ABLOY® CUMULUS

The key to keyless access

Our new platform for keyless access

ABLOY CUMULUS combines high-quality locking products with secure management of access rights. We have wrapped over a hundred years of security expertise into digital solutions for connected access management, enabling smooth people flow with mobile devices. CUMULUS provides the key to keyless access by bringing all the solutions together into a single ecosystem with a reliable, integrated cloud service.

Purpose-designed for keyless access

CUMULUS locking hardware is designed for keyless access purposes. It is a true offline solution, which can be used also without a network connection. The locking devices can be used anywhere — within or outside network coverage.

The unique credential technology used in CUMULUS is tried and tested. It has been developed to minimize vulnerabilities and other means that could possibly be used for wrong purposes.

The convenience of mobile access

CUMULUS ensures secure access in commercial real estate, public spaces, and sites essential for the functioning of society. It is ideal for logistics, parcel deliveries, cash-in-transit, rental services, office spaces, and construction, for example.

OFFICE BUILDING
CONSTRUCTION SITE
CASH-IN-TRANSIT
DATACENTER

Combining quality locking hardware with secure access and management applications

The CUMULUS product range covers keyless access solutions — from mobile keys, padlocks and controllers to upcoming key deposits, swing handles and door locks.

Combining our heritage of high security with quality digital tools, CUMULUS provides a reliable and smooth user experience, serving your needs.

ABLOY CUMULUS benefits

Secured with built-in high security credential technology

Easy-to-use mobile application

Continuously powered, intelligent locking device to allow future-proof evolution.

High-end digital security for all environments

Full audit trail

Online/Offline access

Flexibly managed with ABLOY OS INCEDO or integrated with 3rd party systems

Less hardware, lower costs

Less logistics, smaller environmental impact

Integrations bring flexibility

CUMULUS tools can be used to meet a wide range of business needs. Modern, REST-based application programming interfaces, or APIs, enable integration with third-party systems — such as booking, reporting, resource management and access control systems. The mobile software development kit, or SDK, allows organisations to add CUMULUS functionalities to their own mobile apps.
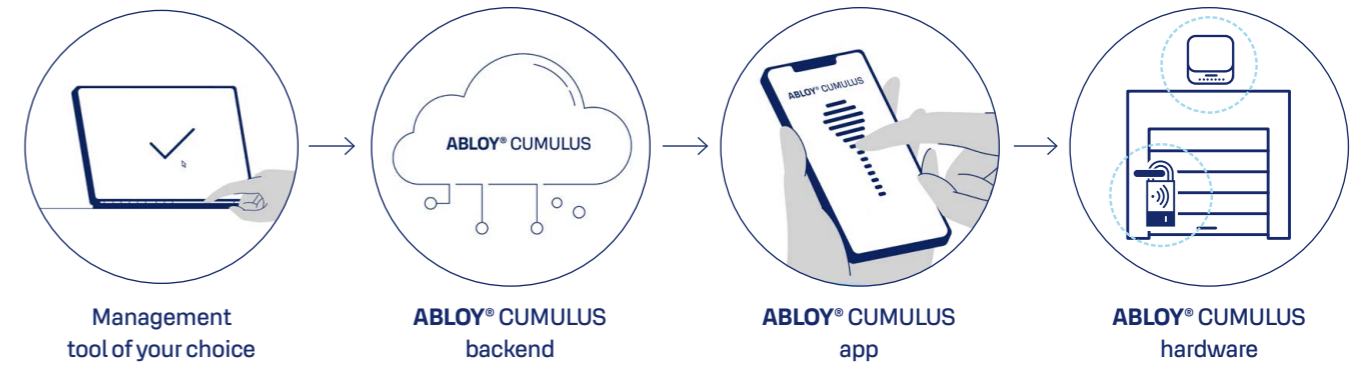
ABLOY OS INCEDO offers seamless access management

OS INCEDO adds operational efficiency by connecting all mechanical, electromechanical and digital solutions, including CUMULUS, into one cloud-based application.

Authorizing users by using role-based logic is straightforward and effortless, and it supports the many different needs that customers have. OS INCEDO features a user-friendly, highly visual interface and reporting functions for managing CUMULUS hardware.

CUMULUS
CLOUD-BASED ECOSYSTEM

CUMULUS COMPATIBLE SOFTWARE APPLICATIONS

- ABLOY — Abloy software
- 3RD PARTY — Software partner applications
- ASSA ABLOY — Other ASSA ABLOY applications

CUMULUS SOFTWARE

- SDK — Mobile SDK
- Mobile app — Android, iOS
- API — API's
- Cloud-based software engine

CUMULUS HARDWARE

- Padlocks
- Controllers
- Key deposits
- Swing handles
- Cylinders
- Door locks
- Other products

How it works

Management tool of your choice → **ABLOY® CUMULUS** backend → **ABLOY® CUMULUS** app → **ABLOY® CUMULUS** hardware

- CUMULUS is managed with any software tool. ABLOY OS INCEDO, our visual user interface, is one option.

- CUMULUS APIs deliver user invitations and access rights to mobile phones and audit data to your business applications.

- CUMULUS hardware is operated with users' mobile phones.

- Users are invited into the CUMULUS backend system with their mobile phone numbers.

- Each mobile device will be registered with advanced credential technology.

- Similarly, each CUMULUS locking device will also have a unique ID so that all access tokens are granted for specified hardware and users for a certain time frame.

- CUMULUS hardware can be opened without cellular connection when access rights are updated on the mobile devices before entering the offline area.

- Users enjoy the benefits of secure and convenient mobile connectivity and access.

DOWNLOAD THE ABLOY MOBILE APP

Find the mobile application on Google Play (Android) and the Apple App store (iOS) with the name ABLOY BEAT CUMULUS.

MINIMUM MOBILE DEVICE REQUIREMENTS

Android 10 or newer

iOS 13 or newer

Bluetooth® 4.2

Contact your local sales representative for more information

Available on the App Store

GET IT ON Google Play

CUMULUS padlock

The CUMULUS keyless smart padlock is equipped with a Bluetooth® Low Energy connection. The robust Super Weather Proof lock is designed to perform in harsh conditions. The padlock is available in two versions: with a fixed shackle (EN16864 security grade 4), as well as with a removable shackle (EN16864 security grade 4). Both versions offer IP68 protection.

The padlock is battery-powered with a real-time clock and Bluetooth® connection, accurately logging when the lock is used. The padlock reports its status and audit trails via the mobile application to the backend service and from there to the management systems. The lock can also be supplied with backup power if the battery is flat.

CUMULUS controller

The CUMULUS controller is an ideal solution when you want to conceal your locking mechanism and control access keylessly. With the controller, you can make almost any electric lock or other electronic door locking device work with a mobile app. It not only works with ABLOY products but also with hardware of any brand with compatible wiring.

The controller tracks usage and records opening and locking events automatically. You can access these logs in your management system.

The controller is operated locally over a Bluetooth® connection with an application downloaded to a mobile device.

COMPATIBLE WITH NUMEROUS DOOR AND LOCK TYPES

- Electro-mechanical locks
- Magnetic locks
- Electric door strikes
- Automatic garage doors
- Manual sliding doors
- Roll-up doors
- Electric latches
- Cabinet locks
- Electric locks
- Other electrically controlled actuators

Padlock specifications

Body
- Material: Case-hardened steel
- Finish: Chrome
- Non-metallic part: Grivory

Operating temperature
- -25ºC to +60ºC

Battery lifetime
- 5 years or 5000 access cycles
- Battery types: Panasonic CR2 and Saft LS14250
- Safe failure option: Back up power through USB cable

Connectivity
- Bluetooth® Low Energy 4.2

Shackle
- Material: Case-hardened steel
- Finish: Chrome
- Thickness: 10mm
- Length: 25/50mm

Security grade
- Fixed shackle: EN16864 grade 4
- Removable shackle: EN16864 grade 4

Shackle monitoring
- LED indications for lock status
- Audit logs

IP class grading
- IP66
- IP68

Controller specifications

Body
- Material: High Heat, ABS plastic
- Size: 50 x 50 x 32mm

Operating temperature
- -30ºC to +60ºC

Product variants
- With manual or automatic close function

Connectivity
- Bluetooth® Low Energy 4.2
- Range up to 50m

Mobile access
- For almost any electric lock in a cellular connection area

Unlock monitoring
- Audit logs

Wiring
- One device per controller
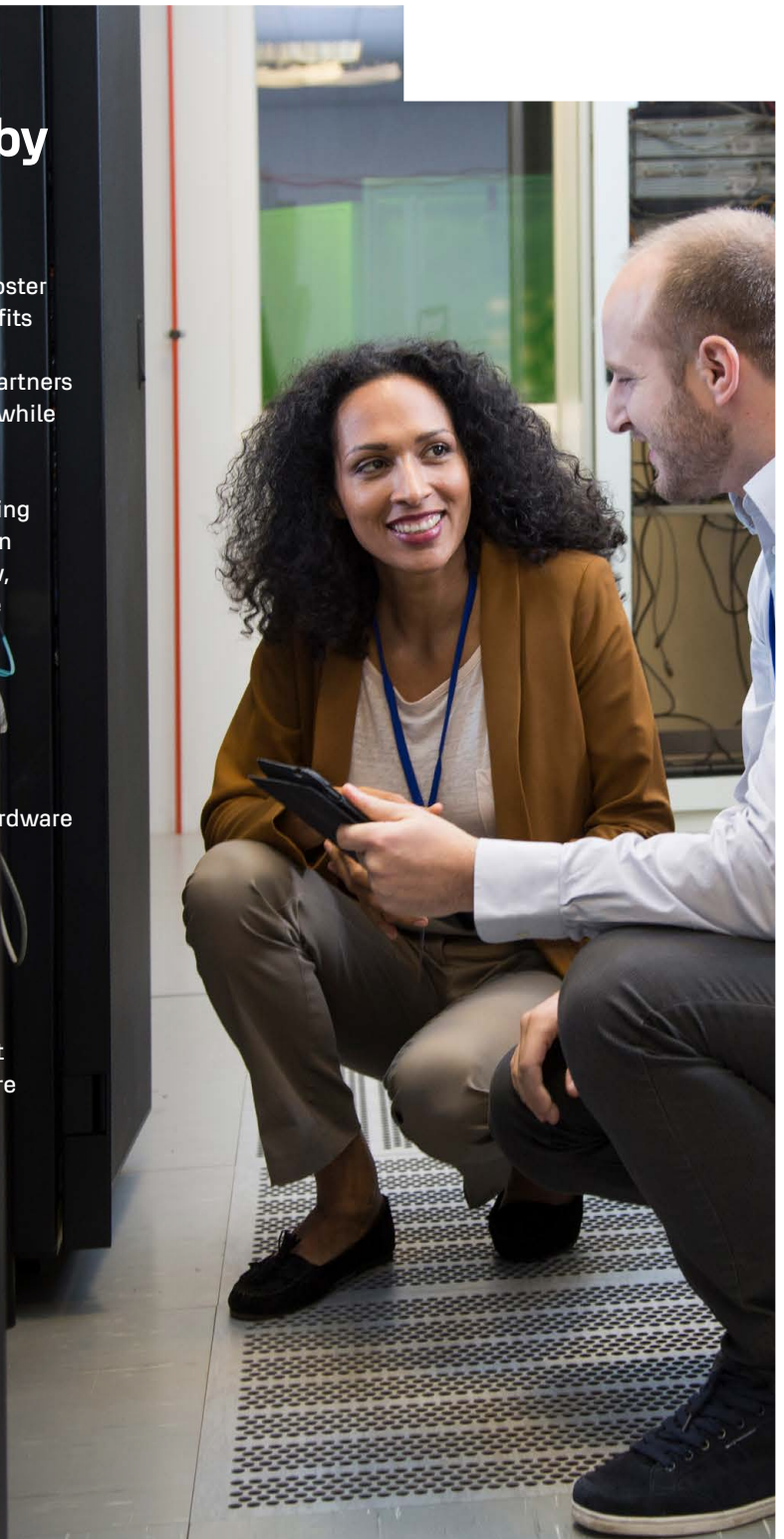- Two sensor inputs of your choice
- 12-24 V powered

Expand your business by partnering with Abloy

Instead of just delivering a solution, we want to foster long-term and successful cooperation that benefits all parties. Partnering with Abloy enables service providers, application developers and software partners to offer even wider and more innovative services while expanding the reach and use of your platform.

By utilizing the CUMULUS application programming interfaces and software development kit in design and implementation, we can together create new, sustainable business opportunities that optimize access and reduce the ecological footprint.

The partnership in a nutshell

· By using the high-quality ABLOY CUMULUS hardware and cloud platform, you can develop versatile applications for your customers.

· Modern technology enables need-based and efficient distribution of access rights.

· Well documented application programming interfaces (APIs) and partner solutions support effortless integration. With the mobile software development kit (SDK) you can develop own, CUMULUS-compliant applications for your customers.

· A scalable business model enables growth.

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MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001• ISO 14001
ISO 45001• ISO/IEC 27001

ABLOY

Part of ASSA ABLOY