



# SMARTINTEGO

Integrating access control  
into building services systems

The finest in keyless security

**Simons  Voss**  
technologies

# ENTER

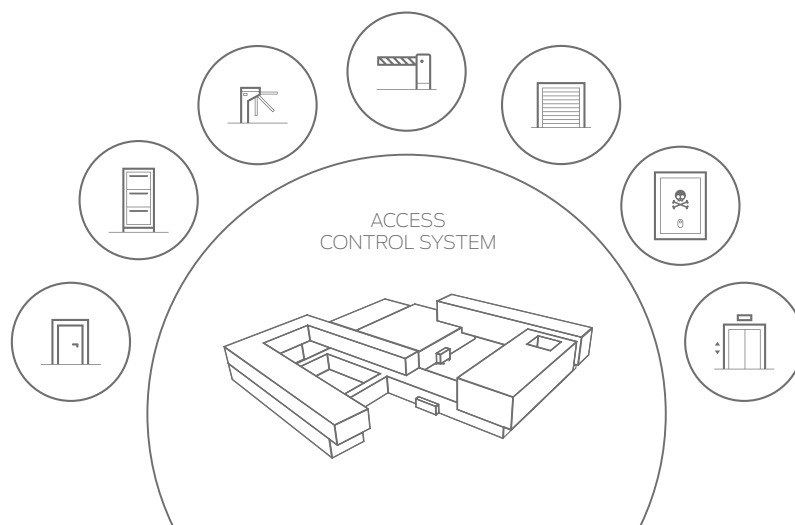


Open flexibly, lock securely, manage easily.



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

extended, our systems also meet highly complex requirements, even in large buildings, and are invariably cable-free in their operation. Needless to say, the entire system is German-made.



SmartIntego Locking Cylinder AX



SmartIntego Padlock AX



SmartIntego SmartHandle AX



SmartIntego SmartHandle



SmartIntego SmartLocker AX



SmartIntego PIN code



SmartIntego GatewayNode

# ACCESS CONTROL AS PART OF BUILDING SERVICES SYSTEMS

Digital access control systems are valued highly in security technology for buildings.



Who is allowed to be in specific parts of the building and who isn't?  
How flexibly can individual access rights be managed?  
How quickly can people and rooms be protected in an emergency?  
Questions such as these present enormous challenges for those responsible for building security. SmartIntego, the SimonsVoss solution, integrates access control into existing building services systems. Flexible, innovative and German-made.

# SMART INTEGO – THE PERFECT SOLUTION FOR INTEGRATED ACCESS CONTROL

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

SmartIntego solutions are always developed in cooperation with an integration partner. This gives the integration partner the opportunity to implement its product philosophy in access control with SimonsVoss.

SimonsVoss SmartIntego components can be incorporated into the integration solution without the need for an additional server or database. They are connected directly to the partner's system via the SmartIntego firmware interface. This interface is the same for all integration partners. It is constantly being further developed and expanded with SimonsVoss paying attention to compatibility with existing integrations. The end customer can choose their tailor-made SmartIntego solution based on their sector and the special application required.

SimonsVoss provides its battery-powered access components for this purpose:

- ❑ The digital locking cylinder AX
- ❑ The SmartHandle door fitting
- ❑ The SmartHandle AX inside fitting
- ❑ The SmartLocker AX cabinet lock
- ❑ The PIN code keypad
- ❑ The padlock AX
- ❑ The gateway that connects SimonsVoss hardware to the integrator's software

We currently have integration partners for the following areas:

- ❑ Office/administration
- ❑ Smart buildings
- ❑ Hospitals
- ❑ Nursing and retirement homes
- ❑ Perimeter surveillance
- ❑ Public transport
- ❑ Student residences
- ❑ From one to over 10,000 doors
- ❑ Connection to CCTV (video surveillance)
- ❑ Connection to time systems
- ❑ Connection to telecommunications systems
- ❑ Connection to room booking systems
- ❑ Connection to IDS (intruder detection systems)

**SimonsVoss attests trouble-free integration by certifying the partner, thus guaranteeing the company's high quality standards.**

# INTEGRATION PARTNERS

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SimonsVoss is in constant, close contact with integrators.



You can find our integration partners on our website

<https://www.smartintego.com/int/home/smart-intego/integration-partner>

# HOW MUCH “ONLINE” WOULD YOU LIKE?

Basically, SmartIntego solutions can be operated as a virtual or online network. Both solutions can also be operated side by side in a single system.



## VIRTUAL CARD NETWORK – THE VIRTUAL NETWORK

In a virtual network, data is exchanged on update terminals installed in the entrance area. These gateways transfer access authorisations to cards, for example.

### ADVANTAGES

- // Cost-effective installation on all doors (no network infrastructure necessary)
- // Locking devices can be used completely wirelessly. Changes to authorisations are generally made using the integrator’s update readers
- // Space-saving card template
- // Fast reading behaviour on the locking device, secure transactions when writing
- // Access list obtained on the integrator system card
- // System events obtained on the integrator system card (locking device battery statuses)
- // Security: lost cards disabled using the blacklist function and expiry date on the cards. Lost card is deleted when detected/activated for the first time after blocking
- // Cards with different functions/configuration possible in the system, such as access card, separate blacklist distribution card, emergency card, upstream card for collecting locking device information
- // Combinations of functions possible on a credential

**Whether Virtual Card Network or Wireless Online, both variants offer the following functions:**

- ❑ A management system functioning in the background
- ❑ Just one single card for the user for many applications
- ❑ The locking components have a standardised design
- ❑ Component operation is always the same for the user
- ❑ Functions on the door: Open door, deny access, office mode, schedules. Disabled card for long opening, emergency access card, e.g. for the fire service, access lists and escape and return (time-controlled return function)



## WIRELESS ONLINE – THE ONLINE NETWORK

The integrator software and all locking devices are linked wirelessly – essential for data exchange in real time. Can also be used in a mix with Virtual Card Network.

### ADVANTAGES

- // Real-time communication with the locking device
- // Online applications
- // 2-factor opening (PIN and card)
- // Real time door monitoring (door status display)
- // Direct connection to other systems, such as video surveillance, IDS, telecommunications system
- // Live access list in the integrator system
- // Live status of locking devices (wireless signal monitoring/connection, battery status)
- // Security: immediate disabling of lost cards
- // Backup function in the form of a locking device-specific white list
- // Use of a PIN code keypad
- // Use of one input contact and several outputs on one battery-supported component (Node.IO)
- // Encrypted and wireless communication to the locking devices on 868 MHz
- // Integration into existing IT infrastructure possible



In the **online network**, **DoorMonitoring** optionally displays the status of each door, enabling critical areas to be managed efficiently.

# DIGITAL LOCKING CYLINDER AX SMART INTEGO

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High quality. Durable. Future-proof.

The Digital Cylinder AX is the most powerful cylinder we have ever had. It is also the most user-friendly: An ergonomic yet compact thumb-turn with optical and audible signals makes operation easier.

We have also given priority to high-quality materials. This ensures that the AX Cylinder is robust and durable with very low operating costs at all times.

These are the highlights of Digital Cylinder AX – SmartIntego:

- ❖ No wiring or drilling. Extremely fast, uncomplicated installation without the use of special tools.
- ❖ Flexible thanks to modular design: The Cylinder AX can be quickly and efficiently adapted to any door thickness thanks to individually adjustable cylinder lengths.
- ❖ Optimum reliability: The SecureElement stores the encrypted system data and forms part of the new AX security architecture. This special chip is an integral part of authentication and cannot be read from the outside.
- ❖ Equipped with core and profile drilling protection as standard.
- ❖ Very long battery life: up to 12 years on stand-by.
- ❖ Protected against extreme weather influences and ingress of dust and water up to protection class IP67.





# SMART INTEGO

## DIGITAL SMART HANDLE AX

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### Next Keyless Generation: The intelligent fitting for interior doors

Thanks to its modular design, wealth of variants and innovative functions, SmartIntego SmartHandle AX brings a new level of intelligence, convenience and security to doors.

- ❖ Provide a flexible response to any situation on site: SmartHandle AX can be adapted to the spindle, door thickness and centres distance. The handle itself can be mounted on the left or right. Suitable for metal frame doors and mounting on oval escutcheons. Can be combined with a panic bar.
- ❖ Exceptionally long battery life (up to 180,000 operations in wireless online mode).
- ❖ Can be combined with standard handles by well-known manufacturers.
- ❖ Also available in a version with access control on both sides.
- ❖ Maximum data security thanks to the integrated Secure Element.
- ❖ Operational safety thanks to mechanical and electronic stability. It has successfully completed a durability test of 1 million cycles.



# SMART INTEGO DIGITAL SMART HANDLE

The classic for exterior doors.

SmartIntego SmartHandle reliably controls large visitor flows. Waterproof, it can be mounted with a single screw in minutes with no drilling required thanks to the patented snap-in method.

❖ Multi-award winning design

With its elegant, multi-award-winning design, the intelligent fitting matches a wide variety of door types in its appearance.

❖ Wide range of variants

Can be supplied with different SimonsVoss handle variants and cover widths depending on the application and area of use. Available in various profiles.

❖ Increased protection against burglary

SmartHandle conclusively demonstrates its intelligence on doors used by many different visitor groups. As the electronics are located on the inner side of the door, SmartHandle offers exceptional resistance to break-ins.

❖ Wireless online door monitoring

On request, restricted access rooms can also be equipped with door monitoring to keep an eye on door statuses.



## 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 internal handle – check the door status and forward it to the access control system in real time. Security-critical information such as “Door open” (01) or “Door closed” (02) or “Door lock locked” (03) or “not locked” thus reliably reach the control centre.

Even exceeded time limits (04) on an open door or a forced break-in are detected and reported. The double locking in the locking device satisfies insurance requirements. As with all SmartIntego SmartHandles, the DoorMonitoring version can be installed in minutes without any drilling or wiring to the door.



# DIGITAL CABINET LOCK SMART INTEGO SMART LOCKER AX

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Security and comfort do not stop at the office door.

SmartLocker AX is now the first SimonsVoss system for cabinets and lockers. SmartLocker AX offers maximum flexibility, fits on locker or cabinet doors with no need for drilling and can be quickly and easily installed with the SimonsVoss Quick-Click system. Whether in the manufacturing environment in industry, hospitals or simply in the lockers of gyms, swimming pools or schools.

SmartLocker AX means simple, intuitive installation, maintenance and access management with the latest future-proof technology and user-friendly opening and locking. SmartLocker AX is the SimonsVoss product among locker locks.



# SMART INTEGO DIGITAL PIN CODE TERMINAL

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## Security times two: PIN code plus card

Know-how is one of the key factors in ensuring success for every company. That is why knowledge is often protected in high-security areas in the same way as valuable possessions. In such cases, the SmartIntego digital PIN code terminal ensures maximum security: access is only possible if the smart card is authorised on the cylinder or locking device and a PIN code is also entered.

Made of silver-coloured ABS plastic, the ultra-slim PIN code terminal can be mounted indoors or outdoors with no wiring necessary. 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 PIN code terminal functions reliably within a temperature range between - 25 °C and + 65 °C.



# SMART INTEGO GATEWAY NODE

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Seamlessly integrates peripherals and software

The GatewayNode ensures perfect connection from SmartIntego components to the central control system for building security. As an intermediary between locking component intelligence on the one hand and the access control software on the other, the GatewayNode ensures flawless cooperation between the two.

A series of unique properties transform the radio-based GatewayNode with a RS485 or TCP/IP interface to the integrator system (PoE 802.3af) into an exceptionally powerful access manager. Each GatewayNode is able to transmit data between the integrator system and the locking device in real time. In addition to the online function via the GatewayNode, each locking device can also receive up to 250 dedicated local authorisations in advance.



# EIGHT COMPELLING REASONS:

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

- 1. Supports all important identification types**  
MIFARE® Classic, MIFARE® DESFire® / EV1/EV2/EV3, UID (card serial number) as per ISO 14443 (z.B. MIFARE®, Legic® Advant, HID® SEOS)
- 2. Made in Germany**  
All system components developed and manufactured in Germany to the highest quality standards.
- 3. Reduced integration workload**  
Powerful communications protocols and a high degree of automation thanks to SmartIntego Manager significantly reduce the work involved in integrating SmartIntego.
- 4. Optimally networked at all times, including virtually**  
Exchange of security-relevant information between the management system and SmartIntego locking media is guaranteed for each locking operation in Virtual CardNetwork mode.
- 5. Unique wireless technology**  
Wider ranges in the wireless network due to 868-MHz technology ensures no interference from other networks, such as WLAN and Bluetooth in the 2.4 GHz range.
- 6. Flawless performance**  
With two integrated batteries, SmartIntego locking cylinders and SmartIntego SmartHandles manage up to 80,000 activations or 5 years in standby mode in wireless online operation or up to 50,000 activations or 6 years on standby in a virtual card network. This ensures years of operation without needing to replace batteries. With its four batteries, the SmartHandle AX even manages to achieve up to 180,000 activations in wireless online operation and up to 9 years in standby mode. The new Digital Cylinder AX impresses with up to 12 years in stand-by mode.
- 7. Variety of models for all cases**  
Our SmartHandles are available in Euro Profile, Swiss Round and Scandinavian Oval versions. There is also a Scandinavian Round version of the digital locking cylinder.
- 8. Perfect in form down to the tiniest detail**  
Anything which is efficient and useful should also be beautiful: the SmartIntego locking cylinder and the SmartIntego SmartHandle have been honoured with many design awards.



## 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.

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For general safety and maintenance information, visit [www.simons-voss.com/en/security.html](http://www.simons-voss.com/en/security.html)

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