

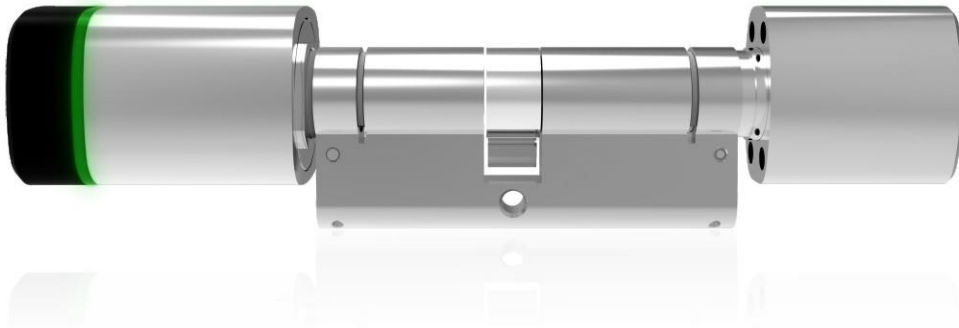


**2020** Directory Page

# ***Mobile Based Virtual Network System***



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# **Mobile Based Virtual Network System**

## The Security Management Of Your Building Access Control Systems With Our Scalable Cloud-based Physical Security Platform.





# System Options

	LMS_Professional	EVOCloud	LMS_Elite
E-Cylinder	●	●	●
E-handle	●	●	●
E-Latch	●	●	●
E-Relay	●	●	●
Mifare card	●	●	●
Wall remote control	○	○	○
Portable handset	●	●	●
Local Encoder	●	●	
Network Encoder	●	●	
Online hotspot		●	

**LMS\_Professional:** Based on client server, for office and small hotel.

**EVOXCloud:** Based on cloud, suitable for large projects or group company

**LMS\_Elite:** Independent APP for installation and authorization, suitable for home, shared space and B & B.



Office



Residential



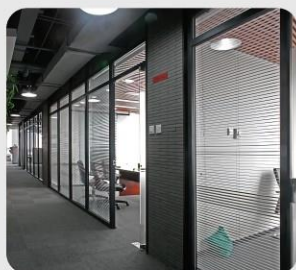
B&B hotel



Rental House



Group company



Retail Office

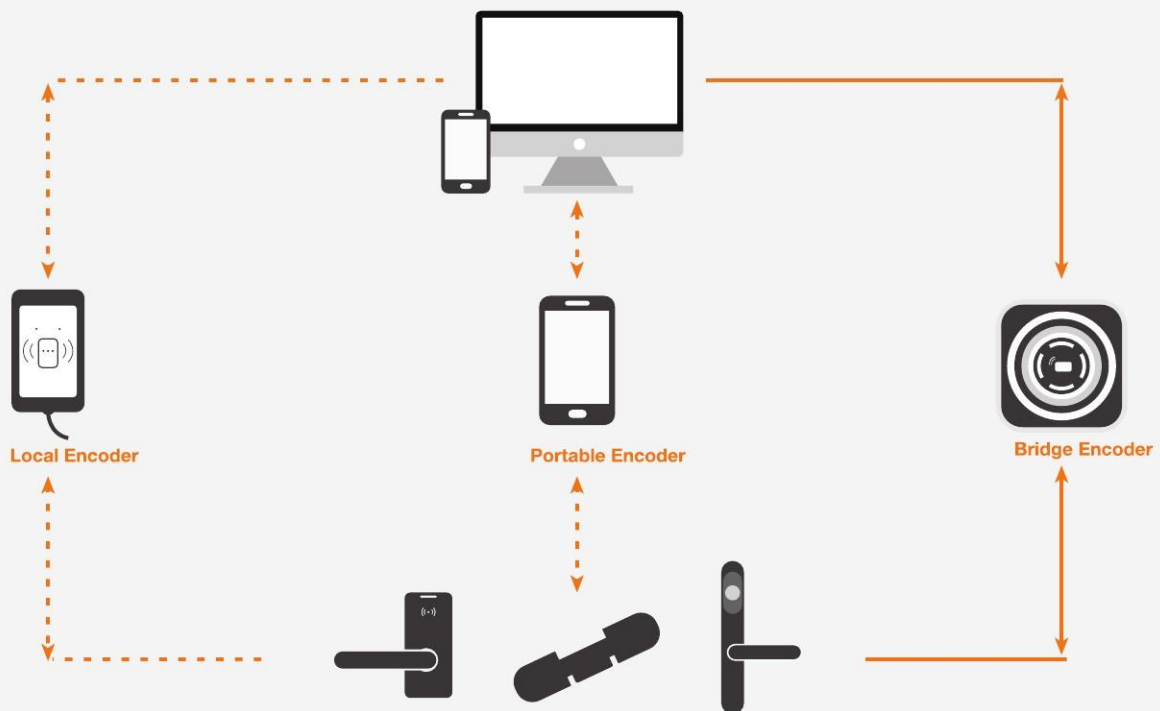


Startup Space



Public areas

After listening and analyzing the needs of users in large numbers, our company developed and designed alternative flexible solutions. All development and functions are adapted to the actual requirements of the industry or project.



## Application:

**Virtual Network:** Write configuration and authorization to locks or door opening media through configuration devices such as local encoder or mobile phones. Both LMS\_Elite and LMS\_Pro belong to this series of applications.

**Online Network:** All locks are connected by bridge Encoder, which can upload some configuration and permission changes and the real-time status of the locks to the platform to achieve constant monitoring. The EVOCLOUD system is compatible with both Mobile Based Virtual Network Solution and Bridge Based Online Network.

## Features:



### Easy Installation And Replacement

Simply replace the mechanical lock with a smart lock, no wiring, no openings, and installation can be completed in minutes.



### Good User Experience

You can quickly get started with programs and apps in minutes, and then configure everything yourself and achieve overall management.



### No Trouble With Key Management


Easy setting management. You can view the event, the door is left open, or the battery is low. The key is no longer needed to replace the lock.




### Cost-effective

The system supports remote authorization, door opening in different ways, complete functions, low cost, and low installation and maintenance costs.


# Mobile Based Virtual Network System

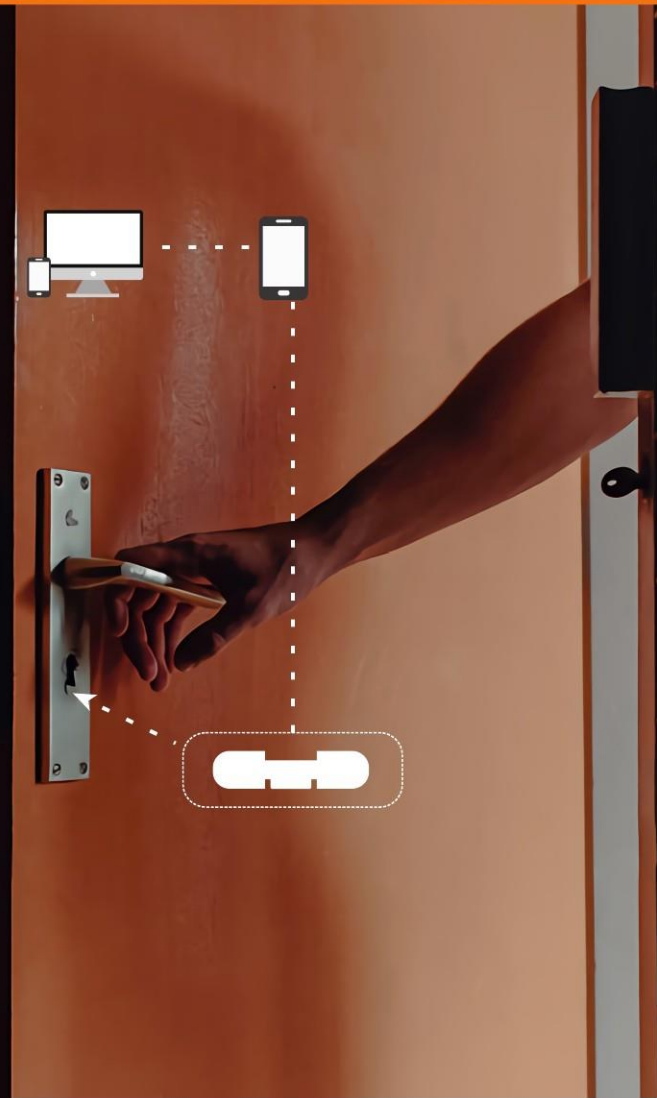
 Activate the mobile key in the EVOAPP app, and then tap the lock reader on your phone. Users can receive mobile keys anytime, anywhere, making sending and receiving access easier and more flexible.

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 The password is input by touch, and the instruction is transmitted to the lock through Bluetooth, and the lock is double-opened by internal calculations. It is built-in electromagnetic, battery can use for 50,000 operations or 5 years of backup.

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 The tag is a physical device which based on RFID (contactless key fob). Using the built-in security chip, the opening can be triggered by displaying a mark directly on the lock.







**The intelligent electronic lock is no opening and no wiring, which same with traditional mechanical lock , and it can perform reliable traffic safety control. As a unique plug-and-play keyhole security system, you can quickly and easily replace the original mechanical lock. On the basis of a variety of door opening methods, there is also an intelligent electronic key as a emergency opening, it is the cost-effective access control solution on the market.**

- Battery: CR2x1 (2.3V-3.3V)
- Battery life: 1 year standby, 1 year and 10 operations per day
- Card reading distance: <2cm Supports MIFARE. (DESFire EV1, Plus, Ultralight C, Classic-ISO / IEC 14443), NFC
- Bluetooth type: Bluetooth 4.0 and above mobile phones, password terminals
- Bluetooth communication distance: <10 meters
- Signaling Dual colour green/red and buzzer
- Undervoltage alarm: 80% of standard battery voltage  
Time/Date Buffering typically 1 minute(in case of battery change)
- Sensor: use of multiple sensing technologies
- Events: 500
- Working temperature: -20 -60 (depending on the battery)
- Operating humidity: 5% -100%
- Fire test: 60 minutes
- Anti-corrosion test: 96 hours
- IP protection: Ip66
- 100,000 full cycle tests





**No need to replace the lock body, E-handle can replace the existing mechanical panels of various door types, and easily and reliably achieve safe traffic control. In order to adapt to the appearance, specifications and colors of different doors, there are a variety of interior panels. The product design is exquisite in appearance, safe, reliable and easy to install, which is popular with users.**

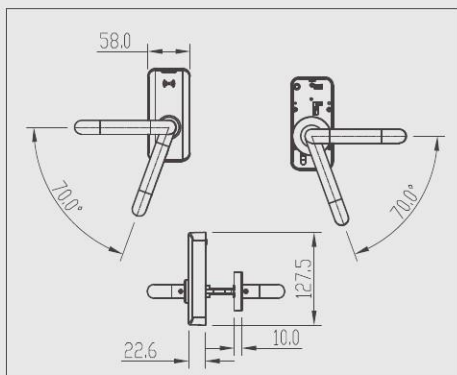
- Axis distance: 70mm, 72mm, 85mm, 92mm
- Door thickness: 40mm ~ 120mm

- Handle spindle 7mm 8mm 8.5mm 9mm
- Material SS304 and Engineering alloy plastic
- Card reading distance: <2cm Supports MIFARE. (DESFire EV1, Plus, Ultralight C, Classic-ISO / IEC 14443), NFC
- Bluetooth type: Bluetooth 4.0 and above mobile phones, password terminals
- Bluetooth communication distance: <10 meters
- Signaling Dual colour green/red and buzzer
- Undervoltage alarm: 80% of standard battery voltage
- Battery: CR123Ax1
- Battery life: 1 year standby, 1 year and 10 operations per day  
Time/Date Buffering typically 1 minute(in case of battery change)
- Sensor: use of multiple sensing technologies
- Events: 500
- Certificate CE RoHS WE Reach
- Working temperature: -20 -60 (depending on the battery)
- Operating humidity: 5% -99%
- IP protection: Ip54
- Optional: Private lock function, electronic key backup on

# E-Latch



The electronic latch, with its small and exquisite design, is suitable for the intelligent transformation of separate locks. It can replace the separate door lock handles, and without replacing the lock body. It has a beautiful looks and achieves reliable traffic safety control. In order to adapt to the appearance, specifications and colors of different doors, there are a variety of handles. The product design is exquisite in appearance, safe, reliable and easy to install, which is popular with users.



- Door thickness: 40mm ~ 120mm
- Handle spindle: 7mm, 8mm, 8.5mm, 9mm
- Material: SS304 and Engineering alloy plastic
- Card reading distance: <2cm Supports MIFARE. (DESFire EV1, Plus, Ultralight C, Classic-ISO / IEC 14443), NFC
- Bluetooth type: Bluetooth 4.0 and above mobile phones, password terminals
- Bluetooth communication distance: <10 meters
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- Sensor: use of multiple sensing technologies
- Events: 500
- Certificate: CE, RoHS, WE, Reach
- Working temperature: -20 °C -60 °C (depending on the battery)
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# E-Relay

The E-Relay is consists of access control reader and controller, which is used to control the magnetic lock and electric control lock. It can be used in the main passage, floor passage, parking lot and elevator control, etc. It supports online and offline use. At the same time, it can monitor the status of relevant gate control through the access of the controller sensor interface.



- The design of the narrow panel reader perfectly adapts to any environment
- Equipped with high-quality, durable glass front panel
- Visual and acoustic status and function indicators
- Provides a choice in a variety of management platform systems
- Wall reader for the harsh environment
- Control unit and data reader transmission are encrypted and secured

- Material: SS304 and Engineering alloy plastic
- Card reading distance: <2cm Supports MIFARE. (DESFire EV1, Plus, Ultralight C, Classic-ISO / IEC 14443), NFC
- Bluetooth type: Bluetooth 4.0 and above mobile phones, password terminals
- Bluetooth communication distance: <10 meters
- Signaling: Dual colour green/red and buzzer
- Events: 500
- Working temperature: -20 °C -60 °C (depending on the battery)
- Operating humidity: 5% -99%
- IP protection: IP54



EVOCLOUD can help you achieve regulatory and policy goals by taking action to achieve security, privacy and compliance. Independent organizations are continuously monitoring these actions. We understand the importance of ensuring the privacy of all personally identifiable information, which is why we are ISO 27001 and GDPR certified. ISO 27001 is a specification for the Information Security Management System (ISMS), which is the framework for an organization's information risk management process. This certificate is a confirmation of running a business that is permanently concerned with information security. This means that all sensitive information is stored securely.

## BLE Locks

Each lock is identified by the device address. BLE locks are highly secure because they are AES128 encryption. Additional custom-built encryption protocol prevents Bluetooth replay attacks



## Keypad

The design of Keypad highly enhances security and convenience. The communication between the keypad and the lock adopts the low-power Bluetooth channel AES128 encryption algorithm.

## Cryptographic Key Protocol

Keys are assigned based on permission levels and used to encrypt all communication to and from the lock

## Tag

The tag has a built-in security chip that triggers the opening by displaying a tag (hardware token) directly to the lock. This tag contains electronically stored information that is protected by MIFARE® DESFire EV2 and is difficult to reproduce technically



# Security - encryption methods

- Register through the cloud platform [www.evoxssystem.com](http://www.evoxssystem.com);
- Replace mechanical lock with wiring-free smart electronic lock;
- Manage permissions no matter where and when;
- Door opening methods are fully digital: smart phones, cards, keypad, and smart keys;
- Available to remotely send temporary passwords to temporary access personnel;

## Mobile Key

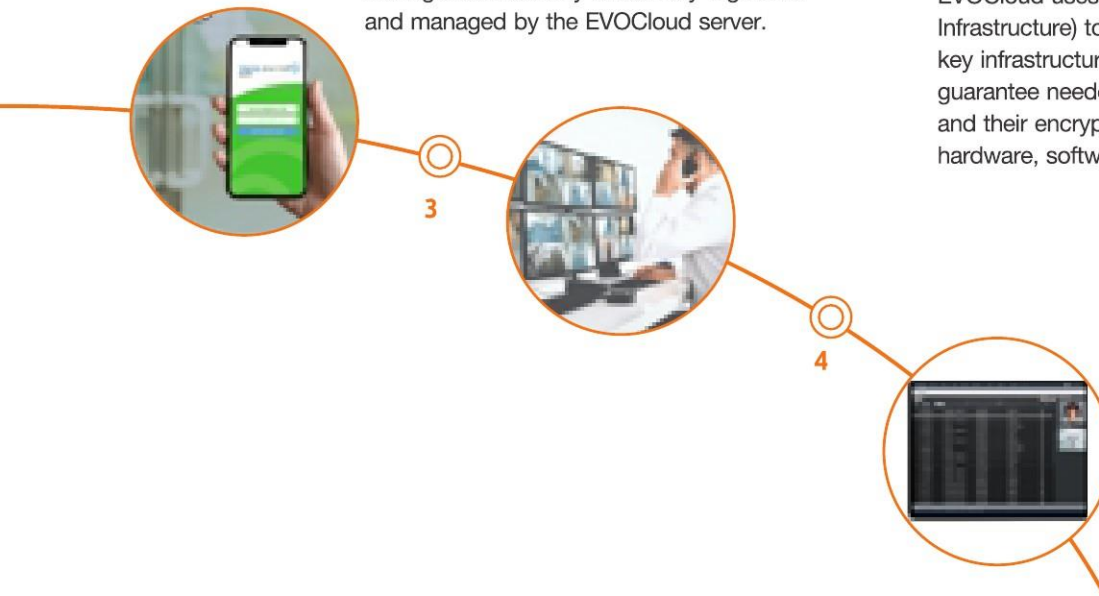
The mobile APP holds the private key and communicates the public key. The only thing that can decrypt a public key is a key that uses a private key, which is called "asymmetric encryption." Information management security is centrally registered and managed by the EVOCloud server.

## EVOCloud

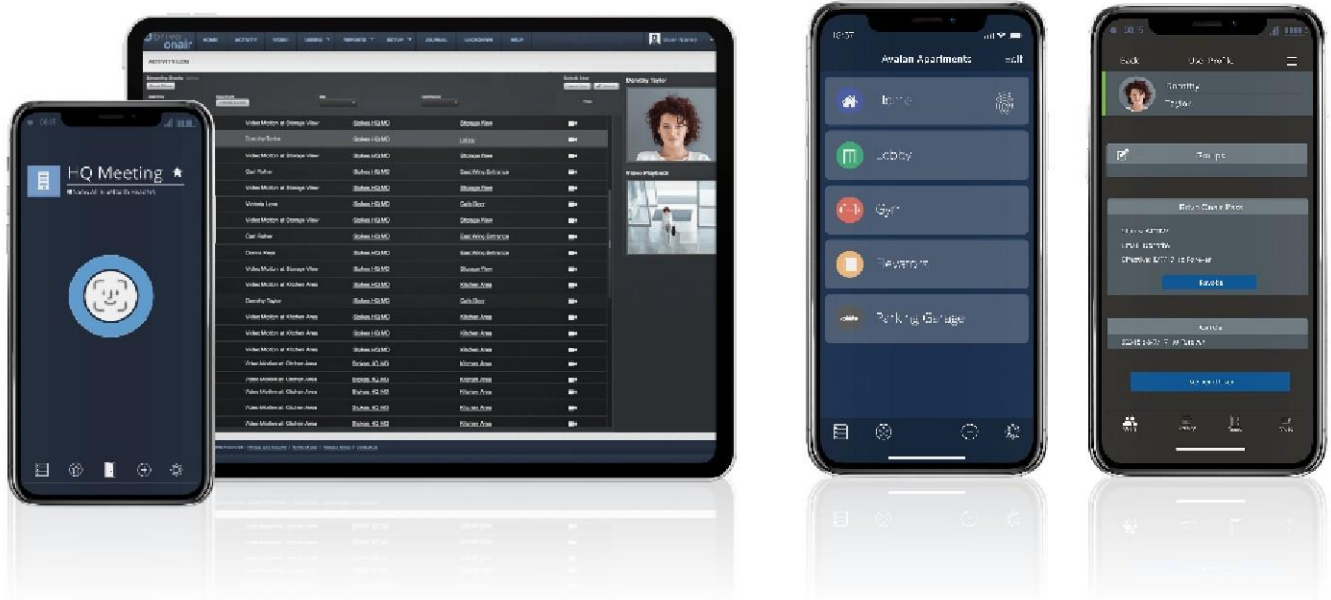
EVOCloud uses PKI (Public Key Infrastructure) to transmit keys. The public key infrastructure is the architectural guarantee needed to manage mobile keys and their encryption (such as policies, hardware, software, and work orders).

## Data STORAGE

Keys are stored on secure servers to prevent compromising sensitive data



EVOCloud is a cloud ecosystem developed for unified management of access control security equipment. Based on the realization of EVOOX lock control product management, it establishes closer integration with solutions such as personnel access management, industry security detection, and cloud video monitoring; a full-featured data API is available to cloud users and third parties for use. This integration fulfills the special needs of the industry.



#### Friendly interface, easy to use:

Web-based software interface, user-centric, easy and safe to use



#### Safety:

Provides reliable access control through a unique system 24 sales a day, you can control all parts of the hotel and all access control



#### Flexible:

Suitable for various types of applications, small project with serval rooms to big projects with thousands of rooms.



#### Easy to maintain:

Free update, no need to install, suitable for management of various personnel.



#### Based on smartphone:

A smart phone can be used as a mobile key, work together or as a substitute for it.



#### PMS:

The powerful and secure access control management system is designed to meet management requirements of various property and project, and can access various PMS software and OA software.





## **Predajca – Obchodné zastúpenie**

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