

# iLOQ S50

Unlocking a world  
of possibilities for  
**the Utilities and  
Telecommunication  
industries**





# iLOQ S50

## Unlocking a world of possibilities

The iLOQ S50 is revolutionizing the way mobile access management serves the utilities industry. iLOQ has eliminated the need for physical keys and battery-powered lock cylinders completely and has placed the power to unlock a world of possibilities inside a smartphone. Secure and fully digital cloud-based access sharing saves time, money and resources making everyday operations easier than ever before.

A functioning, reliable utilities industry is essential for a smoothly running modern society. iLOQ offers the needed security paired with efficient over-the-air access sharing that simplifies operating logistics and reduces costs normally associated with mechanical or battery-powered electronic locks.

There are more than

**2.3 billion**

smartphones in use worldwide. Most of them have the potential to be an iLOQ S50 key.

### The iLOQ S50 - The ideal locking system for the utilities industry



Power production and distribution



Telecom network services



Data centers



Water treatment plants



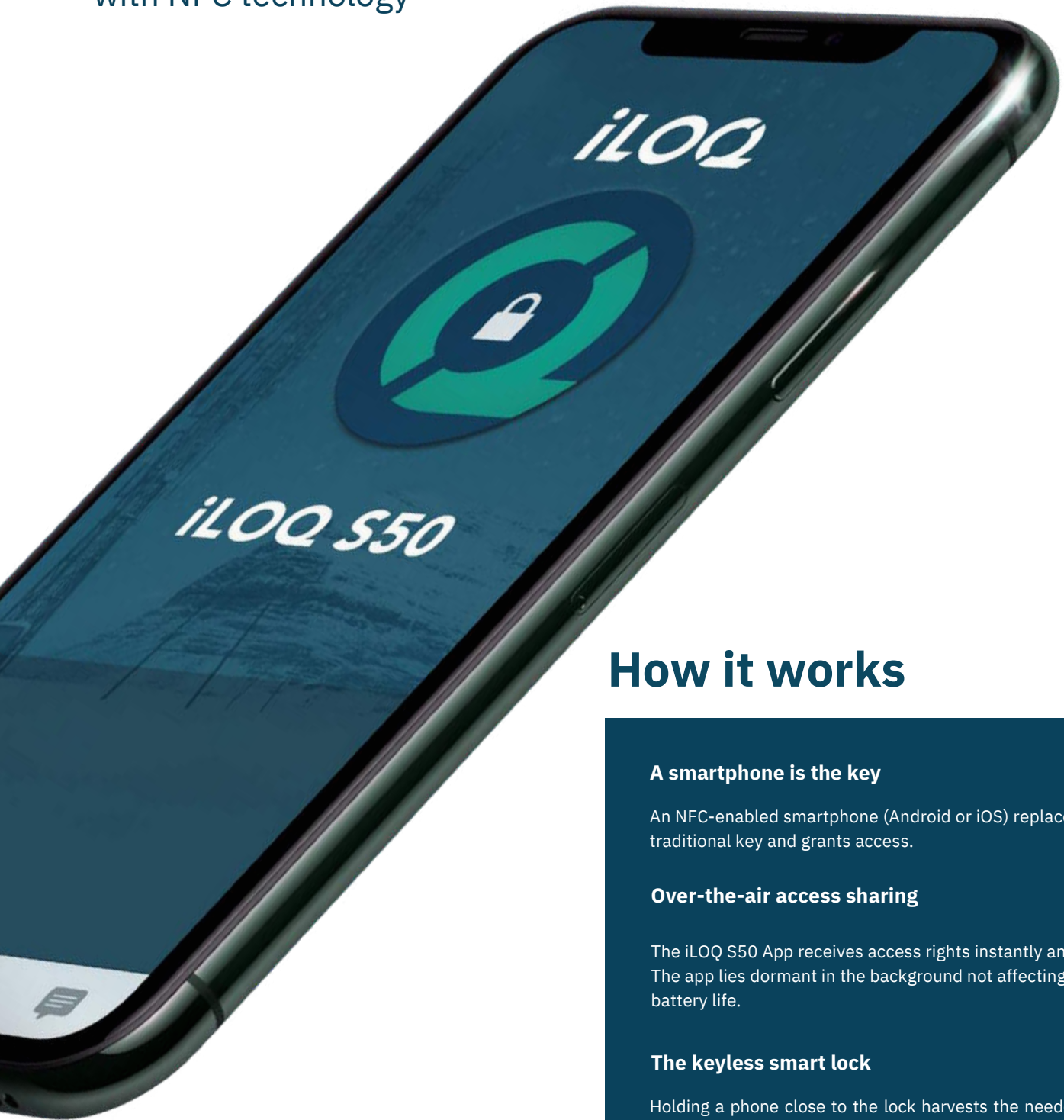
Property services



Rail transport services

# Mobile Access Management

replacing the traditional key  
with NFC technology



## How it works

### A smartphone is the key

An NFC-enabled smartphone (Android or iOS) replaces the traditional key and grants access.

### Over-the-air access sharing

The iLOQ S50 App receives access rights instantly and remotely. The app lies dormant in the background not affecting the phone's battery life.

### The keyless smart lock

Holding a phone close to the lock harvests the needed power for unlocking. Locks are maintenance free and no batteries are required.

### Secure management and easy integration

The iLOQ Manager (SaaS) enables highly secure management of multiple access rights. The iLOQ Manager is also easily integrated with other systems.



# Making life easier

## Unlocking the access management challenges of the utilities industry

Many utility businesses, such as electricity suppliers, are under enormous pressure to ensure a continuous service is provided. So, when maintenance is needed it is a matter of great urgency. The iLOQ S50 allows for access rights to be shared in real-time over-the-air, putting power directly into the hands of the right people.

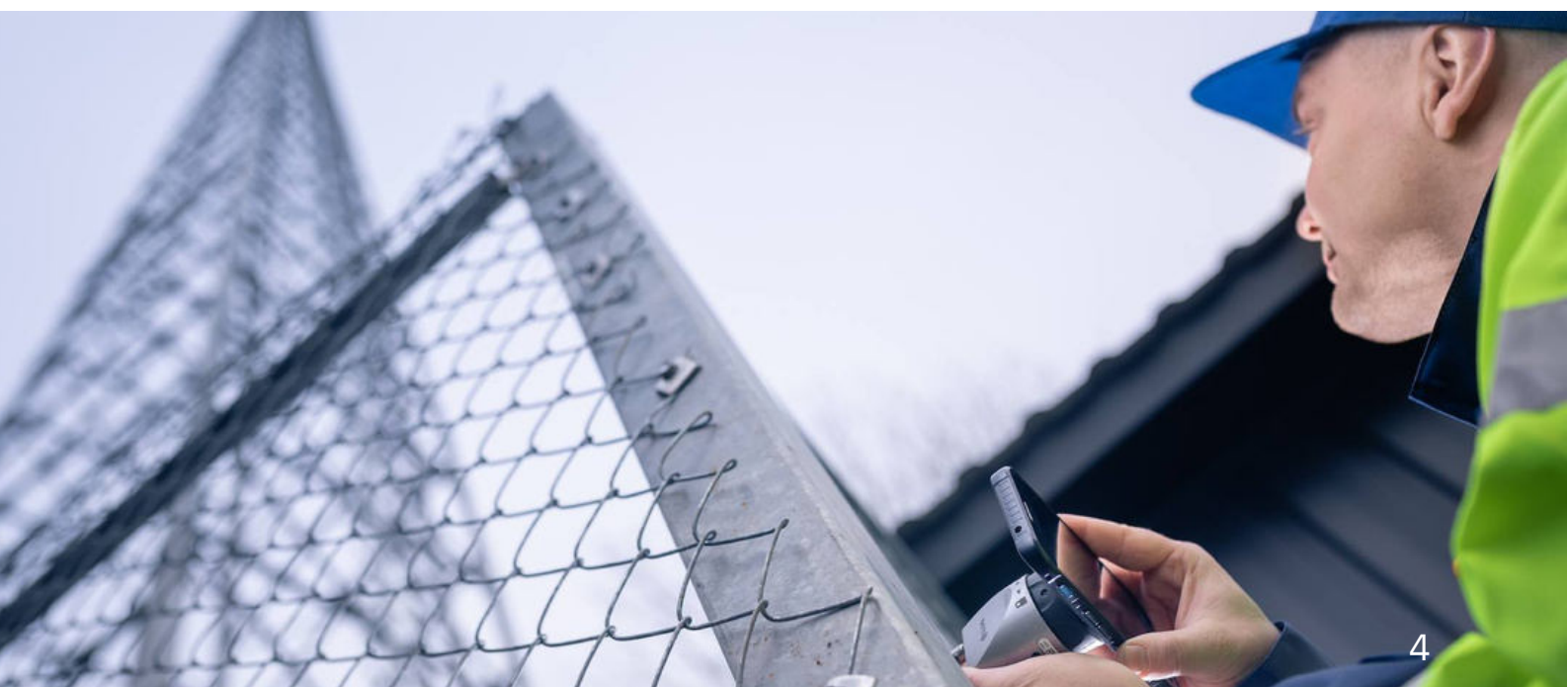


The iLOQ Manager software also allows you to grant time-restricted access for specific periods of time.

## Dealing with big numbers

Utility providers regularly face the challenge of managing numerous sites and a vast number of locks simultaneously. This has traditionally meant that a huge number of keys are in constant circulation. iLOQ made the traditional key completely obsolete in the utilities industry. With the iLOQ S50, the smartphone is the key. Only a smartphone is needed to open any lock in the system. Access to all property locks can easily be shared and managed with one cloud-based software program.

This large number of locks can be spread out across great distances and hidden in remote locations. Access rights can be shared directly – to the relevant person at a given site – minimising travel time and saving money. Streamlining the logistics and eliminating unnecessary travel will create significant savings over the solution's lifecycle.





Furthermore, utility sites often host huge amounts of people, from in-house personnel to outsourced maintenance crews, who require varying access rights to certain areas. The iLOQ S50 helps keep track of exactly who has access to what by allowing time-restricted access for specific periods of time – anything from pre-defined hours to weeks, months or years. Revoking access rights is as quick as granting them.

## iLOQ S50 benefits for utilities:



### EASE OF DAILY OPERATIONS

- Managing access rights to large numbers of locks and personnel over the air
- Instant access sharing with no physical keys involved
- Operationally reliable and maintenance-free locks
- No travel to pick up and deliver keys



### SECURITY

- Security risks related to physical keys eliminated completely
- Secure, digital, cloud-based mobile access management
- Real-time monitoring, sharing and revoking of access rights



### LIFECYCLE SAVINGS

- Saves valuable time and resources across the organization
- No costs from lock replacements resulting from lost keys
- No service costs related to battery changes or blocked keyways

By taking out the hassle and difficulty related to physical keys, iLOQ has created a mobile access management solution that will **save utilities time, money and resources.**



**NO** keys

**NO** key programming

**NO** battery replacement

**NO** travel to pick up and deliver keys

**NO** lock replacement due to lost keys

**FAST** over-the-air sharing and management of access rights

**EASY TO USE** all-in-one software for all locks and personnel





# iLOQ S50 Product portfolio

The iLOQ S50 product portfolio has been designed to cover all the needs of the modern utilities industry. The iLOQ S50 covers many types of lock cylinders that are all manageable under one software program. Unlock the iLOQ S50 with merely a smartphone.

## How it works

### → Easy installation

Installation and commissioning has been made extremely easy. The iLOQ S50 can be installed in place of existing locks with no need for additional modifications or wiring. Designed in accordance with the most common lock standards, both Euro and Oval, the iLOQ S50 is a compact lock cylinder that allows for smooth, hassle-free installation.

### → Maintenance-free

Eliminating the need for regular maintenance adds to the ease, reliability and cost-efficiency of the iLOQ S50. There are no batteries to change, no exposed keyways to clean and no lost keys to replace. These features also mean that the locks are guaranteed to work under the most extreme weather conditions.



### Europrofile cylinder

Battery-free Europrofile lock cylinders.



### Oval lock cylinder

Battery-free Oval standard lock cylinders.



### Key tube lock cylinder

Battery-free key tube cylinders.



### Cam lock

Battery-free programmable electromechanical Cam locks.



### iLOQ Key Fob

The iLOQ Key Fob is an easy alternative for users without a compatible phone. Access rights can be updated through a phone via Bluetooth.



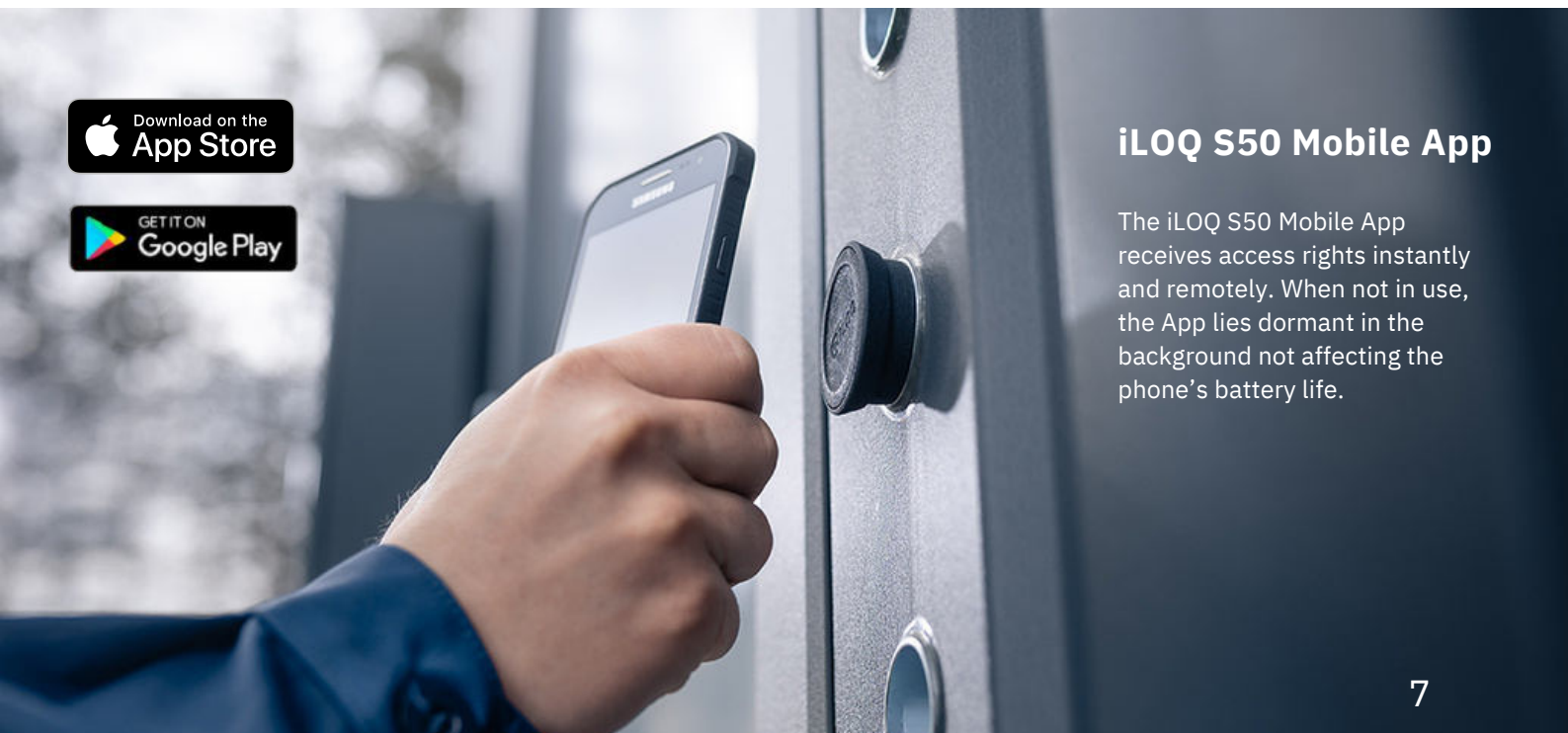
### Padlock

Battery-free padlocks with NFC reader (available in several EN grades and shackle sizes).



### Programming Token

The Token secures system administration for programming locks and keys.

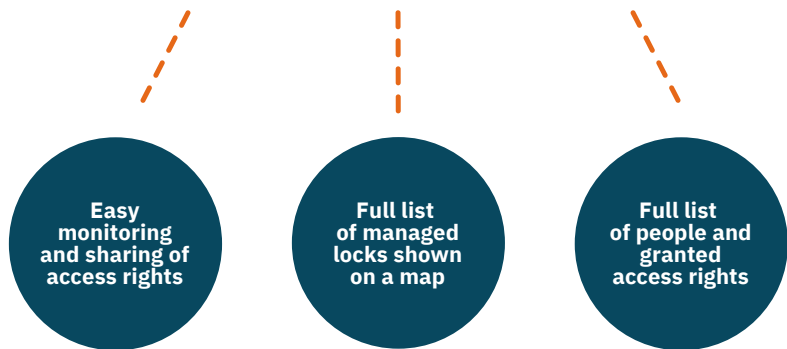
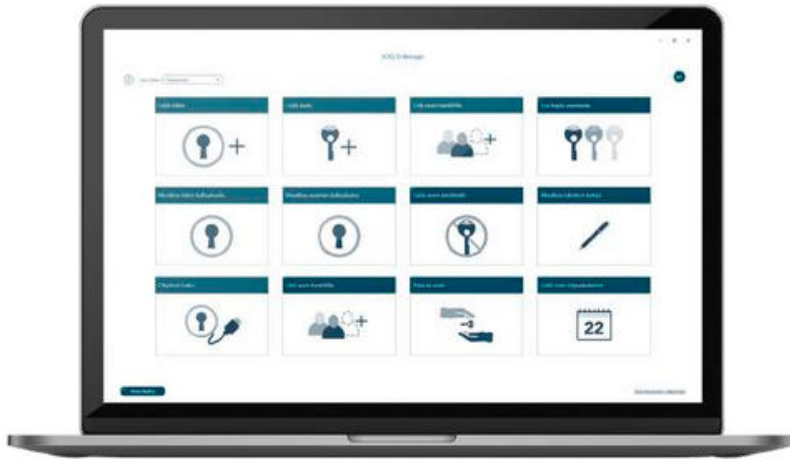


## iLOQ S50 Mobile App

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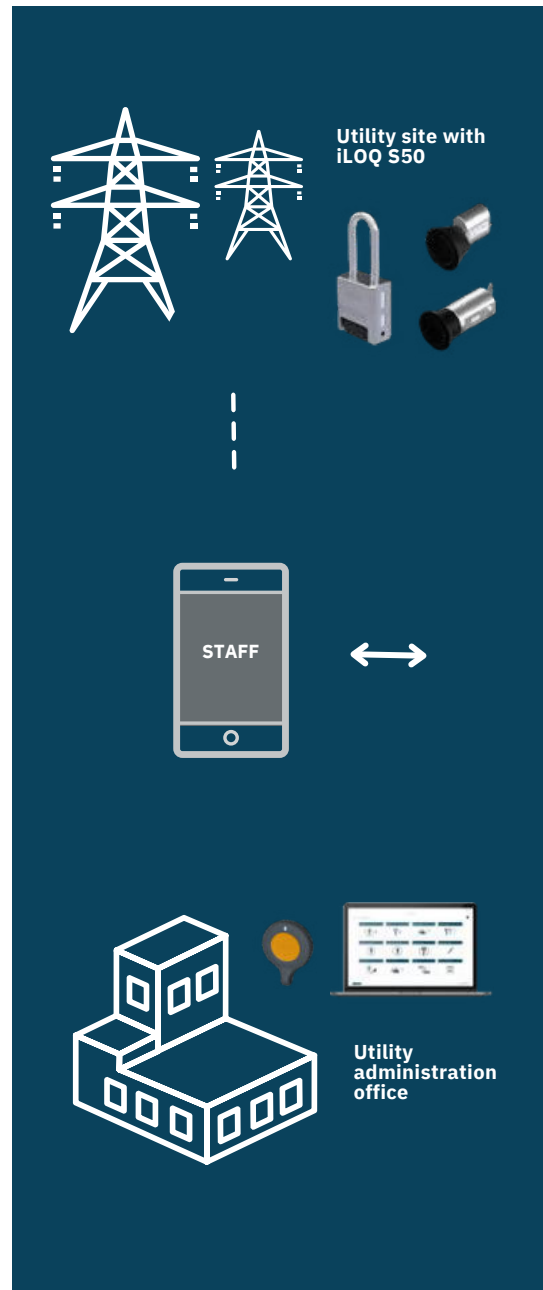
# iLOQ Manager (SaaS)

software that provides control



## Easy and secure cloud-based mobile access management

The iLOQ Manager (SaaS) provides instant and real-time access sharing and management, consolidating operations of multiple access points and people, all on one platform. By sharing access rights over-the-air to the key-user's mobile device, the need for key distribution (or even key programming) has been eliminated from daily operations.

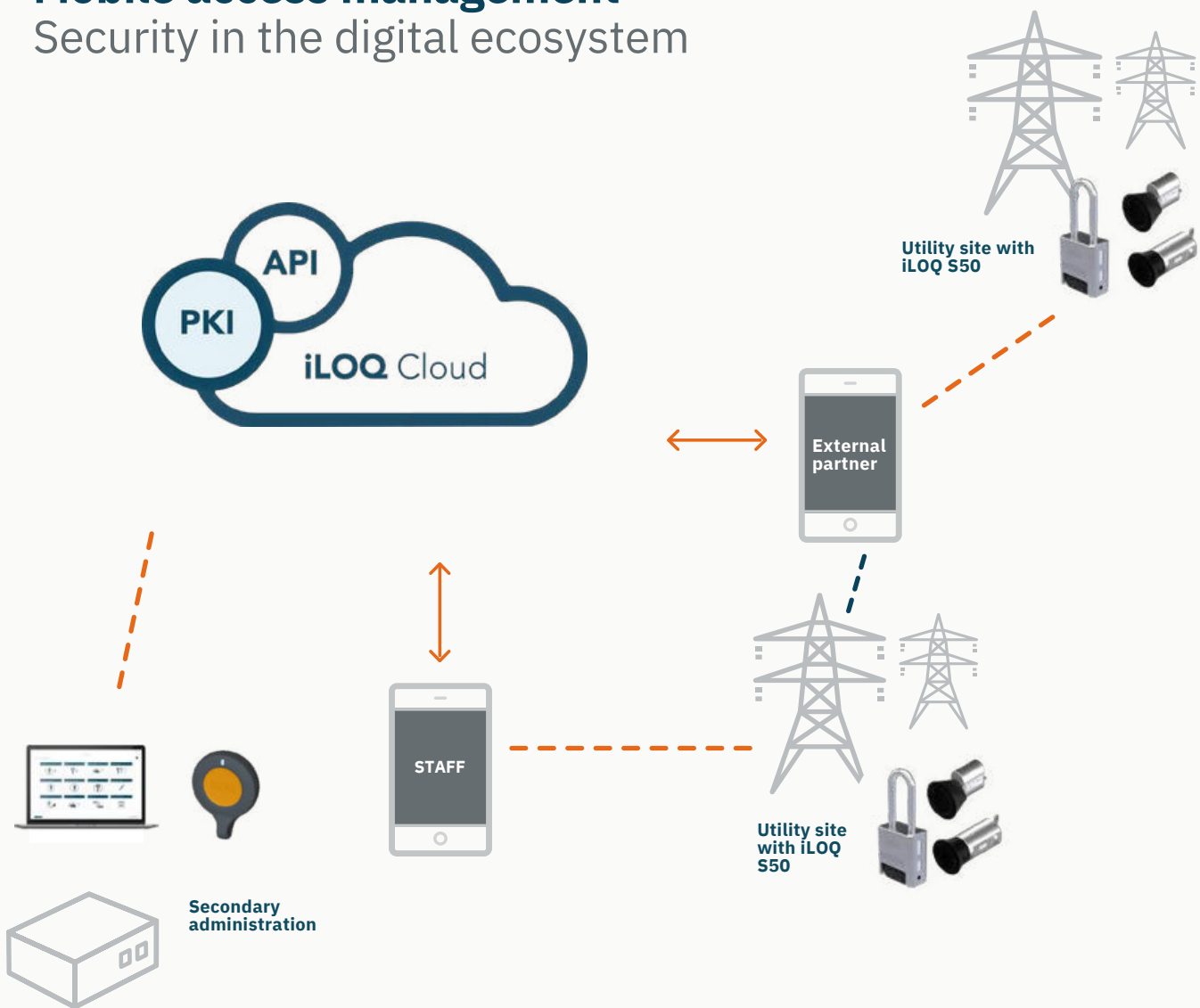


# Security in the digital ecosystem



# Mobile access management

## Security in the digital ecosystem



The iLOQ S50 is part of the digital ecosystem and is fully equipped to securely integrate with mobile devices. The phones collect and send real-time audit trails automatically to the cloud.

### Distributed security

- Physical Programming Token required for security-critical programming of keys and locks

### Data security

- ISO27001:2015 certified cloud server
- TLS-protected client-server communications (separate encryption of data)
- Database server isolated from the internet (communications through web server)

### Phone security

- Device identity ensured by strong PKI-based (Public Key Infrastructure) authentication
- Mutual authentication between key and lock (AES256 encrypted)
- State-of-the-art App protection from malware and misuse

## Built to last

iLOQ S50 represents mobile access management that is designed to last. It is fully scalable and expandable according to specific organizational needs. New locks and new users can be added at any time. The locks themselves have been put through rigorous testing in the harshest of environments. iLOQ is dedicated to continuous development of digital access management solutions that are always on the cutting edge of technology.

## Maximized material efficiency

Battery-free mobile access management also goes a long way in improving material efficiency and reducing waste. iLOQ has eliminated the need for physical keys by designing lock cylinders that harvest the needed energy for unlocking from mobile devices. This reduces the environmental impact from locking systems waste and drives down total cost of ownership. The iLOQ S50 is a green solution that is self-sustaining.



By reducing the use of batteries  
**iLOQ helps save** more than

**50 000 kg**

of **battery waste** each year.



**Fully scalable and expandable locking system** that makes replacing mechanical locks

**easy and economical.**



Tested in the harshest arctic conditions  
**for long-lasting and reliable performance.**

**Sustainable  
business**



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