ACCESS CONTROL AND MONITORING SERVICE FOR NETWORKS

INFRABIRD™

Nexans

INFRABIRD™ : network security
"smart network security"

The 3 modules

INFRAKEY
Access management for FTTH street cabinets

INFRAVIEW
Monitors cabinet health and tracks interventions

INFRACOACH
Feedback from field alerts and technical reports

Main functions

Access control and network monitoring service

Easy to deploy

Suitable for all street cabinets without modification (installation time <5min)

Multi sensors (door status, temperature, humidity...)

Networks operated according to local availability (M2M IoT)

Locks without battery

Web platform

Supervision of the cabinet fleet and maintenance

Access to maintenance history

Simplified management of access rights

Link to operators' IS platforms to trigger network tests

Mobile application

Easy to open from a smartphone

Address search and location of cabinets
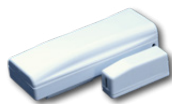
Alert display in real-time
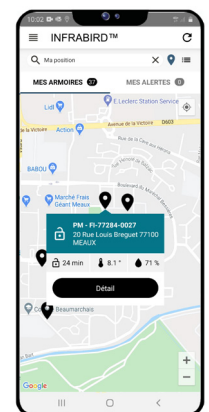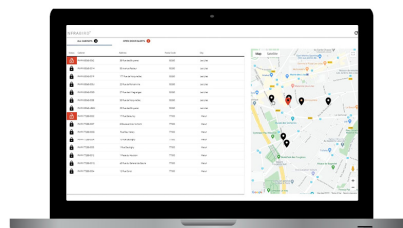
Intervention support

Benefits

- Access cabinet using smartphone. No key required.
- Easy to install and adaptable to any type of cabinet without drilling
- Stand-alone solution designed for passive equipment
- Provides real time visibility of the cabinets location and history of interventions
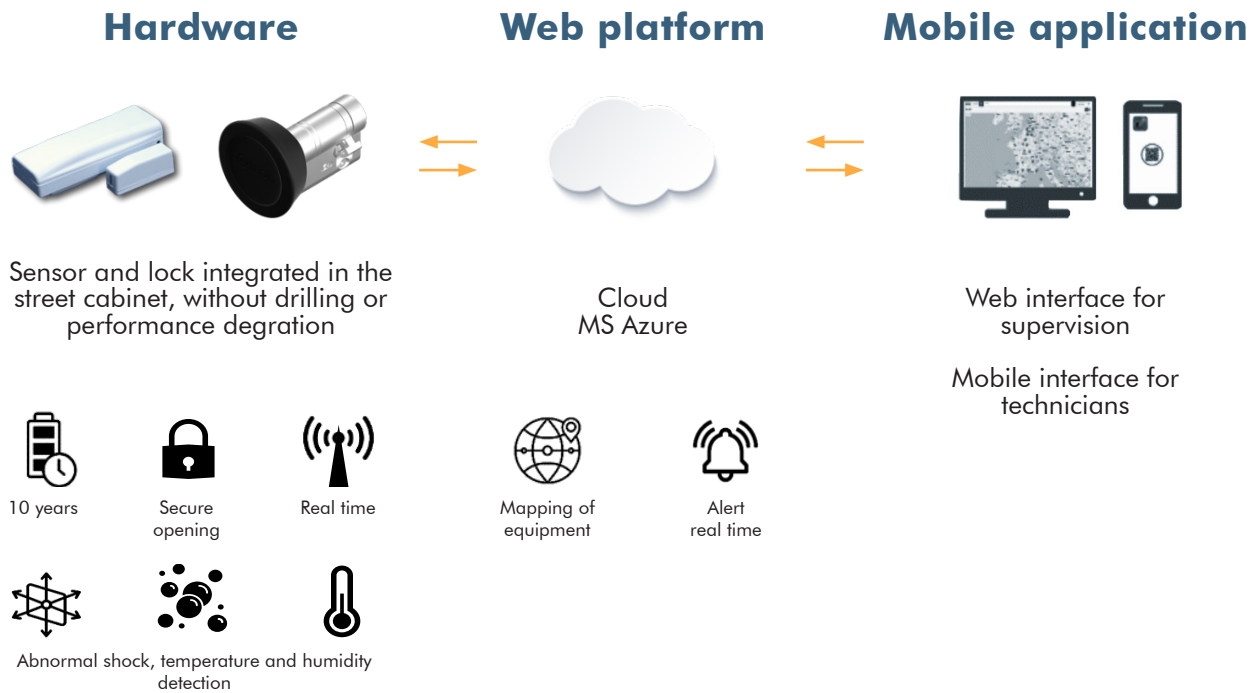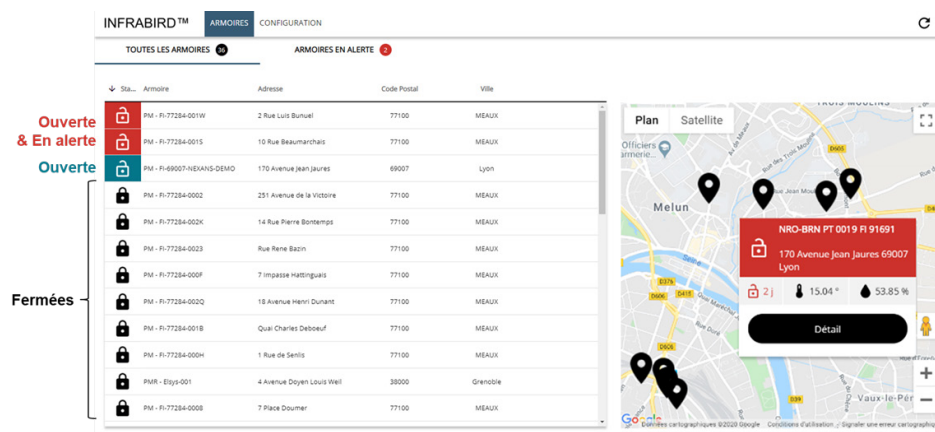
Electronic locks

IoT sensors

Functionality

Hardware	**Web platform**	**Mobile application**

Sensor and lock integrated in the street cabinet, without drilling or performance degration

Cloud
MS Azure

Web interface for supervision

Mobile interface for technicians

10 years	Secure opening	Real time	Mapping of equipment	Alert real time

Abnormal shock, temperature and humidity detection

Monitoring tool
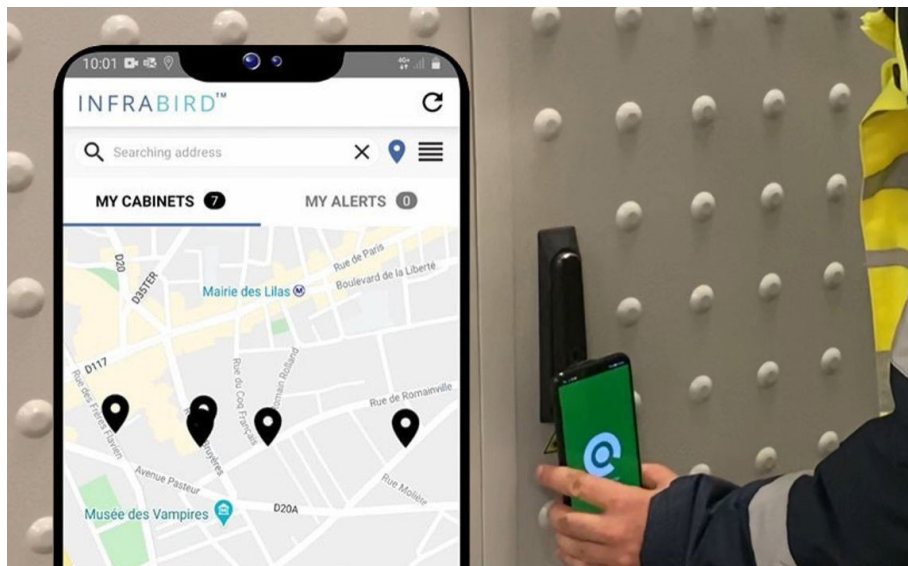
Platform accessible from any web bowser

Benefits

- Global management of cabinets and access rights
- Real-time monitoring of all connected cabinets
- Alert in case of unauthorised opening or break-in
- Alert for cabinets left unlocked
- History of interventions
- Affiliation of participants and anonymisation of accounts
- Simplified management of technician accounts (creation and sending of a key by SMS)
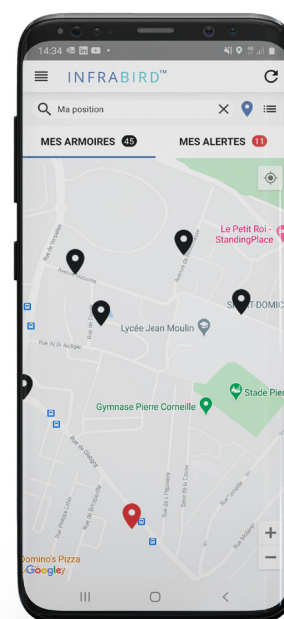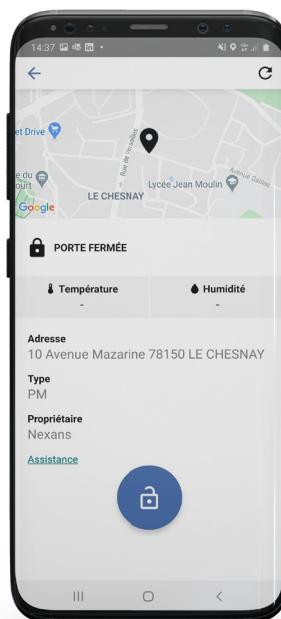- Interface to intervention management and monitoring information systems

Technician's toolkit

Mobile application compatible with all smartphones

Benefits

- Dematerialised activation of the key by a simple click (SMS)
- Automatic detection and unlocking of the cabinet using smartphone
- Geolocation of the position of nearby cabinets
- Consultation of current alerts
- Possibility to leave a comment on a cabinet to identify non-conformities

Benefits

Example for application to the optical fibre network

for
1 900 €
of extra maintenance
per cabinet

or
2 à 3%
of operator revenues
lost to maintenance

and
50%
of the interventions
caused by cabinet
cabinet faults

30%
potential reduction
on maintenance
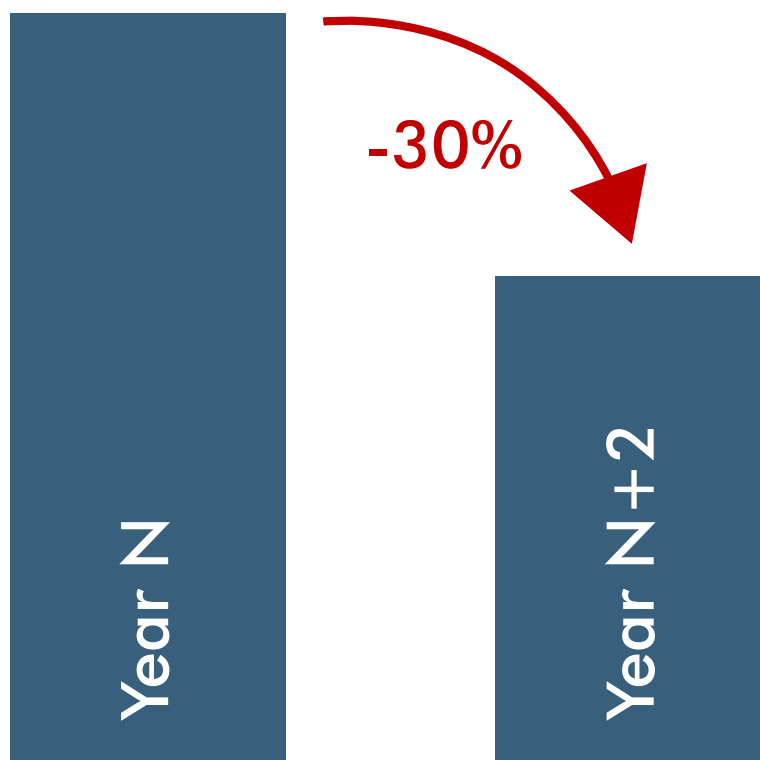budget for cabinets
with INFRABIRD™

Optical fibre experimental area

Orange and Nexans have joined forces in an experiment covering 80 cabinets in Meaux, of which 30 are already connected to INFRABIRD™ since 25/01/2021

First results on the Meaux experiment

- 100 % of equipped cabinets are correctly closed at the end of the day
- Cases of damage noted: the technicians were identified for each
- Neighbouring breakages reduced by 3 on the equipped cabinets
- 350 user technicians, more than 3000 interventions on 30 cabinets:
    - ✓ 86% of technicians are satisfied with the system
    - ✓ 97% of technicians would like to see this system deployed nationally

Anticipated reduction of maintenance cost

-30%

Year N

Year N+2

Our offers

Example of prices given as an indication

<table>
<tr><td>

EXPERIMENTATION

30 k€ for 6 months**

30 INFRAKEY and INFRAVIEW cabinets
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6 month trial

Control of opening, temperature shock and humidity
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7 training sessions

Level 3 support (details below)

</td><td>

RECURRING OFFER

45 € without VAT/month/Cabinet* **

300 to 400 INFRAKEY and INFRAVIEW cabinets

1000 technician interventions per cabinet, unlimited supervision access license for the infrastructure operator and its subcontractors
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+ INFRACOACH with technician reporting

Opening, temperature, shock and humidity control

On-site installation

Level 3 support (details below)

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*for a period of 6 months, then €30/month/ADR \ **indicative prices depending on services and volumes

DEDICATED SERVICES FOR TELECOM OPERATORS AND INSTALLERS

ENGINEERING AND TRAINING

- In-depth training for installation and maintenance teams
- Integration of active equipment and power systems inside outdoor cabinets
- On-site delivery of preconfigured and integrated solutions for a reliable, fast and cost effective deployment

ADVANCED LOGISTICS

The end-to-end cable logistics solution for traceability and full view on stock location, and availability

- On-time execution with just-in-time delivery
- Project site congestion reduction
- Budget control
- Security of materials and equipment until point of use

SMART INVENTORY MANAGEMENT

Based on RFID technology and demand driven supply models for easy stock monitoring:

- Real-time stock visibility
- Real-time stock consumption follow-up
- Quick reception process
- Fast and easy physical stock counting

CONNECTED DRUMS

Drum tracking & geolocation

- Automatic delivery notification
- Cable theft detection
- Residual length management
- Full fleet geolocation

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