

## iLOQ S50

Battery-free, keyless  
locking systems

Real-time remote  
access management  
for optimized field  
operations







# Challenges

## Challenges for telecom infrastructure managers:

- Many sites to be managed
- Remote locations
- Many users / technicians
- 3rd-party users
- Both planned and unplanned access needs
- Lack of information
- Threat of in-house theft

## Challenges with access management of physical keys:

- **Logistics:** travelling to collect and return keys, numerous keys in circulation
- **Operational costs:** key copying, replacing cylinders, access management for customer's technicians (customer = rent space in the tower)
- **Security:** uncontrolled key copying, no information about who has had access to the tower, inability to track misuse in cases of equipment theft

## Challenges with battery-powered keys:

- Impossible to remove access rights of lost or stolen keys
- Keys need to be periodically updated
- Maintenance related to changing batteries
- Cannot make quick changes to access rights in cases of urgent maintenance
- Not possible to identify the user as keys are easily handed over

## Challenges with battery-powered locks:

- Very high operational costs to change batteries
- Not environmentally friendly
- Lack of access if battery wears out
- Battery-powered solutions are unreliable in extreme weather conditions
- Normally, they have an alternative opening "just incase" – security problem

# Solution

iLOQ S50 allows telecoms providers to focus on core business – managing and maintaining sites, not providing access to them.

**No keys**  
**No batteries**  
**No maintenance**

- Don't need batteries or wiring
- Harvests electricity from smartphone's NFC induction
- Turns phone into a key and a power source
- Access rights over-the-air in real time
- High security with advanced technology
- Withstands harsh environments (IP 68)
- Environmentally friendly
- Locks can be opened with smartphone offline

## Prevent in-house theft

Did you know that 70% of infrastructure site theft comes from in-house key holders – people with unauthorized key copies or just subcontractors looking for extra money by stealing batteries or fuel?



Telecommunications site

Telecommunications street cabinet

## iLOQ S50 benefits in detail

### Very low OPEX

- No key handling
- No costs for key copies/cylinder replacements
- No recurrent costs for battery-related maintenance
- No need to replace cylinders or rekey if keys are lost or stolen
- No need to investment in servers
- Behavioural change on subcontractor operations
- Tower companies can delegate access management to customer

### Fast ROI and low TCO

- Savings in OPEX compared to existing solutions helps fast ROI

### Health and safety

- Control over the person, not over the key

### Operational efficiency

- Create and update access rights for thousands of property locks in real time and share them instantly and remotely

### Maximized security

- No risk of key copying
- Instantly revoke access rights to lost, stolen or unreturned keys

### Prevent misuse

- Keep track of who has access to what areas and when
- Real-time audit trails and access reports

### Simplified operating logistics

- Plan site maintenance/service work in advance and issue access rights accordingly

### Reduced time, costs, and environmental impact

- No need to travel between sites and administration offices to pick up and return keys

### Integration and APIs

- Integrate iLOQ with existing solutions



Keep your sustainability targets by eliminating battery waste with iLOQ's battery-free solutions





# Product portfolio



## Strong and sturdy family of padlocks

- Typical uses: gates, cabinets and hatches
- Ingress protection rating: IP 68
- Designed for exposure to harsh environments and extreme climates
- Available in two versions: opening and closing with user credential/opening with and closing without user credential



## Camlock

- Typical uses: cabinets, key boxes, IT and distribution cabinets
- Standardized measurements – easy to retrofit



## Europrofile half cylinder

- Typical uses: rack cabinets, cabinet handles
- Ready-made solutions for various utility sector cabinets
- Water-resistant and dustproof
- Standardized measurements – easy to retrofit
- Special autolock version for cabinet handles
- Special version with adjustable latch for key switches and other special applications
- Knob and double cylinder available for standard door installations



## Scandinavian Oval lock cylinder

- Typical uses: standard door installations
- Standardized measurements - easy to retrofit



## Key tube lock cylinder

- Enables usage of iLOQ S50 in key safe applications where typically a third-party organization, like fire service or a telecommunication company, needs to have access to the premises/buildings using their own key
- The key to the premises is placed in wall-mounted key safe tubes, which organizations can open using their mobile phones as a key
- Support for different sizes and models of key tubes

## Key Fob

- For users without a compatible NFC-enabled smartphone
- The Key Fob supplies the required operating power to the lock over an NFC field



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