SmartIntego –
Your perfect solution for integrated access control.

**ACCESS MANAGEMENT
IN DIGITAL SECURITY SYSTEMS**

ACCESS
CONTROL SYSTEM

ALLEGION™

Simons Voss
technologies

HEATING, VENTILATION,
AIR CONDITIONING

COMMUNICATIONS
TECHNOLOGY

ELECTRONIC
TECHNOLOGY

BURGLAR
ALARM SYSTEM

VIDEO
SURVEILLANCE

SECURITY
TECHNOLOGY

ACCESS
CONTROL
SYSTEM

AUTOMATION
TECHNOLOGY

FIRE
ALARM SYSTEM

DATA SYSTEMS TECHNOLOGY

MULTIMEDIA

The future is digital.
With SmartIntego,
you can rely on a
solution which is way
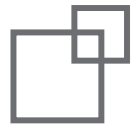ahead of its time.

What
really matters.

Digital access control systems are valued highly in security technology for buildings. SmartIntego by SimonsVoss impresses with seamless integration and optimum quality.

Who is allowed to be in specific parts of the building and who isn't? How flexibly can individual access be managed? What locking media can be used? How quickly can people and rooms be protected in the event of panic or attack situation? Questions such as these present enormous challenges to those responsible for building security. This is particularly the case when the access control system is to be seamlessly embedded into the overall building management system. SimonsVoss provides a definitive answer: SmartIntego. Developed by the world-renowned technology leader for digital locking and access control systems. Flexible, innovative and German manufactured.

SmartIntego.
More than you expect.

Access control with SmartIntego integrates the distinctive advantages of digital locking into complex building management systems.

In terms of security and convenience, there is no alternative to electronic ID media, digital cylinders and handles when it comes to locking access points without a key. SmartIntego allows individual and time-limited access rights to be deployed, for example while locking operations can also be logged without interruption.

If lost, SmartCards can be blocked at the click of a mouse or if any users leave the organisation. New SmartCards can be generated instantly with specific authorisations, delivering significant administrative cost savings and fast return on investment.

When combined with other security systems such as fire and intruder alarms or video surveillance, keyless locking assists significantly towards ensuring safety and well-being for people within the building.

Different systems are increasingly combined and operated in a TCP/IP-based network to reduce the complexity of security technology while increasing its effectiveness. The more powerful a system is and the more effectively it can be incorporated into a network, the better the overall solution is. In normal situations or in the event of a fire, intrusion or another emergency, a security system's efficiency ultimately depends on the stability and intelligence of its locking and access components. Introducing SmartIntego, the new standard in building security.

Digital locking with SmartIntego – highlights

State of the art
Integration of electronic instead of mechanical access control in existing building systems, based on flexible interfaces, high-performance protocols and open system design.

Use of existing IT infrastructure
SmartIntego can also be integrated into varying IT infrastructures via existing user interfaces cost effectively and without the added complication of connecting through additional databases or software.

Simple, cable-free installation
Cables do not need to be installed or connected. Standard batteries ensure that cylinders and handles do not depend on an external power supply.

Snap-in installation
The system features a unique mounting technology to affix cylinders and handles to doors without needing to drill holes. This brings real benefits for rental property and fire doors, where drilling is forbidden.

Extremely long battery life
In online mode, the battery cells can manage up to 80,000 activations while the average battery life in standby mode is five years.

Maximum security
Events logged to record which users have gained access to a particular place at specific times. Lost SmartCards are instantly blocked and unauthorised key copying eliminated (3D printing).
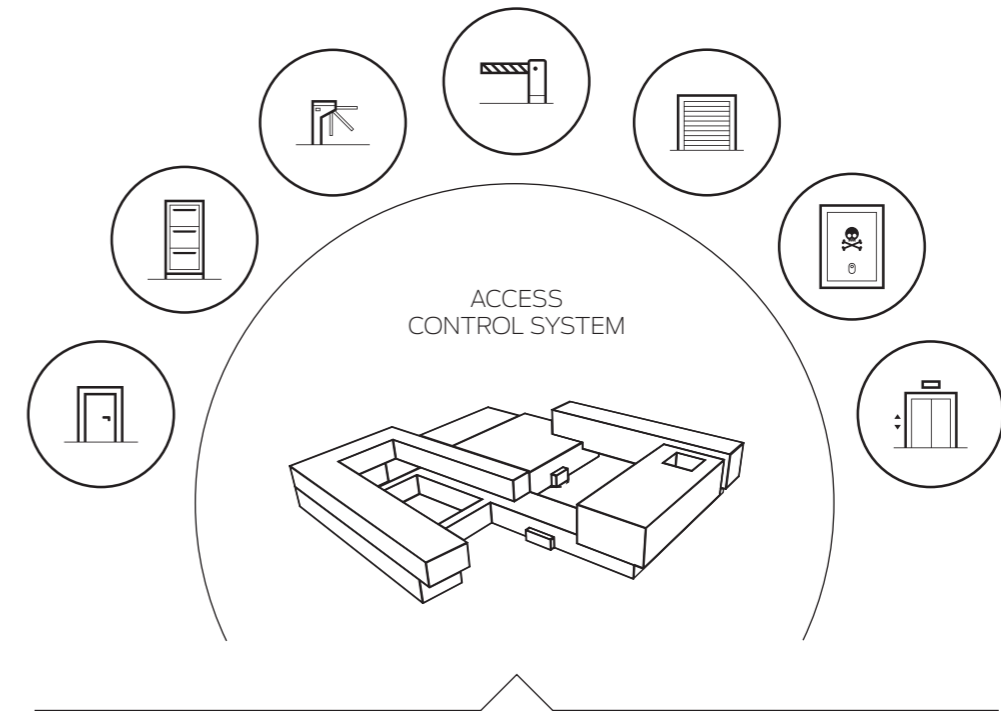
Exceptionally flexible without limitations
Extremely simple processes thanks to interfaces between HR department and access system management. Trouble free handling of modifications to the organisation and room use in places where employees change on a frequent basis. SmartCards can be issued with limited validity for users such as visitors or maintenance staff.

Low costs for administration and training
Intuitive operation using existing software ensures that the time and expense for administration and training are kept to a minimum.

'As the person responsible for building security systems, I set maximum requirements for access management. SmartIntego is my first choice.'

SmartIntego.
Your perfect solution for integrated access control.

SmartIntego components such as SmartIntego locking cylinders, SmartHandles, PIN code keypads, padlocks and GatewayNodes can be easily integrated into multifaceted security systems.

ACCESS
CONTROL SYSTEM

With its high-performance communication protocols, SmartIntego can be seamlessly incorporated into existing access control or building management systems. System component auto-configuration in SmartIntego Manager ensures that there is minimal effort involved in component integration compared to other systems.

The scope of services and features matches the high expectations which building operators and managers have of technology leaders for digital locking and access control systems. One advantage of the system is its 868-MHz technology, which ensures reduced power consumption and wide, interference-free ranges in the radio network. This means that there is no interference from other networks in 2.4 GHz range, such as WLAN and Bluetooth.
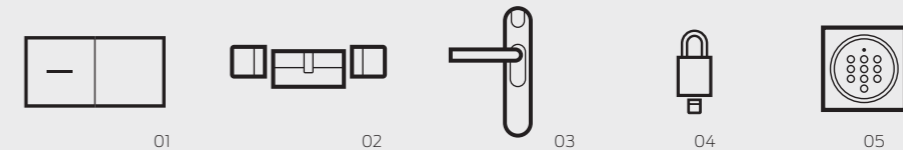
The SmartIntego product line consisting of a locking cylinder, SmartHandle, padlock and PIN code keypad can handle the transmission standards in all established card formats such as MIFARE® Classic, MIFARE Plus®, MIFARE® DESFire®/EV1 and UID as per ISO 14443 for MIFARE®, Legic Advant and HID iClass.

In SmartIntego, SimonsVoss offers a solution with components which have proven their worth a thousand times over in practical use. These components excel thanks to their German manufactured quality and excellent design. Unique functions also ensure optimum security – for people, for investment and for the future.

Alternatively networked with offline too
The SmartHandle, cylinder and padlock are also able to communicate with the access control system in offline mode via what is known as a 'virtual network' using a SmartCard as an identification medium. Not only can cards be read, but they can also be written on. This allows data transfer between the access control system and SmartIntego locking media to forward key security-relevant information such as access rights, blacklists, battery status and physical access lists for each locking operation. This provides mixed functionality between online and offline locking devices within the overall system.

01
02
03
04
05

01
SmartIntego
GatewayNode

02
SmartIntego
Locking Cylinder

03
SmartIntego
SmartHandle

04
SmartIntego
Padlock

05
SmartIntego
PIN code keypad

Exceptional

- **Remote release:** individual locking devices can be activated centrally without a SmartCard.
- **Permanent release:** doors or groups of doors can be switched to 'open' or 'closed' without a SmartCard for specific time frames.
- **Multi-reader:** locking devices can read different card formats.
- **Office mode:** users can use their cards to activate doors in office mode. For instance; a lock can be permanently activated by pre-defined users during working hours.
- **Online mode:** doors are linked to the central computer. Online mode allows firmware to be updated in a wireless link via GatewayNodes.
- **Battery and signal strength:** battery status and signal strength are displayed on all software platforms. If the signal strength between a locking device and GatewayNode reduces due to building alterations, then the locking device can be re-assigned to an alternative GatewayNode with higher signal strength.

SmartIntego
Digital Locking Cylinder

**Multifunctional and easy to assemble,
even as a retrofit.**

The SmartIntego Digital Locking Cylinder provides fit for purpose solutions throughout the building. Internal and external access points can be accommodated with examples such as doors off a corridor, offices, server rooms, laboratory's, riser cupboards and even securing remote buildings. Specific variants even cater for access points with anti-panic and fire door requirements for instance, the list is endless.

In addition to a high security standard and remarkable flexibility, the SmartIntego Digital Locking Cylinder is also extremely easy to fit.

It is installed in minutes with no need for any wiring or drilling. Standard batteries reliably ensure up to 80,000 activations in an online network. An average battery life of five years can be expected in standby mode. Just like other SmartIntego components, locking cylinders are also maintenance-free.

The digital locking cylinder matches its surroundings with an attractive, timeless design available in different versions, such as Euro Profile, Scandinavian Round or Oval, and Swiss Round.
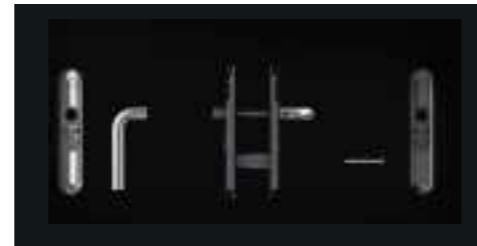
Perfectly engineered
to the very last detail.

Experience, innovation and optimum quality play a key role wherever intelligent components are integrated into complex building technologies. SimonsVoss is setting standards worldwide with unparalleled German manufactured quality.

SmartIntego
Digital SmartHandle

Exceptional design. Excellent technology.

Architects, planners and designers all agree: the SimonsVoss digital door handle is a leading solution in terms of technology and aesthetics. Its balanced design impresses even the most demanding decision makers.

In developing the wireless SmartIntego handle, it was also essential for SimonsVoss to focus on its special advantages for buildings with multiple users. SmartHandle uses a contactless system to communicate with identification media via the card reader integrated into the handle. The batteries perform for five years on average with up to 80,000 activations in online mode.

Another distinctive feature is the innovative snap-in installation. This simplified installation process can be utilised on doors up to 100 mm thickness without any need to drill additional holes. Honoured with the Red Dot Design Award, SmartHandle is an obvious choice wherever timeless elegance and stylish surroundings are desired. Euro Profile, Scandinavian Oval and Swiss Round versions are available.

Intelligent door surveillance with DoorMonitoring.

In its DoorMonitoring design, SmartIntego SmartHandle becomes one of the most compact door monitoring systems in the world. Three integrated sensors – in the fastening screw, the deadbolt contact and the inside handle – check the door status and forward it to the access control system in real time. Security-critical information such as 'Door open' (01), 'Door closed' (02), 'Door lock secured' (03) or 'Not locked' are reliably transmitted to the control centre.

Even exceeded time limits (04) on an open door or a forced intrusion are detected and reported. The double locking in the locking device satisfy insurance requirements completely. As with all SmartIntego SmartHandles, the DoorMonitoring version can be installed in minutes without any drilling or wiring to the door. There is even no need to replace the existing locks.
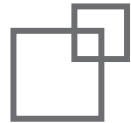

01

02

03

04

A
Bolt contact

B
Fastening screw

C
Inside handle

SmartIntego
Digital PIN Code Keypad

Security times two: PIN code plus SmartCard.

Know-how is one of the key factors in ensuring success for every company. That is why knowledge is often protected in highsecurity areas in the same way as assets and possessions. The SmartIntego Digital PinCode Keypad provides maximum security in cases such as these. Access can only be gained using a SmartCard and by entering a four to eight digit code.

Produced with silver-coloured ABS polymer, the ultra-slim PIN code keypad can be mounted indoors or outdoors without wiring. It can be surface-mounted, also onto glass when required. Batteries last for up to 50,000 activations or up to ten years on stand-by. Honoured with the IF Product Design Award, the exceptional SmartIntego Digital PinCode Keypad functions reliably within a temperature range between −25 ºC and + 65 ºC.

SmartIntego
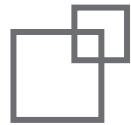# GatewayNode

Seamlessly integrated. No ifs, no buts.

The GatewayNode ensures contiuned connectivity and acts as an intermediary device, facilitating two way communication between the SmartIntego locking products and the 3rd party access control system.

A series of unique characteristics transform the radio-based GatewayNode with an RS485 or TCP/IP interface (PoE 802.3af) into an exceptionally powerful access manager. Each GatewayNode is capable of communicating with up to 16 locking devices via an 868 MHz wireless connection. Thanks to its innovative internal components, it is capable of transmitting so-called white lists with up to 250 card holders from the access control system and stored locally within the locking device itself. Access through the doors is therefore assured in the event of an access control system failure.
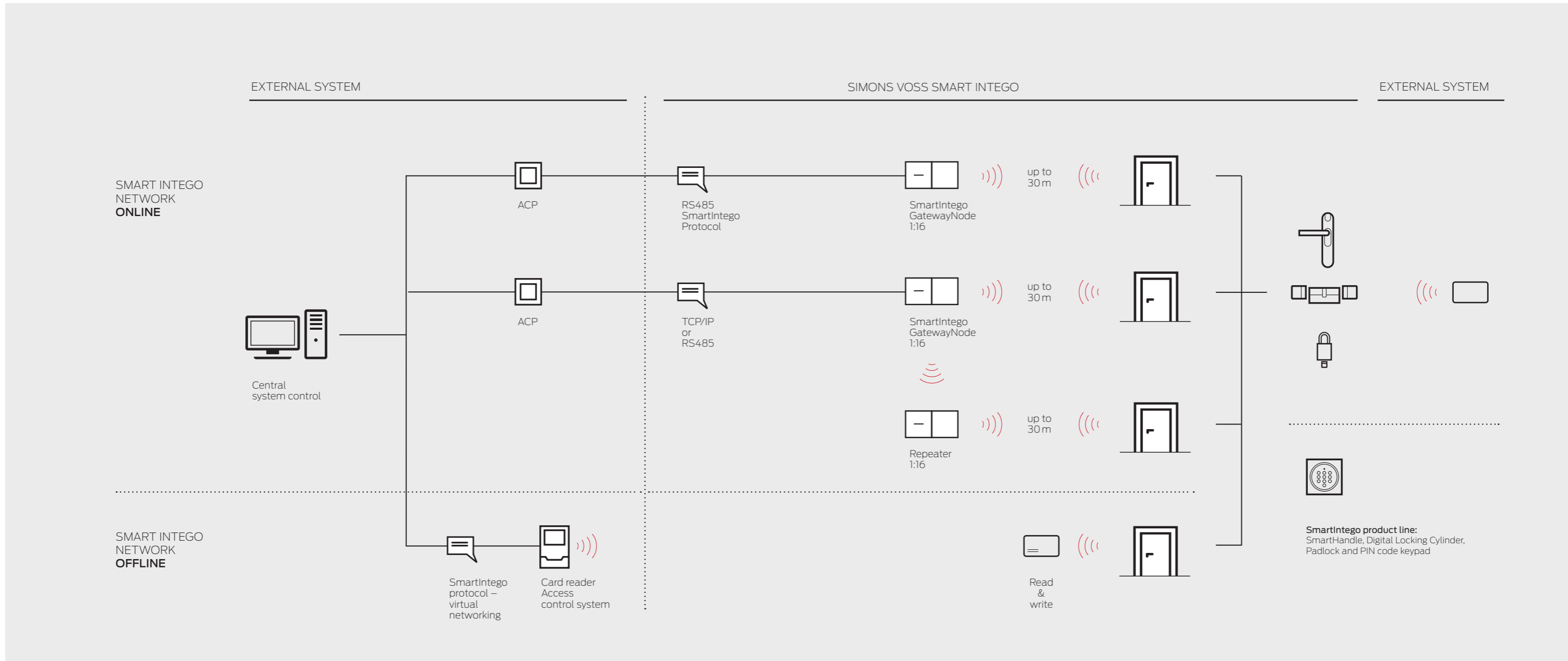
SmartIntego network structure

Always fits wherever required. SmartIntego also offers maximum flexibility and future-proof design for the network connection.
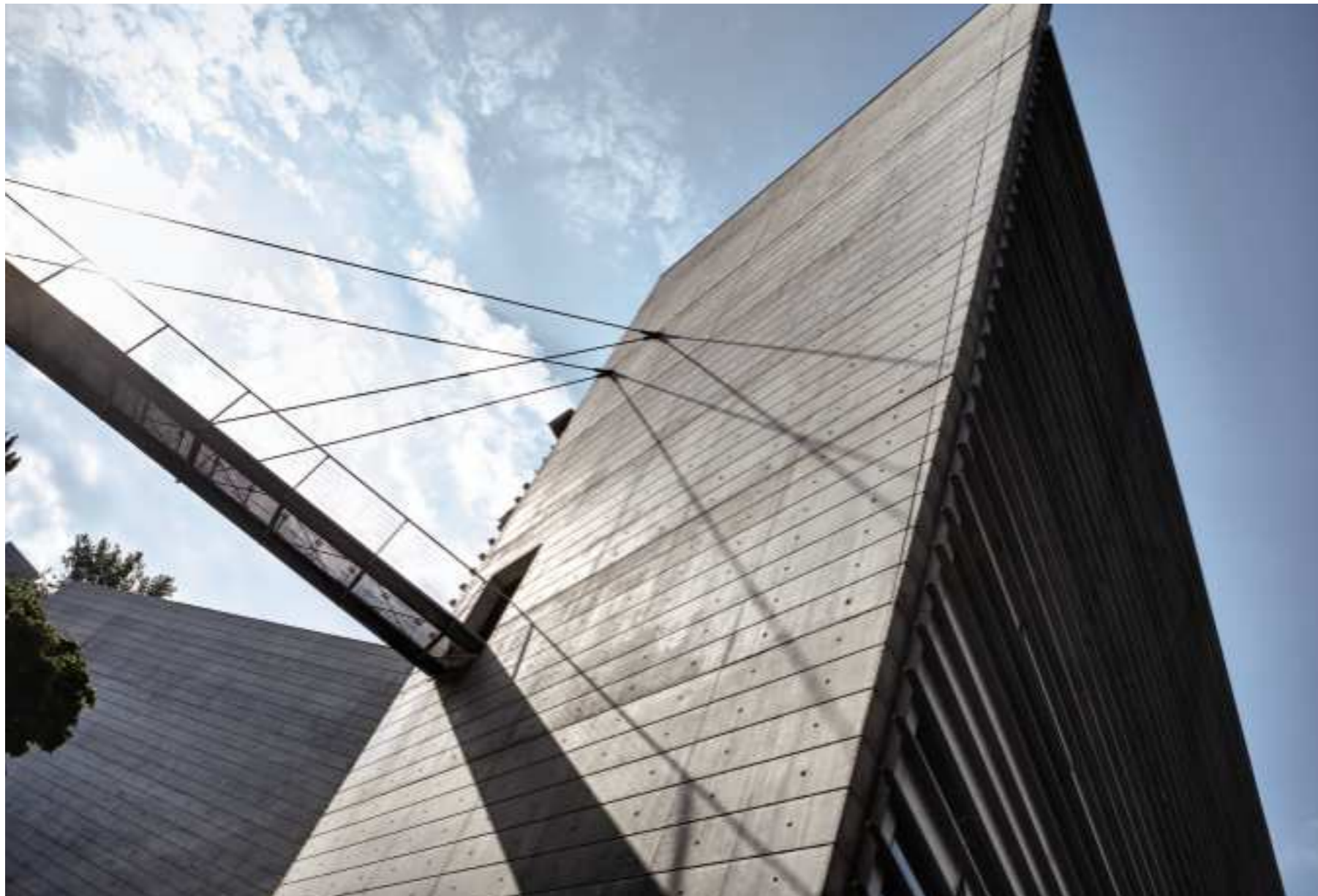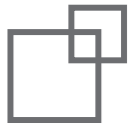
With its high-performance communication protocols, SmartIntego can be seamlessly incorporated into existing access control or building management systems. In online mode, SimonsVoss handles and cylinders communicate directly with the security systems in the control centre via GatewayNodes and access control centres. The electronic intelligence in our system components represents state-of-the-art technology and future-proof investment.

Doors or locking devices without their own connection to a GatewayNode or repeater feature a virtual connection to the overall system. In offline mode, the SmartCard assumes the role of data carrier betwen the control centre and the locking device. Critical security information is written to the SmartCard and is then transferred to the locking device upon SmartCard presentation. Features such as access rights, blacklists, lock battery status and physical access lists are exchanged during each lock activation.

EXTERNAL SYSTEM

SIMONS VOSS SMART INTEGO

EXTERNAL SYSTEM

SMART INTEGO NETWORK **ONLINE**

ACP

RS485 SmartIntego Protocol

SmartIntego GatewayNode 1:16

up to 30 m

ACP

TCP/IP or RS485

SmartIntego GatewayNode 1:16

up to 30 m

Central system control

Repeater 1:16

up to 30 m

SMART INTEGO NETWORK **OFFLINE**

SmartIntego protocol – virtual networking

Card reader Access control system

Read & write

SmartIntego product line:
SmartHandle, Digital Locking Cylinder, Padlock and PIN code keypad

Nine compelling reasons.

Why SmartIntego has special appeal for operators and managers of complex building systems.

01 Components successful worldwide

More than 10,000 SimonsVoss digital locking access control systems, with over 1 million locking devices impress with their precision and reliability in tough, practical use.

02 Supports all major card formats

MIFARE® Classic, Plus, DESFire®, EV1 and UID MIFARE®, UID Legic Advant and UID HID® iClass (if UID complies with ISO standard 14443).

03 Made in Germany

All system components are developed and produced to the highest standards exclusively in Germany.

04 Minimal effort involved for integration

Optimised communication protocols and with a high degree of automation thanks to SmartIntego Manager reduce the work involved to integrate SmartIntego substantially.

05 Optimally networked at all times – also virtually

The exchange of security-relevant information between the access system and SmartCard is guaranteed for each locking activation in offline mode.

06 Unique wireless technology

Wider ranges in the wireless network due to 868-MHz technology ensures no unwanted interference from other networks, such as WLAN and Bluetooth in the 2.4 GHz range.

07 Flawless performance

With their two integrated batteries, the SmartIntego locking cylinder and the SmartIntego SmartHandle provide up to 80,000 locking operations in online mode and up to 50,000 when offline and virtually networked. This ensures years of operation without the necessity to replace batteries.

08 Range of versions for every type of use

Digital SmartHandle is available in Euro Profile, Swiss Round and Scandinavian Oval versions. There is also a Scandinavian Round version of the digital locking cylinder.

09 Perfect in form to the very last detail

Anything which is efficient and useful should also be as visually inspiring. The SmartIntego locking cylinder and the SmartIntego SmartHandle have been honoured with many design awards.

SimonsVoss.
Our lead –
Your benefit.

Everything began with a revolutionary idea in Unterföhring, near Munich: What is produced when you replace conventional keys and cylinders with digital versions? The answer: the first radio-controlled, cable-free locking and access control system in an elegant design featuring German manufactured quality.

Today, SimonsVoss is one of the undisputed technology leaders in the rapidly growing market for battery-operated digital locking and access control systems. More than 12,000 systems installed worldwide attest to our lead in the sector.

There are always highly motivated employees and an excellent environment for enhancing performance behind all innovative product lines. At SimonsVoss, we continually work towards optimising not only our solutions, but also our work environments. At this point, we should highlight a new, ultra-modern production and logistics centre in Osterfeld in Saxony-Anhalt, Germany.

We do not limit our responsibility to what takes place on our premises since SimonsVoss has also met the requirements of the internationally recognized environmental standard ISO 14001 since 2014. We underwent testing by TÜV Rheinland on a voluntary basis to demonstrate our commitment to environmental protection.

SimonsVoss is now successfully represented on a local level through its own subsidiaries in numerous countries such as Austria, the UK, France, Italy, Sweden and Singapore as well as in the Benelux and the Middle East.

Simons≡Voss
technologies

About Allegion™

Allegion (NYSE: Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like
CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas,
Allegion offers a wide spectrum of solutions for private households, companies, schools and other facilities.
Allegion generated 2 billion US dollars in revenue and sells its products in about 130 countries around the world.
For more information, visit **www.allegion.com**.

ALLEGION™