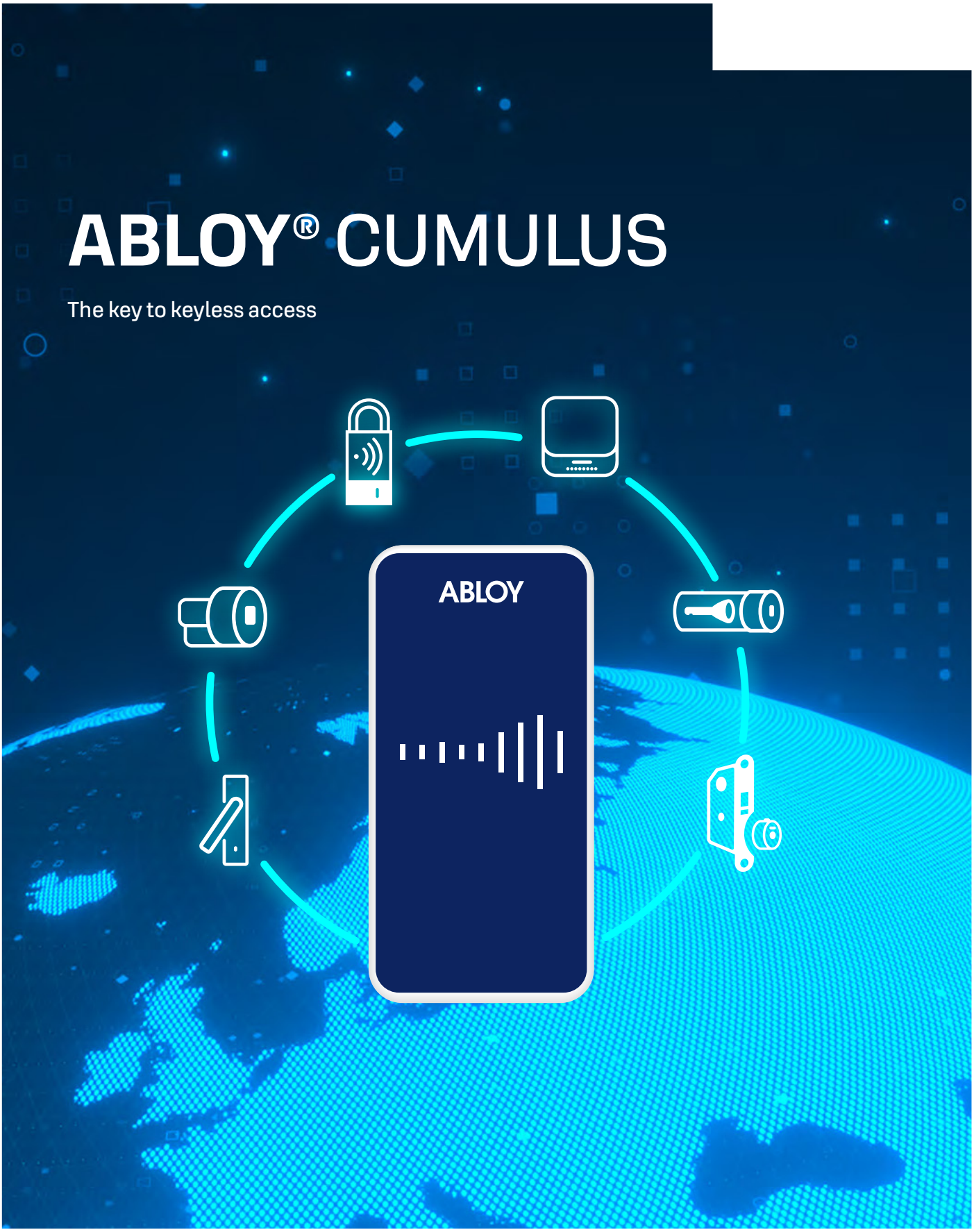
ABLOY® CUMULUS

The key to keyless access



ABLOY



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.

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 key deposits and swing handles.

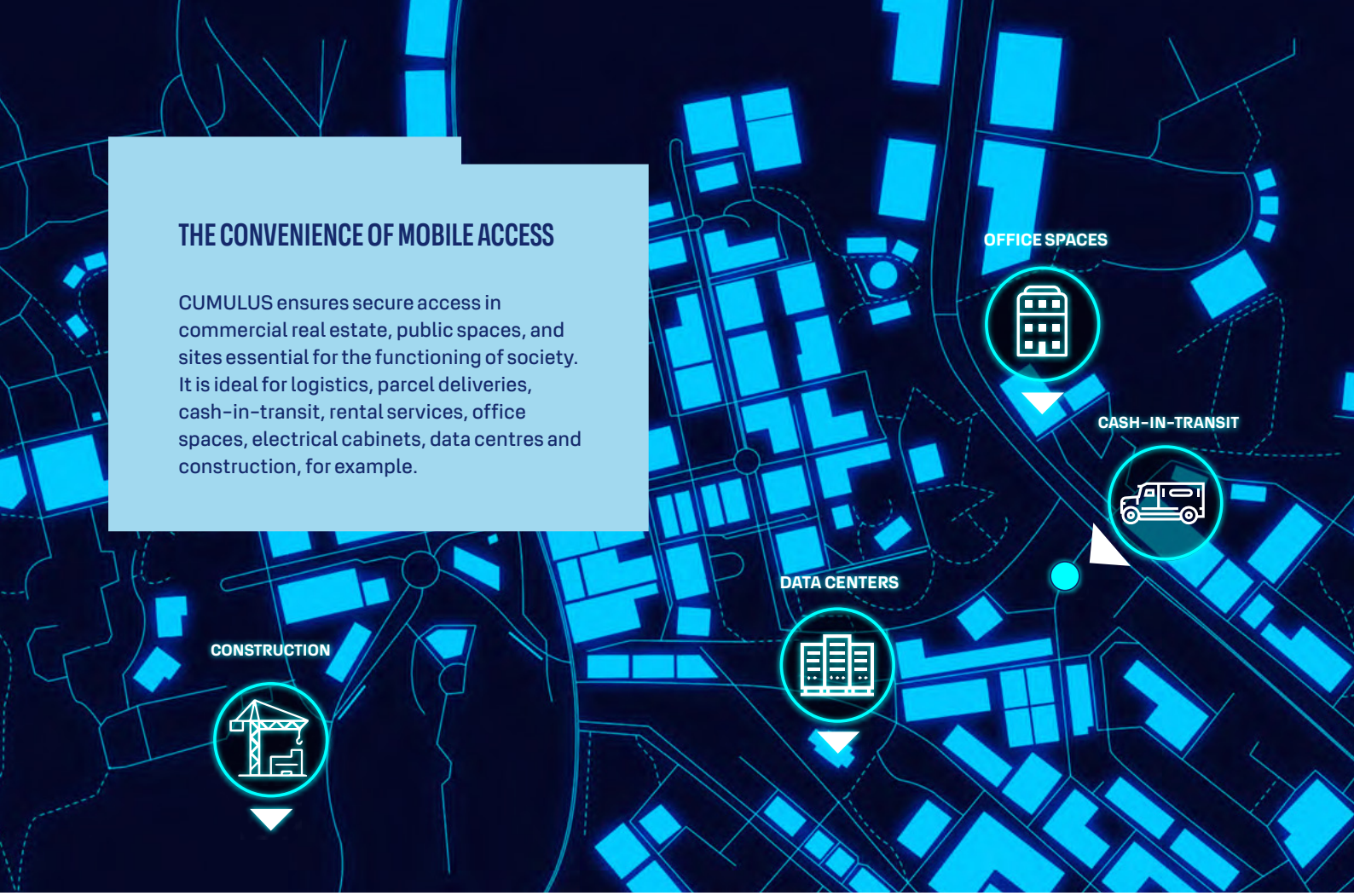
Combining our heritage of high security with quality digital tools, CUMULUS provides a reliable and smooth user experience, serving your needs.











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, electrical cabinets, data centres and construction, for example.

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 ASSA ABLOY Access or integrated with 3rd party systems

Less hardware, lower costs

Less logistics, smaller environmental impact

Integrations bring flexibility

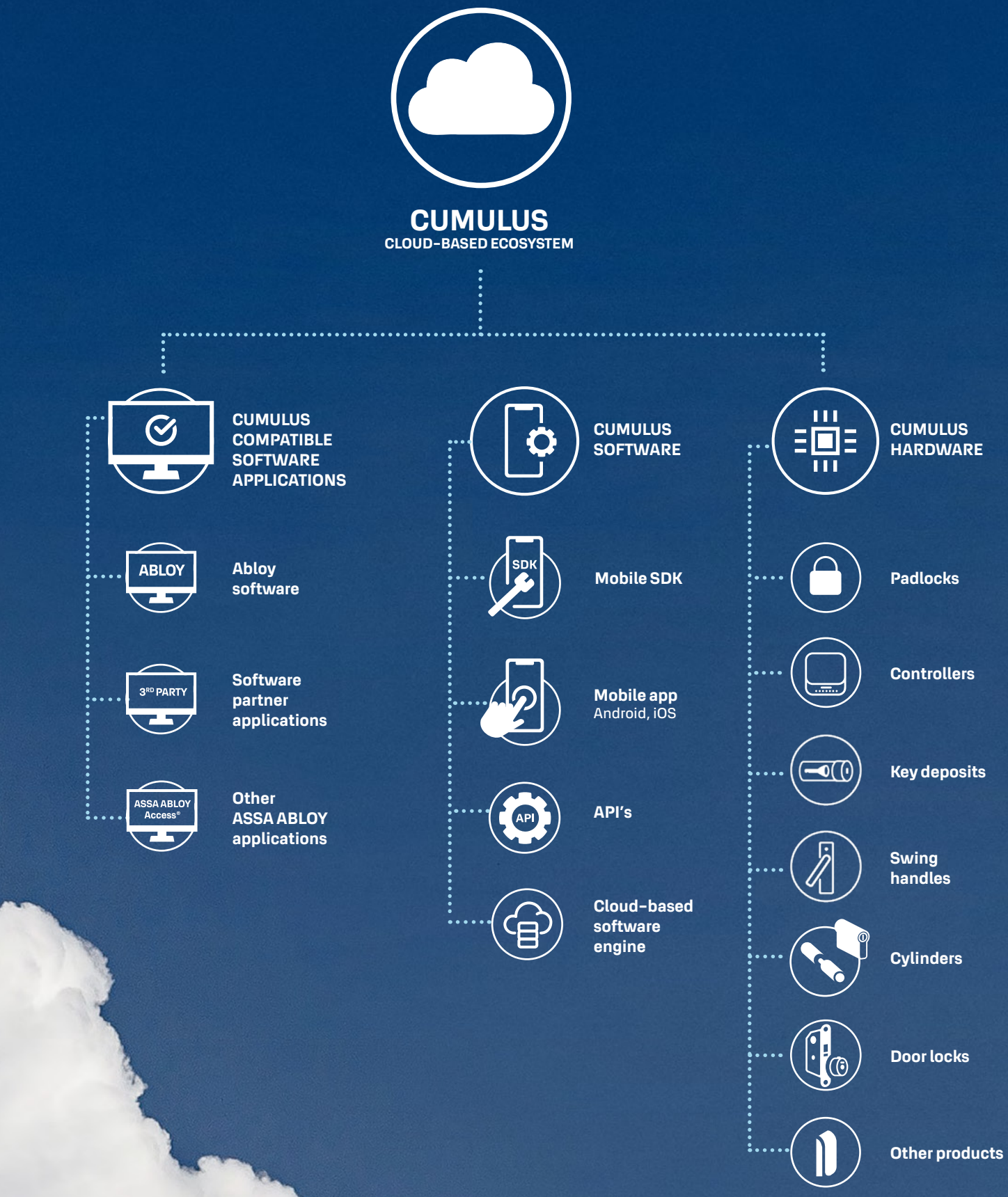
CUMULUS tools can be used to meet a wide range of business needs. Modern, REST-based application programming interfaces, or APIs, enable integration with third-party systems – such as booking, reporting, resource management and access control systems. The mobile software development kit, or SDK, allows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

ASSA ABLOY Access®

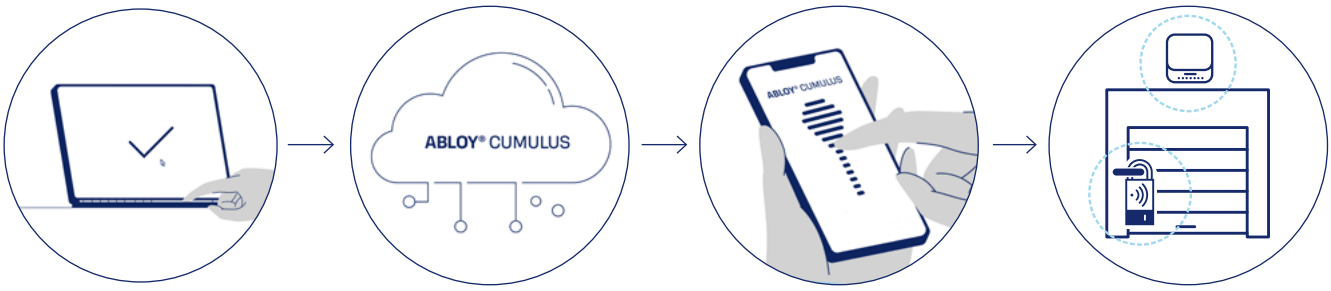
ASSA ABLOY Access is seamlessly integrating with ABLOY CUMULUS, providing a future-proof, keyless solution that is adaptable and consistently updated to ensure operational continuity. CUMULUS in combination with Access caters to varying access management needs. Access makes locking planning easier and faster, and it provides versatile tools for managing locks and access rights.

Built on a cloud-based platform, Access ensures automatic updates and adaptability. Committed to continuously evolving with the latest technology, Access is a future-proof solution that is compatible with future ABLOY and ASSA ABLOY solutions.




CUMULUS
CLOUD-BASED ECOSYSTEM
CUMULUS COMPATIBLE SOFTWARE APPLICATIONS
ABLOY
Abloy software
3RD PARTY
Software partner applications
ASSA ABLOY Access®
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. ASSA ABLOY Access, 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 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: Versions receiving official security updates

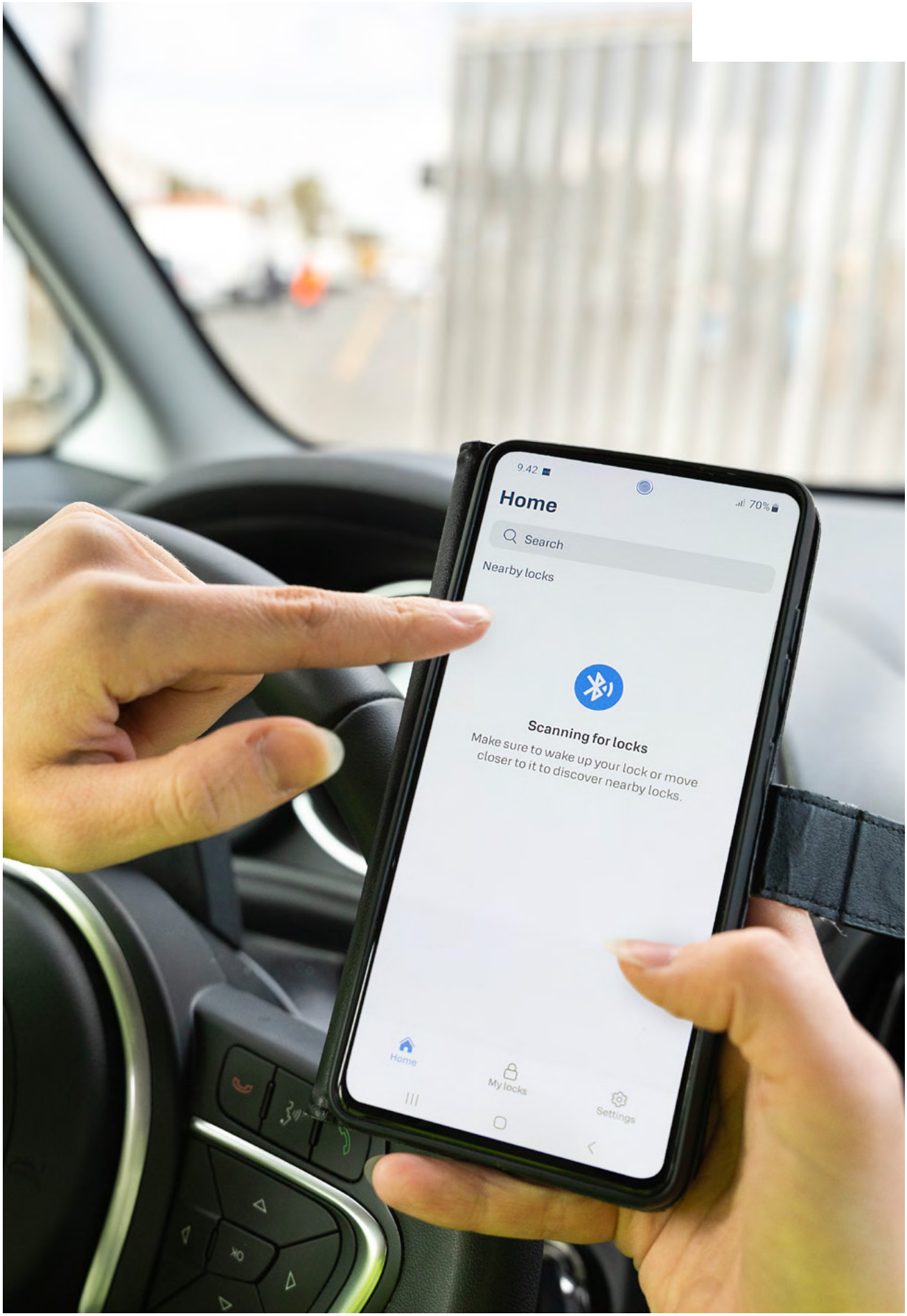
iOS: Versions officially supported by Apple

Bluetooth® 4.2

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GET IT ON Google Play


9.42
70%
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Scanning for locks
Make sure to wake up your lock or move closer to it to discover nearby locks.
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My locks
Settings

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 as well as with removable shackle (both EN16864 security grade 4). Both versions offer IP66/68 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.





PADLOCK SPECIFICATIONS

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

Operating temperature
- -25°C to +60°C

Battery lifetime
- Up to 5 years or 5000 access cycles
- Back up power through USB cable

Connectivity
- Bluetooth® Low Energy 4.2



Shackle
- Material: Case-hardened steel
- Finish: Chrome
- Thickness: 10mm
- Length: 25/50/100mm

Security grade
- EN16864 grade 4

Shackle monitoring
- LED indications for lock status
- Audit logs

IP class grading
- IP66
- IP68

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

CONTROLLER SPECIFICATIONS

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

Operating temperature
- -30°C to +60°C

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

CUMULUS Swing Handle

The CUMULUS Swing Handle is ideal for outdoor cabinets used by telecom, energy and data centre companies, as well as utilities. The handle enables keyless opening, using only a mobile phone.

The Swing Handle is battery-powered and has a real-time clock. Its use is recorded as an audit trail in the event log, which can be used to trace, for example, anomalies. If the battery is depleted, the handle can be operated with a backup power source. The product can be ordered with a built-in mechanical backup.

With a robust structure, the handle is waterproof and designed for harsh conditions. The product has IP66 and IK10 ratings and has passed DIN EN 1630 RC2 burglary resistance tests.



SUITABLE FOR VARIOUS USES

- Telecom cabinets
- Fibre cabinets
- Electrical cabinets
- Server cabinets
- CCTV camera control cabinets
- Monitoring automation cabinets
- Storage cabinets

SWING HANDLE SPECIFICATIONS

Body
- Lock body material: Zamac (zinc)
- Locking mechanism: Steel
- Size: 195 x 43 x 32 mm

Operating temperature
- -25°C to +60°C

Battery lifetime
- Up to 5 years / 5000 open cycles
- Backup power via USB cable

Connectivity
- Bluetooth® Low Energy 4.2



Security grade
- Impact resistance: IK10
- Burglary resistance: Tested according to DIN EN 1630 RC2

IP class grading
- IP66 (when handle is closed)
- IP54 (when handle is open)

Unlock monitoring
- Audit logs

Mechanical key override (optional feature):
- ABLOY PROTEC²
- ABLOY PROTEC² CLIQ

CUMULUS Key Deposit

The CUMULUS Key Deposit enables keyless access to properties maintenance keys with a smartphone via a Bluetooth® Low Energy connection.

With the key deposit, property managers can conveniently grant different user groups access to properties via the users' mobile phones, without the need for unnecessary key logistics and access control.

The key deposit is designed to perform in harsh conditions with its IP66/68 and IK10 certifications.



KEY DEPOSIT SPECIFICATIONS

Body
- Material: High Heat, Lock body material: steel
- Knob: steel and Grivory composite
- Size: 69,5 x 33,4 x 29,4 mm
- Suitable tube diameter: 38 mm

Operating temperature
- -25°C to +60°C

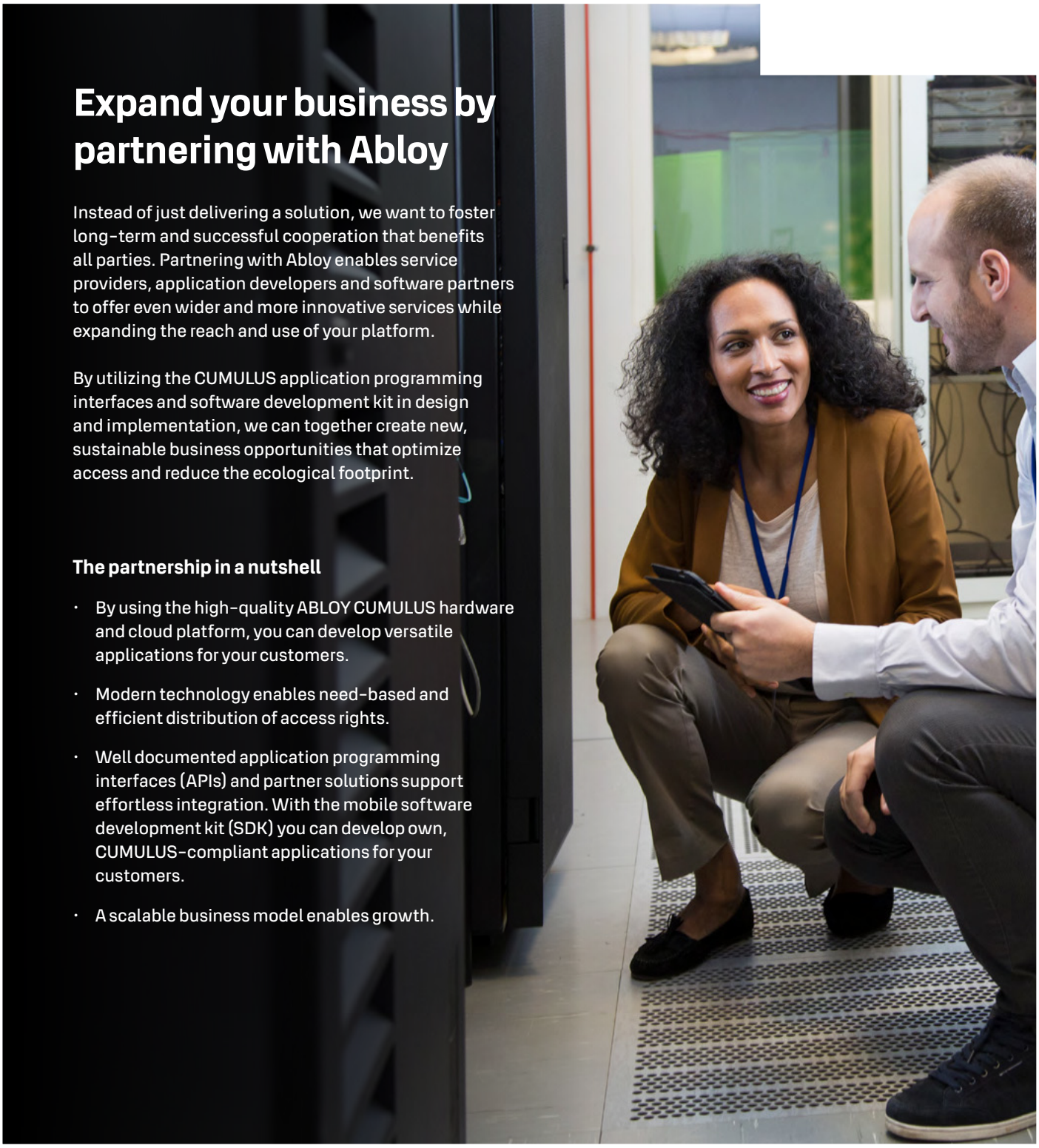


Security grade
- EN15684: 2020 – 16040D3D
- Impact resistance: IK10

IP class grading
- IP66
- IP68

Battery lifetime
- Up to 5 years / 5000 open cycles
- Backup power via USB cable

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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ABLOY offers security and locking innovations dedicated to creating more trust in the world. Combining digital and mechanical expertise, Abloy Oy develops industry-leading security solutions that protect people, property and business. Abloy is part of the ASSA ABLOY Group, the global leader in access solutions. Every day, we help billions of people experience a more open world.

ABLOY UK
Portobello Works
School Street
Willenhall
WV13 3PW
Tel. 01902 364500
Abloy.co.uk

Abloy maintains a Product Security Center at www.abloy.com/securitycenter. We recommend that You check the Center on a regular basis in order to be fully informed of product security updates, so that your knowledge of our products remains optimal.

It is the customer's responsibility to define the required level of security, whilst taking into consideration relevant factors for its operations. To achieve the overall level of security required in the customer's operations multiple layers of security must be in place. These include for example locking system, key management system, access management, CCTTV and alarm system as well as physical security in a manner and level specified by the customer.

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MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 • ISO 14001
ISO 45001 • ISO 50001
ISO/IEC 27001

ABLOY

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