dormakaba

System connections for peripherals

Tailor-made solutions to satisfy security requirements and construction specifications.

Product Brochure

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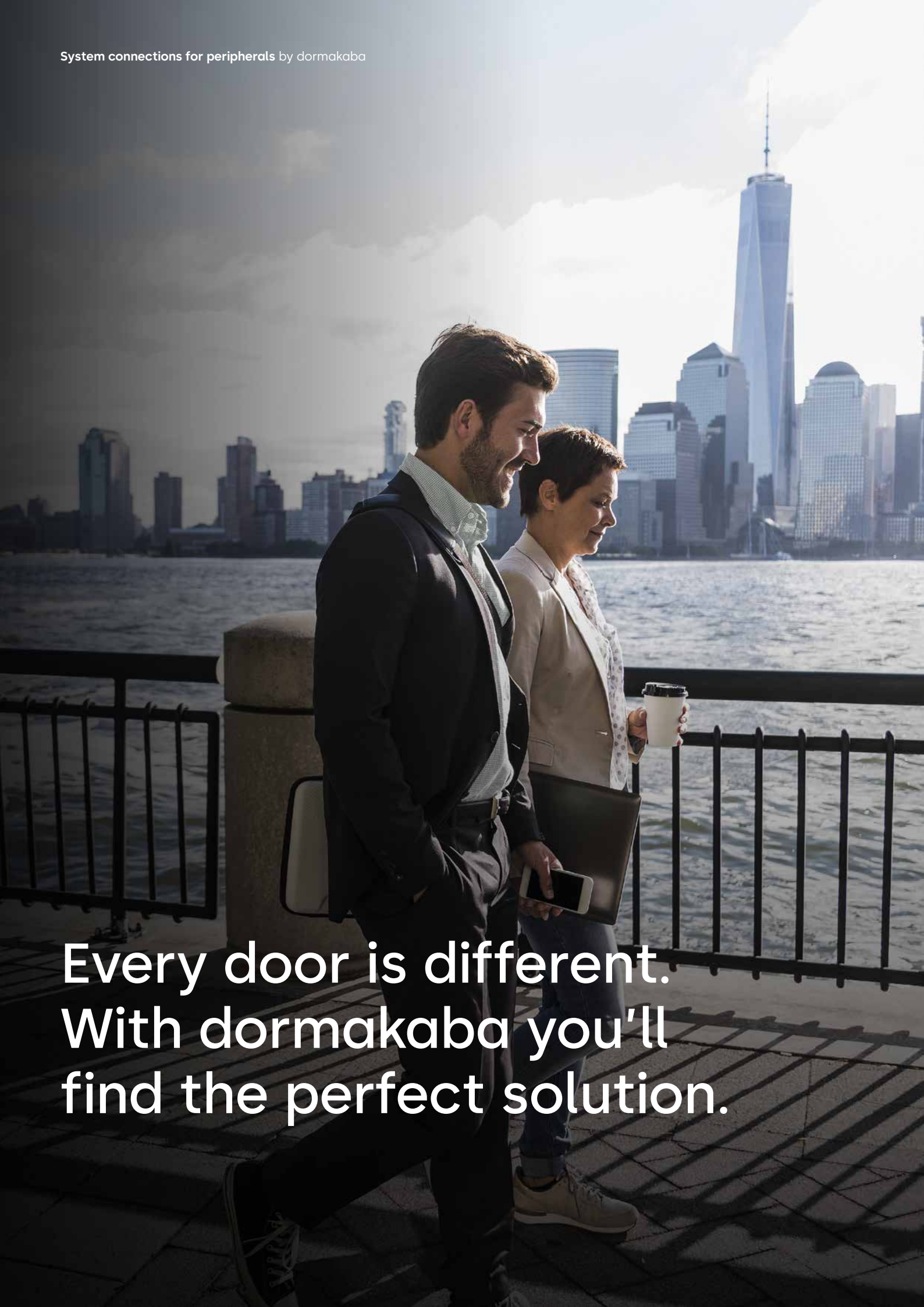


Every door is different. With dormakaba you'll find the perfect solution.

The freedom to choose what is really needed

Companies vary widely – and so do their needs: Good to have an access solution that can be customized to match those needs exactly.

Not all areas in companies have the same requirements of security and convenience. At a high-traffic main entrance, it is important that all authorised persons have trouble-free access even at peak times. Other doors are more remote and less busy but should still be monitored and integrated at low cost.

So it's an advantage if a customised solution is possible for every constellation. For instance, some access points may have to be monitored in real time and controlled remotely. Others may require that access is regulated and logged – even though the door is not directly connected to the network. Often there are construction specifics that severely limit the options.

With dormakaba, you get the right solution for every door in an integrated access solution. And when your company changes, you need additional access points or establish new locations, you simply adapt your access solution to your needs.

Different concepts under one roof – your benefits:

Security
- All access permissions at a glance
- Logging of all processes

Needs-based
You choose the right technology for your access points by:
- Installation
- Security level
- Door functions and uses

Expansion
You adapt your system easily in case of:
- New security requirements
- New conditions of use
- Construction modifications or extensions

Efficiency
The combination of different types of connections offers:
- Low-cost, simple extensions
- Optimisation of installation and operating costs

Protection of your investment
- Upward compatibility: You use the installed dormakaba peripherals – also in future system generations
- Existing mechanical or electronic locking systems can be integrated
- Solutions are constantly improved, so you will always be on the cutting edge of technology

Online
High-performing and always connected

How does the online connection work?
- The access points are wired and connected via a network to the access system.

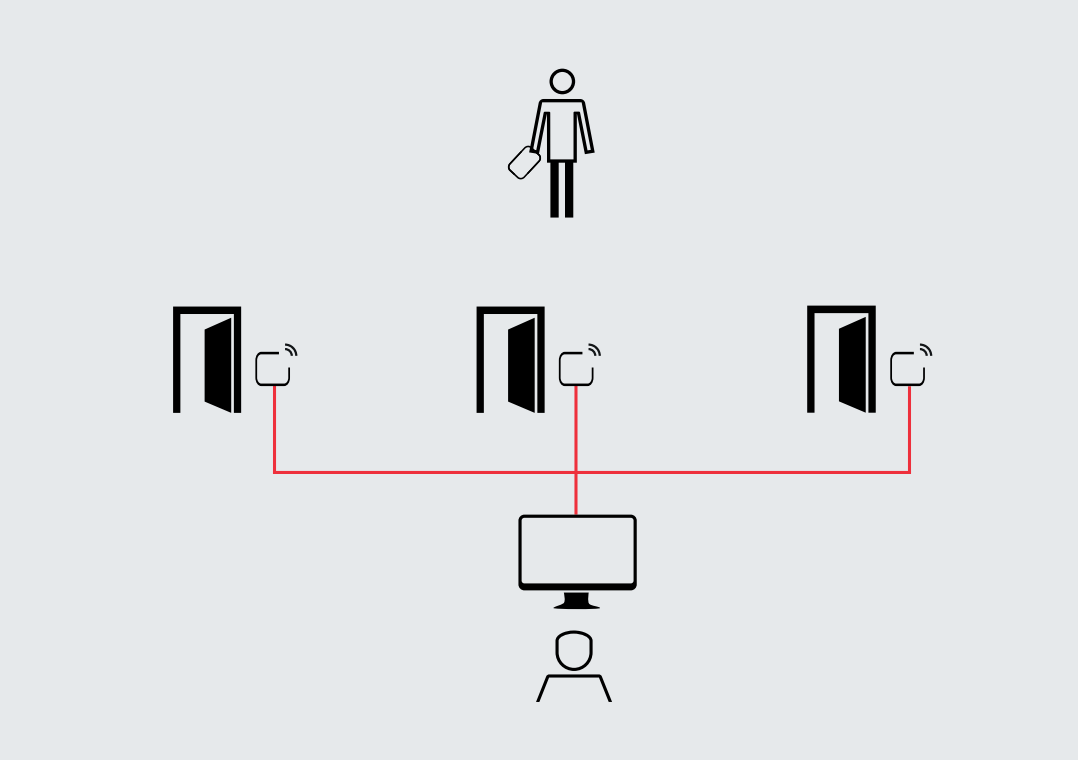
How do new access permissions get to the access points?
- Via the network, in real time

What happens with events and alarms of the door?
- All events are forwarded to the access system in real time

What applications are typical for an online connection?
- Securing the exterior
- Complex door situations like revolving doors, turnstiles or interlocks, doors to sensitive areas, 2-factor authentication
- High traffic and frequent changes in access permissions
- Door monitoring and remote controlling of doors
- Transmission of door alarms and events
- Extended access functions such as room tracking
- Integration in intrusion and evacuation systems

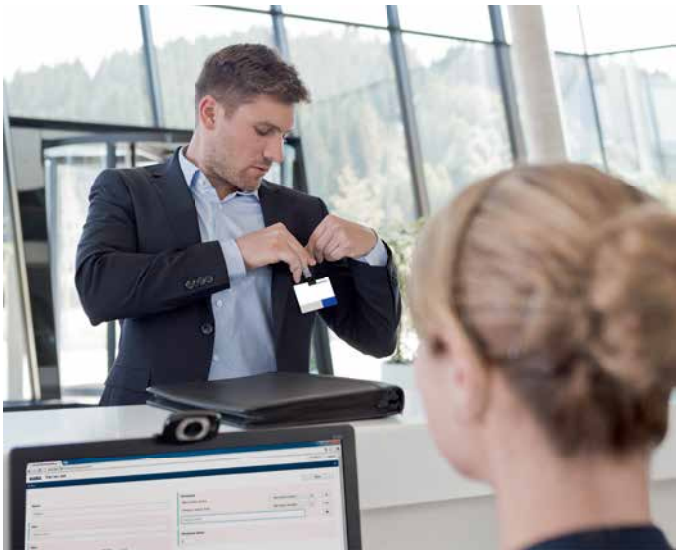
What are the advantages of an online connection?
- High degree of availability and connection stability
- Unified administration and efficient organisation
- Transmission of data in real time
- Low operating costs
- Comprehensive protection from attacks and manipulation

01
Brief overview:
The online connection.



02
Security and high availability,
even if the network connection fails.

03
Online means: from simple access point to
complex interlocks – all in one system.



04
The minute the access medium is handed over, authorised persons already have access. All data are exchanged in real time.

05
Wide variety of online components. And for increased security requirements, you decide whether an additional PIN code or biometrics will be used.

Wireless
Connected via radio

How does the wireless connection work?
- The access points are connected to the access system via radio

How do new access permissions get to the access points?
- Immediately via radio

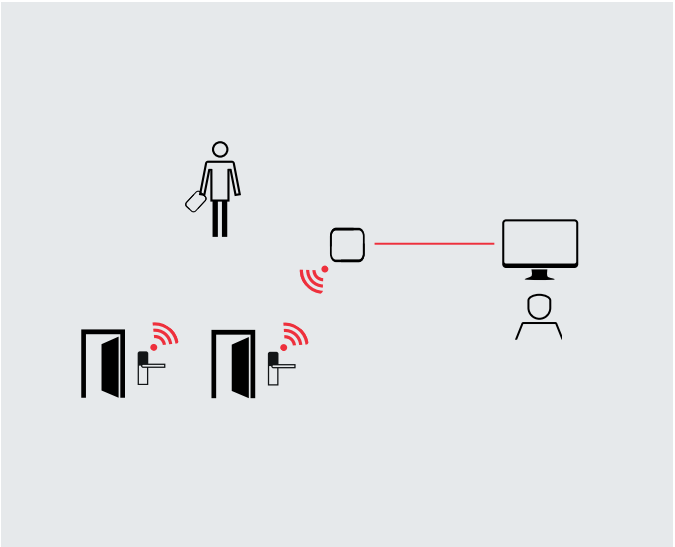
What happens with events and alarms of the door?
- Events can be directly transmitted to the system or retrieved by the system

What applications are typical for a wireless connection?
- Linking of access points when wiring at the door is not possible
- Integration of remote branches
- Doors which must be opened and closed by remote control
- Doors with infrequent use but with security requirements that demand a connection with the system
- Access points where wiring is difficult or uneconomical: for example, glass doors or historic buildings

What are the advantages of a wireless connection?
- Easy installation at the door
- Efficient administration: permissions are assigned as done “online”
- Increased security thanks to direct radio transmission
- Easy extension of existing system solutions

01
Glass doors are challenging in terms of installation. A wireless connection does not need cabling at the door.

02
The advantages are evident especially for protected buildings: The easy installation preserves the historic structures.



03
The wireless connection: The gateway links the wireless door components with the access system..

04
Even remote rooms are easily and conveniently integrated into the overall system via radio.

05
Lost or stolen ID cards can easily be blocked.

CardLink/AoC

The ID card is the connection

How does the CardLink-/AoC* connection work?

- The access points are not wired
- The connection between the access system and the door component is established via the ID card

How do new access permissions get to the access points?

- At update readers or terminals (online), the rights of users are transferred onto their ID cards
- The update readers are fitted at central locations, e.g. at the staff entrance, in the lift area or in the cafeteria
- The battery state of a component can be transferred to the system via the ID card.
- The access events of a person can be transferred to the system via the ID card (CardLink)
- No door monitoring
- No reporting of door events and alarms

What applications are typical for a CardLink/AoC connection?

- Non-wired doors are to be seamlessly integrated in the online access control
- Doors to offices, laboratories, archives or general access points that are not used very frequently and do not require door monitoring
- Doors where a radio transmission is not possible or is uneconomical

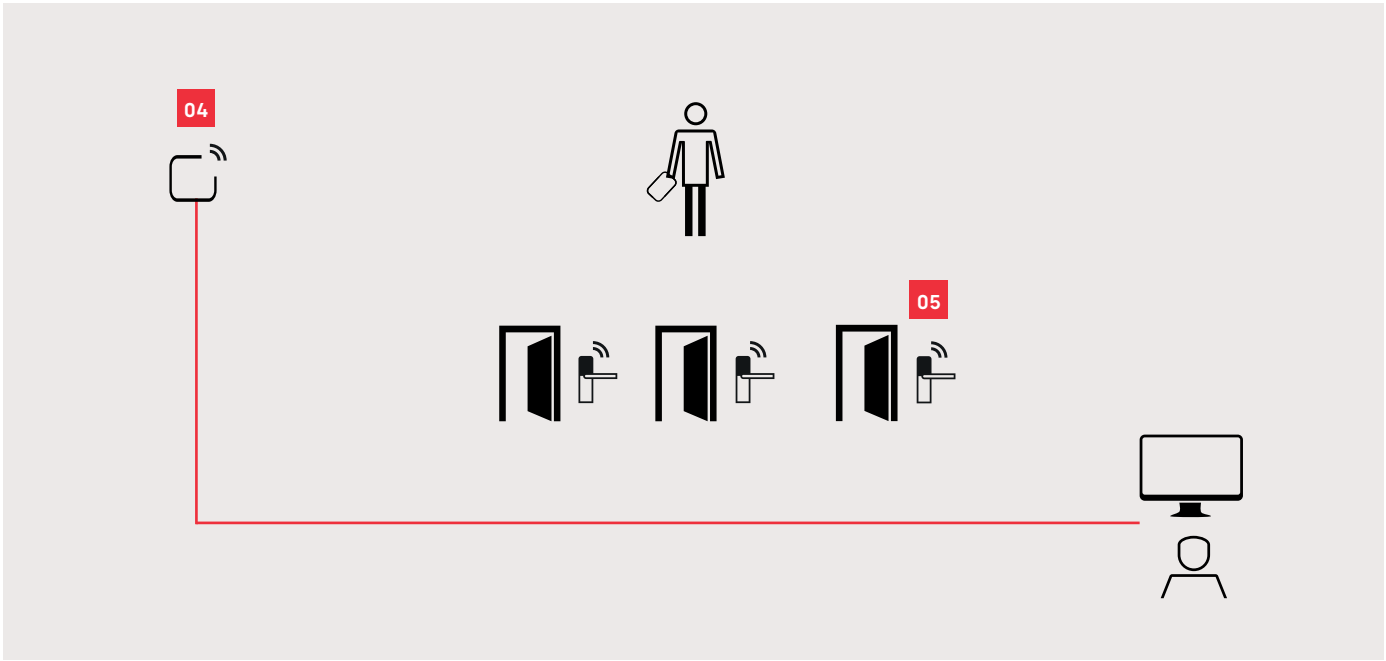
What are the advantages of a CardLink/AoC connection?

- Low-cost installation as doors do not need to be wired
- Coordinated investments through combination of online and CardLink/AoC
- Efficient administration: Permissions are assigned as done "online"

*AoC = Access on Card

01
At an update reader or terminal, the access permissions are transferred to the ID cards.

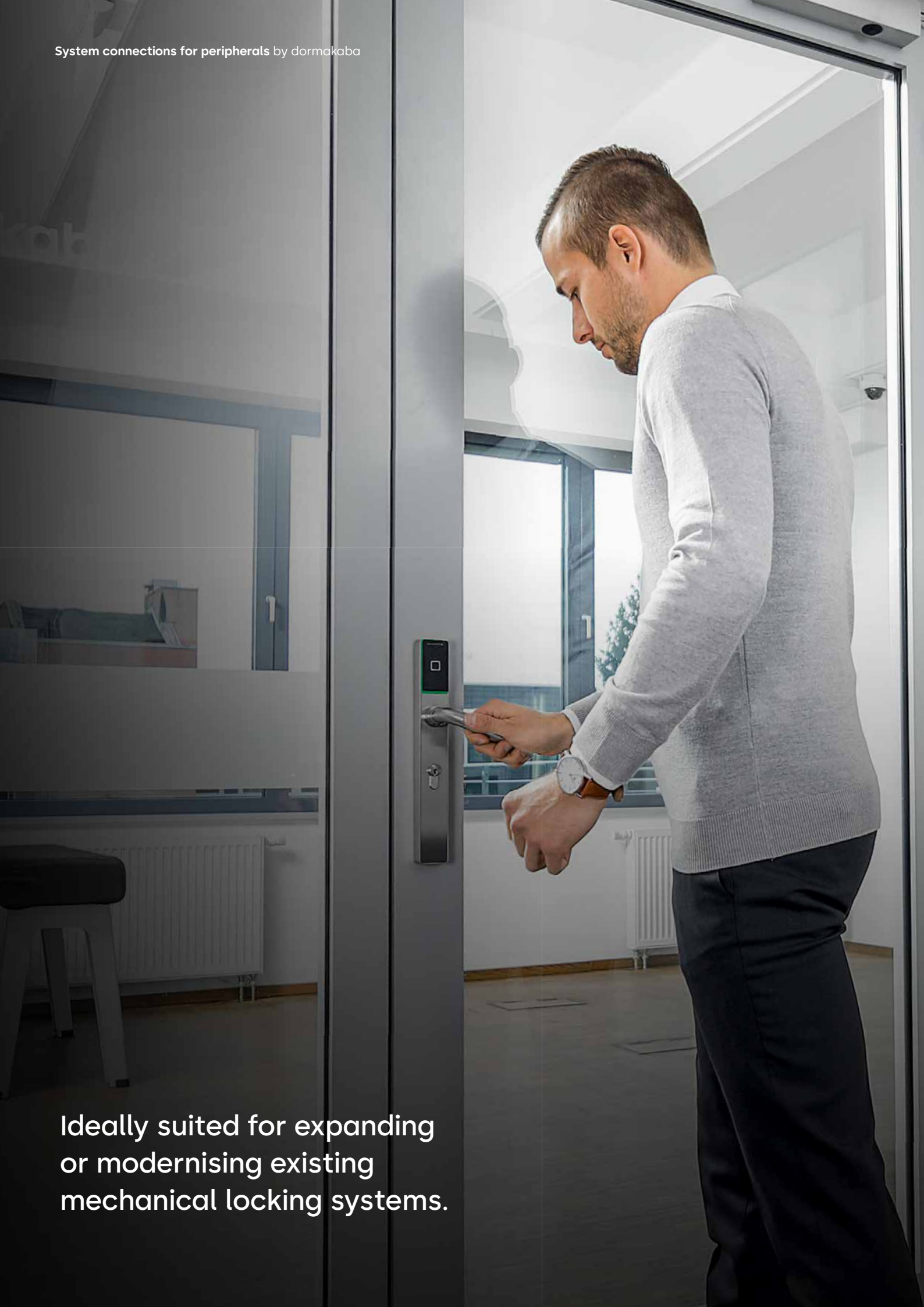
02
The standalone components at the door recognise during booking whether the medium is authorised.



03
Brief overview:
The CardLink/AoC connection

04
The administrator assigns access permissions. The update reader is connected to the system online. At the update reader, the users' access permissions are transferred to their ID card.

05
The access component at the door is not directly connected to the system.



Ideally suited for expanding or modernising existing mechanical locking systems.

Whitelist
simple and independent

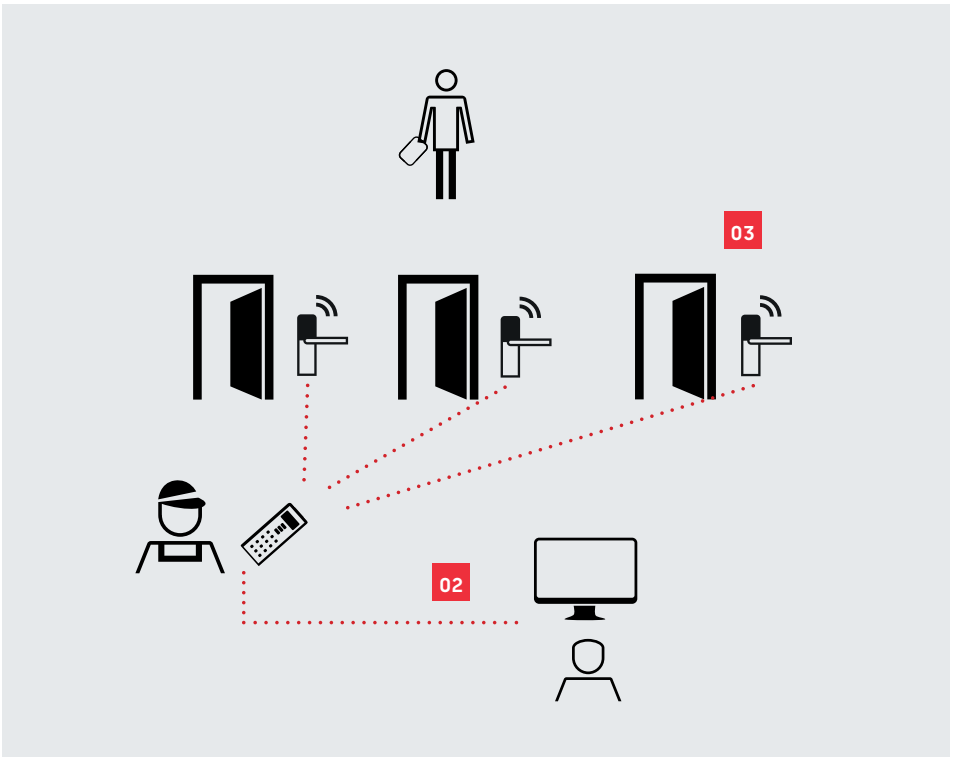
How does the whitelist connection work?
- The access points are not wired
- The access permission is stored in the component

How do new access permissions get to the access points?
- The authorised media are loaded into the components on site with a programmer

What happens with events and alarms of the door?
- The status of the whitelist component (battery state and booking memory) and the booked accesses can be “picked up” with the programmer; they are manually transferred to the access system
- No door monitoring
- No reporting of door events and alarms

What applications are typical for a whitelist connection?
- For small, decentralised companies with few changes to access permissions
- Doors to small, scattered buildings, branches, offices, workshops
- For organisations with frequently changing users who ar not centrally administrated in the master staff list (companies with frequently changing part-time staff, public institutions, etc.)

What are the advantages of a whitelist connection?
- Low-cost installation as doors do not need to be wired
- No update reader required
- When transitioning from a mechanical locking system, operators use the familiar locking plan view for programming and displaying permissions



01

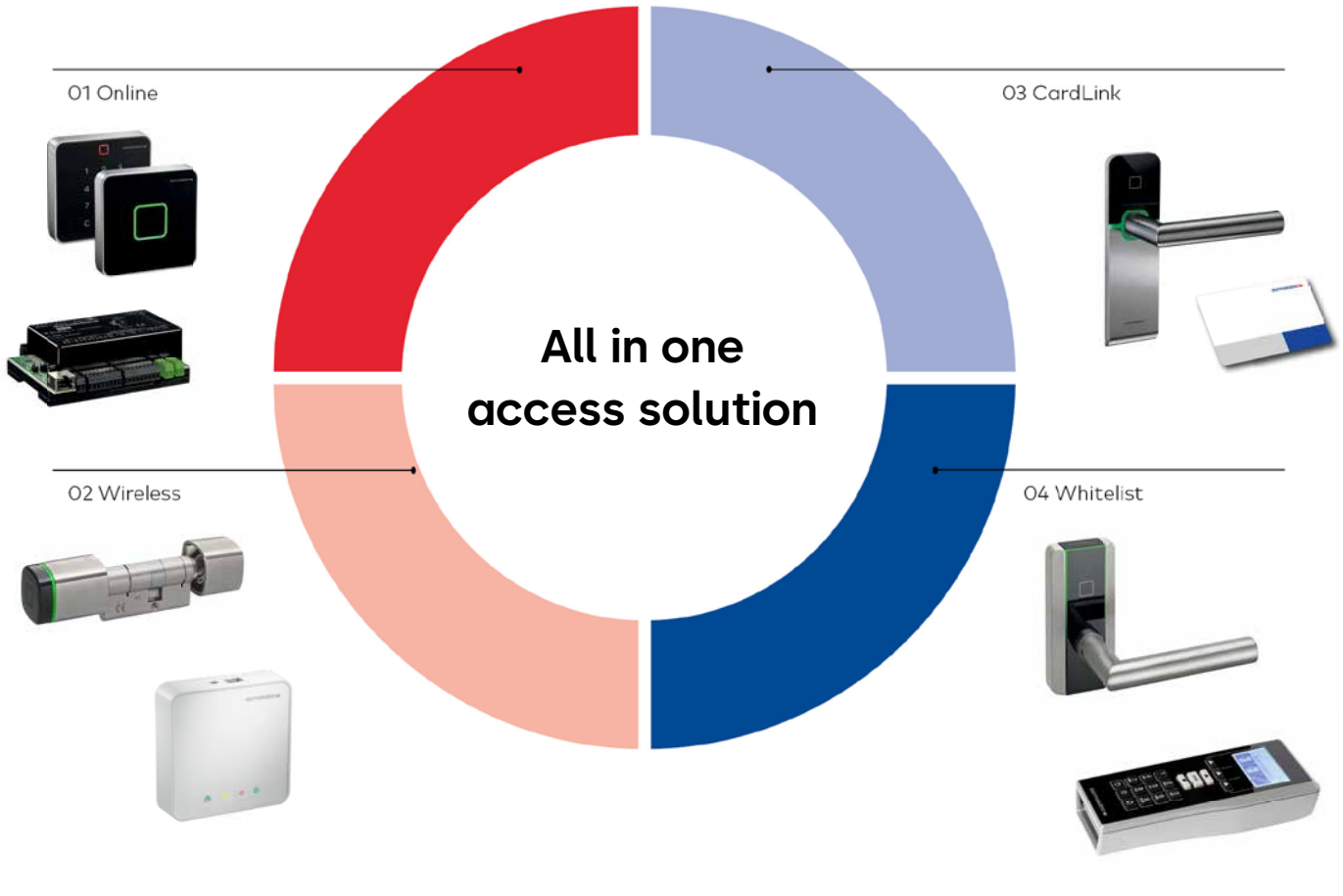
01
Brief overview: The whitelist connection

02
The access permissions are loaded onto the programmer by the system.

03
The service staff programmes the access component with the programmer on site.

Online, wireless, CardLink/AoC, whitelist

How does it work?
The key facts in a side-by-side comparison.



01 Online
- High traffic numbers
- Complex door situations
- Door alarms and events in real time
- Different security levels

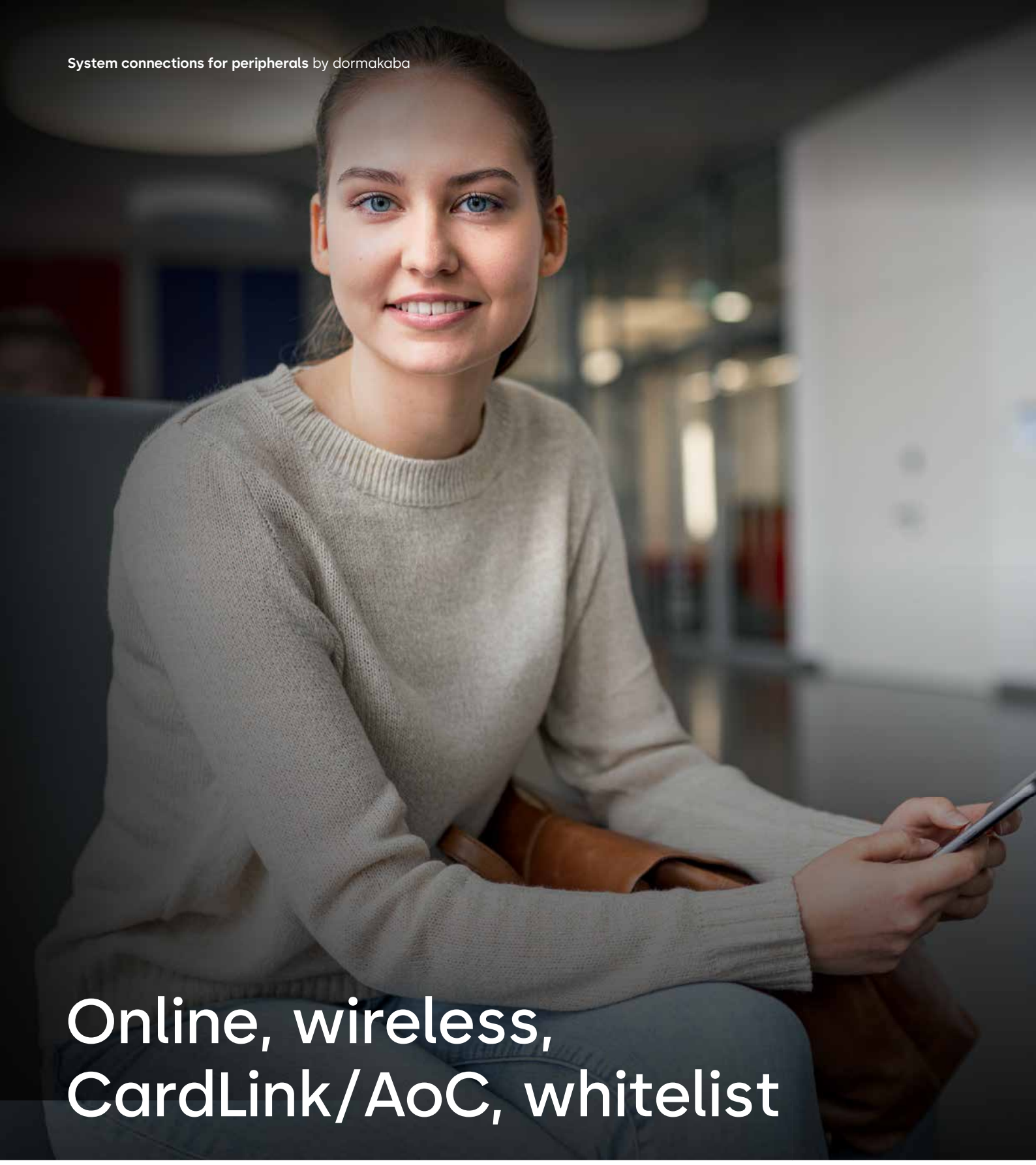
02 Wireless
- Easy installation
- Doors controlled/released/blocked manually
- Easy extension of existing systems

03 CardLink/AoC
- Easy installation
- Remote doors, not reachable via wire or radio
- Extending systems at low cost with wireless components

04 Whitelist
- Familiar locking plan view for lock technology specialists
- Easy to expand mechanical locking systems with electronic components

An overview of the most important facts

	Online	Wireless	CardLink/AoC (standalone)	Whitelist (standalone)
Security requirements	High	Medium	Medium	Low
Permission changes / traffic	High	Medium	Medium	Low
Door monitoring	Yes	Yes	No	No
Typical application	Doors to outside areas, sensitive areas (revolving doors, turnstiles, interlocks, additional verification)	Access points where wiring is difficult or uneconomical (glass doors, historic or existing buildings)	Doors to offices, laboratories, archives or general access points	Doors to smaller, scattered buildings or installations (branches), doors to offices or workshops
Validity period of permissions	Limited or unlimited time	Limited or unlimited time	Limited or unlimited time	Unlimited (hand-out/return of media)
Communication between access point and system (permission change, component status)	In real time via network	Automatically via radio	Automatically via user medium	Manually, on site via programmer
Reporting of door messages and alarms to the system	Yes	Yes	No	No
Immediate blocking of a person or user medium incase of an event	In real time via network	Automatic via radio	Manually, on site with service medium at door component	Manually, on site via programmer at door component
Update of components (firmware)	Central via network	Central via radio	Via programmer	Via programmer



Online, wireless, CardLink/AoC, whitelist

What connection fits best?

Which type of connection is best for you depends on your needs. Every type of connection has its advantages. The table gives you a clear idea of which type of connection is suitable for you. The best part: you can decide individually which types of connections you want to combine in your access solution. You are free to choose among security aspects, economic considerations or matters of convenience. We'll be glad to advise you, to make things easy, cost-efficient and secure for you.

What type of connections is right for your needs?

	Online	Wireless	CardLink/AoC (standalone)	Whitelist (standalone)
High traffic numbers	++	-	-	-
Complex door situations like turnstiles or interlocks	++	-	--	--
Frequent permission changes	++	+	-	-
Transmission of door alarms and events	++	+	--	--
Real-time transmission	++	+	-	--
Low administration effort (for operation)	++	+	+	-
Door monitoring	++	+	--	--
Doors are to be controlled/released/blocked manually	++	++	--	--
Different security levels, such as additional verification with PIN code or biometrics	++	--	--	--
Central authorisation management	++	++	++	+
No structural changes to the door possible (glass, monuments protection, etc.)	--	+	++	++
No power supply on site required	--	+	++	++
Easy installation	--	+	++	++
Remote doors, not reachable via wire or radio	--	--	++	++
Access components with battery	--	++	++	++
Automatic reporting of battery state to the system		++	+	--

++ Ideally suited
+ Well suited
- Suitable with limitations
-- Not suitable

We make access in life secure and smart

Our offer

- Door control
- Automatic door systems
- System Solutions
- Access and Time
- Mechanical
- Locking Systems
- Hotel access systems
- High Security Locks
- Key Systems
- Movable Walls
- Services
- Consultancy
- Planning
- Implementation
- Commissioning
- Maintenance

Our focus industries


Education


Airports


Office buildings


Health care


Energy & power


Banking & insurance


Private living


Residential complexes


Industry & production


Government & administration


Rail transport


Hotel & food industry


Retail

Our values

Customer first
The needs of our customers, partners and users are the focus of our business.

Curiosity
Constantly searching for and recognising trends forms the basis for the development of our future-oriented solutions.

Service
To ensure our customers are satisfied, we go the extra mile and set the highest standards in terms of security, quality and reliability.

Courage
We are determined to pursue our goal of consistently developing solutions that offer real added value to our customers and users.

Trust
Our key corporate value is the basis of our operations. This means our customers can count on being in good hands at any point in time.

Our company

More than
150 Years
of experience

130 Countries

Round 15,000
employees
worldwide

More than
2,000 Patents

Listed on the stock
exchange SIX Swiss
Exchange (DOKA)

Our company
Sustainability Report
GRI Standards

ISO 9001
Certificate

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability

Our offering

Access Automation Solutions

Entrance Automation
Entrance Security

Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems

Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems

Services

Technical Support
Installation and commissioning
Maintenance and Repair

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