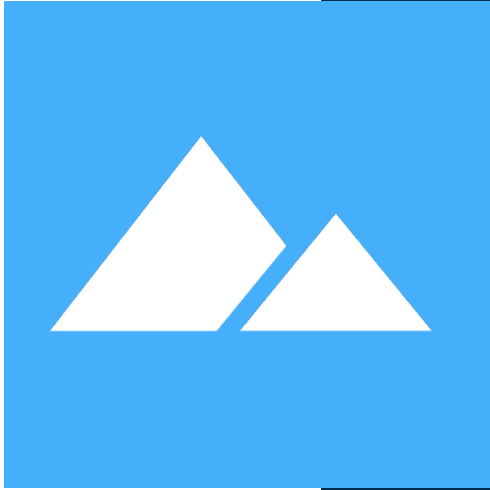SENSORBERG

PRODUCT FRAMEWORK

➜ Purpose
➜ Overview
➜ Software
➜ Hardware
➜ Use cases

Sensorberg provides an open digital ecosystem for smart spaces, composed of modular hardware and secure, customisable software.

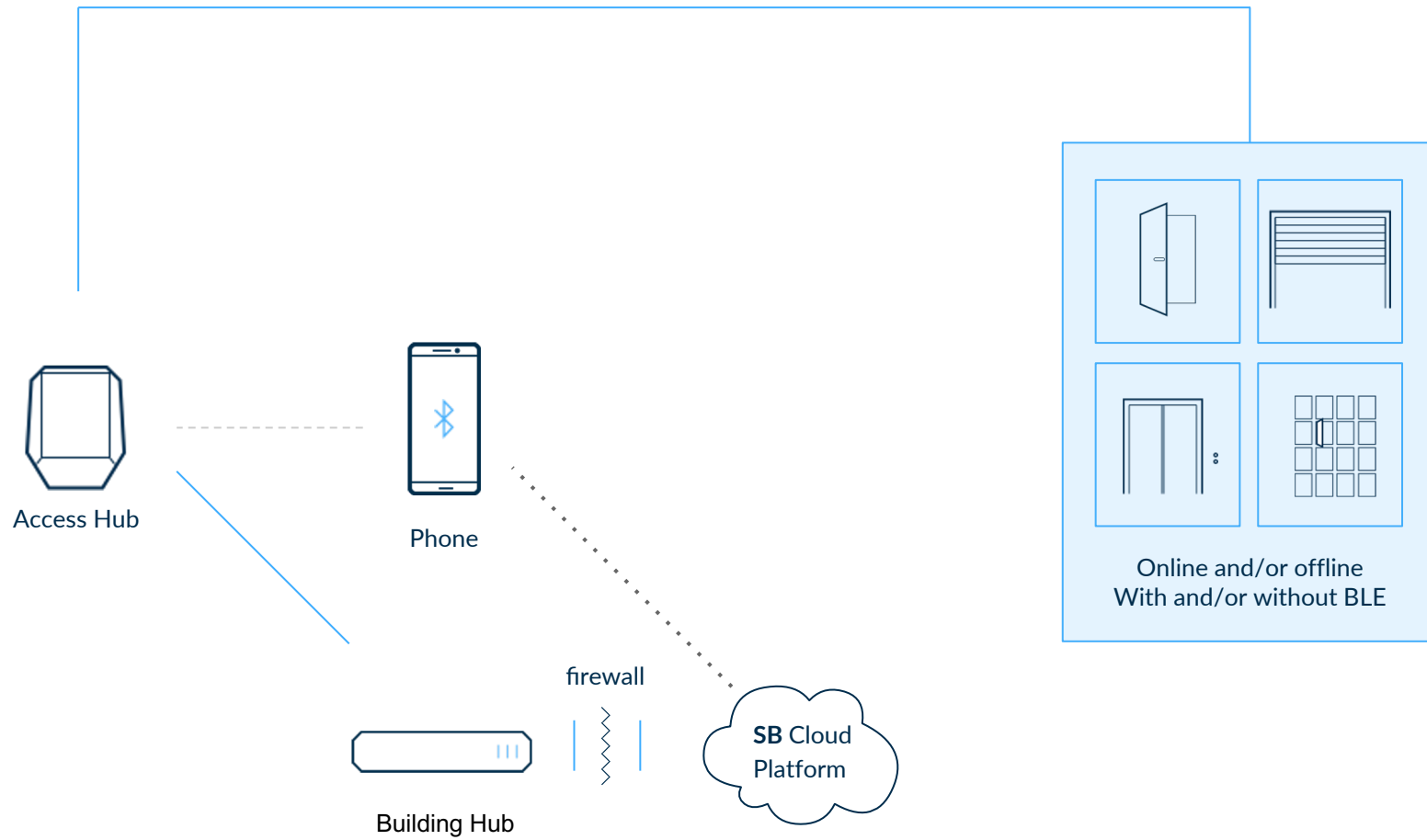We provide solutions for access control, facility management, smart home management, smart storage, and more.

We believe in shaping spaces so that people can focus on what's truly important.

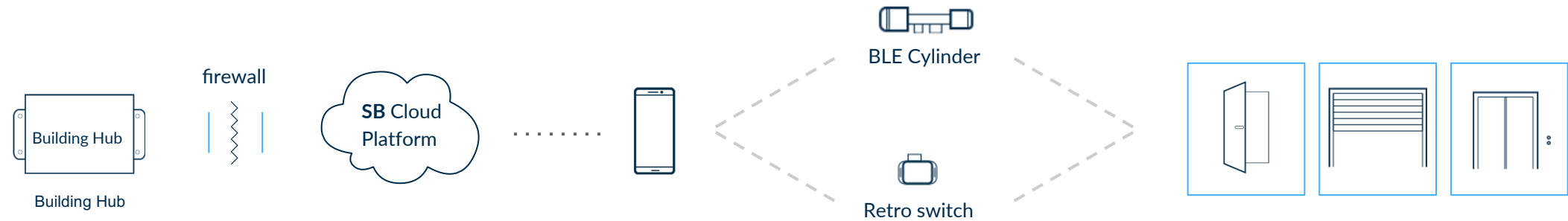# OVERVIEW

Sensorberg Access System

Overview Access Hub

Access Hub

Phone

firewall

Building Hub

SB Cloud
Platform

Online and/or offline
With and/or without BLE

**Communication Technologies
secured by SSH/VPN**

Bluetooth (BLE)

Wireless

Cable

Sensorberg Access System

Overview BLE (Bluetooth Low Energy) Hardware

Building Hub

firewall

SB Cloud Platform

BLE Cylinder

Retro switch

Building Hub

Overview Online Cylinder

Access Hub

Building Hub

firewall

SB Cloud Platform

Radio module

Online Cylinder

Building Hub

Communication Technologies secured by SSH/VPN

Bluetooth (BLE)   Wireless   Cable

Sensorberg Access System

Online and/or offline
With and/or without BLE

Access Hub

NFC Card

BLE Cylinder

firewall

Building Hub

Building Hub

SB Cloud
Platform
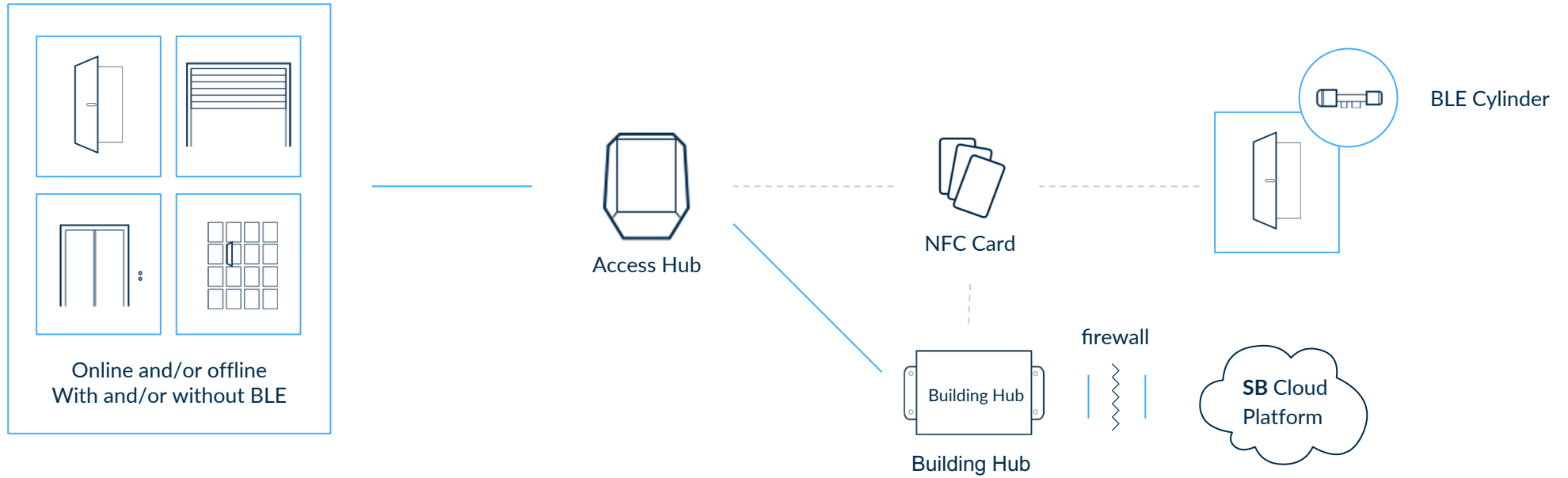
**Communication Technologies
secured by SSH/VPN**

Bluetooth (BLE)

Wireless

Cable

SOFTWARE PORTFOLIO

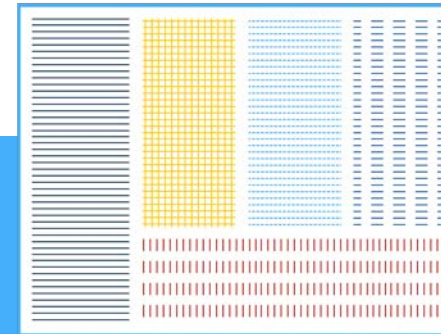# Sensorberg software overview

Whitelabel App

Our iOS/Android app provides digital access, Smart Spaces control, smart metering information, and more, and can be branded as needed.

Platform

Our platform offers management of your digital access estate, your NFC and Bluetooth cards, your members, meeting room and locker bookings, rule systems, and more.
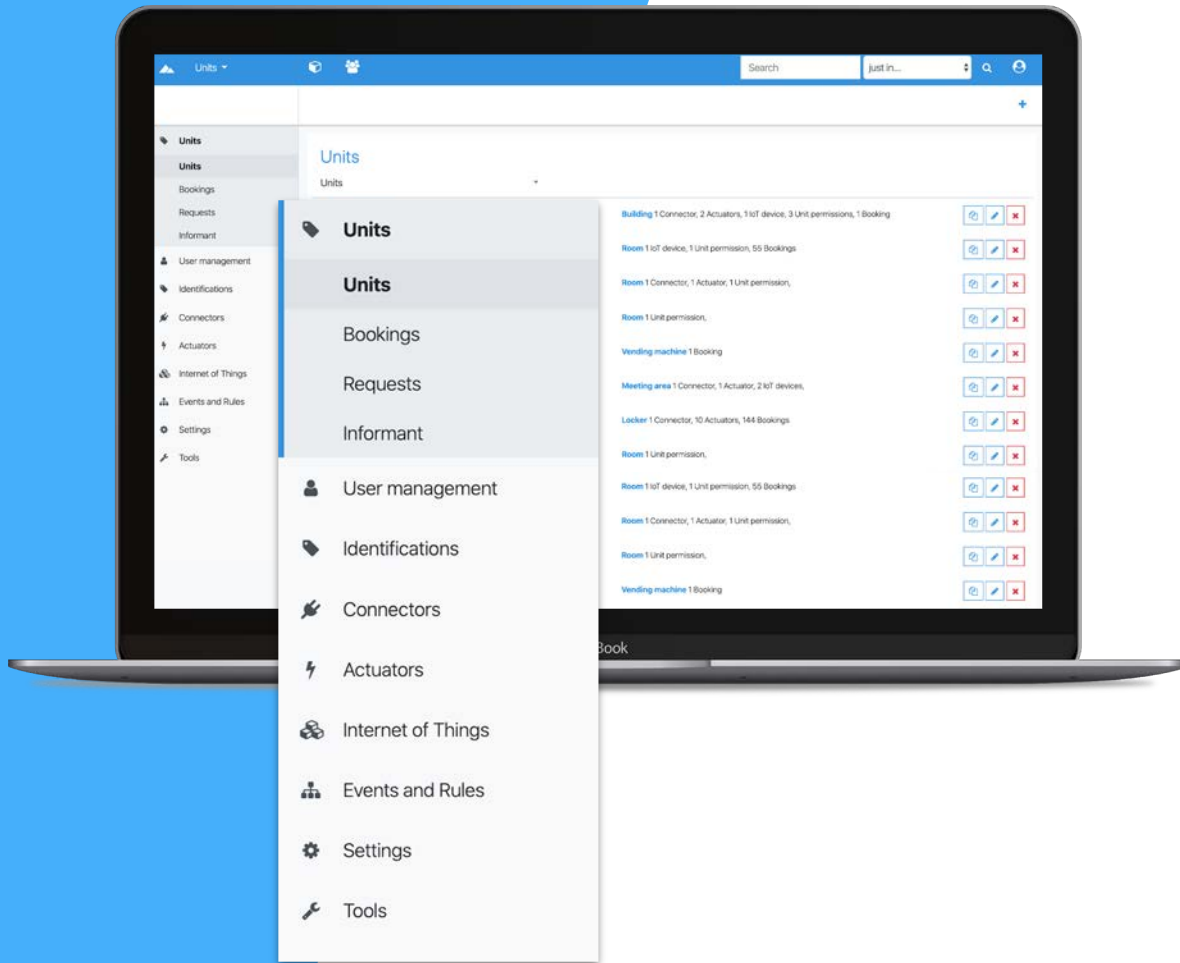
SDK

Our SDKs and documentation make it easy to integrate our platform functionality into your existing iOS and Android apps.

API

For integrations with your own platform or more complicated client development, our API provides highly-secure, fine-grained access to our functionality.

PLATFORM

Our platform allows building owners and operators to manage digital access, IoT devices, bookings for lockers or meeting rooms, monitor smart metering, and more.

We provide secure access by browser, with a permission structure to handle building owners, building managers, office managers, and users.

Sensorberg Design

Branded Design

APP

Our app, available on iOS and Android, gives your user digital access, allows them to book meeting rooms or lockers, manage the devices in their Smart Spaces, and more.

The app can be distributed privately or publicly, with the option to rebrand it to suit your needs.

APP Modularity

On top of:

- Digital access
- Booking meeting rooms
- Booking lockers
- Setting silent alarms
- Managing IoT devices
- Receiving company notifications
- QR-Code access

Sensorberg can also tailor extra features to attend the specific needs of your business.
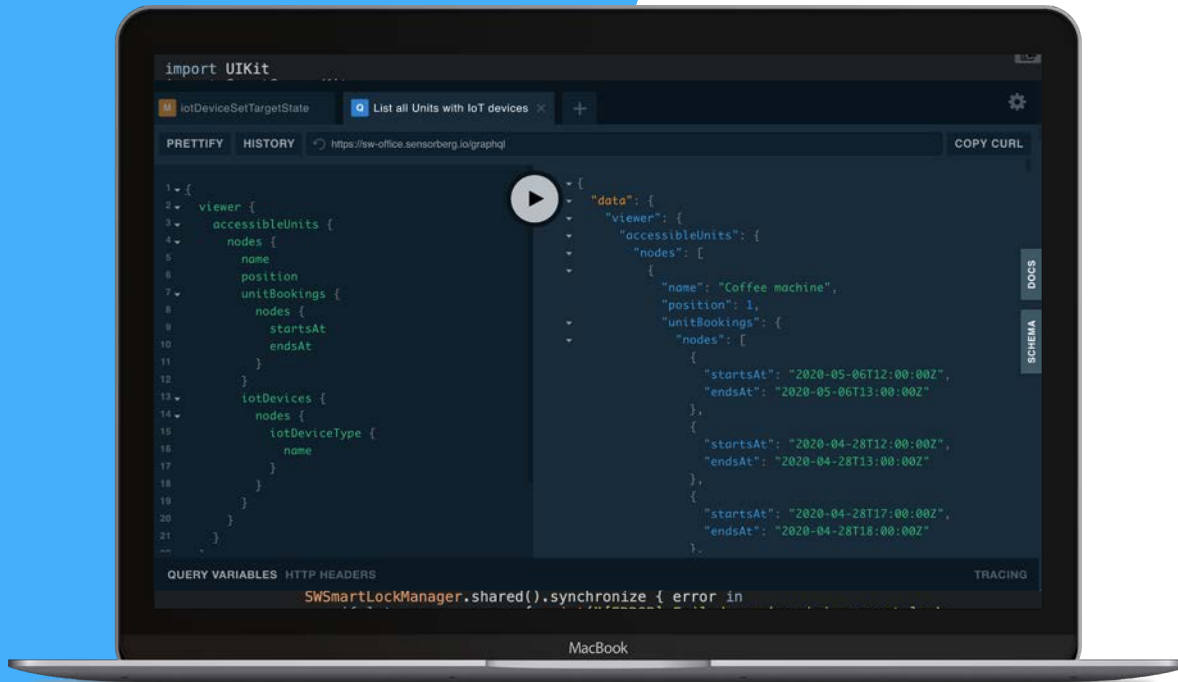
SDK

We provide Software Development Kits (SDKs) for both iOS and Android, providing the components that make it easy to build our platform's functionality into your existing applications.
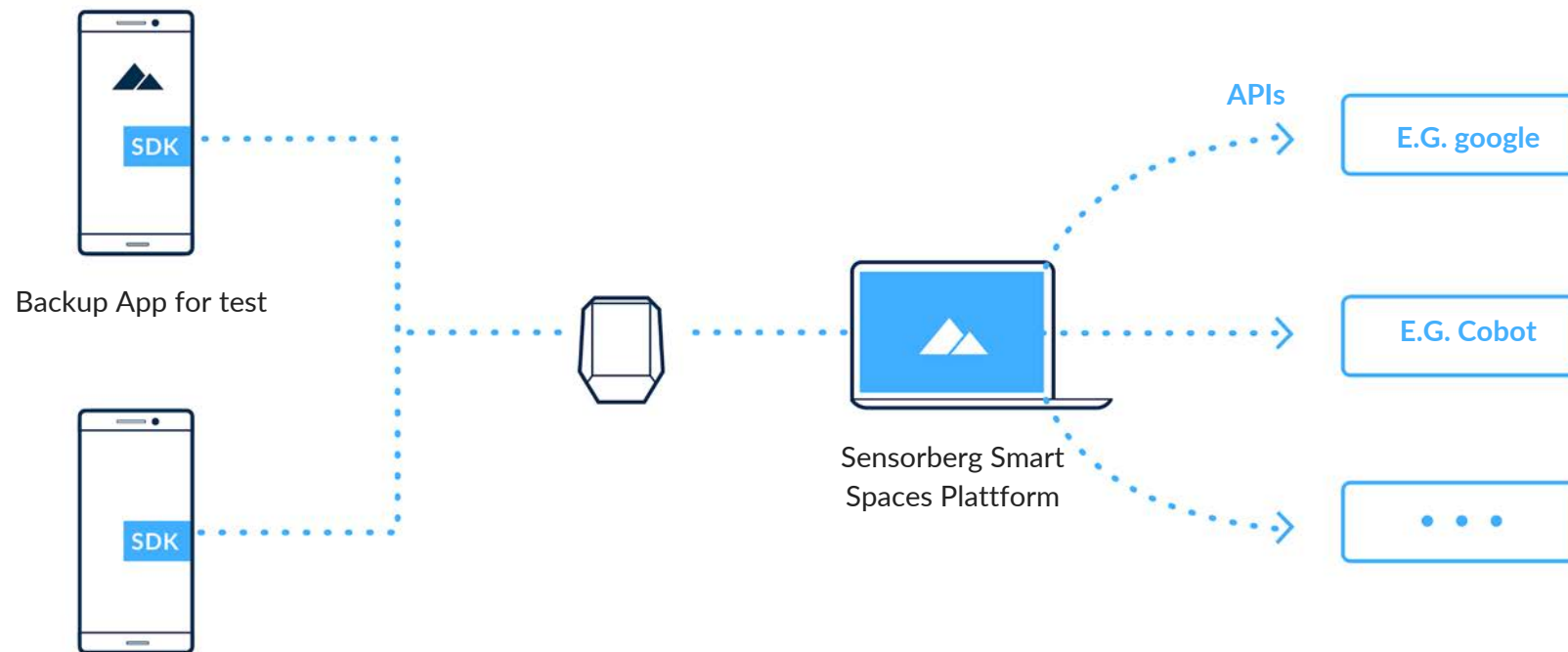
Our online documentation makes the process simple, with a support portal for developers that can also help with troubleshooting common issues.
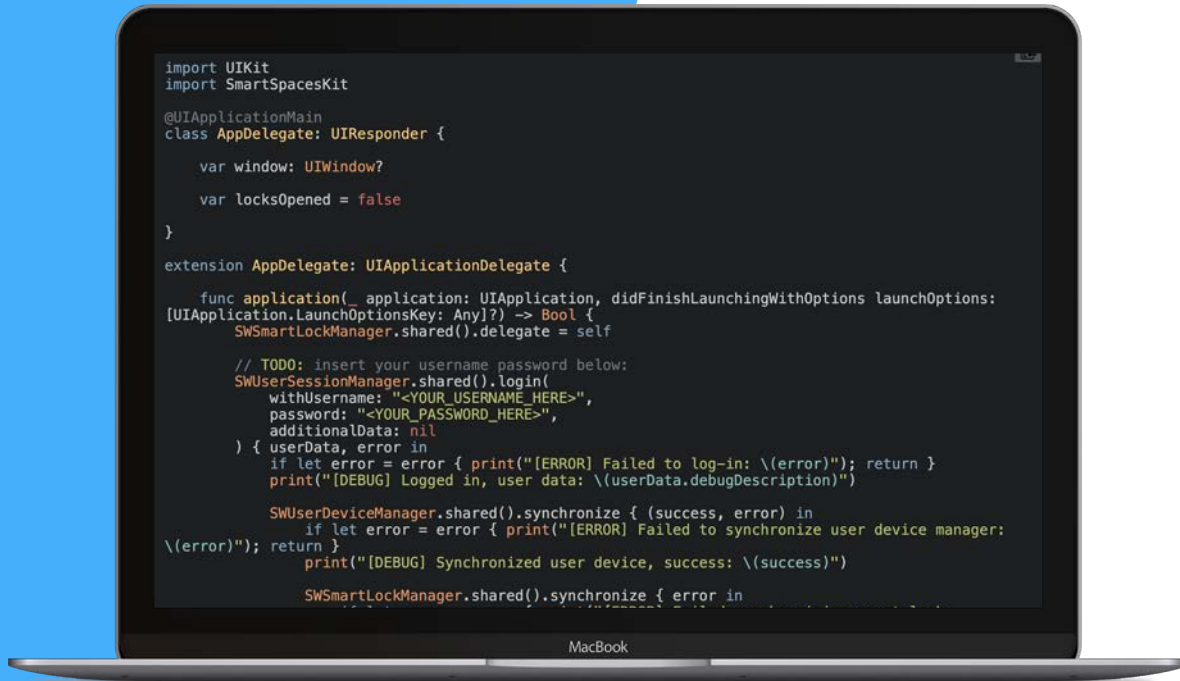
More information can be found here:
https://developer.sensorberg.com/en/smart-spaces/developers/mobile-sdk/

Sensorberg SDK in custom client App

Backup App for test

SDK

SDK

Sensorberg Smart
Spaces Plattform

APIs

E.G. google

E.G. Cobot

• • •

API

For integrations with your own platform or more complicated client development, our API provides highly-secure, fine-grained access to our functionality.

The API is built on industry-standard security standards and GraphQL, providing fast, responsive updates to change in metering, infrastructure, and access.

More information can be found here:
https://developer.sensorberg.com/en/smart-spaces/developers/api/

HARDWARE PRODUCT PORTFOLIO

Access Hub
Our flagship access control device, used for access control, management and monitoring. Provides access via Bluetooth and LAN, with modular NFC.

Access Hub Lite
A Wifi-enabled, slimmer profile Access Hub that can also be powered by either AC or DC, making its placement more flexible. Provides access via WiFi, Bluetooth, in-built NFC and touch-button.

Building Hub
Our standard device controller, the Building Hub manages our access control devices and connects them securely to our wider infrastructure.

Access Hub Protect
Our flagship access control device, used for access control, management and monitoring. It offers the best protection from vandalism, damage and extreme weather. Provides access via Bluetooth and LAN, with modular NFC.

Access Scanner
IP65-rated, this Bluetooth and NFC reader is built for placement inside door frames or wall interiors, or outside in the elements.

Smart Hub
An extendable hub built for smart homes and device control. It comes in a fuse-box fitting housing and can be extended with ZWave, Zigbee, LTE, and more.

Extension Hub
Able to control electrical locks and provide dry contacts to open locks. The Extension Hub combines with other Sensorberg product (e.g. Access Hub, Access Hub Lite). It does NOT work by itself.

Elevator Control Hub
Able to activate up to 16 specific floors in elevators in combination with a wall reader (Access Hub Protect) in the cabin.

Locker Hub
Our Locker Hub is built to power, monitor, and manage up to 32 devices. These can include digital locks, self-storage boxes, motion detectors, elevators, bike stations, and more.

3RD PARTY HARDWARE PORTFOLIO

Digital Handle

Digital Fitting

Datalogic
QR Code reader

Cards and Fobs

U&Z
Digital Cylinder

ISEO
Digital Cylinder

3RD PARTY HARDWARE PORTFOLIO

Renz
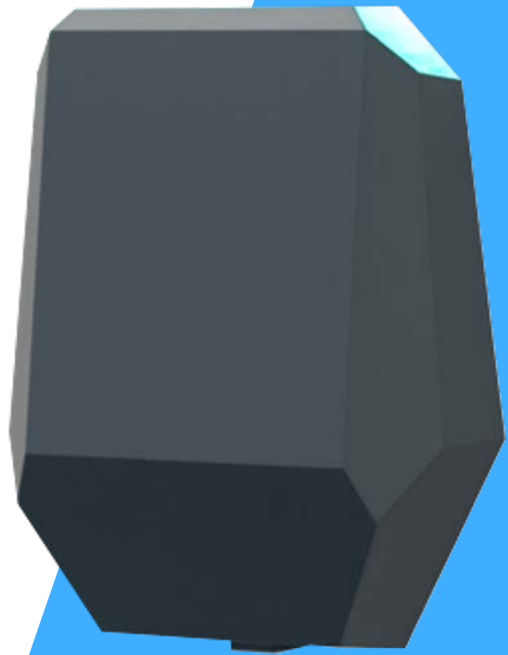Parcel and Post Boxes

Assa Abloy
Digital Lock

Southco
Digital Lock

Jäger Direkt
Wireless Technology
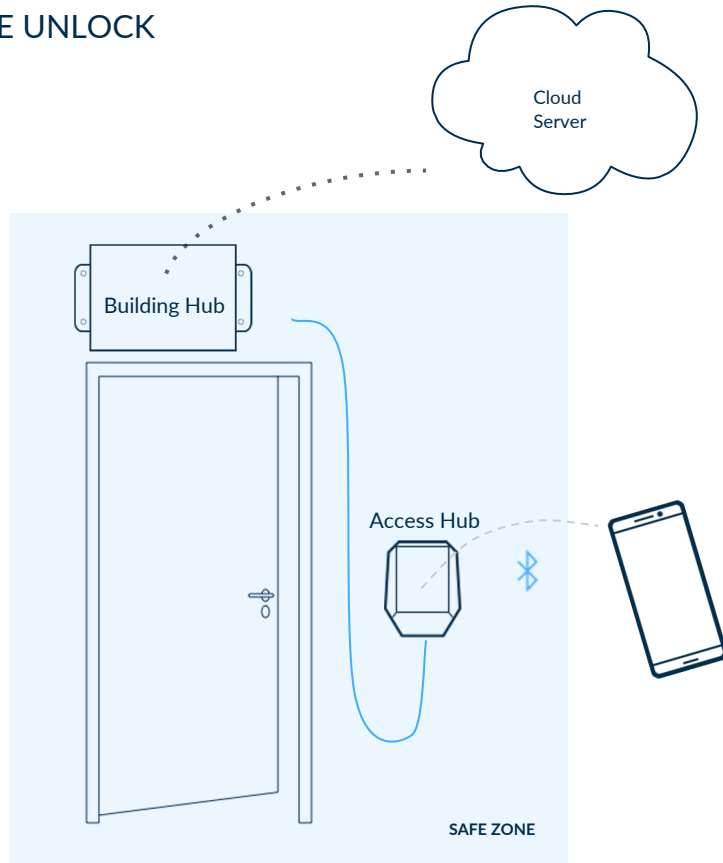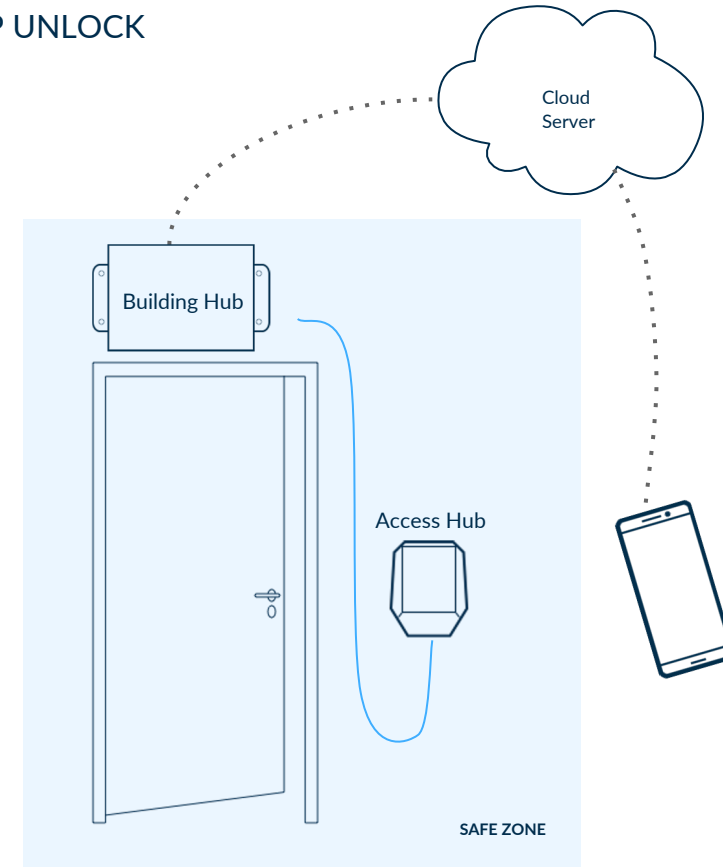
U&Z and Yale
Digital Padlock

ACCESS HUB

Our flagship access control device, used for access control, management and monitoring. Provides access via Bluetooth and LAN, with modular NFC.
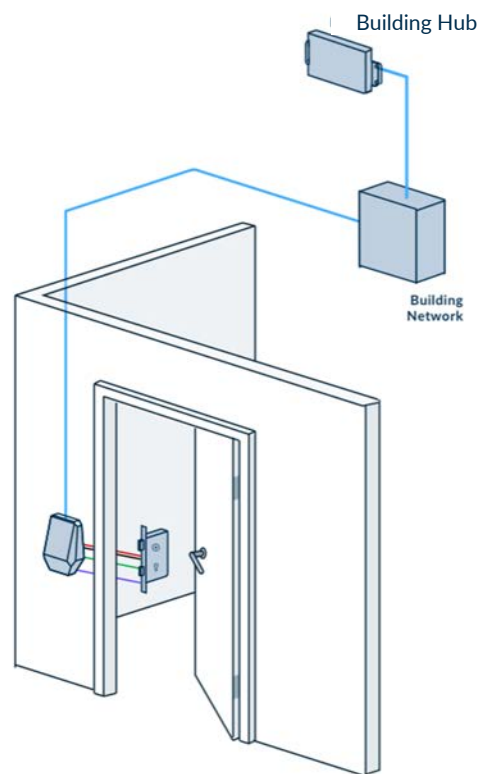
Sensorberg Hybrid Unlock

BLE UNLOCK

Cloud Server

Building Hub

Access Hub

SAFE ZONE

IP UNLOCK

Cloud Server

Building Hub

Access Hub

SAFE ZONE

Communication Technologies secured by SSH/VPN

Bluetooth (BLE)

Wireless

Cable

Access Hub Scheme

Building Hub

Building
Network

Connection cable

Unlock command
Potential free
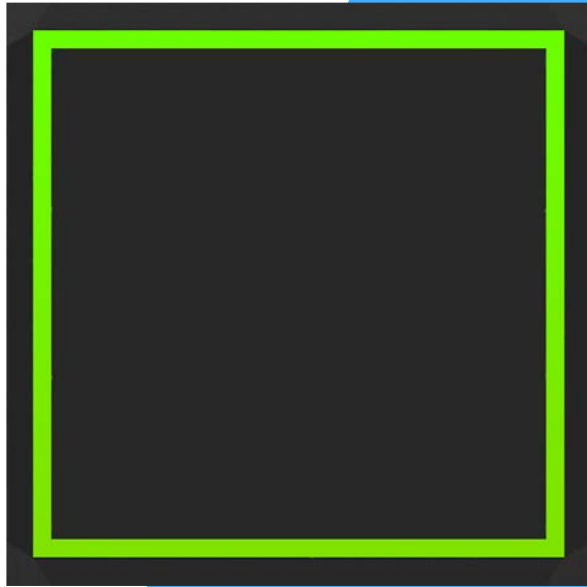12-24V opening

Power cable 2 phases

PoE

Reed contact

ACCESS HUB PROTECT

Our flagship access control device, used for access control, management and monitoring. It offers the best protection from vandalism, damage and extreme weather. Provides access via Bluetooth and LAN, with modular NFC.
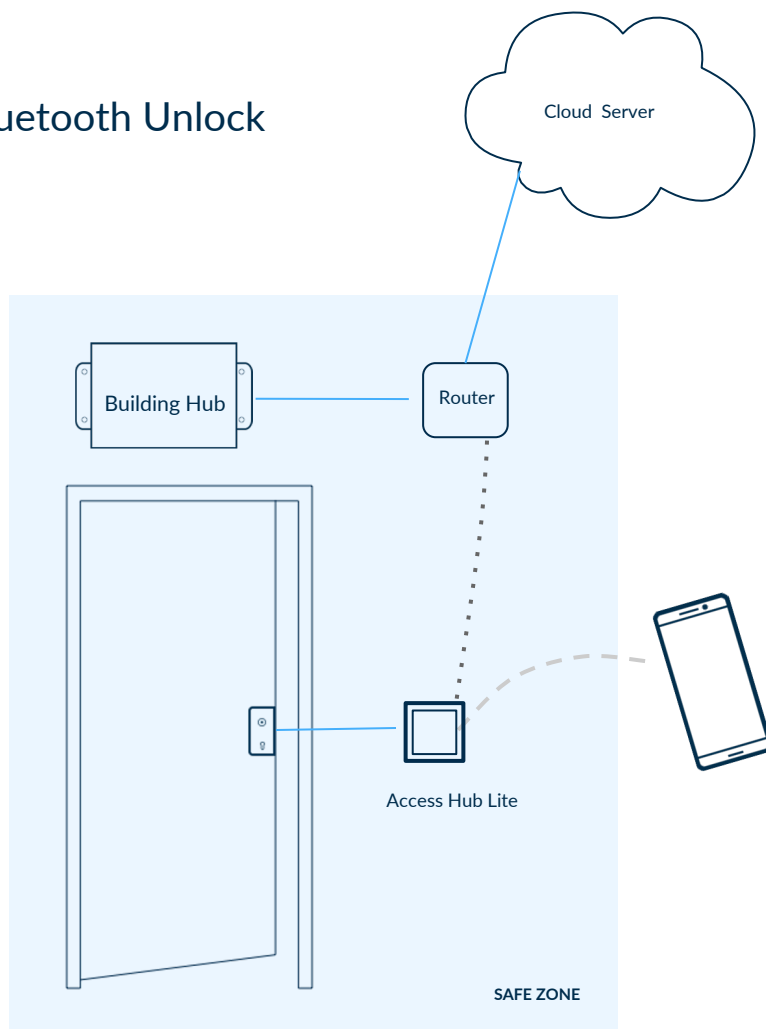
Building Hub

Inside unit

Building Network

Outside unit

Connection cable	Power cable 2 phases	Reed contact
Unlock command Potential free 12-24V opening	PoE	

ACCESS HUB LITE

A Wifi-enabled, slimmer profile Access Hub that can also be powered by either AC or DC, making its placement more flexible. Provides access via WiFi, Bluetooth, in-built NFC and touch-button.
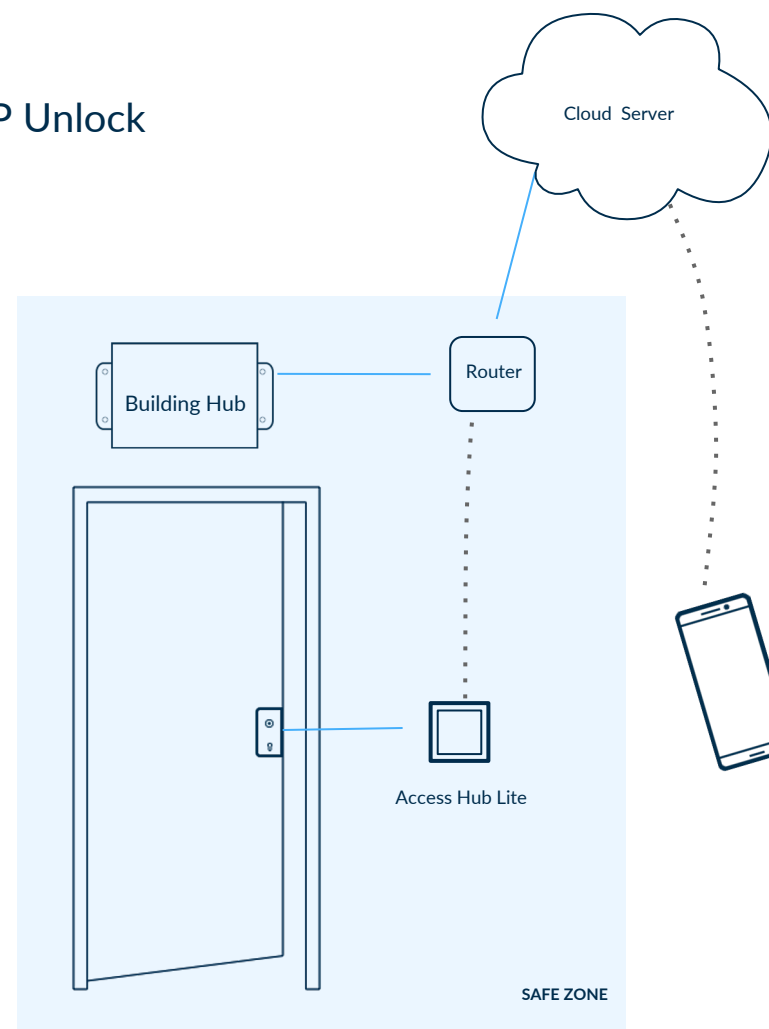
Access Hub Lite

Bluetooth Unlock

Cloud Server

Building Hub

Router

Access Hub Lite

SAFE ZONE

IP Unlock

Cloud Server

Building Hub

Router

Access Hub Lite

SAFE ZONE

Communication Technologies secured by SSH/VPN

Bluetooth (BLE)

Wireless

Cable

Access Hub Lite Scheme

Building Hub

Building Network

12V/ 230V

Transformer

— Connection cable

— Unlock command
Potential free
12-24V opening

══ Power cable 2 phases
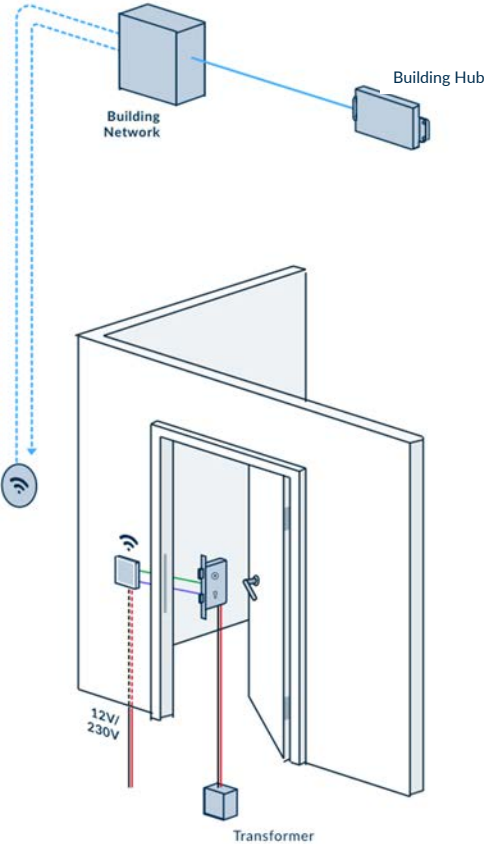
— PoE

— Reed contact

Comparison between products

Access Hub
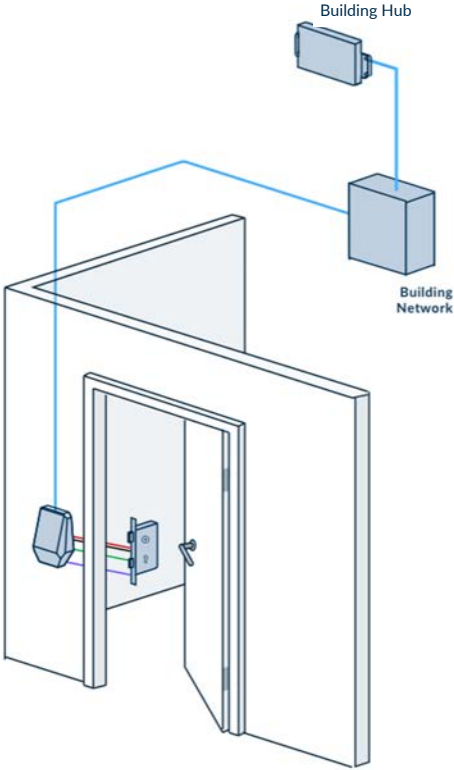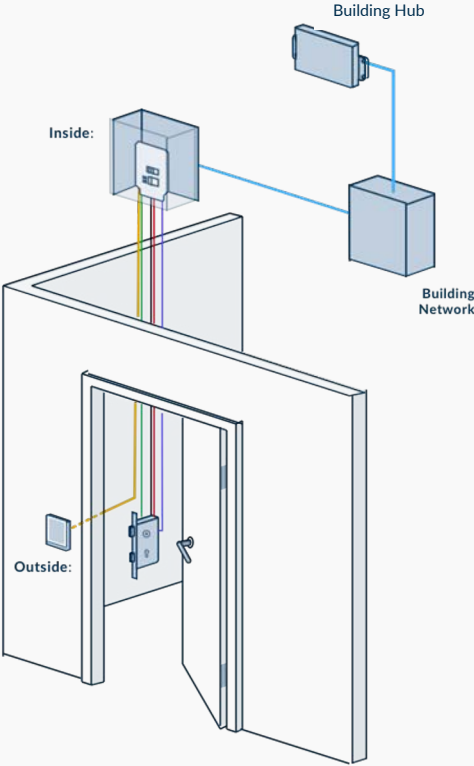
Building Hub

Building
Network

Access Hub Protect

Building Hub

Inside:

Building
Network

Outside:

Access Hub Lite

Building
Network

Building Hub
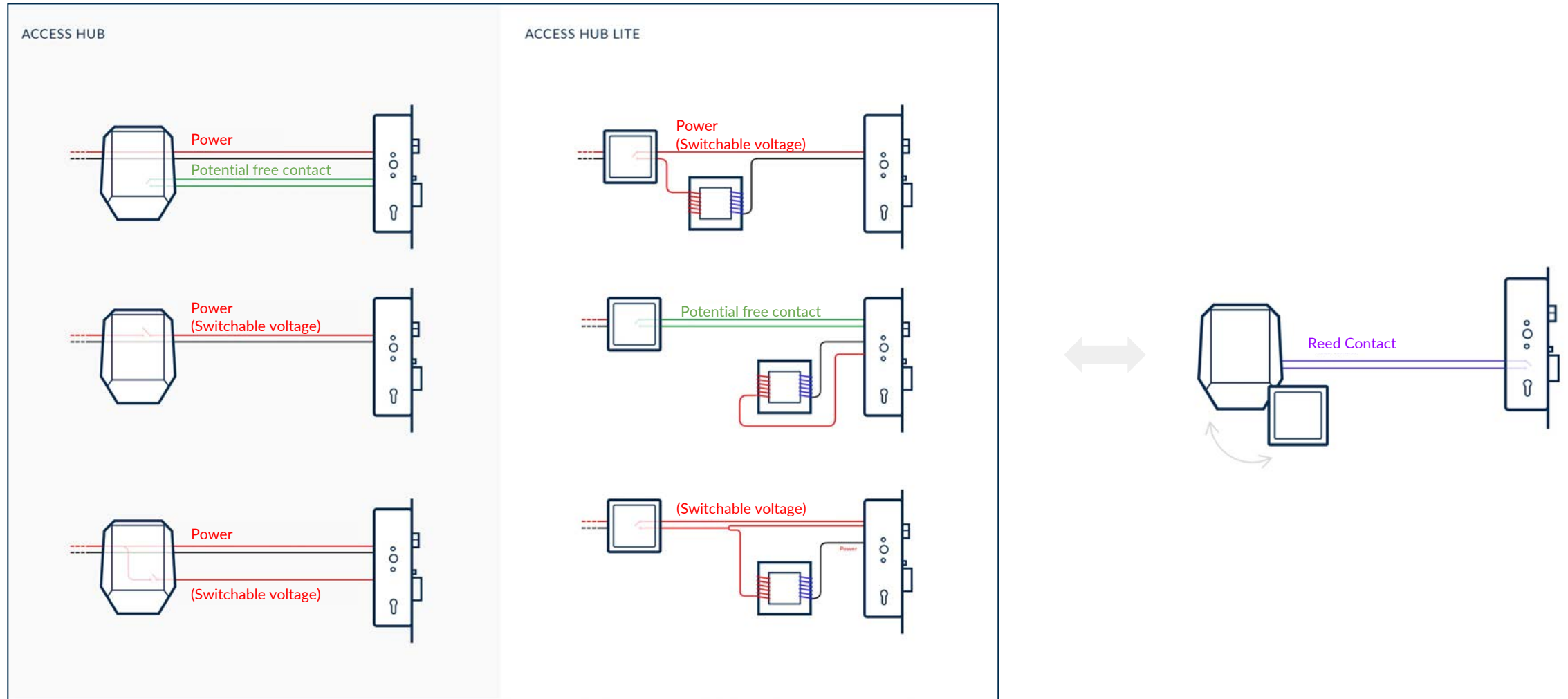
12V/
230V

Transformer

— Connection cable

— Unlock command
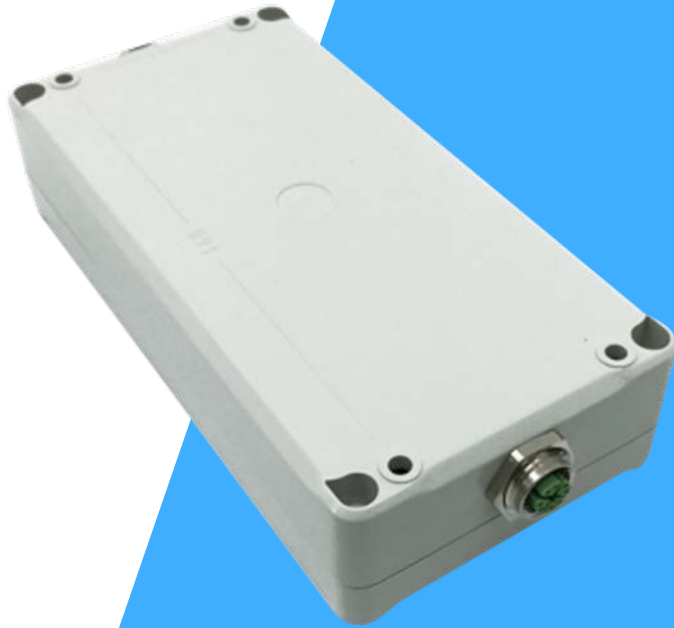Potential free
12-24V opening

= Power cable 2 phases

— PoE

— Reed contact

28

Different types of connection between the Access Hub and the Lock

The cables are related to the type of lock. Please check with our support department to see what is best for your scenario.

ACCESS SCANNER

IP65-rated, this Bluetooth and NFC reader is built for placement inside door frames or wall interiors, or outside in the elements.

BUILDING HUB

Our standard device controller, the Building Hub manages our access control devices and connects them securely to our wider infrastructure.

SMART HUB

An extendable hub built for smart homes and device control. It comes in a fuse-box fitting housing and can be extended with ZWave, EnOcean, LTE, and more.

SMART HUB

POE
Power
+Ethernet

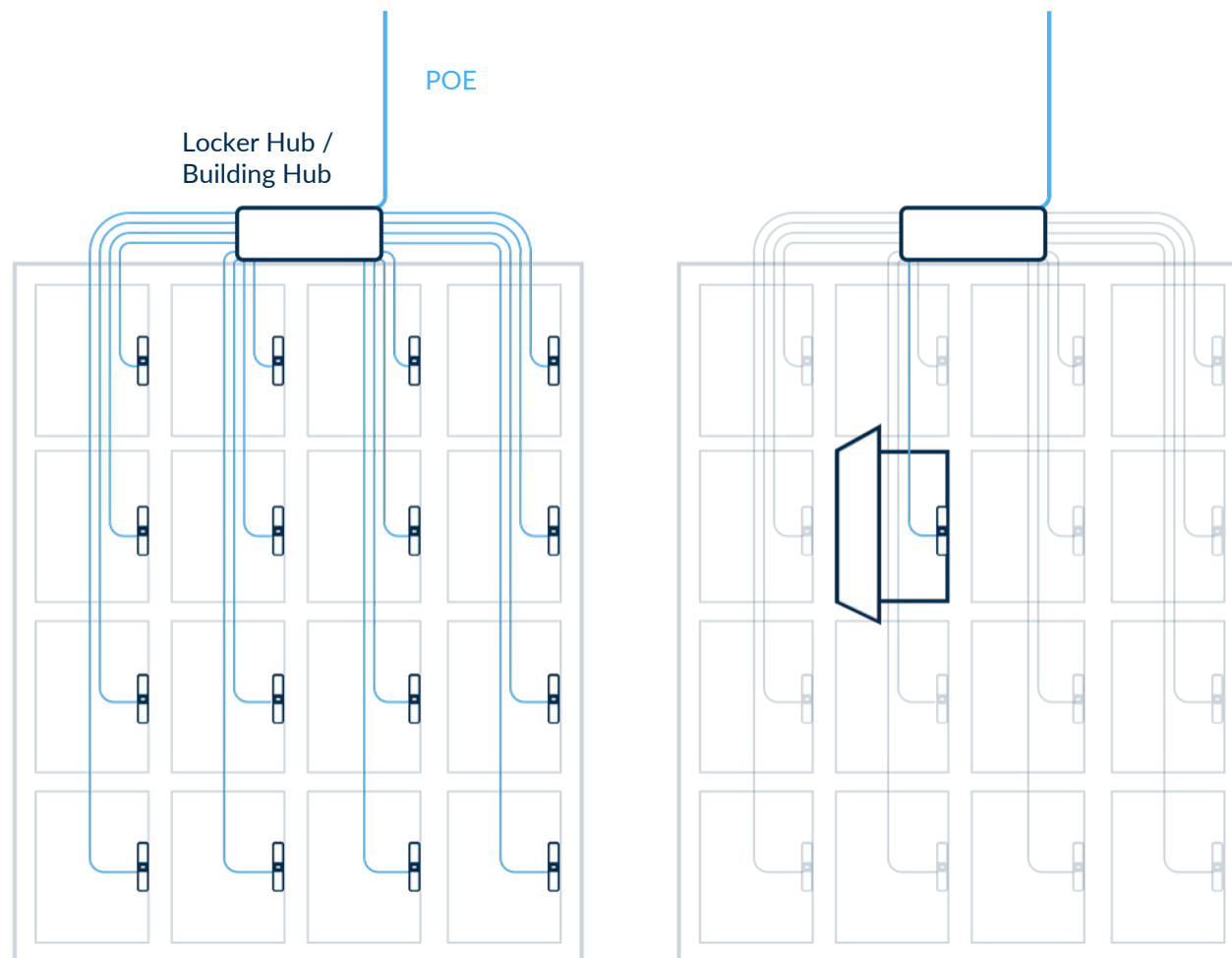WiFi

ON
OFF

Z WAVE

······· z-wave

——— cable
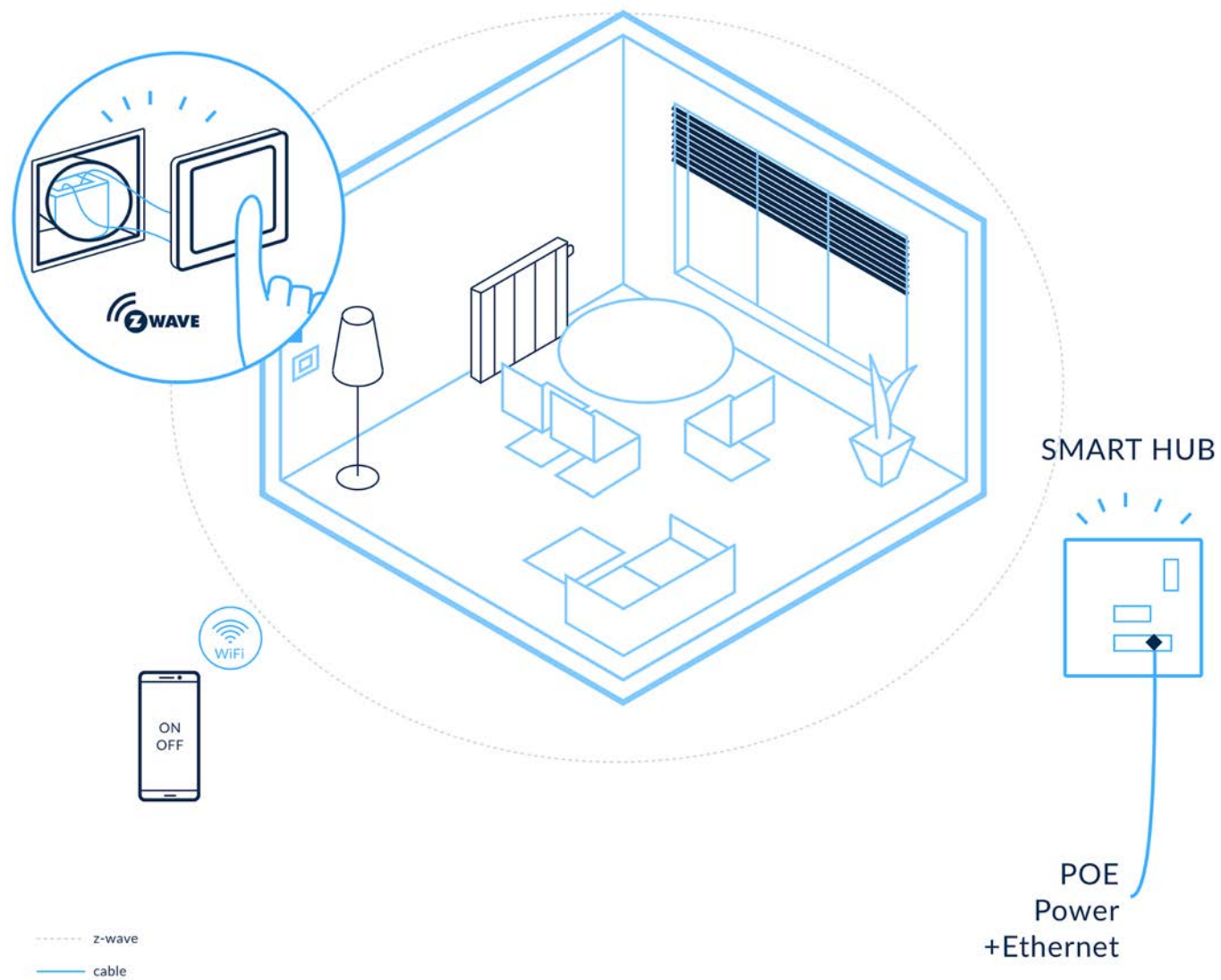
LOCKER HUB

The Locker Hub is built to power, monitor, and manage up to 32 devices. These can include digital locks, self-storage boxes, motion detectors, elevators, bike stations, and more.
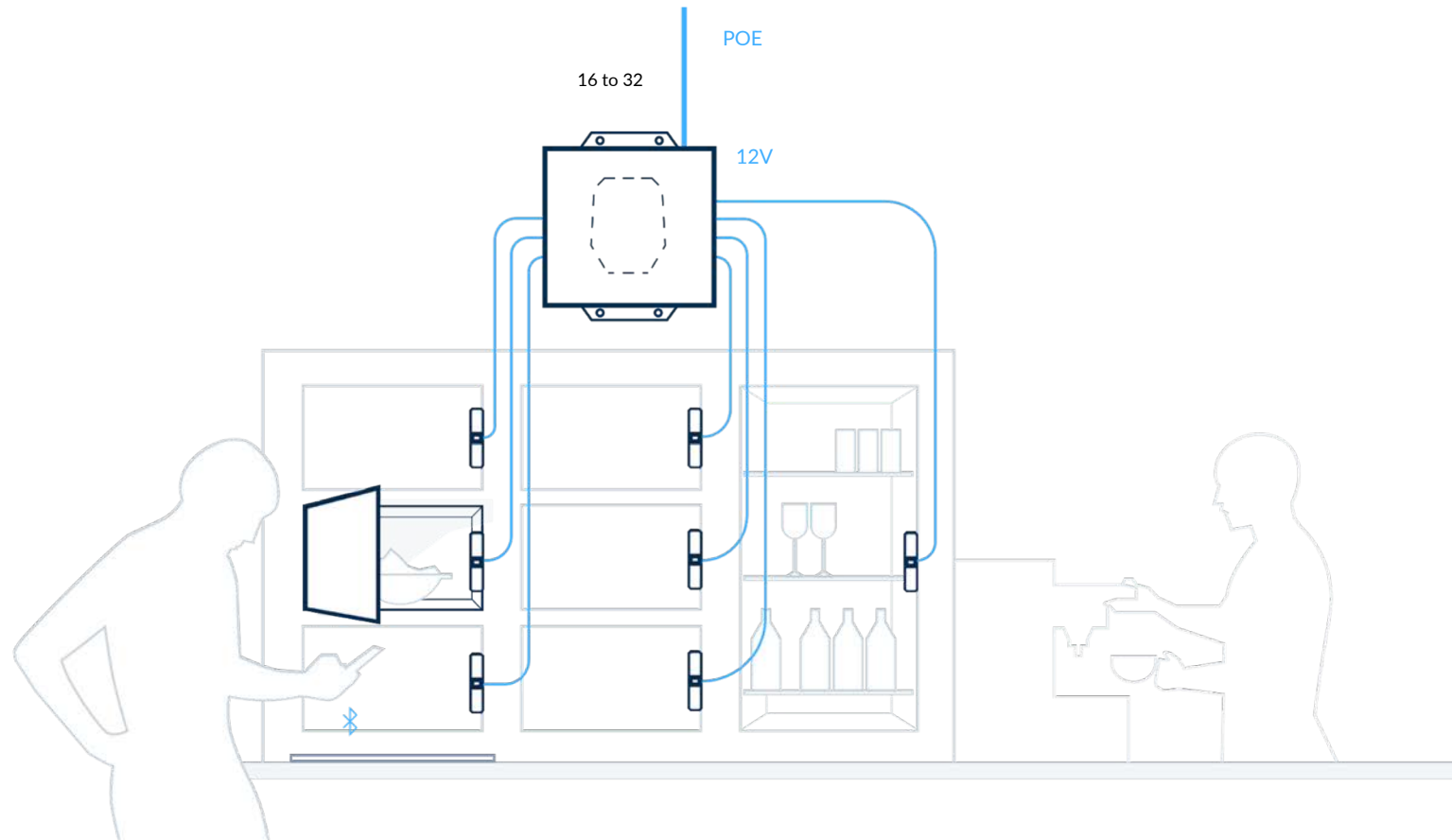
Locker

The Locker Hub can power, monitor, and manage up to 32 lockers.
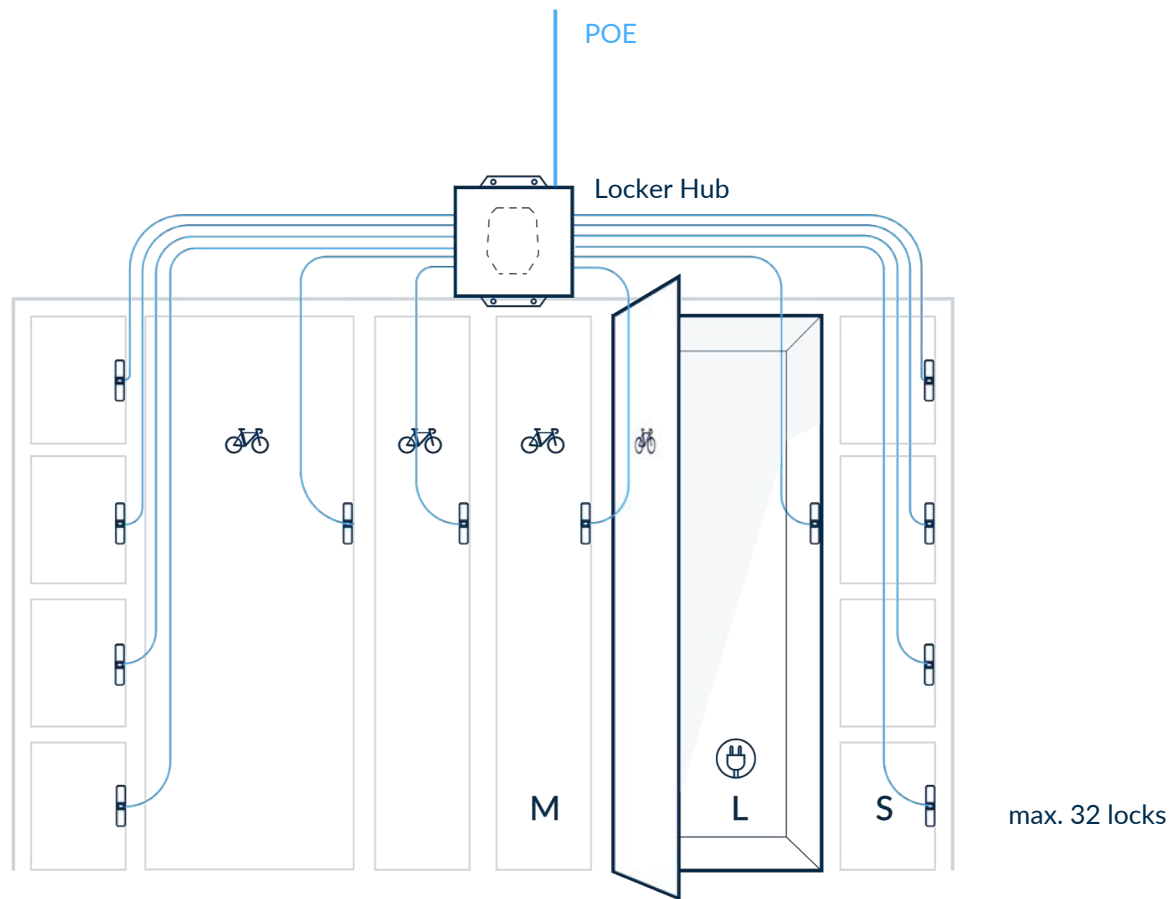
POE

Locker Hub /
Building Hub

Food Locker

The Locker Hub can power, monitor, and manage up to 32 food lockers.

Bike Locker

The Locker Hub can power, monitor, and manage up to 32 bike lockers.

POE

Locker Hub

M   L   S   max. 32 locks

EXTENSION HUB

Able to control electrical locks and provide dry contacts to open locks. The Extension Hub combines with other Sensorberg product (e.g. Access Hub, Access Hub Lite). It does NOT work by itself.

▲ Doors

The Extension Hub is able to control electrical locks and provide dry contacts to open up to 128 locks. It does not work with southCo nor Häfele locks.
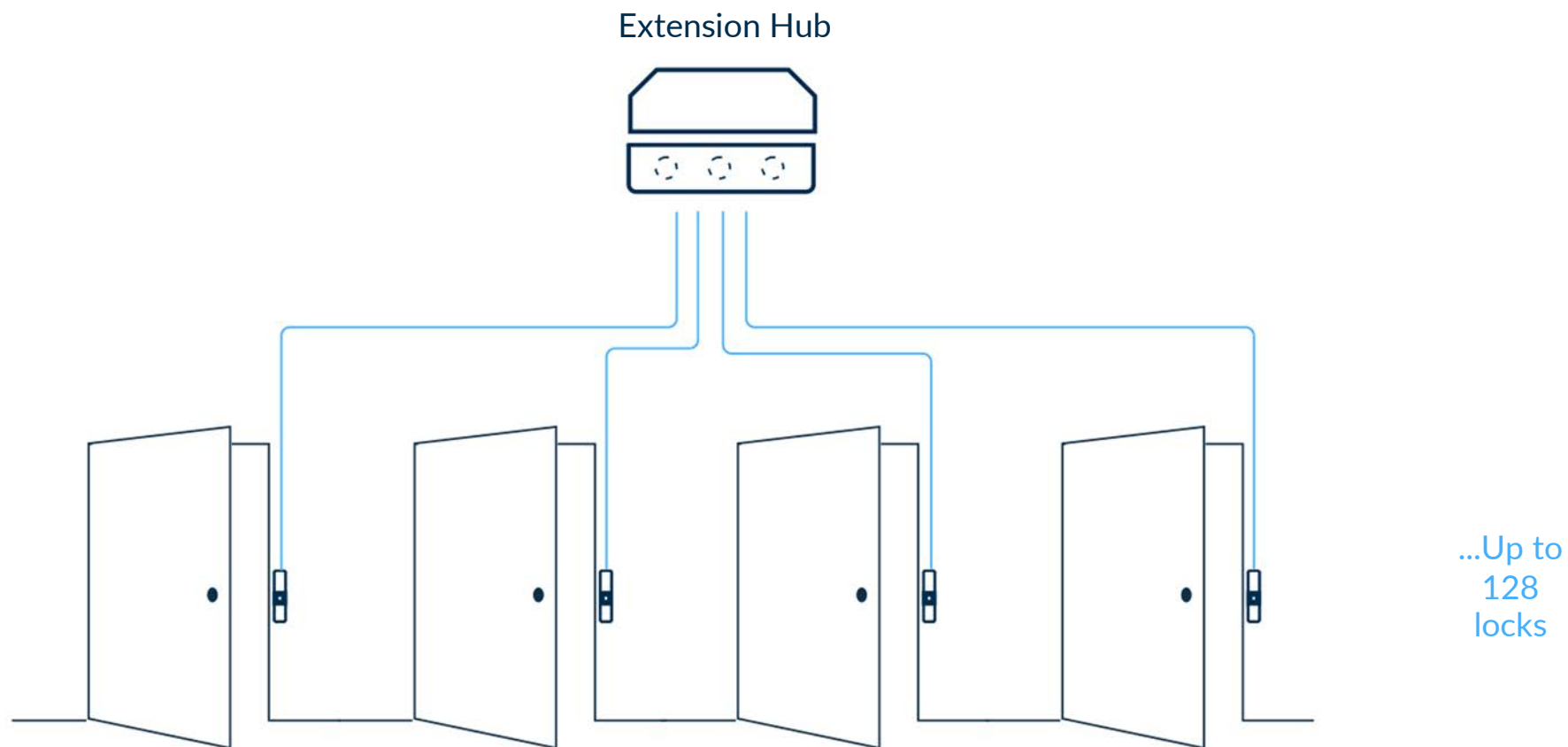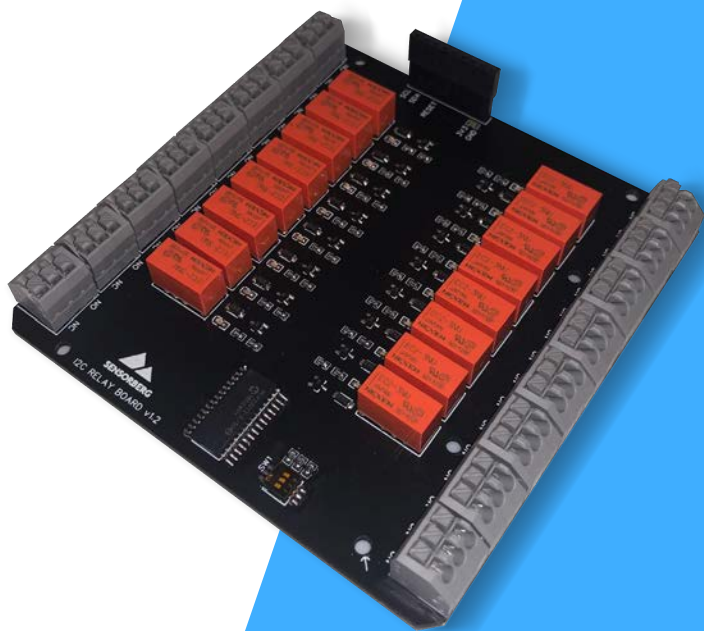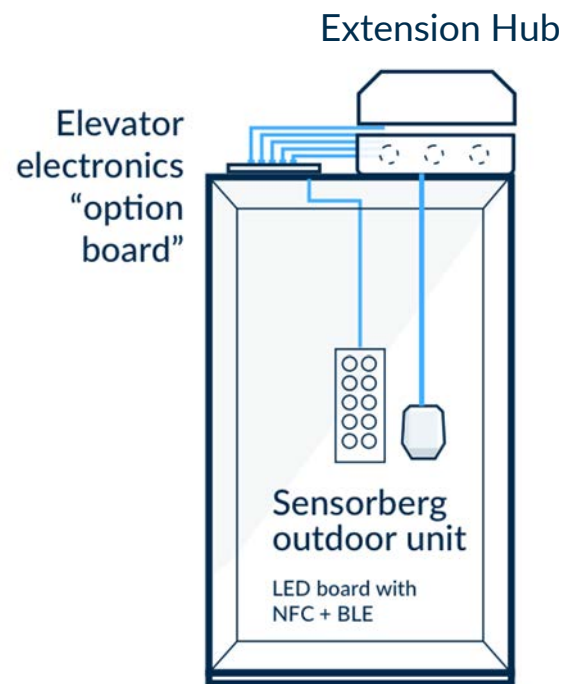
Extension Hub

...Up to
128
locks

ELEVATOR CONTROL HUB

Able to activate up to 16 specific floors in elevators in combination with a wall reader (Access Hub Protect) in the cabin.
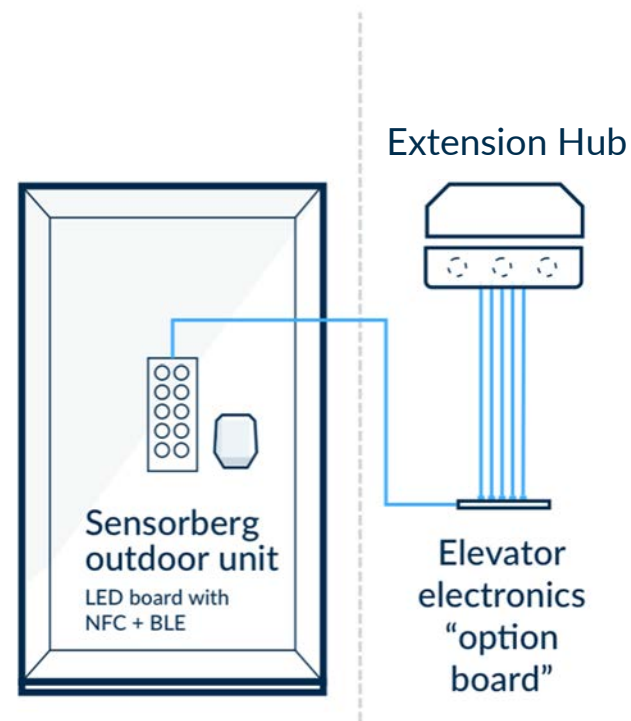
Elevator

The Control Unit is able to activate specific floors in elevators.

**Elevator and Control
Unit in the same room**

**Control Unit is placed in
the server room**

Extension Hub

Elevator
electronics
"option
board"

Sensorberg
outdoor unit

LED board with
NFC + BLE

Extension Hub

Sensorberg
outdoor unit

LED board with
NFC + BLE

Elevator
electronics
"option
board"

QR CODE READER

Our app provides a way to display a QR code that is valid for 30 seconds, before it automatically rotates to a new one. Can be used to access a rotating door, ensuring 1 person per time can access the door.

Rotating door

The QR Code reader can be used to access a rotating door, ensuring 1 person per time can access the door.