SYSTEM **3060**

Digital locking systems with access control

◎ The finest in keyless security

Simons≡Voss
technologies

CONTENTS

COME IN!

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 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 an optimum quality combination and custom-made systems are the SimonsVoss trademark. 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 German-made.

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. Digital locking systems can easily replace mechanical locking devices anywhere and no need for cabling: in new or old buildings, on few or many doors, in a single building or on several separate sites.

// More control and security

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

// More convenience

An electronic key for all entrances and button-operated opening and locking provide door security with trouble-free access for your employees and visitors. You also have a complete overview of which users gain access through each door at particular times and can also modify access rights instantly and flexibly.

// More quality

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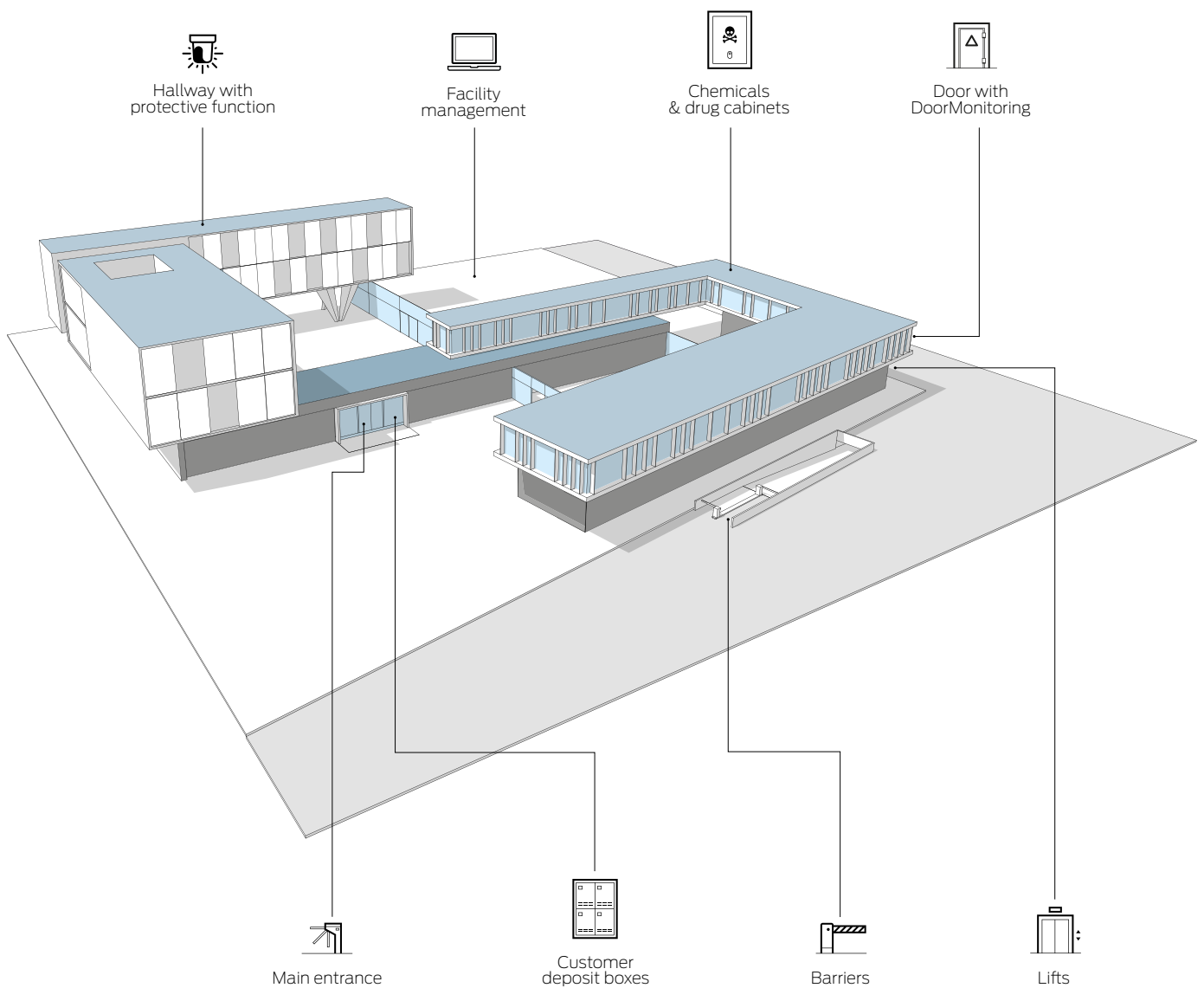
// More service

Reliability builds trust. Our service teams are ready to help you whether they provide assistance on site, remotely or via the hotline.

// Completely 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 feature full backward and forward compatibility.

OFFICES, MAIN ENTRANCES, UNDERGROUND CAR PARKS...

SimonsVoss locking systems can
handle virtually any door installation type

Hallway with
protective function

Facility
management

Chemicals
& drug cabinets

Door with
DoorMonitoring

Main entrance

Customer
deposit boxes

Barriers

Lifts

SYSTEM 3060

The all-inclusive digital solution which can do more

A locking system for every security need. Locking System 3060 integrates all lockable elements into an all-inclusive digital solution: from doors, gates and lifts through to turnstiles, barriers and drawers. There's nothing which System 3060 cannot do, but there are things which make it 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 in 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. Any changes can be implemented quickly and inexpensively thanks to cable-free, battery-powered technology, whether you add doors, require extra control functions or have a new building extension.

// Variable and secure with active and passive technology

SimonsVoss offers you two identification medium types: an "active" transponder and a "passive" smart card. Similar to a remote key, a battery-powered transponder delivers major advantages in terms of security and convenience. Smart cards with a chip are particularly useful for time-restricted access or if a company already uses cards.
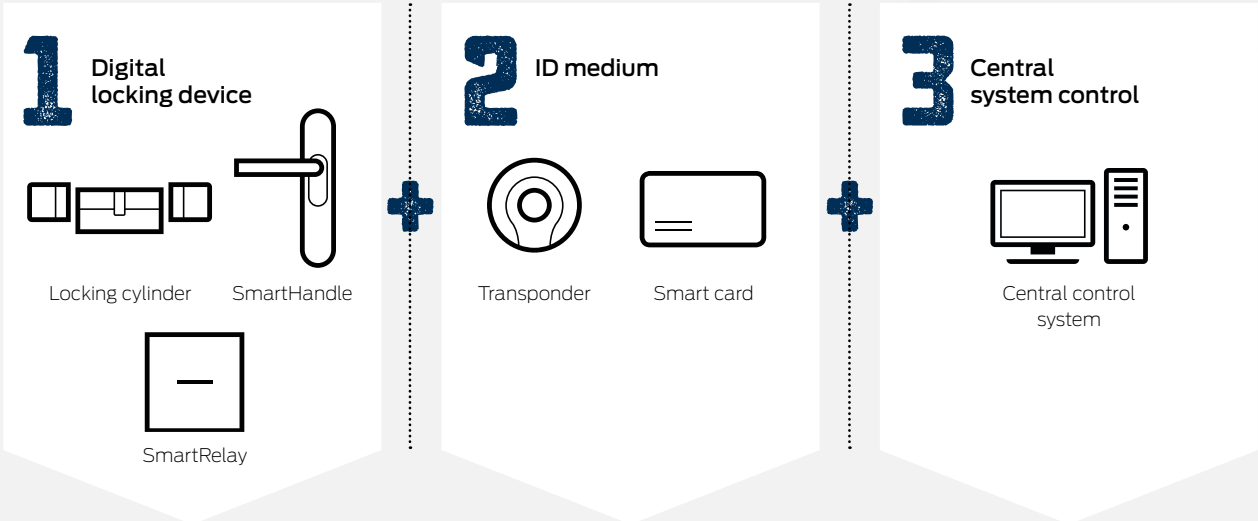
// Reliable quality and optimum service life

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 OPENING AND LOCKING WORK

Three key elements form the basis for System 3060

1 Digital locking device

Locking cylinder   SmartHandle

SmartRelay

+

2 ID medium

Transponder   Smart card

+

3 Central system control

Central control system

All the intelligence is focused in the digital locking device: It knows each and every access-authorised person and performs all monitoring and control function for the door concerned.

Transponders and smart cards contain their owner's complete access rights.
An identification signal is all that is needed to open and close the door in question.

Access rights are controlled centrally using the LSM software and transmitted to digital locking devices and identification media.

OUR INTELLIGENT
SYSTEM COMPONENTS

Cable-free, remote-controlled and network-compatible,
our locking devices and identification media are extremely
intelligent and sophisticated.
Find out more about our most important system components.

THE DIGITAL LOCKING CYLINDER

True all-rounders when it
comes to access and control

- Fitted instantly,
  without holes, dirt or cabling

- Active and passive
  access media possible

- Can be operated online, offline or
  in a mixed system

- Optional online door monitoring
  (DoorMonitoring)

- Access control and event logging
  for up to 3,000 access events

- Time zone control for
  time-limited accesses

- Long-term battery operation

- An extensive variety of cylinder versions, including an anti-panic
  and fire door variant, a weatherproof design or a half cylinder

GERMAN DESIGN AWARD 2016

reddot award
product design

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. It can also be optionally fitted with sensors for cable-free Door-Monitoring (online only) and operated both online and offline.

SMART**HANDLE**

Optimally suitable for central, heavily used doors

Not just any old door fitting! One which also uses its great intelligence to reliably control large flows of visitors. SmartHandle works without cabling, accepts transponders and/or smart cards and is mounted in minutes with a single screw with no drilling required.

// Identifies and manages up to 64,000 users

SmartHandle truly shows off its capabilities on doors which are used by many and varied visitor groups. This is because it is able to control access of up to 64,000 persons with individual rights based on time and place. It's great that its timeless, award-winning design matches an extensive variety of door types.

In addition to the many features of a digital locking cylinder, SmartHandle also has the following product characteristics:

Snap-installation with
no drilling required

Long-term battery operation

Active and passive
access media possible

SMART**RELAY**

For intelligent opening and controlling without any locking cylinders

There are some entrance points without locking cylinders, such as gates, lifts and barriers, where access must be controlled electronically. The elegant SmartRelay acts as an access control reader and has high capacity for further intelligent functions and tasks.

// Use as a gateway in virtual networks

In a virtual network locking system, the 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 21)

// Control for technical systems, machines and devices

SmartRelay can also connect to third-party technical systems and control or exchange data with them.

reddot award
product design

Simons≡Voss

+ Switches lighting, gates, barriers, machines and similar

+ Active and passive access media possible

+ Transmits data from identification media to third-party systems, such as your time-and-attendance system, canteen payment solutions or your facility management system

Barrier   Turnstile   Roll-up door   Lifts   Locker   Server room door   Safe deposit boxes   Filing cabinet   Chemical cabinet

RELIABLE IDENTIFICATION MEDIA WITH ACTIVE AND PASSIVE TECHNOLOGY

Meet all requirements with transponders and smart cards

Identification media should be as robust, convenient and manipulation-proof as possible. That's why we use the superior active technology in transponders and are the only system provider to do so. The smart card and its passive technology completes our range.

THE TRANSPONDER: UNRIVALLED IN SECURITY AND INTELLIGENCE

Transponders with active technology can do more than other identification media: they feature a greater read range, a significantly longer service life and more memory for all types of data. Most importantly, they are robust and offer effective protection against vandalism, manipulation and undesired read-out. As with the electronic car key, doors are actively unlocked at the press of a button with our transponders. The read electronics are successfully protected in a strong casing. Transponders are battery-powered since power is required for active data transmission. This also offers the advantage that battery life is increased to up to 150,000 cycles in cylinders and hardware.

- **Extremely sturdy, virtually maintenance-free**
  and extremely long-lasting

- **Optimum battery performance for up to 400,000 activations**
  or up to 10 years on standby

- **Physical access lists**
  available

- **Stores datasets**
  for up to 4 separate locking systems

- **Convenient range between**
  40 and 120 cm, depending on the locking device

THE SMART CARD:
PASSIVE TECHNOLOGY

Depending on the situation and use, a smart card with passive technology is a useful version, even if organisations already use cards or other passive systems, such as time management and canteen payment solutions.

// **Areas of use:**

:: For high personnel turnover and many authorised access users
:: Where a card is already being used for purposes such as time management

MY SYSTEM 3060

———

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

LOCKING SYSTEM MANAGEMENT SOFTWARE

For customised, convenient system management

In a digital locking system, the Locking System Management software (LSM) interlinks intelligent system components, i.e. doors featuring locking mechanisms with users and their identification media.

The LSM 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 for all locking devices: locking cylinders, SmartHandles, 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. That's why the LSM software is available in different editions.

LSM Basic Edition
For simple locking plan management for small and medium-sized systems:
:: Software and data installed locally on a computer
:: No network management
:: Changes to rights transmitted to mobile terminal devices
:: Possible to use both transponders and smart cards in same system

LSM Basic Online Edition
As LSM Basic but with additional functions:
:: Networking of locking devices
:: More functions such as reports and logs (audit-compliant)

LSM Business Edition
Multi-user and client-capable administration software for large systems
:: Decentralised system management (server–client installation)
:: Integrated reporting
:: As many networked components as required
:: Online functions, such as event management and alarm functions

LSM Professional Edition
As LSM Business Edition plus extra options:
:: 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 systems

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 the decisive factors determining whether a system is to be operated online, offline or in a virtual network.

// Large building and various sites

A large building, strict security requirements and different types of employee and visitor traffic require a networked system. This brings the advantage that all real-time control and locking functions are possible. We offer you all options for optimally protected connections:
:: As an online network
:: As a virtual network
These network variants can also be freely combined with one another to deliver a network which meets your requirements precisely.

// Small building and simple requirements

Offline operation may be sufficient for small locking systems. It is also an affordable alternative in such cases. 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 and at any time.

VARIATION 1: ONLINE NETWORK

With comprehensive online networking, you have the whole range of System 3060 services at your disposal.
LSM software and all locking devices are linked wirelessly and via routers – essential for data exchange in real time.
The advantages lie in central management, the many intelligent functions and significant added security.

// **The advantages:**

:: Immediate response to key loss
:: Real-time locking device programming
:: Central triggering of protective functions
(emergency release, automatic lock down in an attack)
:: Online door monitoring (DoorMonitoring)
:: Warning messages (email) for critical events
such as attempted door manipulation
:: Automatic warnings for low battery power

TRANSPONDER MISSING? NO PROBLEM.

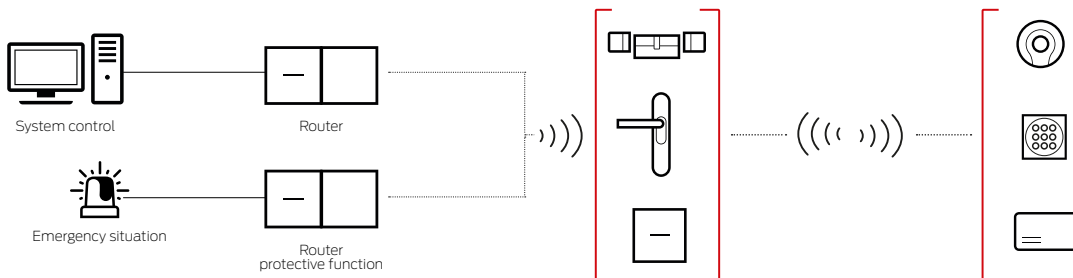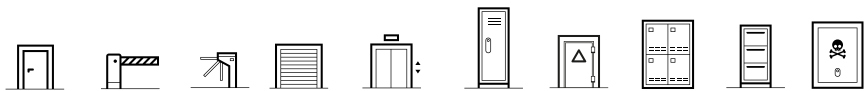**1** Signal to the central system control

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

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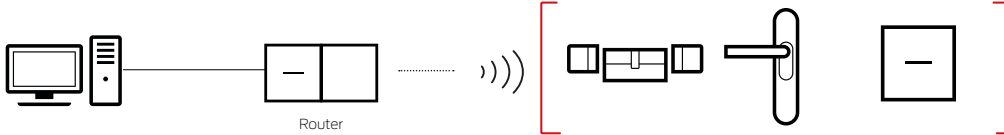
3 A new transponder is programmed and issued with individual access rights

ONLINE:
DIRECT NETWORKING

System control

Router

Emergency situation

Router
protective function

VARIATION 2: VIRTUAL NETWORK

A virtual network also allows the locking system to be managed centrally. The building's exterior doors are equipped with SmartRelays. These are connected to the network and act as gateways for updating the access rights. Updated data is thus transferred from the LSM software to the gateways via Ethernet and from there to locking devices using identification media. As a basic rule, the latest available information is decisive when data is synchronised between the identification medium and the locking device.

// **The advantages:**

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

AN EMPLOYEE NEEDS TO RECEIVE ACCESS RIGHT TO THE SERVER ROOM.

1 The new access right is transmitted to gateways/SmartRelays
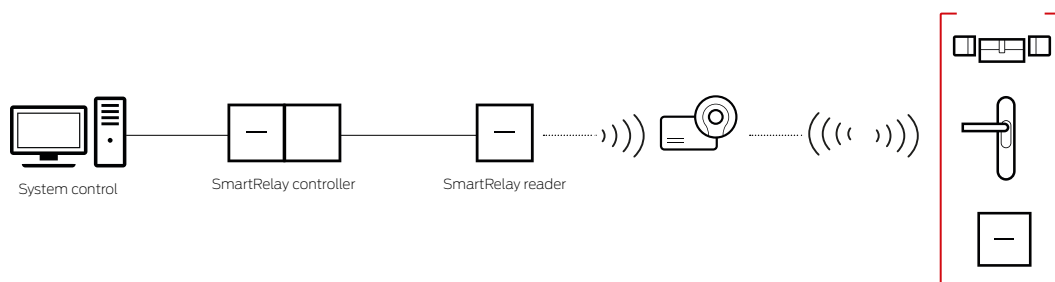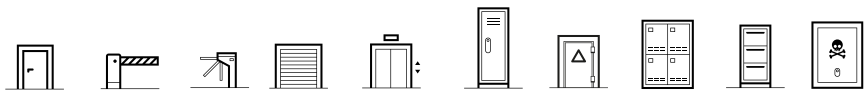
SmartRelay 3 Advanced
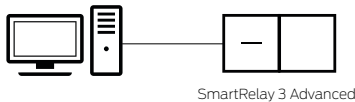
2 Data transmitted to the employee's identification medium
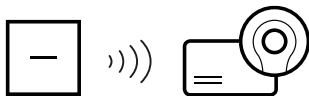
3 The new information on the identification medium now decides if a locking device is to be opened or not

PARTIAL NETWORKING:
VIRTUAL NETWORKING

System control   SmartRelay controller   SmartRelay reader

VARIATION 3: 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 at a lower price. Programming is generated in the LSM software. You then bring the data to the locking device concerned on a portable programming device or you programme identification media as required. Again, the latest available information is used when data is synchronised between the identification medium and locking device.

**// The characteristics of an offline locking system:**

:: Inexpensive solution for small systems
:: LSM software installed centrally on a computer
:: No real time data transmission
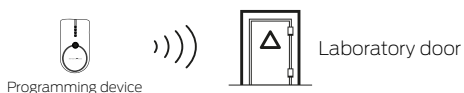:: No DoorMonitoring
:: No automatic battery warning

ACCESS TO THE LABORATORY IS ONLY PERMITTED AT FIXED TIMES.

1 Locking times programmed in the LSM software

2 Data transported to the door concerned "on foot"

Programming device
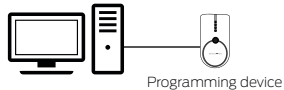
3 Local data transmitted to the locking cylinder using the programming device

Programming device

Laboratory door

OFFLINE:
WITHOUT NETWORKING

System control

Programming device
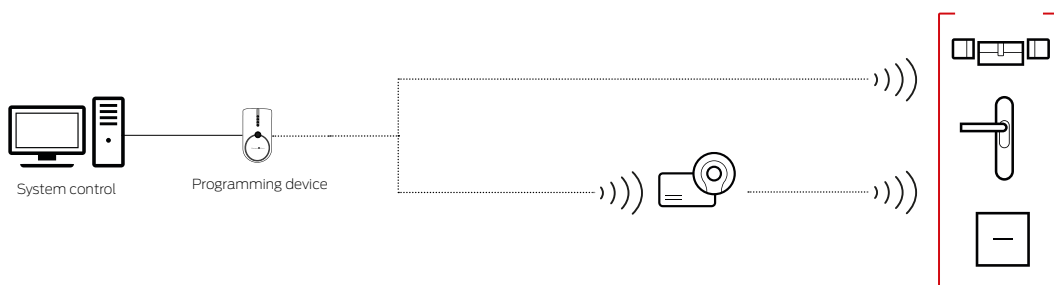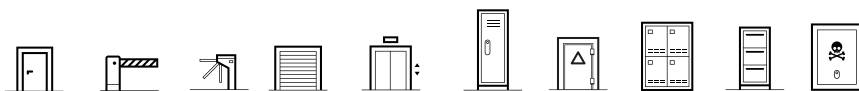
GREATER SECURITY, AUTOMATIC AND ONLINE

A wide range of options for control, monitoring and response

Contemporary requirements are high 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, restricted areas which may only be accessed at certain times and not by everyone can be found everywhere. Such areas include server rooms, laboratories and development departments. It is thus all the more important that employees have defined access rights and service providers are permitted to carry out their work unhindered by access problems. It is also imperative that visitors and staff are protected in emergency situations such as fire or panic and can be safely guided to the outside. 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

Only SimonsVoss offers door monitoring which works without any cabling. 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 register 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 forwarded directly to the LSM system software via the wireless network and is then logged or displayed in the software.

// **Alarm for critical events**
Critical events trigger an alarm directly and automatically, sending an email or opening in a pop-up window.
The alarm function is only available in the LSM Business or LSM Professional Editions of the software.
:: 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

EASY TO INSTALL, COST-EFFICIENT OPERATION

Energy-saving technology, low maintenance central management

// No drilling, no dirt, no cabling

The digital locking cylinder's design has been devised to ensure fast, problem-free installation. With its different installation lengths, it can be used universally and will fit practically anywhere. This is true for each of the different product variants. Even retrofitting new, intelligent functions takes just minutes.

// 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
AS A MATTER OF PRINCIPLE

System 3060's open, modular design also offers the added benefit of time and cost savings as does the option of extending the system to include more doors, other floors, other buildings and additional sites. As you would expect, we are constantly developing our components further, making them even more intelligent and extending their capabilities. Yet there is no need to replace existing system components to include such new elements, even if the system is extended years after initial installation. This universal compatibility allows us to offer our customers future-proof investment and guaranteed extension capability.

:: 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

THE **SimonsVoss** PROMISE

We paved the way for digital locking technology more than twenty 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 an enduring 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 is a technology leader in digital locking systems.
The pioneer in wirelessly controlled, cable-free locking technology
delivers system solutions with an extensive product range for SOHOs,
SMEs, major companies and public institutions.
SimonsVoss locking systems unite intelligent functions, optimum
quality and award-winning German-made design.
As an innovative system provider, SimonsVoss attaches great
importance to scalable systems, effective security, reliable
components, high-performance software and simple operation.
Our commercial success lies in the courage to innovate, sustainable
thinking and action, and heartfelt appreciation of employees and
partners. With its headquarters in Unterföhring, near Munich, and its
production site in Osterfeld, eastern Germany, the company employs around 300 staff in eight countries.
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).

ALLEGION

Simons VOSS
technologies