SMARTair® Wireless Access Control Product/Technology Overview

ASSA ABLOYOpening Solutions

Experience a safer and more open world



SMARTair solution











A SMARTair solution is built around three main elements:

- 1. Wire-free locking devices to secure doors and other openings
- 2. Mobile phone based and/or hard RFID credentials are issued to users no more keys
- 3. Intuitive software manages everything without hassle. You decide (and monitor) who goes where and when







Software and management equipment

- · TS1000 software
- · Web Manager
- Card encoder
- · Portable Programmer or PC-TO-LOCK
- Updater (for Update on Card system)
- · HUB (for Wireless system)

Credentials

- · RFID credentials
- · Mobile phone credentials
 - Openow
 - · SMARTair App

Electronic door devices

- · *i-max* escutcheons
- · Wall readers
- Knob cylinders
- · i-gate padlock
- · i-volution | i-minimal locks*
- · e-motion cabinet lock

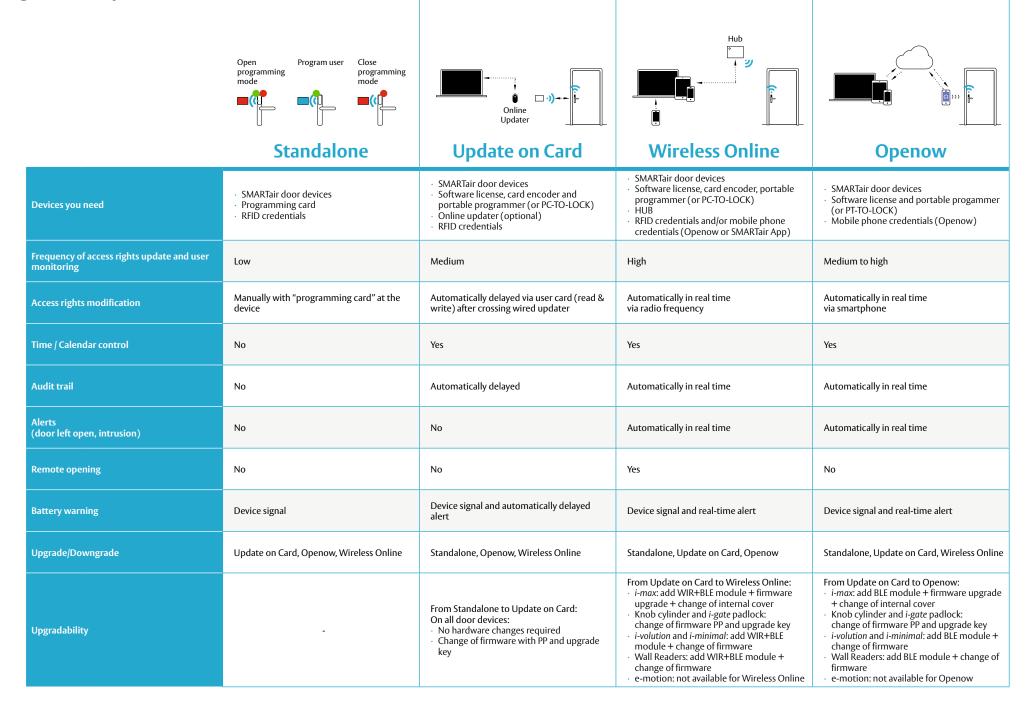
Learn more

Discover

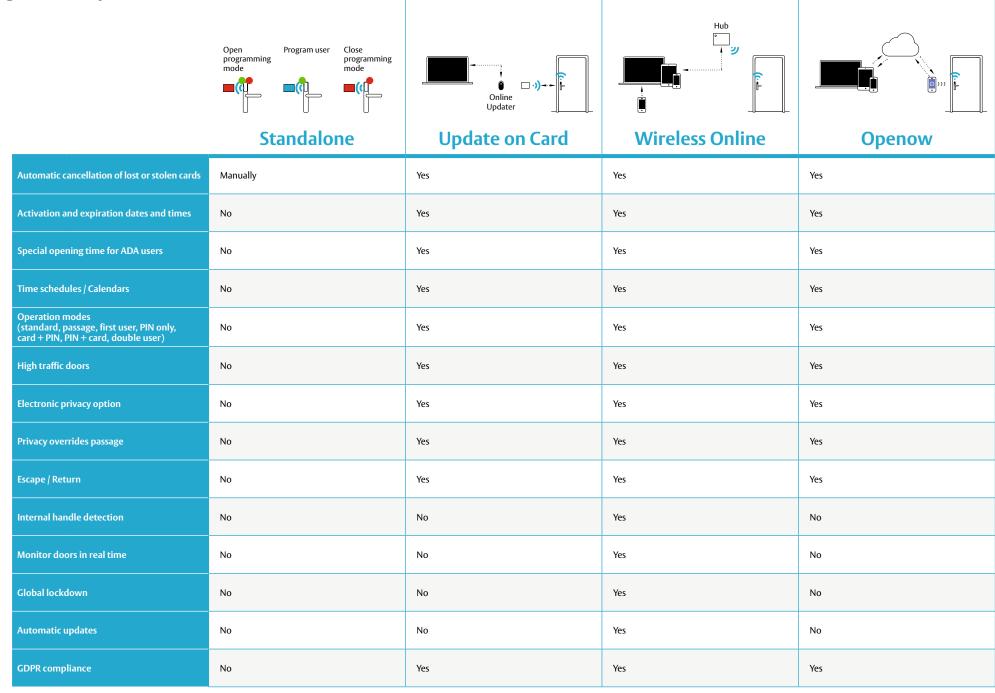
Compare

*Not available in Australia & New Zealand

Management systems



Management systems

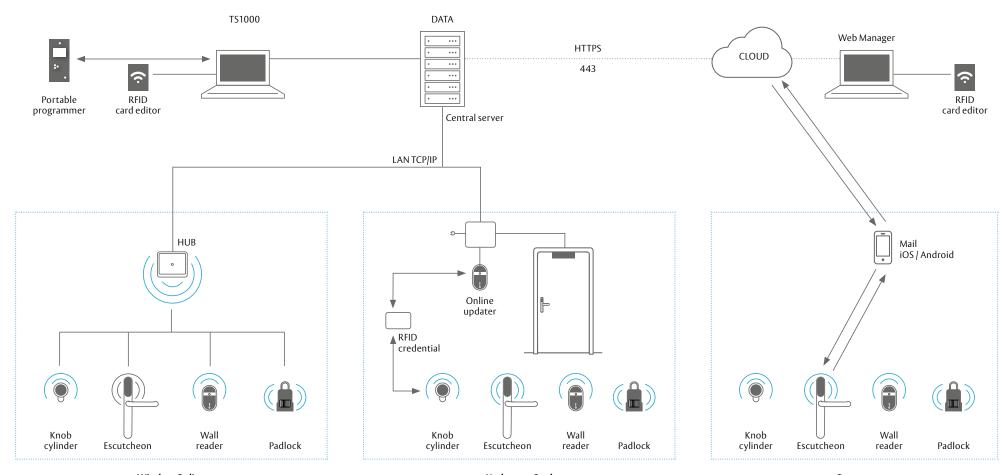


SMARTair system architecture

Scalable and upgradable: Adapt an existing installation to your growing needs when required, while protecting your investment.

Combining different management systems at the same site is possible.





Wireless Online Update on Card Openow

Software and management equipment

Software

| | TS1000 | Web Manager |
|-----------------|--|--|
| | | |
| What is it? | The TS1000 is Windows client / server software. It has to be installed on the server and requires its own database. | Once the TS1000 software has been set up, the Web Manager is a web-based software that enables remote management of the installation. Executable from any devices or browser. The server must have a public IP address. |
| What is it for? | TS1000 is the software used to: · Configure the installation according to the acquired license · Initialize door devices with PP or PT-to-LOCK | Any operation can be done from the Web Manager: Define users, doors, time zones and all other special functions Add users and doors Change access rights Visualize events, etc Wireless doors management (like door opening) Encode RFID credentials |
| Main features | · Intuitive and easy to manage · Easy matrix visualization of any access plan | Intuitive and easy to manage Easy matrix visualization of any access plan Fast visualization and management of users, doors and matrix in big installations |

Management equipment

| | Card encoder | Portable programmer | PC-TO-LOCK | |
|-------------------|--|--|---|--|
| | | | | |
| What is it? | The new desktop proximity i-coder reads, encodes and deletes the information from the RFID credentials of the SMARTair system (keycards, fobs, wristbands, etc.) | It is the device to initialize and/or update door devices. | It is an alternative device to the portable programmer and is used to initialize and/or update door devices directly from a laptop or Windows tablet. | |
| How does it work? | The i-coder communicates: Via Ethernet (through a fixed IP address) and it is managed through the TS1000 Web Manager (without the need to install any software on that workstation). Or through the standard USB communication to a PC or Laptop. This option can be managed through the TS1000 Web Manager (without the need to install any software on that workstation) or through the standard TS1000 Client/Server. | Data is transferred from the TS1000 software to the device. And then, from the portable programmer to door devices. | Directly in the door, it connects the door device to the laptop. | |

System management devices

Management equipment

| | Online updater | Openow | Hub | |
|-------------------|--|--|---|--|
| | | MACL LEST METERS TOTAL TOTA | 0 | |
| | Update on Card Online updater | Openow | Wireless Online | |
| What is it? | In the SMARTair Update on Card system, the updater is a TCP/IP online wall reader. It is recommended to install it at building's main access points. It works as an online wall reader and as an updating point for users' RFID credentials. | Openow is an intelligent, efficient access control management system powered by a smartphone app working with the TS1000 software. It makes security management considerably easier, providing real-time data without the need to install any hubs. | In a SMARTair Wireless Online system, the HUB is the communication link between wireless door devices and the server. | |
| How does it work? | It reads events stored in the user's credential and sends them to the server It writes modifications of the user's access plan into the user's credential, which are later, transferred to the door devices | Secure data transmission for all communications is ensured by industry protocols (AES 128) It collects all events from door devices, and sends updates to the closing plan, directly from a mobile and from anywhere, without any need for users to interact with an updater | Connected to the server via the TCP/IP network of the building. SSL encryption Connected to door devices using 868MHz frequency. AES128 security protocol It includes a PoE module It works with bi-directional communication in real time, with automatic updates in both directions | |

Credentials









RFID credentials

| | Card, fob, tag | | |
|-------------------|---|--|--|
| | | | |
| Technologies | Compatible with many 13.56MHz contactless read & write identification technologies: MIFARE Classic, MIFARE DESFIRE EV1, i-CLASS, Standard ISO15693, Skidata. | | |
| How does it work? | Multi-application: the same credential can be used with several services like vending machines, canteen, etc. The SMARTair information is stored in the credential's free memory space. | | |

Mobile credentials

| | Openow | SMARTair Remote App | |
|-------------------|---|---|--|
| | | SIMPROTEIN THAT IS A PORT OF THE PROPERTY OF | |
| Technologies | Virtual mobile credentials based on BLE technology. Identical benefits to any RFID credential. | Special app to open doors remotely, regardless of where the user is. The user must download and install the app and activate mobile data through network operator or wifi The user will see a list of doors in the installation where they have access. They have to select the door they want to open The same app allows several lists of doors from several installations where the user has access | |
| How does it work? | The app is available for iOS and Android The Openow credentials are directly sent (or revoked) from the management software (both TS1000 and Web Manager) to the user's mobile phone The user must have the Openow app on their mobile phone and must register using their email address and activate data through an operator and/or wifi network The Openow app works as a wallet. It can hold as many virtual credentials from different installations as needed | | |

Door devices









| Not available in Australia & New 2 | ealand? |
|------------------------------------|---------|
|------------------------------------|---------|

| Not available in Australia & New Zeali | ınd |
|--|-----|
|--|-----|

| | | | | Not available in Australia & New Zealand | Not available in Australia & New Zealand |
|---------------|--|--|---|---|--|
| | Door profiles | Suitable for wooden, narrow or glass doors | Suitable for wooden, narrow or glass doors | Suitable for wooden doors | Suitable for wooden doors |
| | Traffic volume | Medium to high | Medium to high | Medium to high | Medium to high |
| : <u>;;;;</u> | Exterior usage | IP56 (Extreme version) in models without keypad Up to 85% humidity -20°C to +70°C | IP56 (Extreme version) Up to 85% humidity -20°C to + 70°C | IP56 (Extreme version) Up to 85% humidity. From -20°C to +70°C (external) From 0°C to +50°C (internal) | IP56 (Extreme version) Up to 85% humidity From -20°C to +70°C (external) From 0°C to +50°C (internal) |
| | Hardware compatibility and installation | High retrofit (compatible with most common mortise locks) Drilling. No cabling Doors from 30mm up to 110mm (thicker doors may be possible on demand) | High retrofit No drilling. No cabling Maximum door leaf length: Cylinders with fixed body: Different sides: 160mm (60mm x 100mm) Both sides equal: 120mm (60mm x 60mm) Cylinders with modular body: No restrictions | Medium retrofit Drilling. No cabling Doors from 30mm up to 100mm | Medium retrofit Drilling. No cabling Doors from 30mm up to 100mm |
| (H) | Power supply | Battery from 75,000 to 105,000 cycles (depending on the management system) Max. 2 years standby (depending on cycles per day) Type of batteries: 3 LR03 AAA 1.5V alkaline batteries | Battery up to 40,000 cycles (depending on the management system) Max. 2 years standby (depending on cycles per day) | Batteries from 80,000 to 105,000 cycles (depending on the management system) Max. 3 years standby (depending on cycles per day) | Batteries from 80,000 to 105,000 cycles (depending on the management system) Max. 3 years standby (depending on cycles per day) |
| F | Multi-authentication | Yes (Card + PIN, PIN only, Card only) | No. Only RFID | No. Only RFID | No. Only RFID |
| **** | Status information | Internal handle usage alert Internal thumb-turn use recorded (only in models with electronic privacy) Door position alert: connection for door sensor included (NO normally open). Door sensor not included Mechanical opening recorded (in combination with a special mortise lock and mechanical cylinder) | No | Mechanical key override detection (if a mechanical cylinder is installed). Door position: events reported when the door is left open, door incorrectly closed, intrusion, etc. | Mechanical key override detection (if a mechanical cylinder is installed). · Door position: events reported when the door is left open, door incorrectly closed, intrusion, etc. |
| | Certifications | CE (EMC, R&TTE), ROHS, REACH, WEE, EN1634 (Fire) EN1906 Category of use Grade 4, RCM & R-NZ | CE (EMC, R&TTE) ROHS, REACH, WEE, Durability EN15684 Class 6, RCM & R-NZ | CE (EMC, R&TTE), ROHS, REACH, WEE, EN14846 and EN12209 | CE (EMC, R&TTE), ROHS, REACH, WEE, EN14846 and EN12209 |
| (-) | 13.56MHz RFID technologies | MIFARE Classic and Ultralight HID iCLASS, DESFire, Standard ISO 15693, SKIDATA | MIFARE Classic and Ultralight HID iCLASS, DESFire, Standard ISO 15693, SKIDATA | MIFARE Classic | MIFARE Classic |
| | Compatible mobile solutions | Openow™ (Bluetooth Low Energy) SMARTair Remote Opening app | Openow™ (Bluetooth Low Energy) SMARTair Remote Opening app | O Openow™ (Bluetooth Low Energy) SMARTair Remote Opening app | ✓ Openow™ (Bluetooth Low Energy)✓ SMARTair Remote Opening app |
| 0 | System management upgradability | All systems | All systems | All systems except Standalone | All systems except Standalone |
| | | See page 5 | | | |

Other devices

Door profiles

Traffic volume

Exterior usage

and installation

Power supply

Multi-authentication

Status information

Certifications

Compatible

mobile solutions

Hardware compatibility



The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, door and window hardware, locks, access control and service.

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