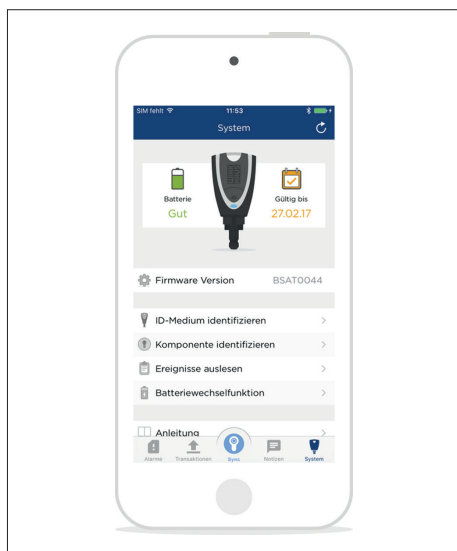


blueSmart App

Remote authorisation and programming with blueSmart Active



blueSmart App

The battery-operated fully electronic blueSmart locking system stands out due to its flexibility and performance. It is designed for up to 196,000 offline and 1,800 online door components and up to 196,000 identification media and, in combination with the blueControl Professional administration software, enables remote authorisation and programming via app.

By means of the blueSmart app, the blueSmart Active key (BS A) can be used as a compact programming device. Programming commands for the blueSmart components can be transferred from the administration software to the BS A via the mobile network using a smartphone. Communication between the blueSmart app and the administration software takes place via the smartphone's data connection.

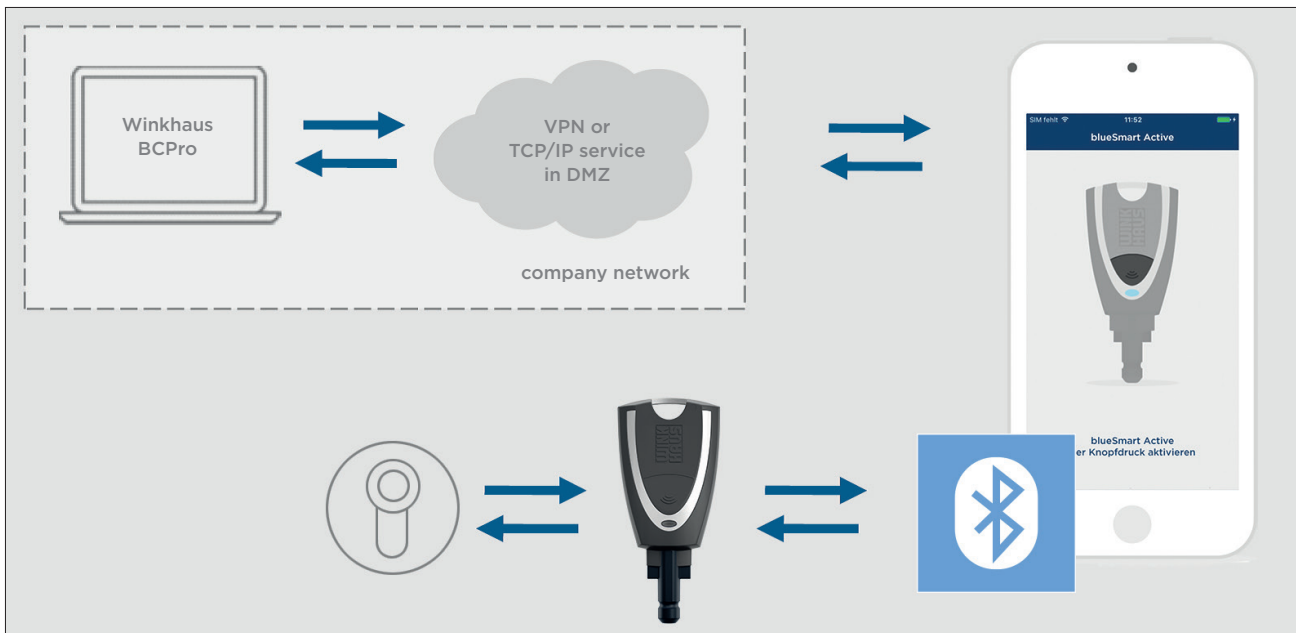
Remote programming

With remote programming, no additional network technology and software is required at external sites or during service calls at remote locations. The transactions and commands are temporarily stored in the BS A key until they are logged back to the administration software, so no permanent data connection is necessary. This also increases security, as no data is stored within the app or elsewhere on the smartphone. The app is thus used exclusively as a display and operating device for the BS A. Thanks to the back logging function, the system administrator receives confirmation of whether and when transactions and commands are transmitted to the blueSmart components.

Remote authorisation

As regards remote authorisation, communication is performed in the same way as with remote programming. Here, day-specific access authorisations can be assigned for the BS A in question, so that the cooperation with external service providers, for instance, can be controlled and monitored in a tamper-proof way. In this connection it is also possible to use an automatic expiry of access authorisations, e. g. after a working day. If a BS A is lost, the access authorisation automatically expires after the expiry of this upload interval, without the need to remove the programmed data of this key on door components. The BS A also allows communication with batteryless blueSmart locking cylinders.

In addition to the encryption methods used, the entire application not only meets high security standards due to a factory-assigned system code with an additional unique key number, but also due to the mechanisms of automatic authorisation expiry and the fact that no data is stored on the smart-phone. The exchange of information is based on certificates.



Ways of communication when using the blueSmart App. Winkhaus remote authorisation task is operated in the company's DMZ and accessible via VPN or a TCP/IP service.

Prerequisites for using the blueSmart app:

- Use of administration software blueControl Professional in version 4.5 or higher
- Use of software module Remote Authorisation and Remote Programming (art. no. 505 288 2)
- blueSmart Active key (BS A) (art. no. 502 552 8)
- If more than 10 BS A keys are used as remote programming and remote authorisation keys, additional licences are required. Licence for 5 additional keys: article no. 505 288 3
- All components of the locking system to be administrated must be equipped with the latest firmware.



blueSmart Active (BS A)

blueSmart Active (BS A)

The BS A key serves as a user and programming key and is unique worldwide thanks to a factory-assigned system code with an additional unique key number. The BS A can only be used within the specific locking system with the same system code.

With its own microcontroller, real-time clock and integrated memory, the BS A serves as a compact programming device signalling its operating status via an integrated LED.

In combination with an iOS smartphone and the blueSmart app, the BS A enables location-independent communication with the administration software. As a programming key, the BS A is used to transmit programming transactions and commands to the door components (offline access readers, locking cylinders or door handles), e.g. to change locking authorisations, time profiles or to read out up to 8,000 locking events not generated by the user.

Likewise, the BS A key parameters (access authorisation, time profiles, validity) can be changed via the blueSmart app and provided with an upload interval.

In addition, it is possible to operate cylinders with batteries that are completely empty or without their own power supply (passive cylinders) as an intrinsic power function, for which the BS A itself has locking authorisation on the door component, or as an external power function, for which the locking authorisation is temporarily stored for a few seconds by another authorised identification medium to perform a single locking operation.

Technology:

RFID:	blueSmart
Encryption:	AES-128 bit

With the blueSmart Active key Winkhaus complements the range of blueSmart access control systems by a particularly efficient component. The key has a multitude of functions.

Winkhaus Plus

- + Opens passive and active cylinders
- + Programming device in pocket size
- + Emergency power supply for active cylinders
- + Enables active and passive cylinders in one locking system
- + Optional remote authorisation and remote programming for daily updated locking authorisations, efficiently and centrally controlled

Further technical data:

- With its own controller, its own clock, its own power supply, push-button and LED
- For operating active and/or passive cylinders¹ that are used in extreme weather conditions, for instance
- As a supplementary product for new or existing¹ blueSmart systems
- As a power adapter (intrinsic power and external power function)
- As a small programming device²
- As a key with significantly enhanced blueSmart functions, especially if used in the virtual network
- Can be authorised individually on up to 65,000 doors¹
- Use of two individual time profiles in 15-minute grids on the key¹
- Large memory capacity
- When used as a “normal” key (without pressing a button at the door)
- Storage of the last 500 internal locking events with date and time
- Transfer of up to 40 commands in the virtual network
- When used in programming mode^{1,2} (pressing a button at the door is required)
- Reading of up to 8,000 locking events from the cylinder lists
- Transfer of up to 4,000 programming commands to up to 200 cylinders in the virtual network
- Programming of up to 126 time profiles, including holiday tables
- Simple battery replacement

¹ For existing locking systems, update the firmware of the door components and the BS A, if necessary.

² Not possible with double-knob cylinders BS 6X