

2 Data transmitted to the employee's identification medium



3 The new information on the identification medium now decides if a locking device is to be opened or not

PARTIAL NETWORKING:
VIRTUAL NETWORKING



VERSION 3: ONLINE NETWORK

With online networking, you have the whole range of System 3060 services at your disposal. Data is exchanged in real time. Specify which doors should be networked online, e.g. all or only security-relevant ones. Expansion at a later date is also possible.

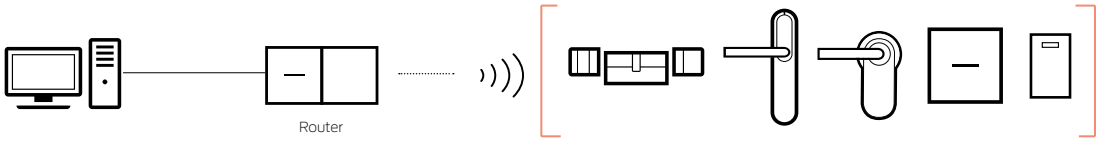
// The advantages:

:: Immediate response to lost keys
:: Real-time programming of locking device
:: Central activation of protective functions (e.g. emergency release)
:: Online door monitoring (DoorMonitoring)
:: Warning messages (by email) for critical events such as attempted door manipulation
:: Automatic warnings for low battery power

TRANSPONDER MISSING? NO PROBLEM!

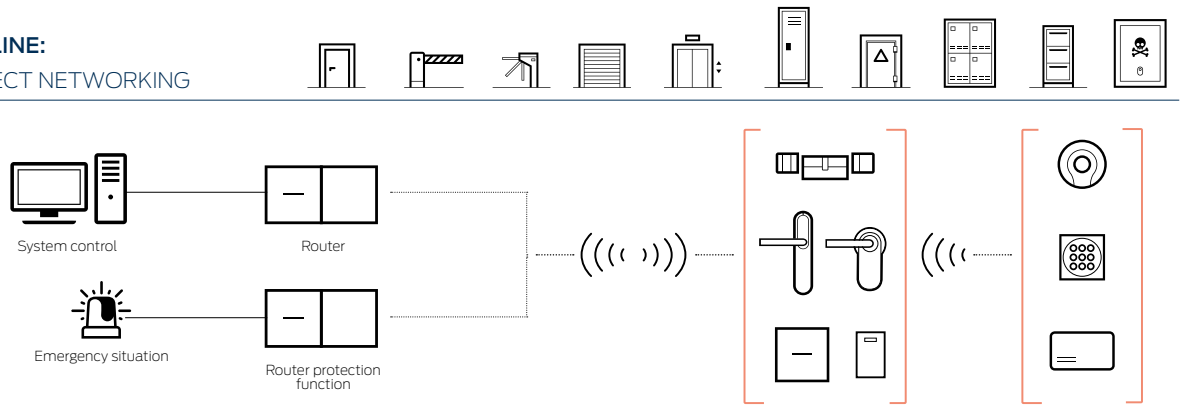
1 Signal to the central system control

2 The transponder is immediately disabled centrally (online information on all locking components concerned)



3 A new transponder is programmed and issued with individual access rights

ONLINE:
DIRECT NETWORKING



GREATER SECURITY, AUTOMATIC AND ONLINE

A wide range of options for control, monitoring and response

Present-day requirements are demanding for locking systems whether the system is installed in an SME, major company group, a hospital, bank or government office. Digital locking systems with access control play a central role in security for buildings and institutions, especially when many people are coming and going.

Today, you will find restricted areas with access limited to certain times which not everyone can enter in many places. Such areas include server rooms, laboratories and development departments. It is thus all the more important that employees and internal and external visitors have defined access rights. Thanks to its large number of components and functions, our System 3060 has a suitable solution to match any set of circumstances.

// Security with System 3060 means:

:: Simple, central control
:: Immediate deactivation of misplaced identification media
:: Online remote opening of locking devices in emergencies (panic and similar)
:: Freely configurable access rights and times which can be changed at any time
:: Online monitoring for individual doors (DoorMonitoring)
:: Automatically generated access event logging

CABLE-FREE DOOR MONITORING INCLUDED

Door monitoring which works without any cabling: only SimonsVoss offers you this option. With DoorMonitoring, you increase access security and control significantly in restricted areas without needing any structural alterations.

This is how cable-free DoorMonitoring works: Thanks to integrated sensors, locking cylinders and SmartHandles record all the lock's statuses and changes: open, closed, dead bolt extended or retracted, locked once or double-locked, or open for too long. This information is transmitted directly via the radio network to the system software, where it is recorded and visualized in SmartSurveil.

// Alarm for critical events

Critical events trigger an alarm directly and automatically, sending an email or text message or opening a pop-up window. The alarm function is only available in the software's LSM Business or LSM Professional Editions.

:: Automatic alarm for attempted manipulation on door
:: Automatic alarm when door is open too long
:: Messages sent by email or appear in pop-up window

Ludger Voss
Technical Director
Bernhard Sommer
General Manager

THE SIMONS VOSS PROMISE

We paved the way for digital locking technology almost thirty years ago. Since then, we have pursued a clear aim with our systems: intelligent security. This aim is achieved through our firm commitment to high quality, reliability and innovation. And our pledge to finding a sustainable answer to each individual security requirement.

Our customers seek security of investment. We have everything to provide it to them:

:: Sophisticated, modular locking systems and an extensive product portfolio
:: System components which are backward- and forward-compatible with no limitations
:: Low-maintenance technology which works easily and on a lasting basis
:: A support service which is proficient, friendly and swift to arrive

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).

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

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For general safety and maintenance information, visit www.simons-voss.com/en/security.html

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SimonsVoss technologies

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