



AUGUST 2020

ABB-AccessControl

Webinar – Competence Center Europe – Smart Buildings

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Webinar “ABB-AccessControl”

Home- and Building Automation by ABB

One more product family in ABB’s Home- and Building Automation portfolio

The screenshot shows the ABB website's navigation and product offerings. At the top left is the ABB logo, followed by a breadcrumb trail: HOME → OFFERINGS → LOW VOLTAGE PRODUCTS → HOME AND BUILDING AUTOMATION. On the top right is a 'GLOBAL SITE' dropdown menu. A left sidebar contains a menu icon, a search icon, and a lock icon. The main content area is titled 'Our offering' and displays a grid of eight product categories, each with a representative image and a caption. The 'Access Control' category is highlighted with a red border.

Product Category	Image Description
ABB i-bus® KNX	People in a meeting room looking at a whiteboard.
ABB-free@home®	A person performing a yoga or fitness routine in a living room.
Door entry systems	A smiling man in a white shirt looking towards the camera.
Access Control	A man in a suit using a handheld device to interact with a door labeled 'a.206'.
Video Surveillance	Two women in business attire, one holding a smartphone.
Intrusion Alarm Systems	A woman in a white dress moving a large cushion in a living room.
Lighting & emergency lighting	People working at a table in a modern office or cafe setting.
ABB Cylon solutions	A close-up of a modern building's glass facade reflecting the sky.

Agenda

ABB-AccessControl

Introduction

Portfolio

System architecture

Commissioning



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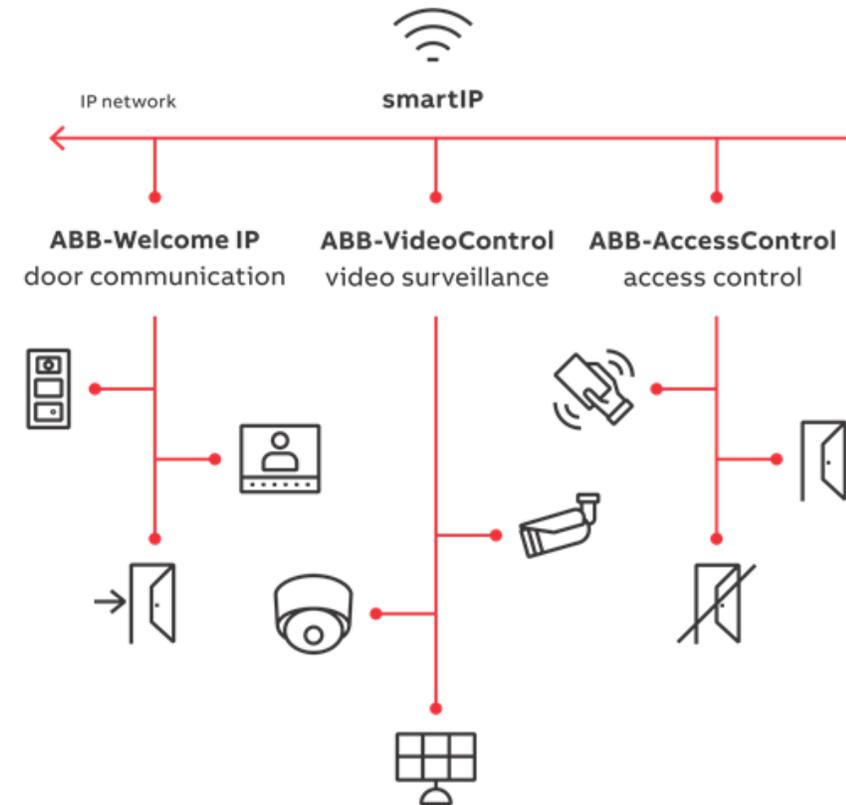
Introduction and general product information

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Introduction and general product information

smart IP

- IP connectivity for a holistic building automation solution
- Three independent systems can be operated together
 - Door Entry System
 - Video Control
 - Access Control
- Connection to building automation (free@home / KNX)



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Introduction and general product information

Global access control solution for a smarter door

Why?

You as resident or home owner,

- can unlock the door and get in even if you forget your keys.
- can unlock the door remotely so a friend can come into your house to take care of your pets or plants, or for whatever reason, while you're away.
- can let the artisan or the house keeper into your home remotely when he arrives. With an electronic keyless key, you don't have to take your time off and wait for someone to show up.

You as company owner,

- can let your employee, artisan, the cleaner worker open the door, knowing where, when, who has unlocked the doors.
- can manage all permissions, digital keys, doors locally or remotely.

For whom?

Company owner, Public institutions

**Housing companies
(Multi-Apartments)**

Home owner

How?

Digital cylinder: Locks in retrofit design with EU, Swiss, Scandinavian and ANSI profile support

Smart Access Point: Standalone management device to support up to 600 devices and 2000 Users

RF Repeater: Increases the wireless signal distance to Smart Access Point Pro

RF/IP Gateway: Increases the number of supported doors and increase the distance to Smart Access Point Pro/Lite.

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Introduction and general product information

Main doors



Side doors



Interior doors



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Introduction and general product information

USPs (Unique Selling Points)

- Secure keyless access
 - Fitting for plug-in locks according to EU, US and Swiss standards
 - Battery operation
 - Can be unlocked in case of an emergency
 - Firmware update online possible
 - Protection class IP66
- Many fields of application
 - Single-family and high-rise buildings
 - Office buildings
 - Industrial buildings and facilities
 - Hotels
 - Hospitals and retirement homes



Age of the property

- New building
- Renovation



Building type

- Apartment
- House
- Commercial buildings



Functions

- Secure keyless entry
- Individual access control

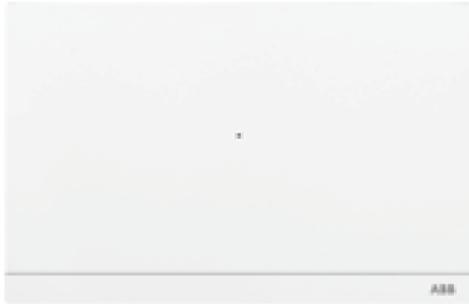
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Portfolio

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Portfolio

Smart Access Point Pro



RF/IP Gateway + RF Repeater



Cylinders



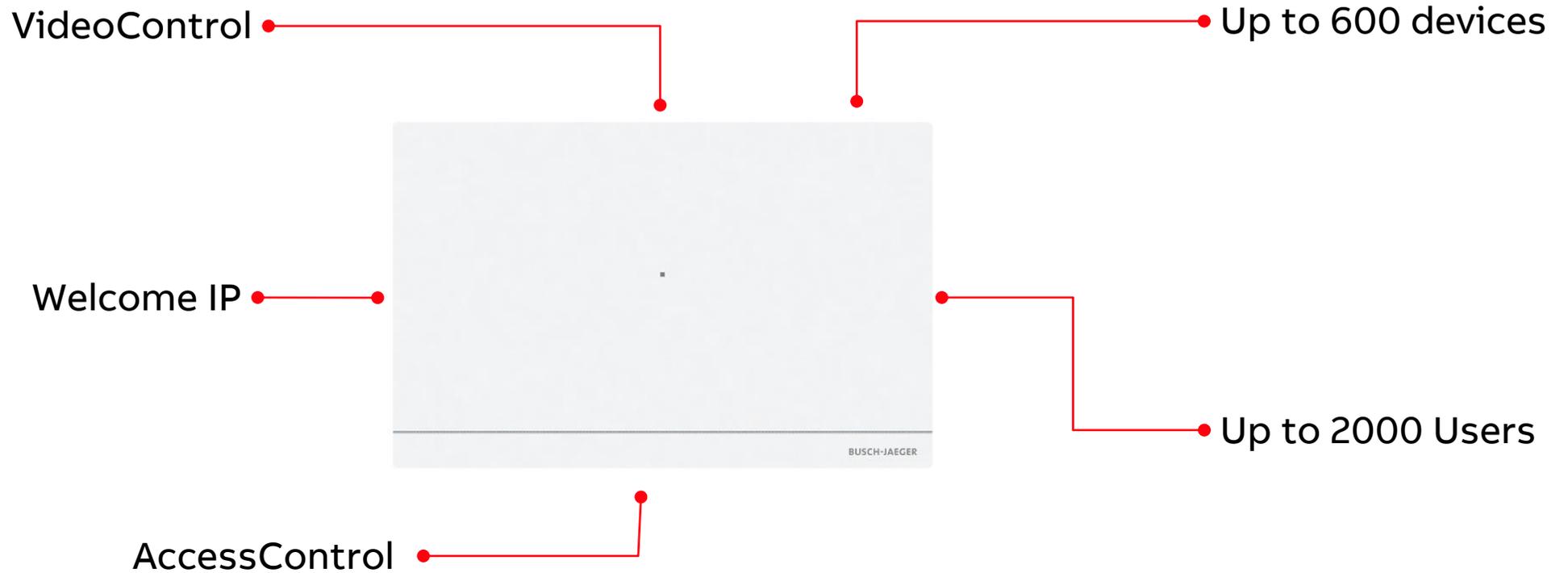
Accessories



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Portfolio

Smart Access Point Pro



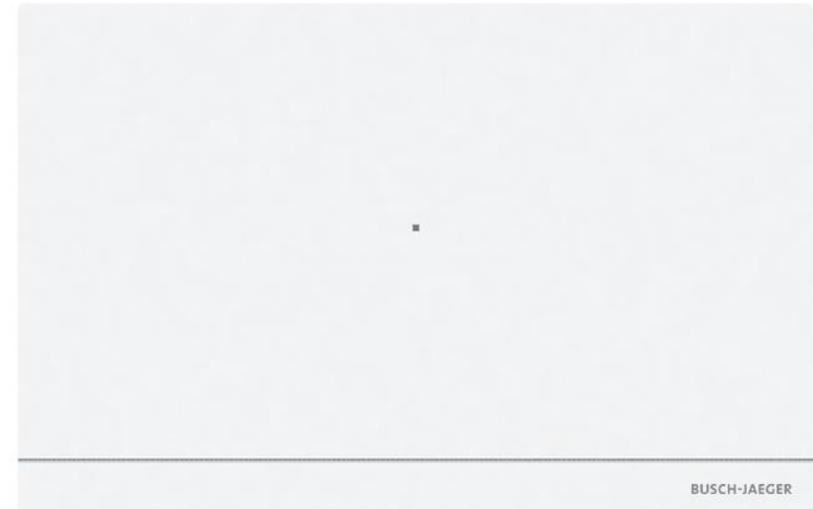
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Portfolio

Smart Access Point Pro

- Management software for commissioning and operation
- Browser client
- 16 cylinders can be connected directly
- Up to 600 cylinders can be controlled with one Smart Access Point
- Powered by PoE or external power supply
- **Important:** the old Smart Access Point **Lite** (D04012-03) does not support AccessControl. The new version D04013-03 can be combined with the RF/IP Gateway to integrate AccessControl devices

Smart Access Point Lite	D04012-03	D04013-03
Smart Access Point Pro	D04011-03	



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Portfolio

Cylinders – Main features

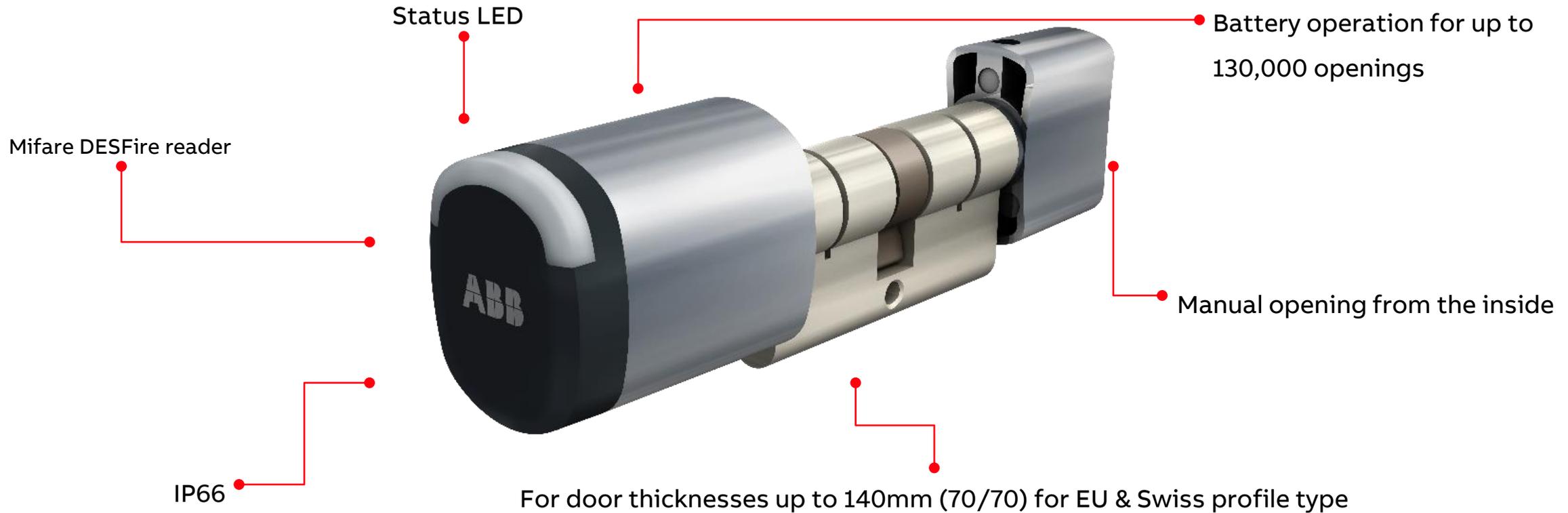
- Every door becomes smart
- Define who is allowed in, when and where
- Your smartphone becomes the key
- Control and open the door from anywhere
- See who opened the door
- Up to 600 doors can be managed centrally
- More than 2000 Users and 64 User groups
- Only ABB Tags (D081WH-0x, D081BK-0x, D081GY-0x) can be used in an AccessControl System



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Portfolio

Technical details



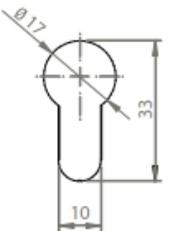
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Portfolio

European profile half cylinder



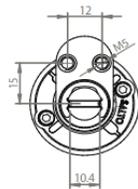
European cylinder with thumb turn



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Portfolio

Scandinavian profile cylinder



Swiss round profile half cylinders



Swiss round profile with thumb turn



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Portfolio

ANSI RIM profile cylinders



ANSI mortise profile cylinders



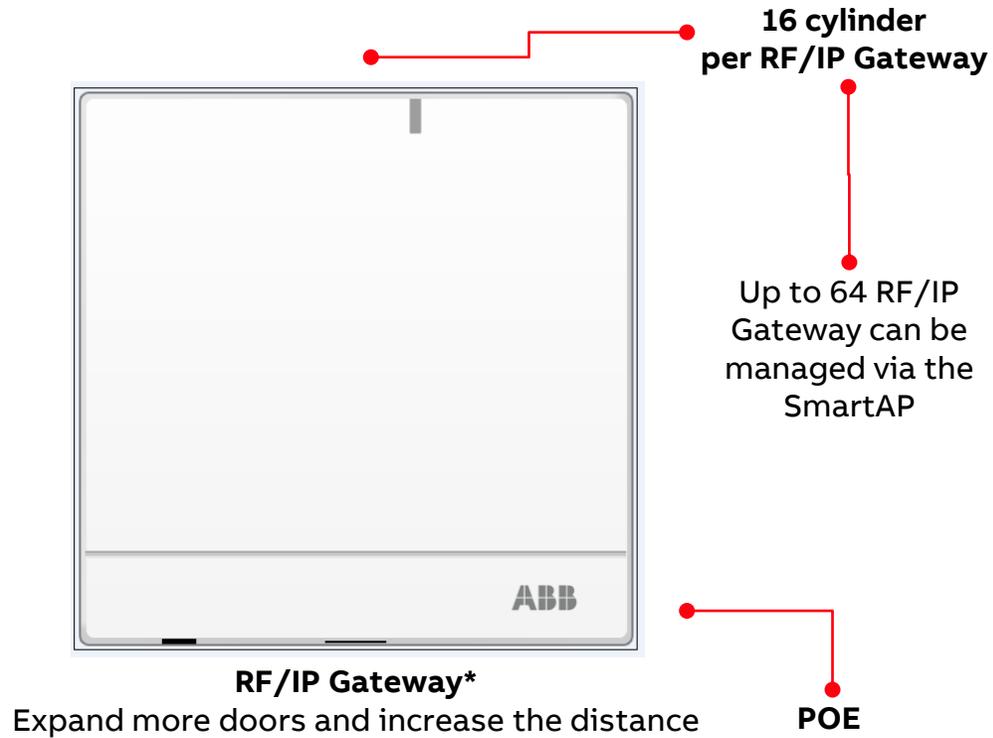
ANSI deadbolt profile cylinders



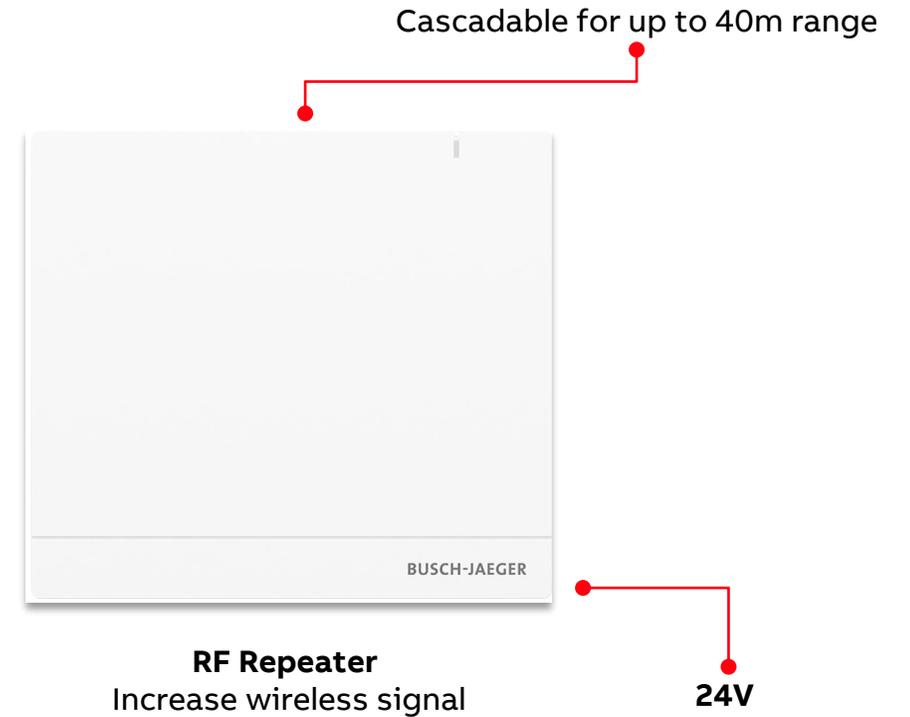
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Portfolio

RF/IP Gateway



RF Repeater

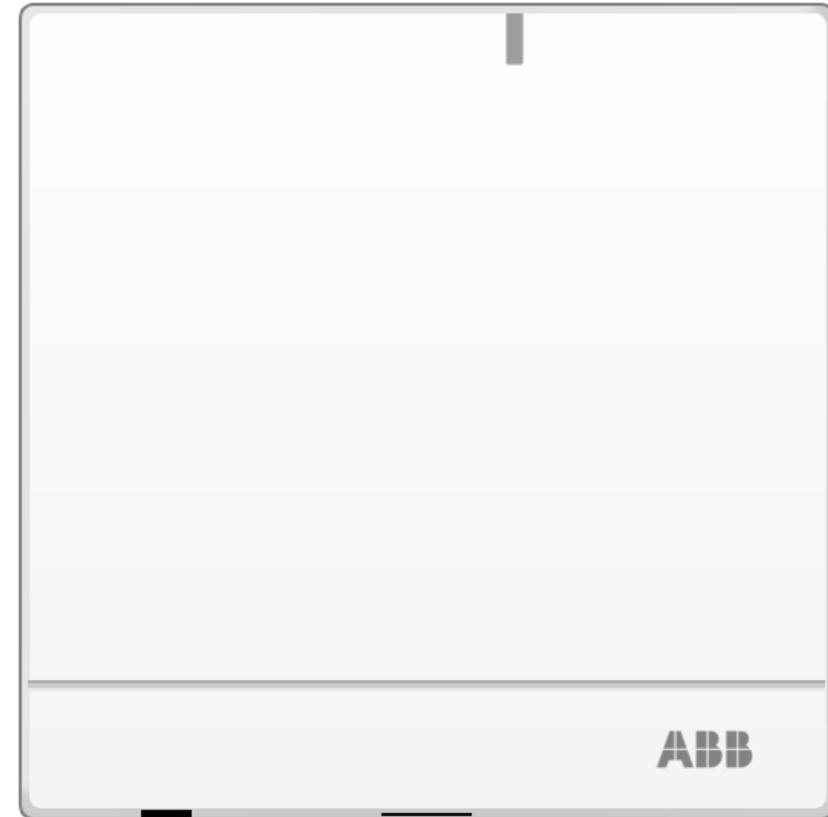


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Portfolio

RF/IP Gateway (D04031 – 2TMA400260W0013)

- Scale up wireless access control system topology easily
 - One RF/IP gateway can support another 16 cylinder
 - Maximum 64 gateways can be connected
- Dimension: 107 x 109 x 30
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply: 24 V DC
- Environment:
 - Temperature: -10°C to +45°C
 - Protection type: IP30
 - Vandal proof: IK07
 - Humidity: 0 to 95%, non-condensing

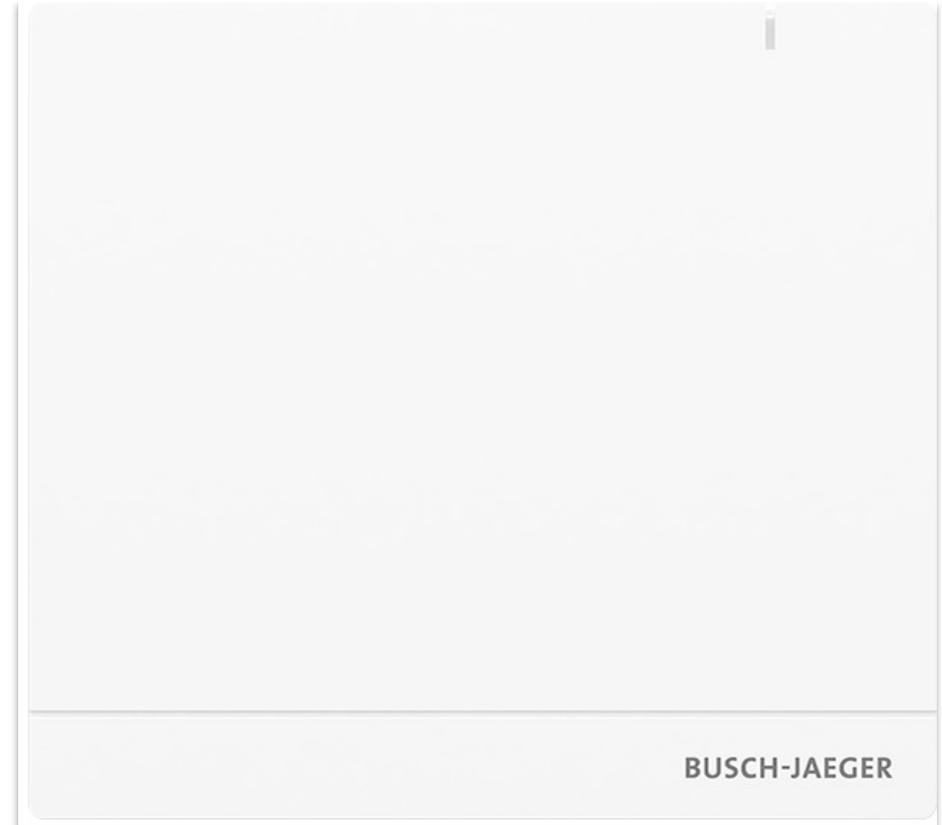


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Portfolio

RF Repeater (D04021 – 2TMA400260W0003)

- Scale up system topology easily
- Easy and fast configuration
- Different power solution to meet different requests
- Firmware update remotely
- Dimension: 90 x 90 x 28 mm
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply: 24 V DC, together with ABB power adaptor
- Environment:
 - Temperature: -10°C to +45°C
 - Protection type: IP30
 - Vandal proof: IK07
 - Humidity: 0 to 95%, non-condensing



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Portfolio

Accessories

- Tag
 - The tag is based on RFID chip technology
 - Dual tag for AccessControl and Welcome IP
 - Available in electronic cylinders and ABB outdoor readers
 - With a special encryption to ensure secure controlled access
- Maintenance tool
 - A professional tool to dismantle / fasten the knob, to install in new door, or replace battery
- Maintenance Card → for teaching in new cylinders
- Construction Card → for opening not integrated cylinders in factory mode



*Maintenance/Construction card will be also available in ABB design

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System architecture

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System architecture

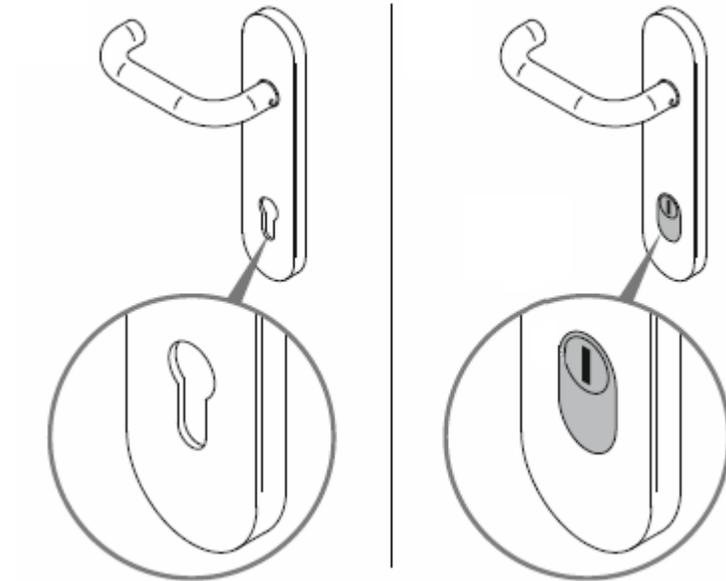
Prerequisite

Standard door fitting:

Assembly of the "electronic locking cylinder" possible

Door security fitting with core pulling protection / cylinder protection:

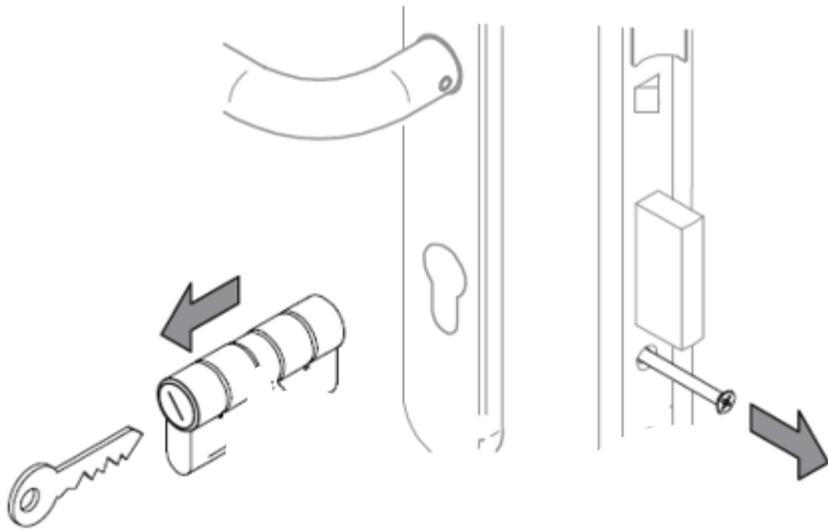
Assembly of the "electronic locking cylinder" **not possible**



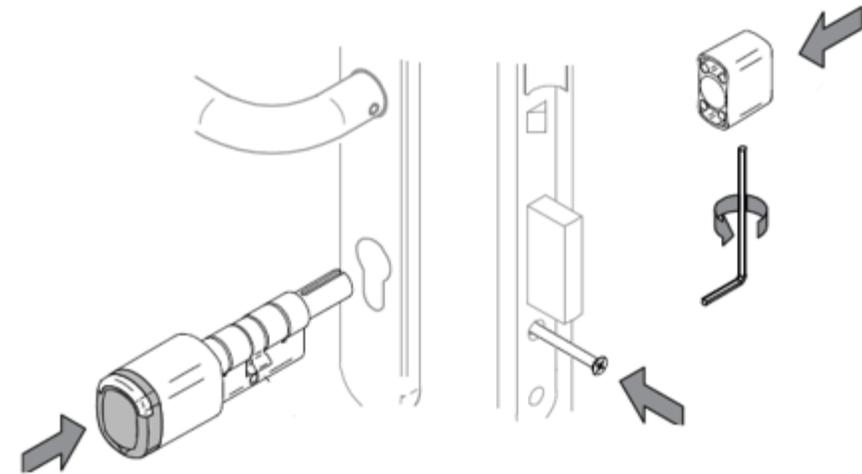
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System architecture – Installation

Loosen the screw & remove old cylinder



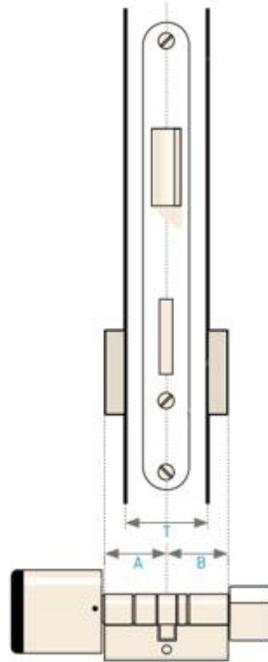
Insert electrical cylinder and fix the thumbturn



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System architecture – Installation

Simply measure and choose the right cylinder size



A (mm)

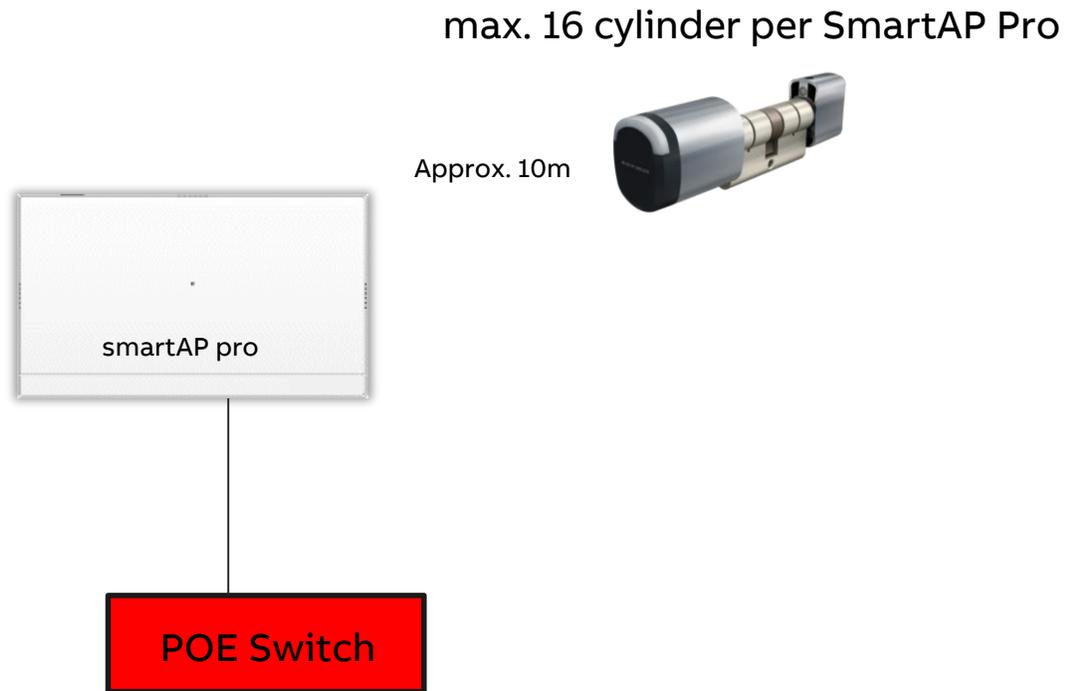
	30	35	40	45	50	55	60	65	70
30	x*	x	x	x	x	x	x	x	x
35	x*	X	x	x	x	x	x	x	x
40	x	x*	x	x	x	x	x	x	x
45	x	X	x*	x	x	x	x	x	x
50	x	X	x*	x	x	x	x	x	x
55	x	X	x	x	x	x	x	x	x
60	x	x	x	x	X	x	x	x	x
65	x	x	x	x	X	x	x	x	x
70	x	x	x	x	x	x	x	x	x

B (mm)

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System architecture

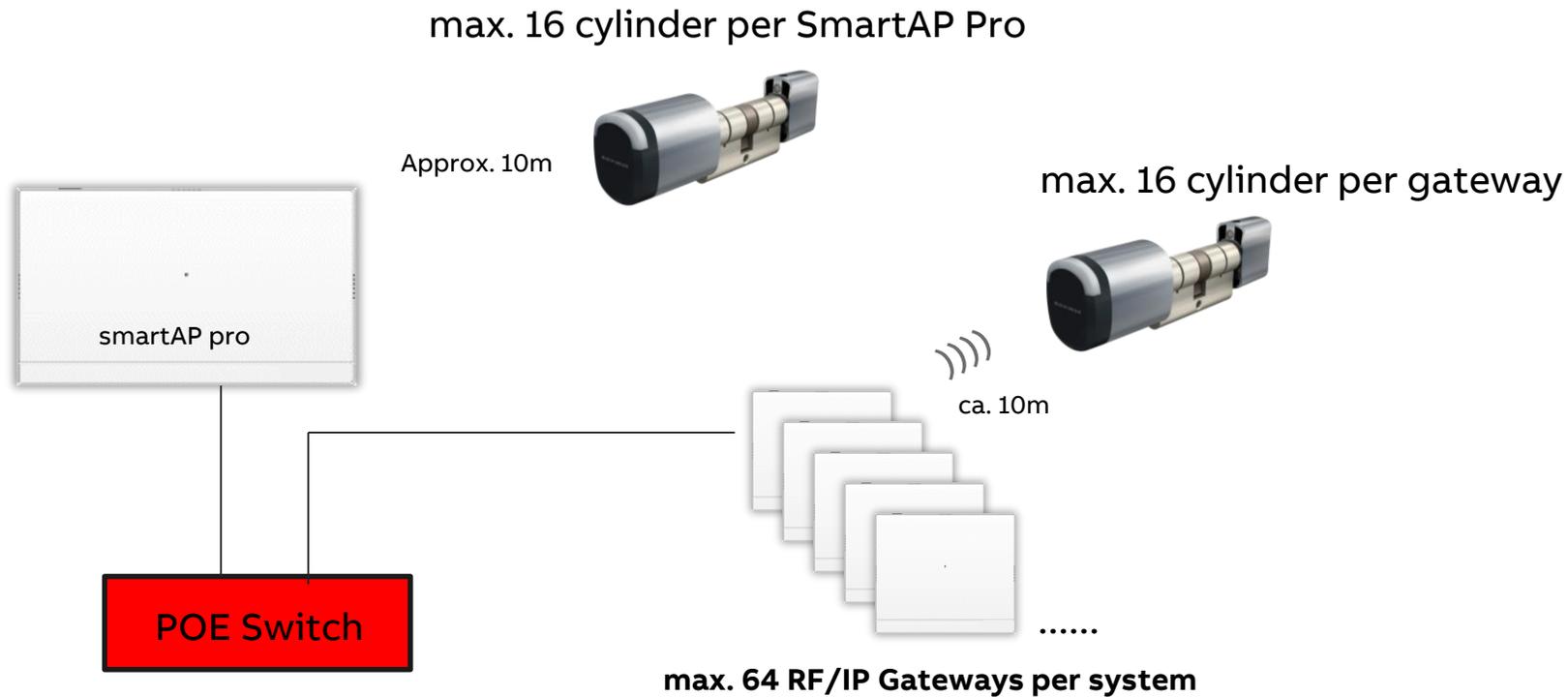
Topology



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System architecture

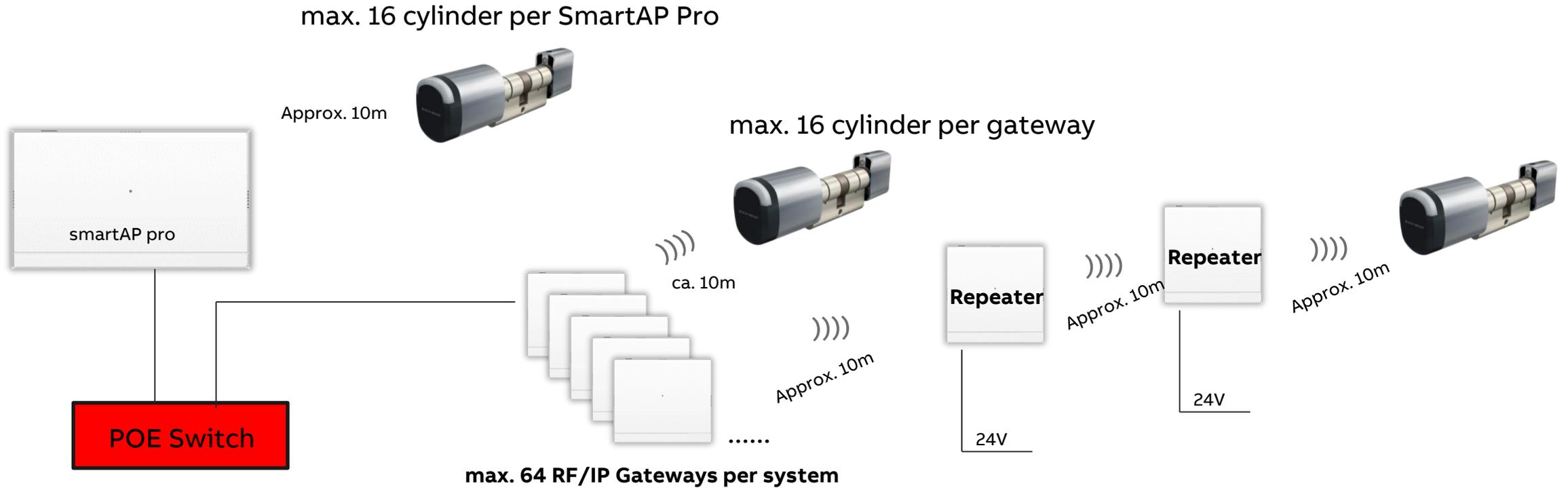
Topology



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System architecture

Topology



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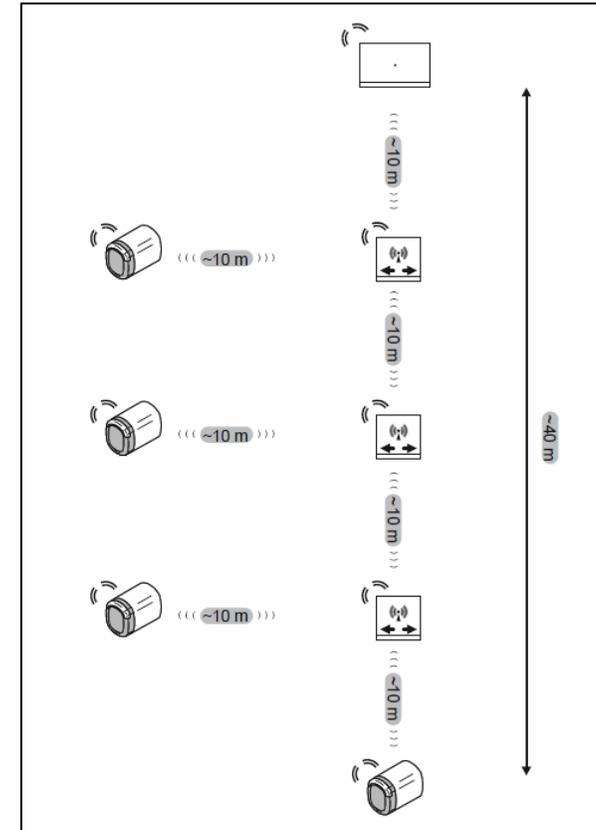
Planning and Installation

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Planning and Installation

Capacity and Range

- System capacity: 600 devices in the commissioning software of the Smart AP
- Per Smart Access Point Pro:
 - 16 cylinder
 - 3 RF repeater
 - 64 RF/IP gateway
- Per RF repeater up to 16 cylinder in one line
- Per RF/IP gateway
 - 16 cylinder
 - 3 RF repeater
- Range:
 - Between 2 devices: 10 meter
 - In one RF line: 40 meter

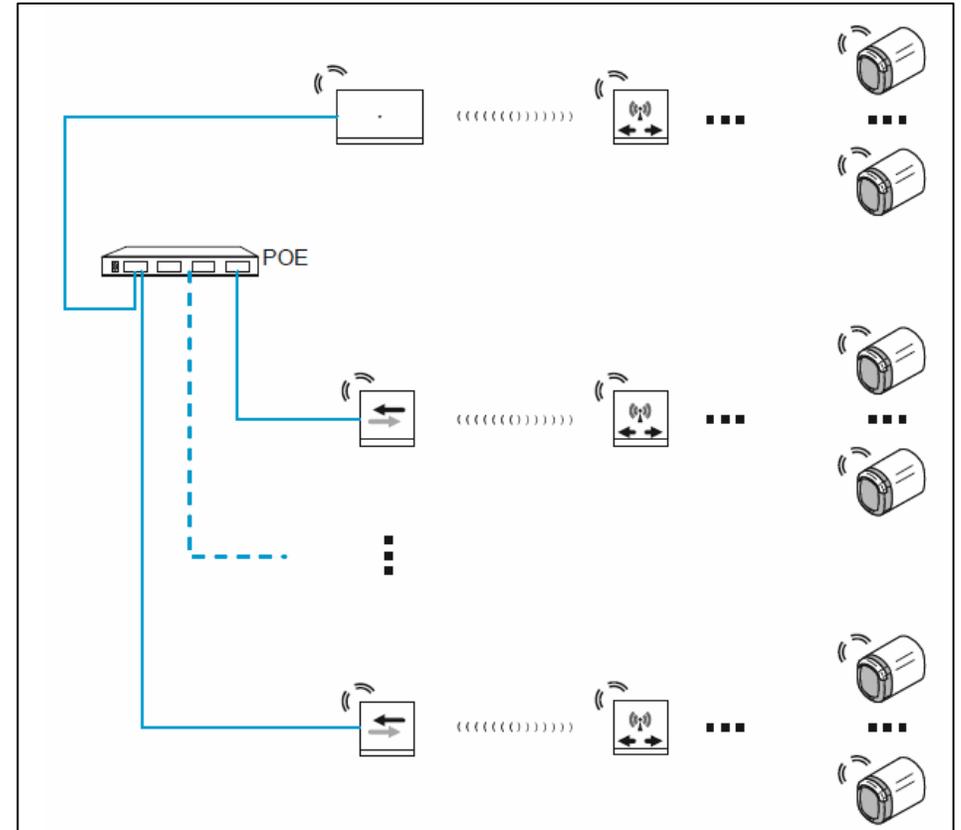


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Planning and Installation

Maximum setup

- From technical point of view 64 RF/IP Gateways * 16 cylinder = 1024 devices can be connected
- The Smart Access Point can only handle up to 600 devices
- The maximum range of 10 meters or 40 meters will be reduced, if walls or other interferences are between the devices
- The use of RF/IP gateways is highly recommended, if possible interferences are in the installation area

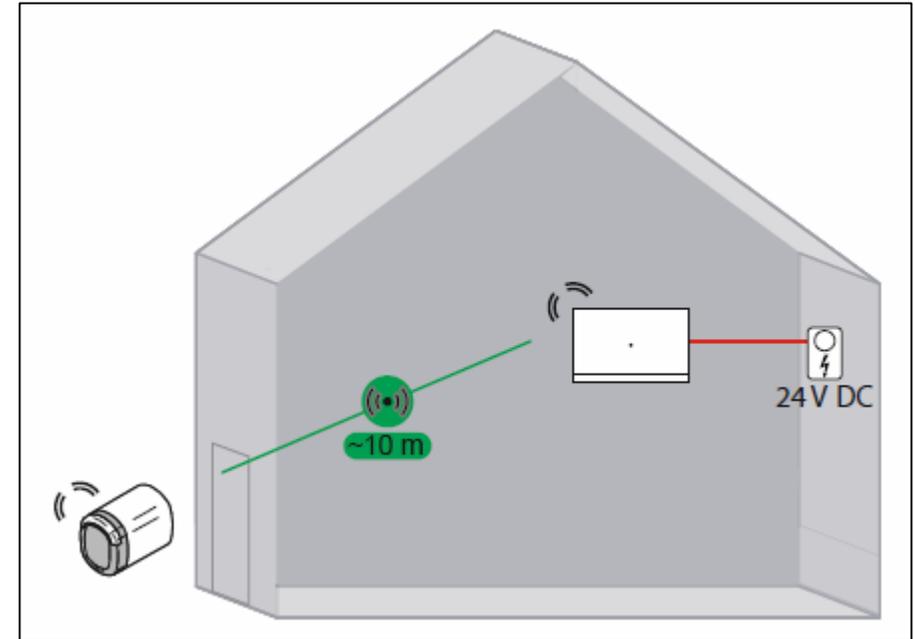


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Planning and Installation

Practical example – Single family house

- If no further system components (like Welcome IP) are used, a 24 V DC power supply for the Smart Access Point should be used
- The Smart AP Pro should be placed at a central place to cover all installed cylinder

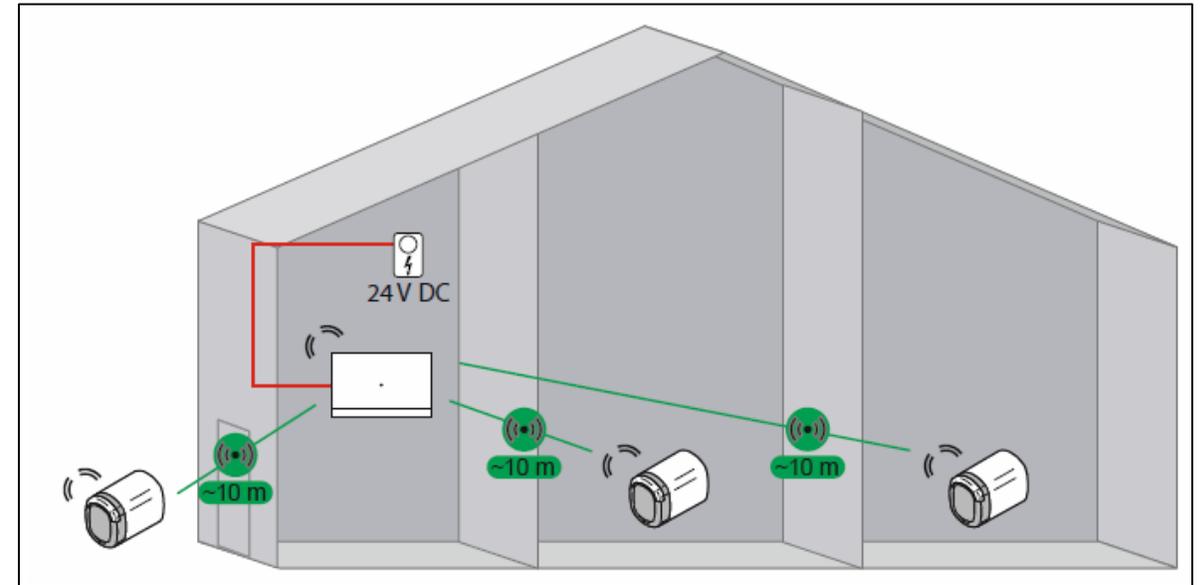


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Planning and Installation

Practical example – Multi family house

- In a multi family house the Smart Access Point Pro should be placed at a central place to cover as many cylinders as possible
- If the entries are too far away an additional RF repeater can be used
- As soon as more than one floor is available an IP network should be setup to use also the RF/IP gateway

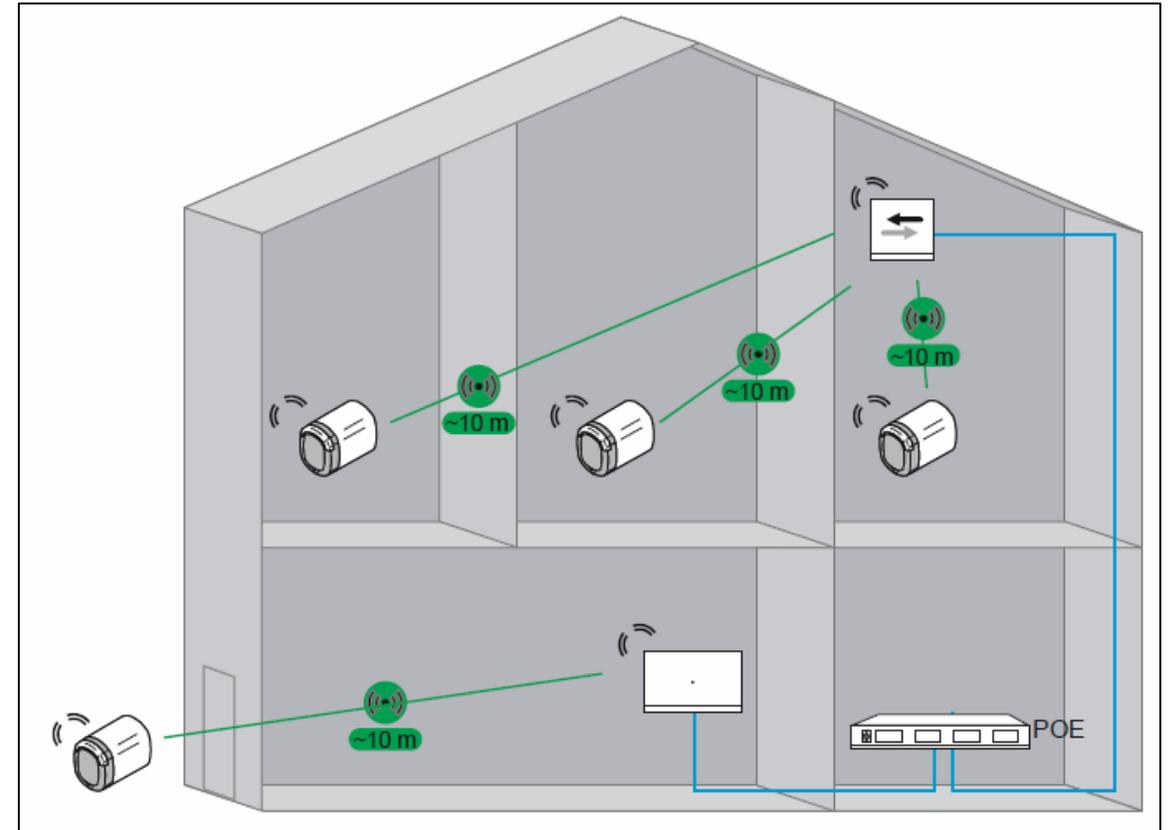


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Planning and Installation

Practical example – Multi family house

- In a multi family house the Smart Access Point Pro should be placed at a central place to cover as many cylinders as possible
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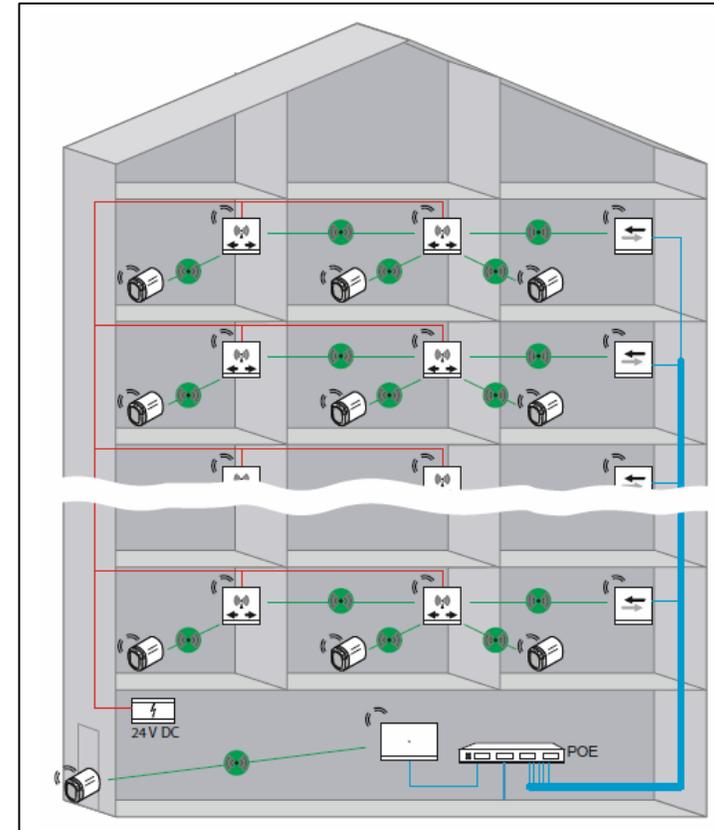


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Planning and Installation

Practical example – Commercial building

- A big office building should be equipped with ABB-Access Control
- The Smart AP Pro will be placed near to the entry
- On each floor one RF/IP Gateway is installed and connected to the technical network
- In the floor RF repeaters are used to extend the Bluetooth range



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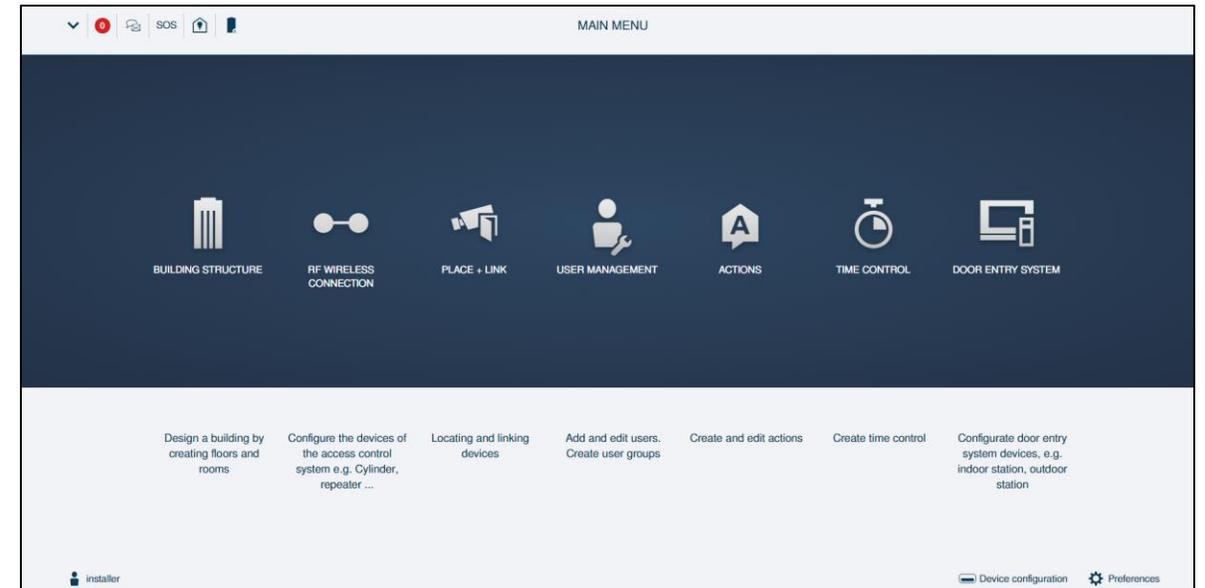
Commissioning

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Commissioning

General process

1. Initial setup of the Smart Access Point Pro
2. Adding AccessControl devices to the installation
3. Building structure
4. Configuration
5. User Management

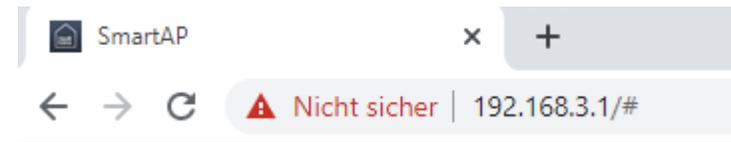


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Commissioning – Initial setup

Connect your PC with the Smart Access Point

- Turn on the Smart Access Point Pro
- Connect your computer with the WLAN of the Smart AP
- Open the configuration via the standard IP address „192.168.3.1“
- Alternative: connect your PC via LAN with the Smart AP



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Commissioning – Initial setup

Language



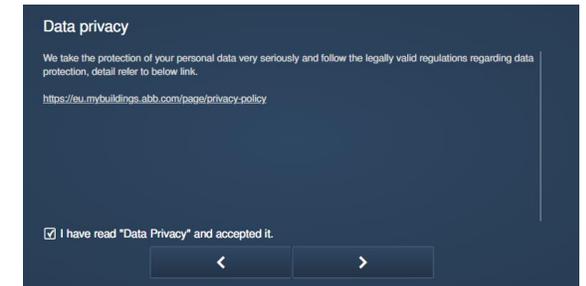
End User Agreement



Agreement for Software



Data privacy



Initial setup

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Commissioning – Initial setup

Building type

- Residential
 - “DHCP mode” → Smart Access Point is connected to the router
 - Mainly for single family application
- Functional
 - Static mode → Smart Access Point is connected to the technical network and works with the static IP-address 10.0.0.1
 - An additional router can be used, if the building owner want to use internet functions or DHCP

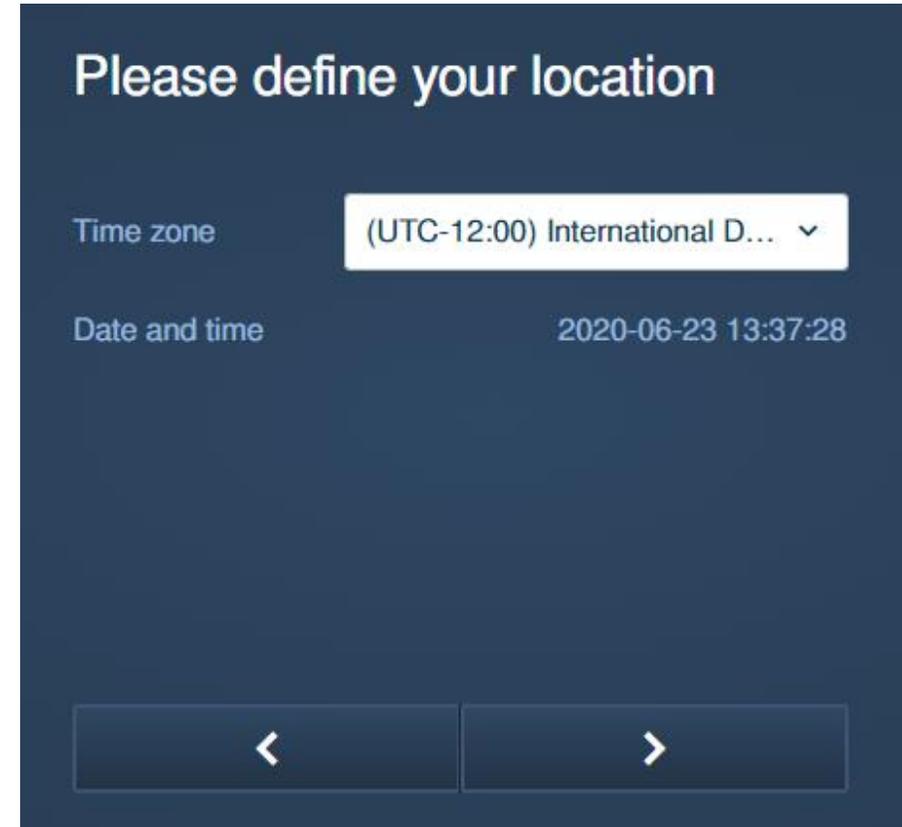


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Commissioning – Initial setup

Location

- Settings for date and time (location)



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Commissioning – Initial setup

Wi-Fi access point mode

- Password for the Wi-Fi of the Smart Access Point Pro can be changed
- Minimum requirements:
 - At least 10 characters
 - Uppercase and lowercase letters
 - At least one special character
 - At least one number
- Don't forget the password!



The screenshot shows a dark blue interface titled "Wi-Fi access point mode settings". It contains four input fields: "SSID" with the value "SmartAP_072C", "Password" with the placeholder "Password", "Repeat password" which is empty, and "Country code" with a dropdown menu showing "Afghanistan". At the bottom, there are two navigation buttons: a left arrow and a right arrow.

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Commissioning – Initial setup

Connection type

- Connection to the local network
- If no connection to the local network is planned, select a random type



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Commissioning – Initial setup

LAN

Please establish LAN connection

Obtain IP address automatically

IP address

Subnet mask

Default gateway

WLAN

Please connect to a Wi-Fi network

UPC3118094 

Access all possibilities 

UPC3118094 

Vodafone Hotspot 

HZN246300221 

UPC8328267 

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Commissioning – Initial setup

Creation of the admin

- User account for commissioning the system
- Minimum requirements:
 - At least 10 characters
 - Uppercase and lowercase letters
 - At least one special character
 - At least one number



Please create your user account

User name

Password

Repeat password

< >

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Commissioning – Initial setup

Options for Reset

- Without registration the system can be reset without security verification
- With registration an additional mail with a security code will be send out, before deleting the system

Options for Reset

Without myBuildings account *

With myBuildings account (recommended) **

* Reset of the password is done without security verification and can be performed by anyone via the reset button.

** Reset of the password is done with a security verification by a once valid security code, which is sent via the myBuildings account by email.

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Commissioning – Initial setup

Connection to MyBuildings Portal

- For security verification and remote access
- Can be added later also



Please connect to MyBuildings

User name

Password

Friendly name

Remote access Enable

If you do not have a MyBuildings account yet, you can [register here](#).

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Commissioning – Initial setup

Name

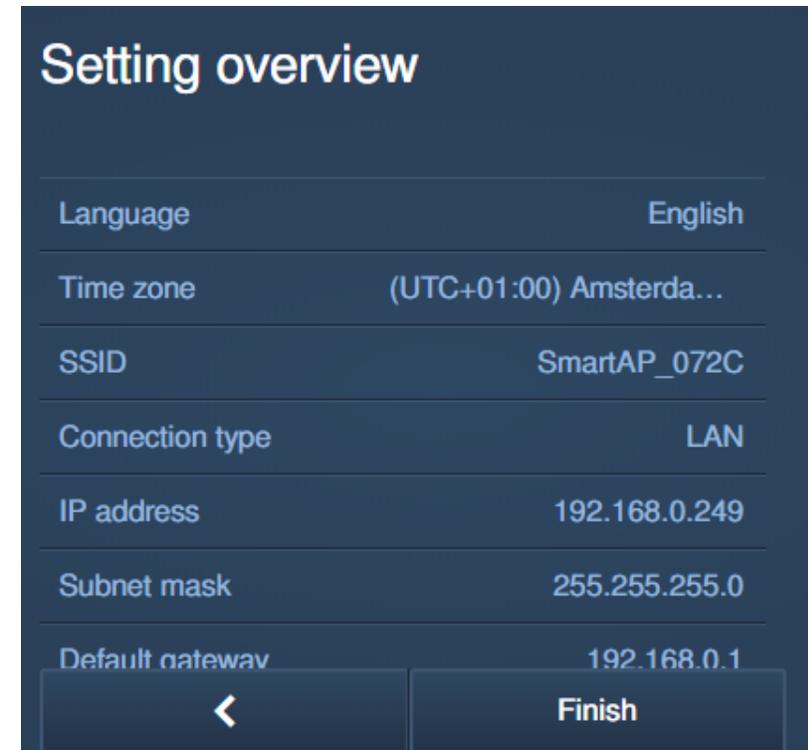


Please enter the device name

Device name

< >

Overview



Setting overview

Language	English
Time zone	(UTC+01:00) Amsterda...
SSID	SmartAP_072C
Connection type	LAN
IP address	192.168.0.249
Subnet mask	255.255.255.0
Default gateway	192.168.0.1

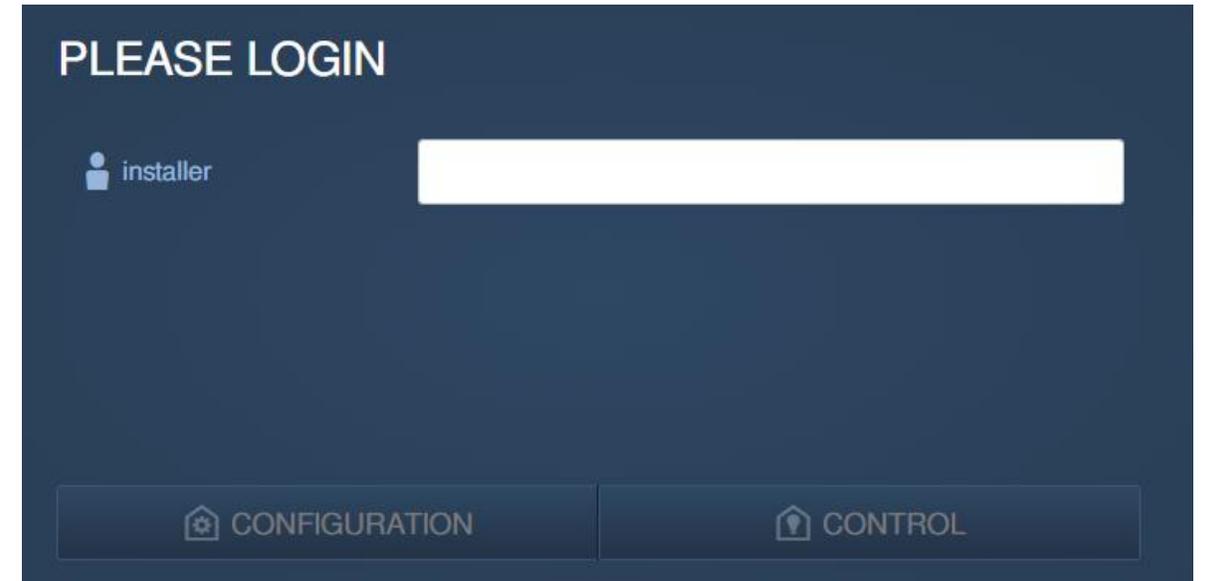
< Finish

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Commissioning – Initial setup

Connection to the Smart AP Pro (residential)

- Residential mode
 - 1. Via Wi-Fi
 - new Wi-Fi password has to be used
 - IP-address 192.168.3.1
 - 2. Via LAN
 - Connect PC via LAN with Smart AP Pro or technical network
 - IP-address 192.168.0.x



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Commissioning – Initial setup

Connection to the Smart AP Pro (functional)

- Functional mode
 - 1. Via Wi-Fi
 - new Wi-Fi password has to be used
 - IP-address 192.168.3.1
 - 2. Via LAN
 - Connect PC via LAN with Smart AP Pro or technical network
 - IP-address 10.0.0.1

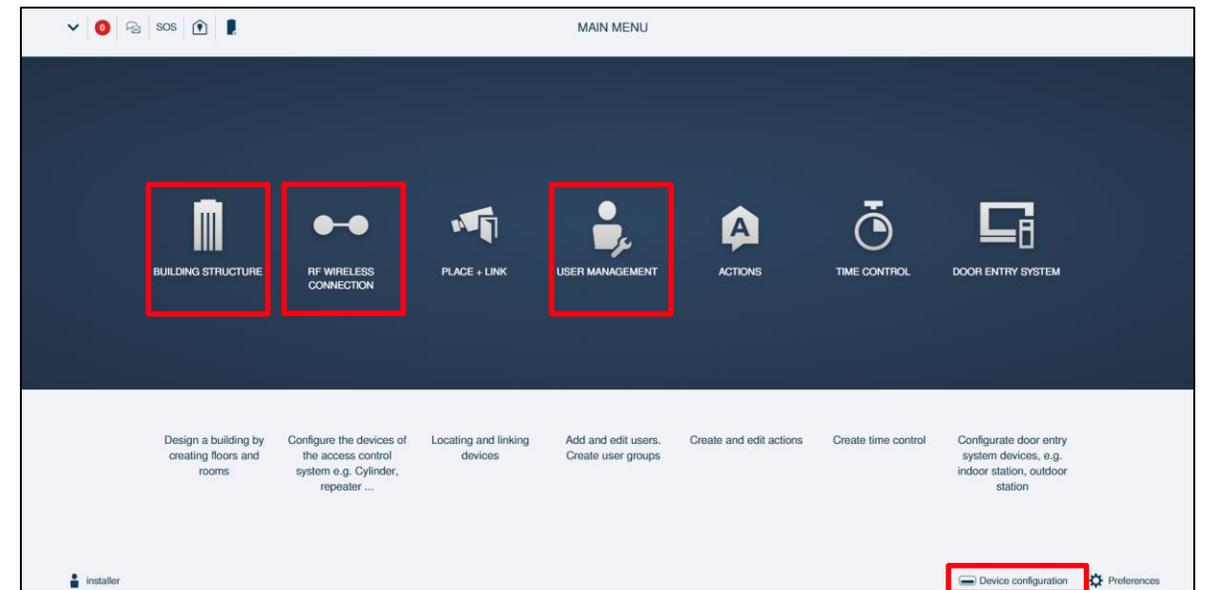


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Commissioning – Initial setup

Overview Smart AP Pro interface

- Device configuration: adding cylinder, RF repeater and RF/IP gateways
- Building Structure:
 - Setup of all buildings
 - Setup of all floors and rooms
- RF Wireless Connection: placing and linking all devices
- User Management: Creating users, access rights, tags, ...

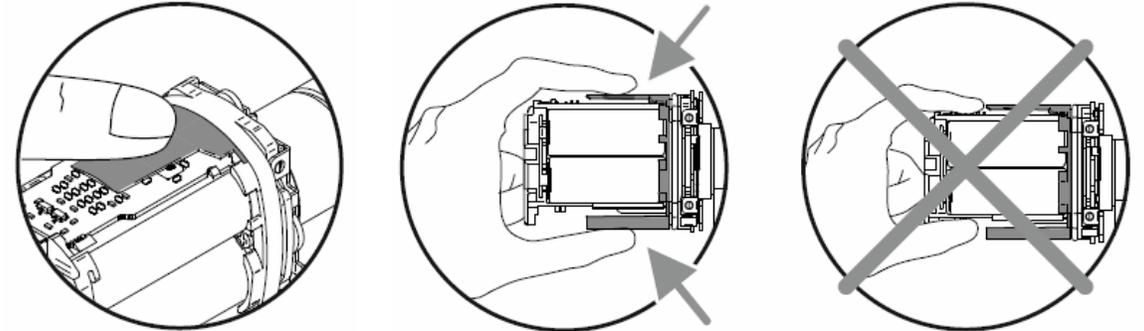


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Commissioning – Adding AccessControl devices

Adding cylinders - preparation

- Same process for all cylinders
- Smart Access Point Pro must be configured
- Preparation
 - Note the serial number of the cylinder
 - Construction card available
 - Insert the batteries
 - Open the configuration of the Smart AP

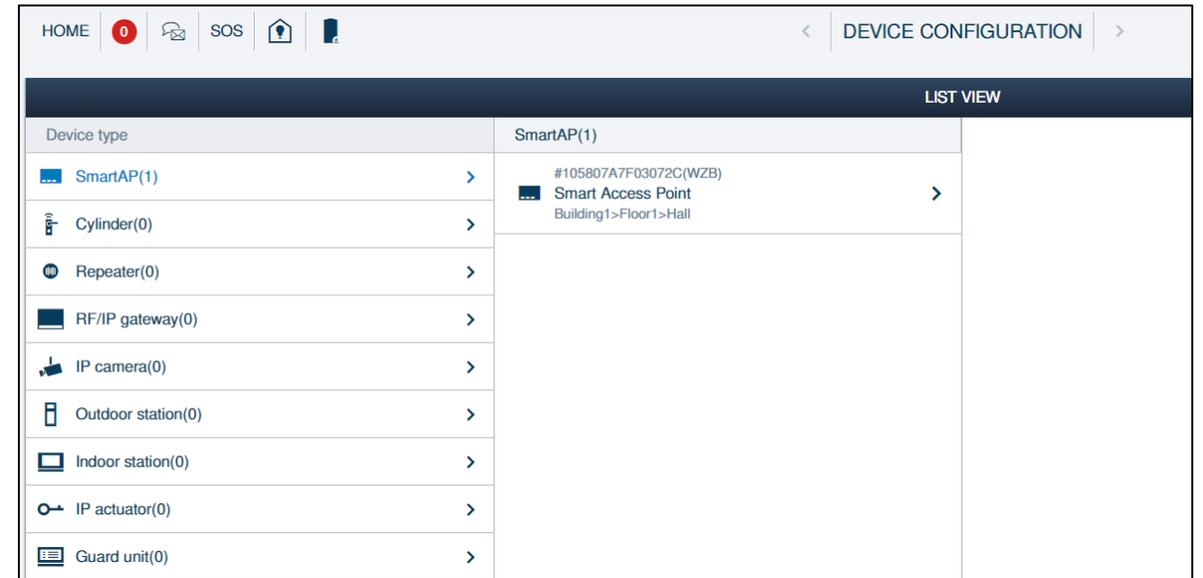


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Commissioning – Adding AccessControl devices

Device Configuration

- AccessControl devices must be added to the installation via the device configuration menu
- Make sure, that the cylinder and the Smart Access Point Pro / RF/IP Gateway are in range
- Open the cylinder with the mounting tool and note the serial number
- Insert the battery and note down the serial number
- Close the cylinder again
- Open the “device configuration” in the Smart Access Point Pro



The screenshot shows the 'DEVICE CONFIGURATION' screen in a mobile application. At the top, there is a navigation bar with 'HOME', 'SOS', and a home icon. Below this is a 'LIST VIEW' header. The main content is a list of device types, each with a count in parentheses and a right-pointing arrow. The 'SmartAP(1)' item is selected, showing a detailed view of the device configuration. The details include the device ID '#105807A7F03072C(WZB)' and the location 'Smart Access Point Building1->Floor1->Hall'.

Device type	SmartAP(1)
SmartAP(1)	#105807A7F03072C(WZB) Smart Access Point Building1->Floor1->Hall
Cylinder(0)	
Repeater(0)	
RF/IP gateway(0)	
IP camera(0)	
Outdoor station(0)	
Indoor station(0)	
IP actuator(0)	
Guard unit(0)	

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Commissioning – Adding AccessControl devices

Device Configuration - Cylinder

- Navigate to “Cylinder”
- Click on the “Add” button on the bottom



- Enter the serial number and click on “Save”

Device type	Cylinder(1)	Cylinder
SmartAP(1) >	#xxxxxxxxxxxx(1) Cylinder >	Serialnumber: xxxxxxxxxxxx Short ID: Software version: <input type="button" value="Update firmware"/>
Cylinder(0) >		Position
Repeater(0) >		Building <not allocated> >
RF/IP gateway(0) >		Floor <not allocated> >
IP camera(0) >		Room <not allocated> >
Outdoor station(0) >		Parameter
Indoor station(0) >		Serial number 113900000000D7
IP actuator(0) >		Channels
Guard unit(0) >		RF connection >
		Door opener >
		Knob reader >
		Office mode >
		Emergency card >
		<input type="button" value="x"/> <input type="button" value="Save"/>

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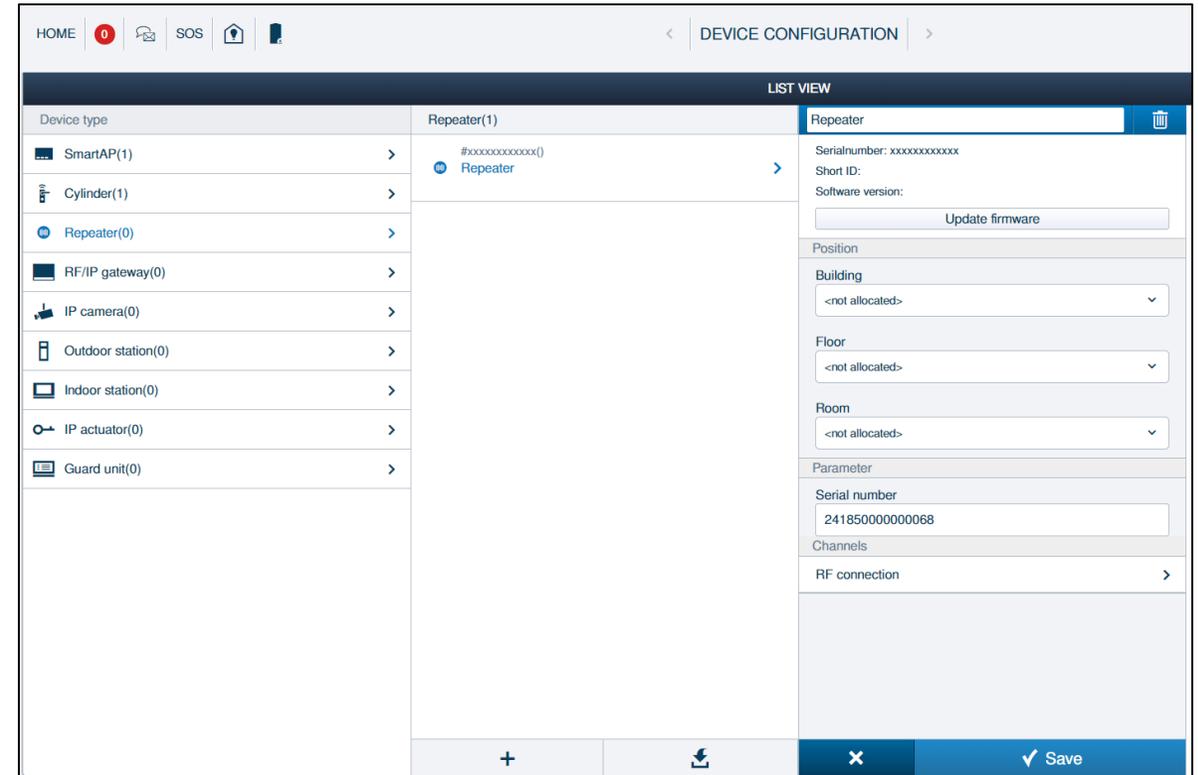
Commissioning – Adding AccessControl devices

Device Configuration - Repeater

- Open the “device configuration” in the Smart Access Point Pro
- Navigate to “Repeater”
- Click on the “Add” button on the bottom



- Enter the serial number and click on “Save”



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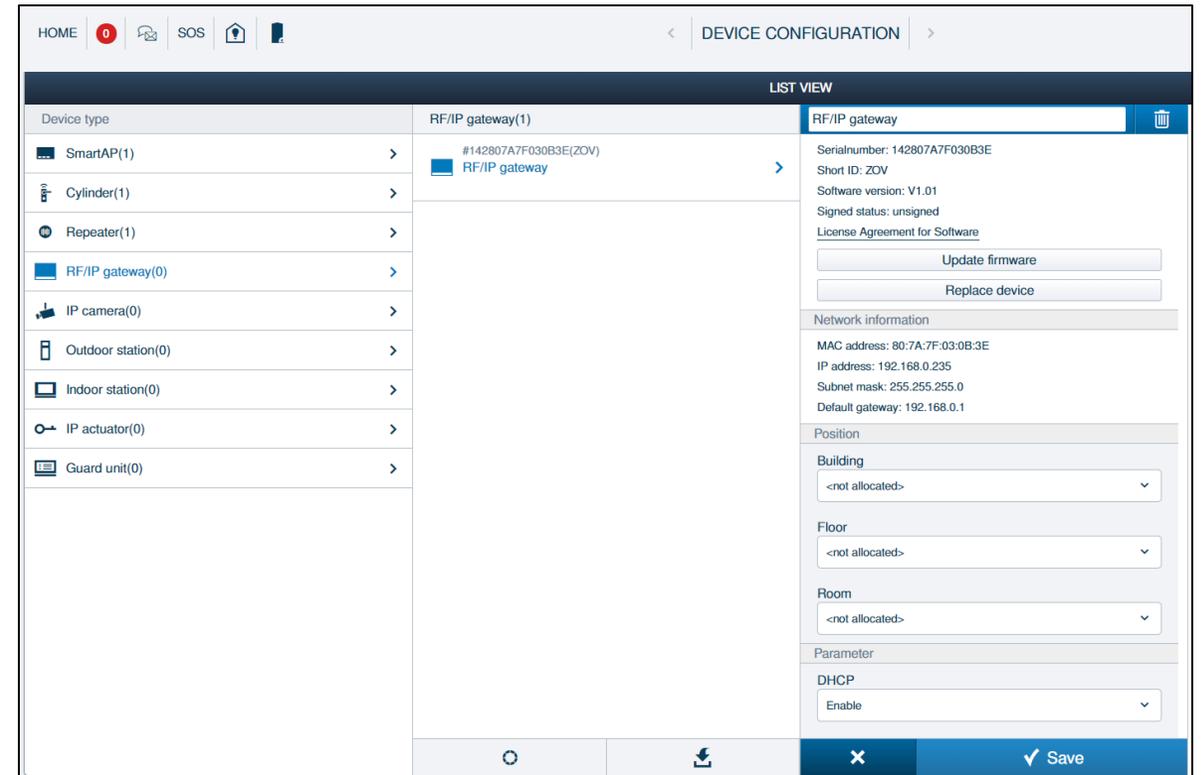
Commissioning – Adding AccessControl devices

Device Configuration - RF/IP Gateway

- Open the “device configuration” in the Smart Access Point Pro
- Navigate to “RF/IP gateway”
- Click on the “Search” button on the bottom



- All available RF/IP gateways, which are located in the same network like the Smart Access Point Pro will be displayed
- Click on “Save” to add the device to the installation

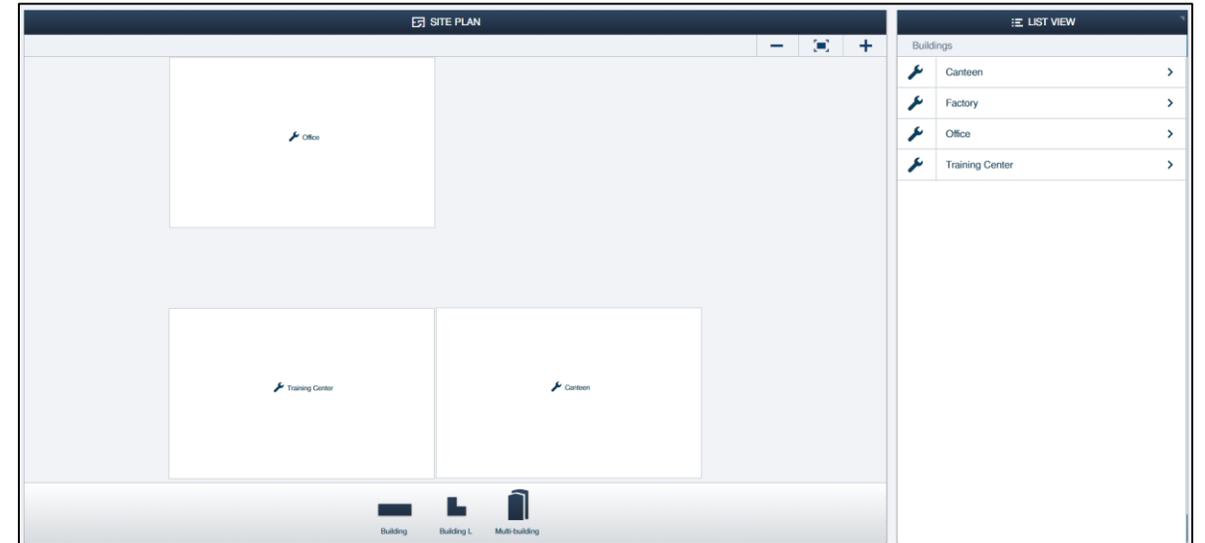


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Commissioning – Building structure

Building structure

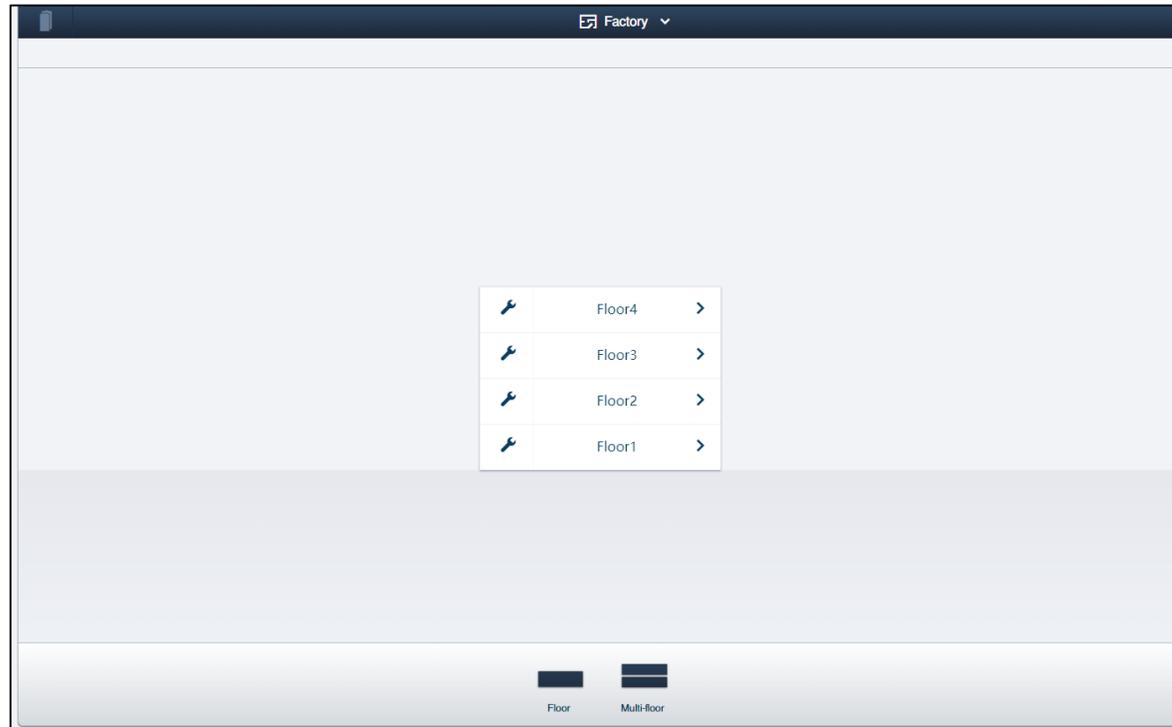
- Easy creation of buildings and floor
- Multi-buildings and multi-floors can be created for fast setup
- Similar to free@home



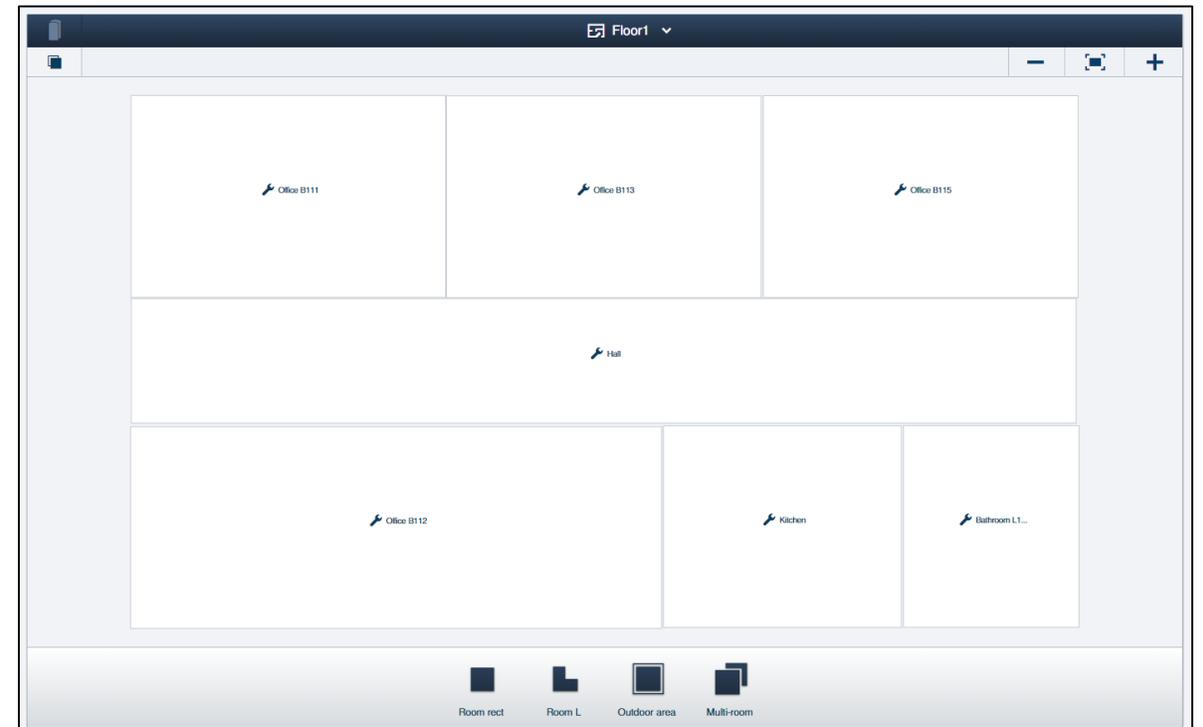
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Commissioning – Building structure

Floors



Rooms

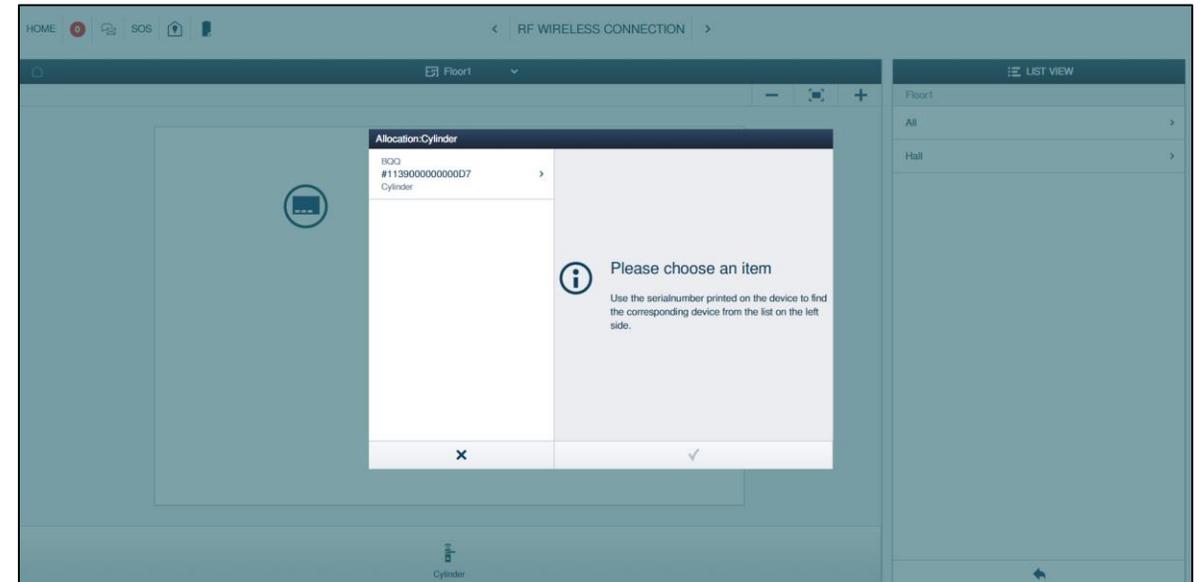


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Commissioning – Configuration

Adding cylinders

- Navigate to menu “RF wireless connection” (the building structure must be created before!)
- Drag and drop the cylinder icon to the room, which you have created before
- All available cylinders will be displayed with their serial number

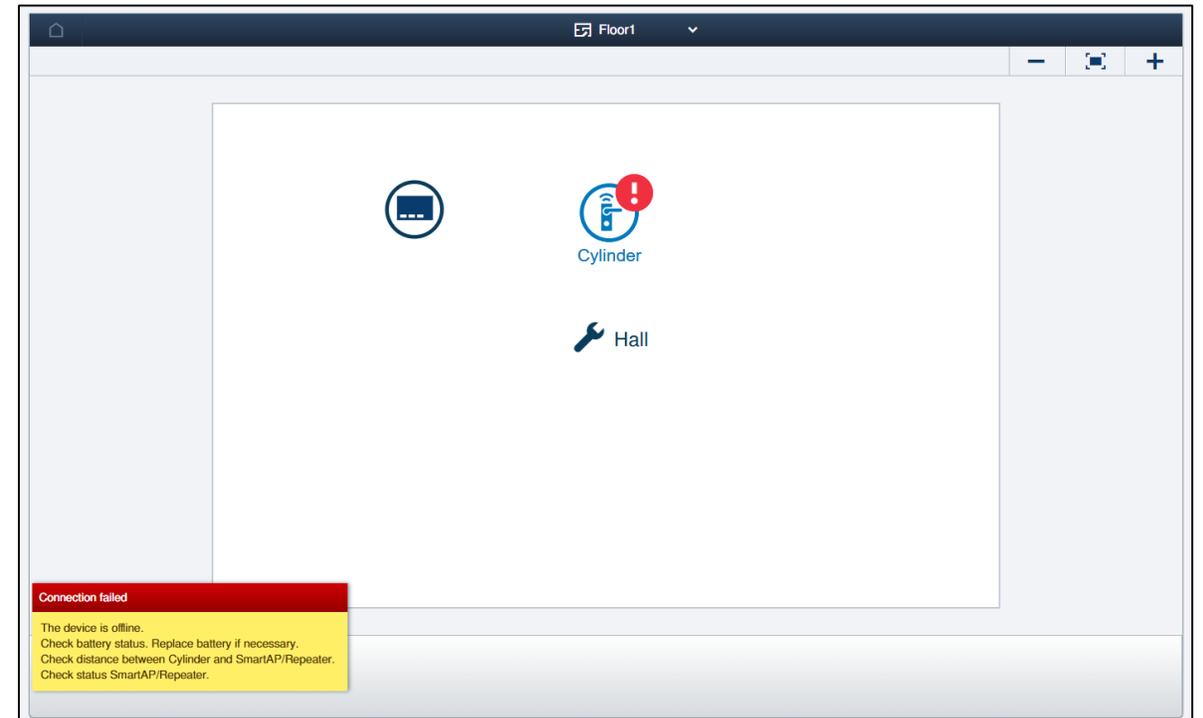


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Commissioning – Configuration

Adding cylinders

- The cylinder will be displayed with an red exclamation mark
- This means, that the cylinder is “offline”, so not connected to the Smart Access Point or an RF/IP Gateway
- If the battery is low or the distance between cylinder and Smart AP is too high, the same error will be displayed

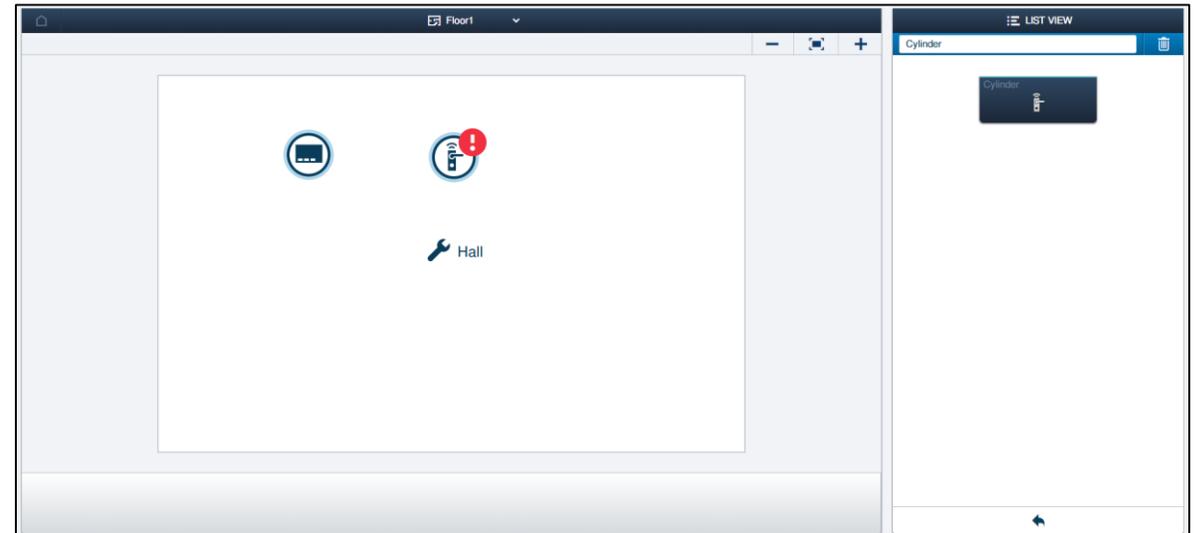


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Commissioning – Configuration

Adding cylinders

- Select the cylinder now and link it with the RF device, to which it should be connected to start the connection process

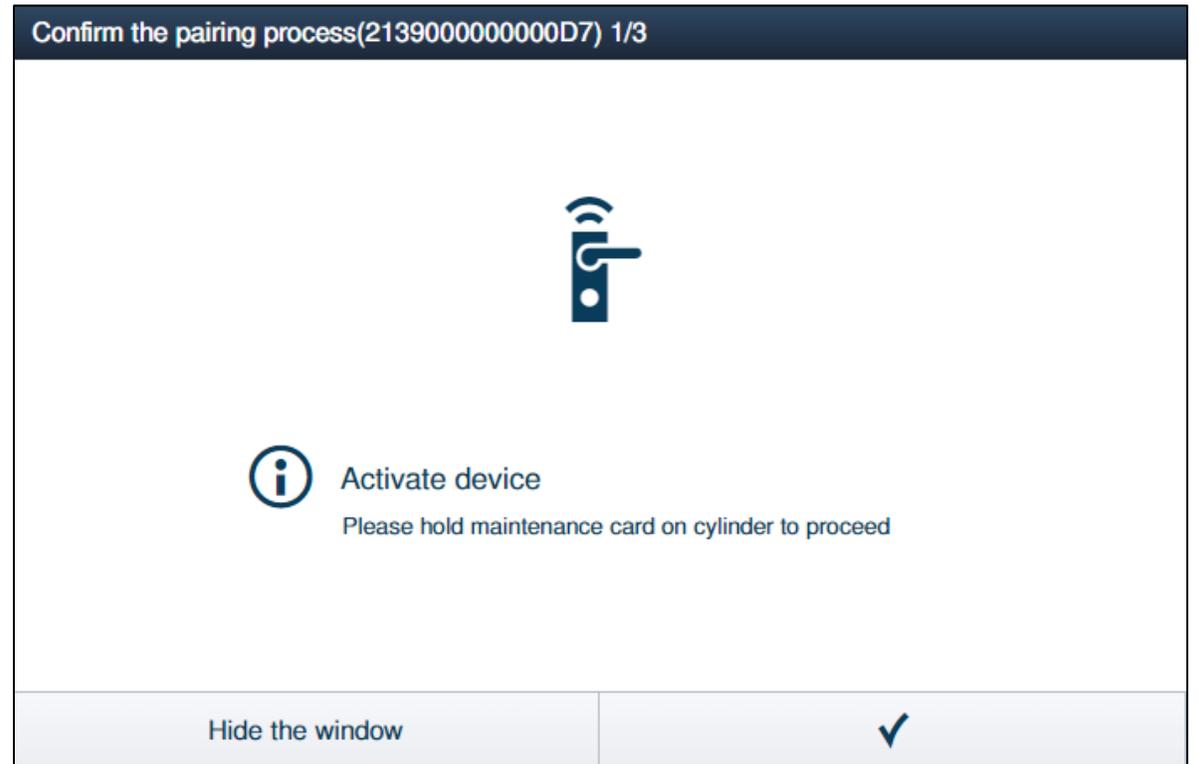


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Commissioning – Configuration

Adding cylinders

- The pairing process starts now
- Hold the maintenance card on the cylinder
- The cylinder will blink now several times yellow
- After successful pairing, the cylinder will light up green
- If the cylinder lights up red, the pairing process failed

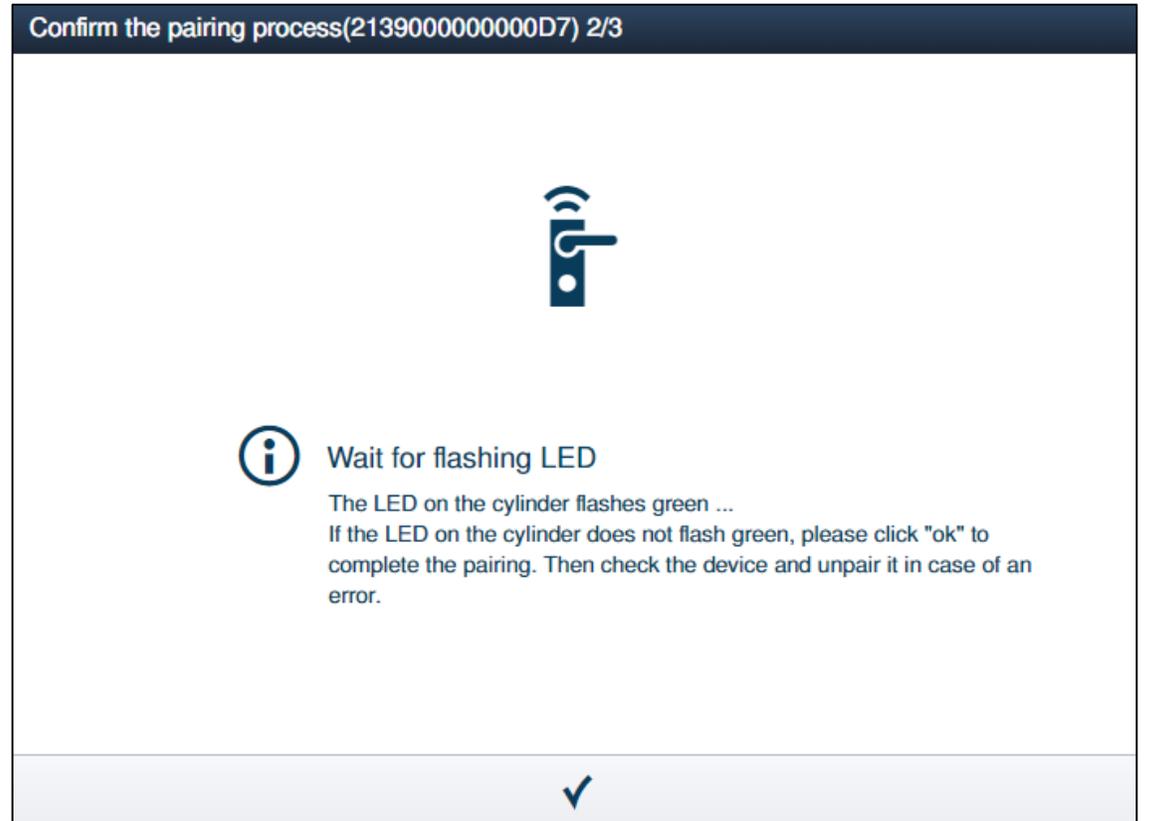


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Commissioning – Configuration

Adding cylinders

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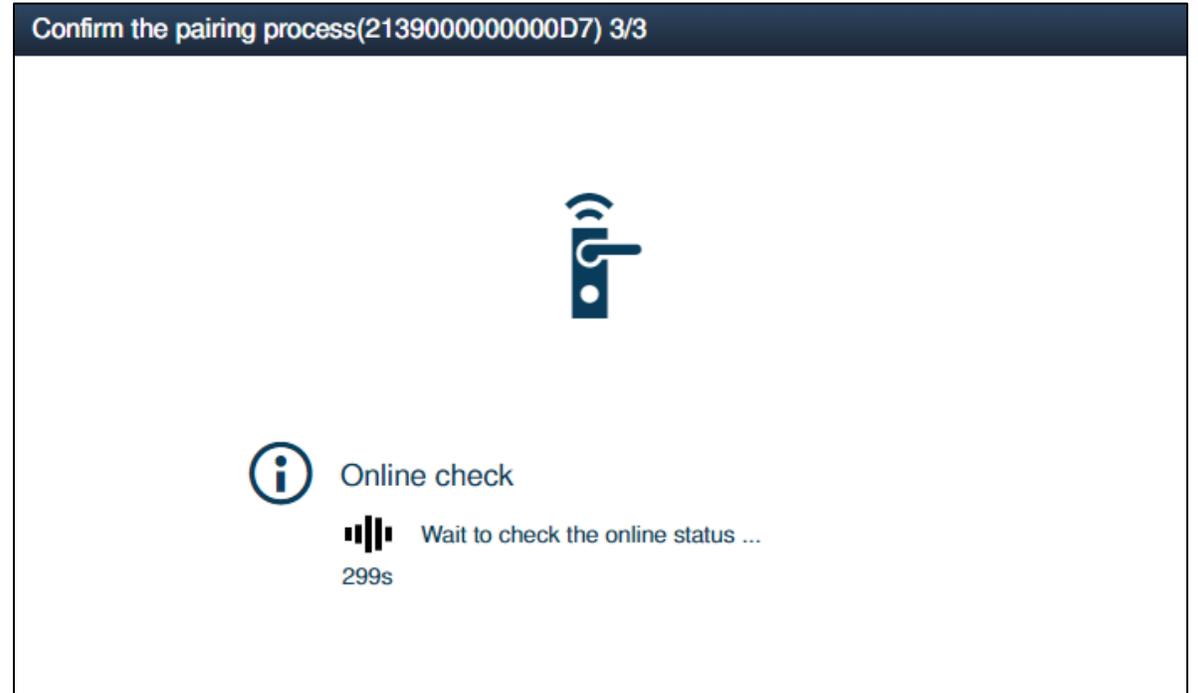


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Commissioning – Configuration

Adding cylinders

- The Smart Access Point will check now, if the cylinder is available in the system

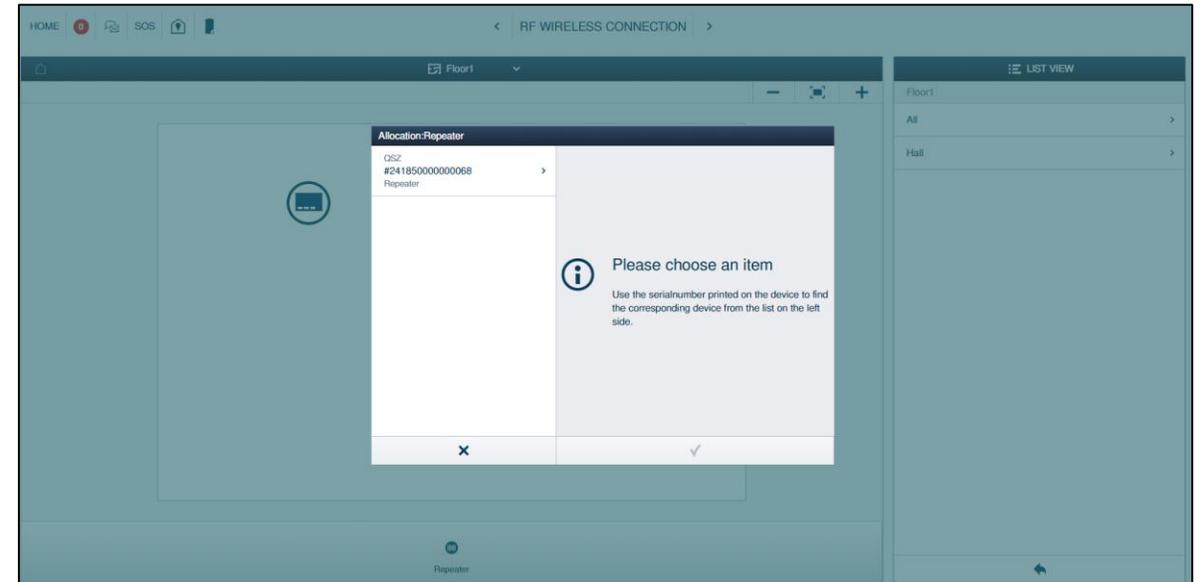


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Commissioning – Configuration

Repeater

- Navigate to menu “RF wireless connection”
- Drag and drop the repeater icon to the room, which you have created before
- All available repeaters will be displayed with their serial number

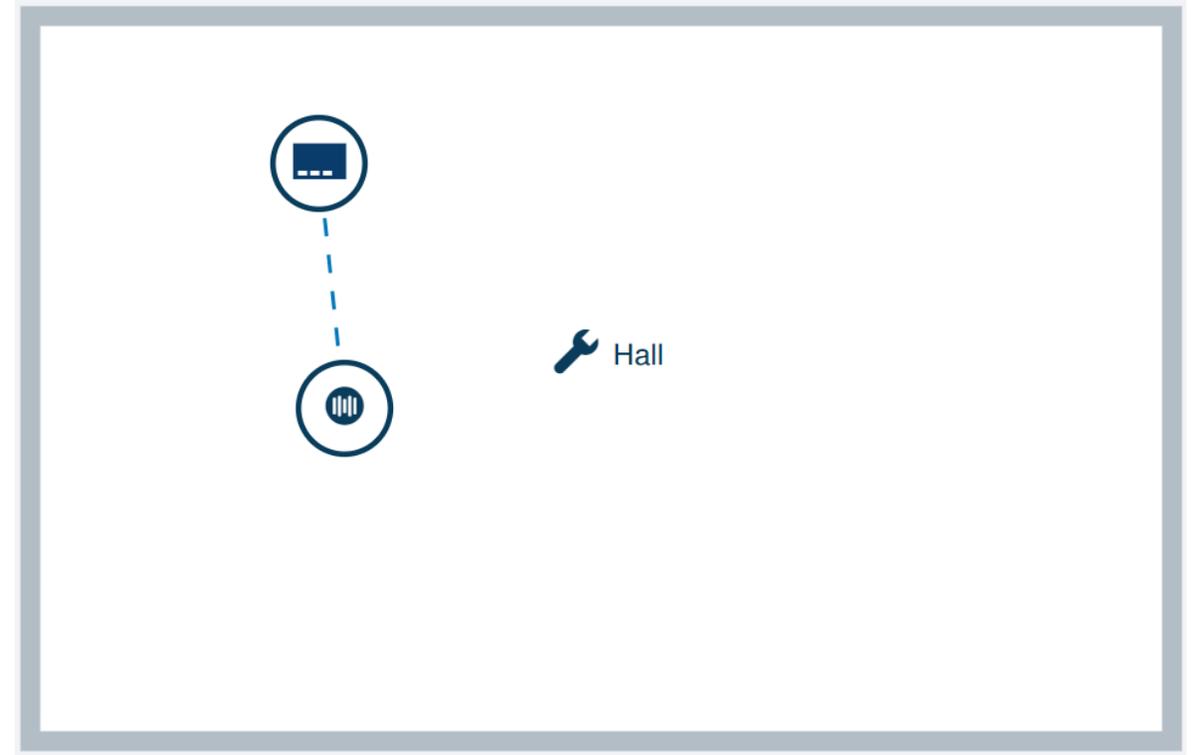


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Commissioning – Configuration

Repeater

- Click on the repeater and link it the Smart Access Point Pro
- The repeater and the Smart Access Point Pro are now connected



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Commissioning – Configuration

Repeater

- Repeaters must be unpaired before you can delete them
- To unpair the repeater and the Smart Access Point Pro the serial number of the repeater is needed again

Confirm unpairing operation

Please enter the serialnumber of device for confirmation.

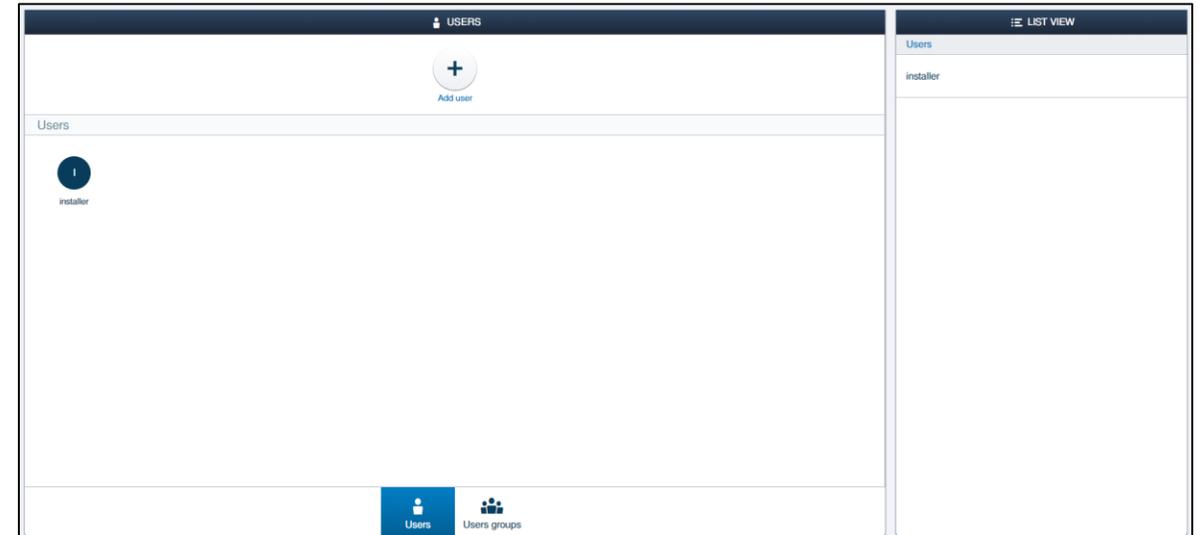
Serialnumber

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Commissioning – User management

User management

- Management of all users, transponders und access rights
- Adding new users
- Adding new user groups
- Adding transponder and access rights



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Commissioning – User management

Adding new users

- New users can be added via the “plus” icon on the top
- For each user a user name, first name, last name and a password has to be defined
- User roles:
 - Admin
 - Master
 - Basic
 - 3rd party
- Temporary access for 3rd party

ADD NEW USER

New user

User name

First name

Last name

User role

Password

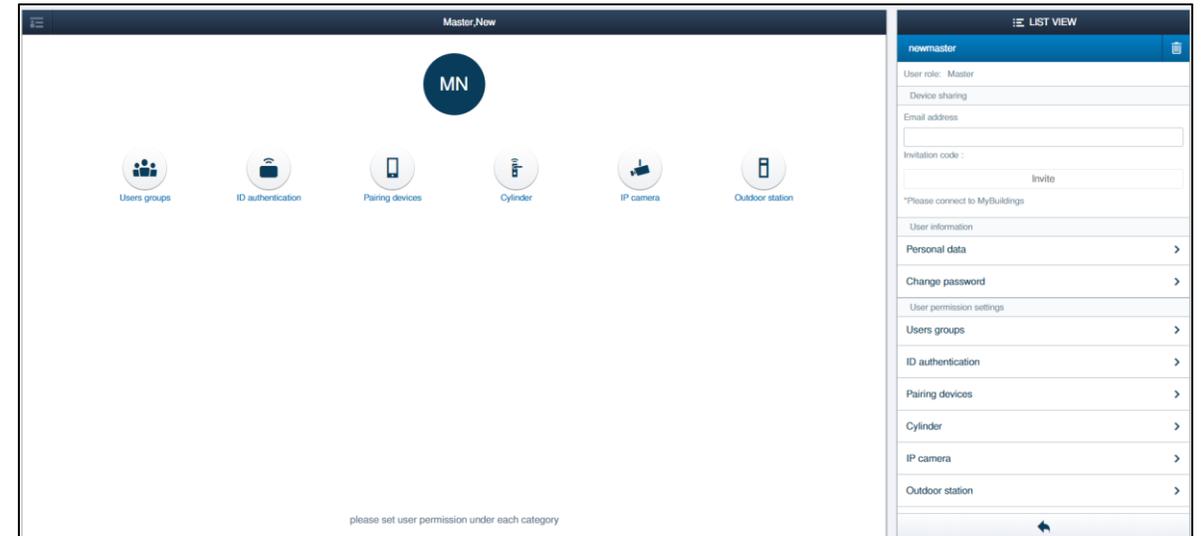
Repeat password

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Commissioning – User management

Parameter for user

- User can be added to a user groups
- Management of tags and cylinder
- Pairing mobile device to open the door

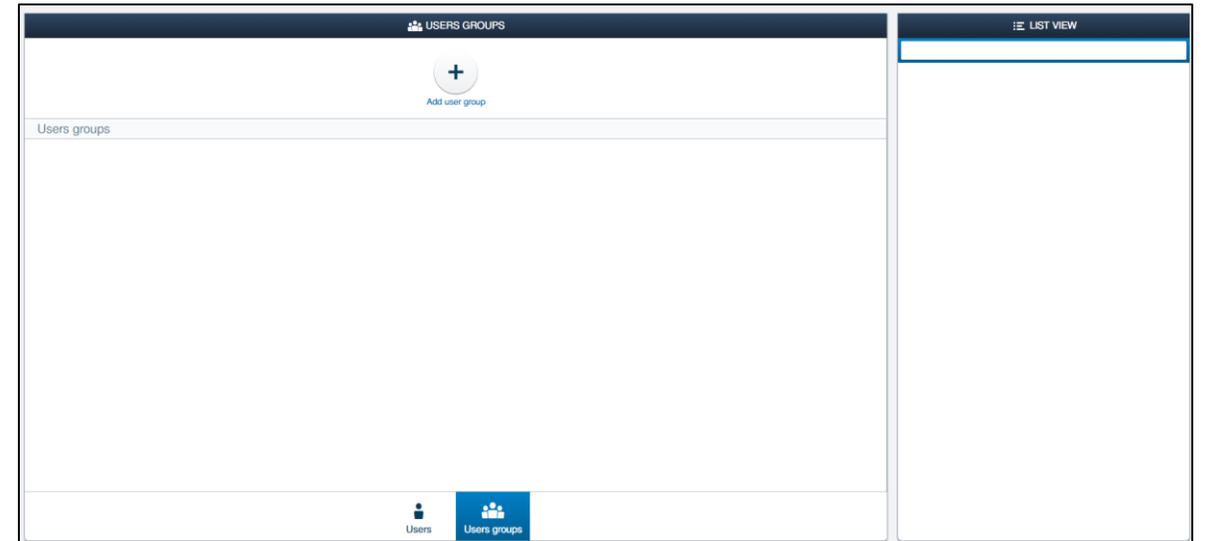


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Commissioning – User management

User groups

- User groups can be used to facilitate the management of access rights for common areas
- Example: all employees should have access to the main area of a hotel



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Commissioning – User management

New user groups

- New user groups can be added via the “plus” icon on the top
- Each user group needs a name and an icon

Add new user group

New user group

Group name

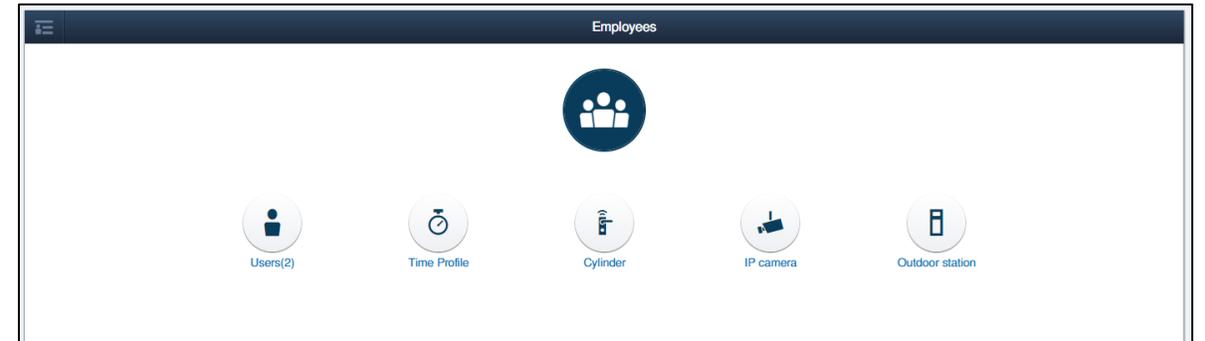
Group icon

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Commissioning – User management

New user groups

- After adding a new user group the detailed settings can be done
- Users: adding users to the group → all added users have the same rights
- Time profile: adding time based access rights
- Cylinder: which cylinder this user group is allowed to open
- IP camera / outdoor station: settings for Welcome IP

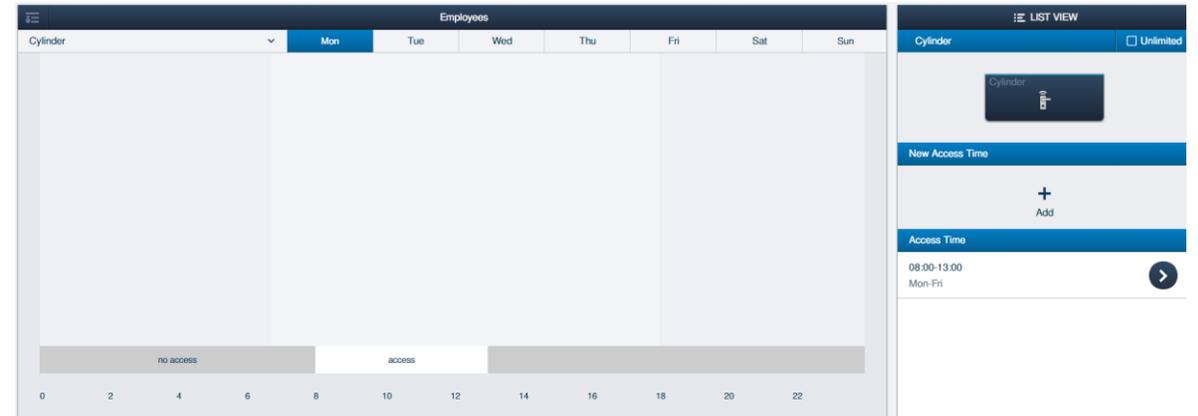


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Commissioning – User management

New user groups – Time profile

- Limited access to cylinders for user groups
- Example:
 - Employees are only allowed to enter the building between 6 a.m. and 10 p.m.
 - Cleaning employees are only allowed to enter the rooms between 8 a.m. and 1 p.m.

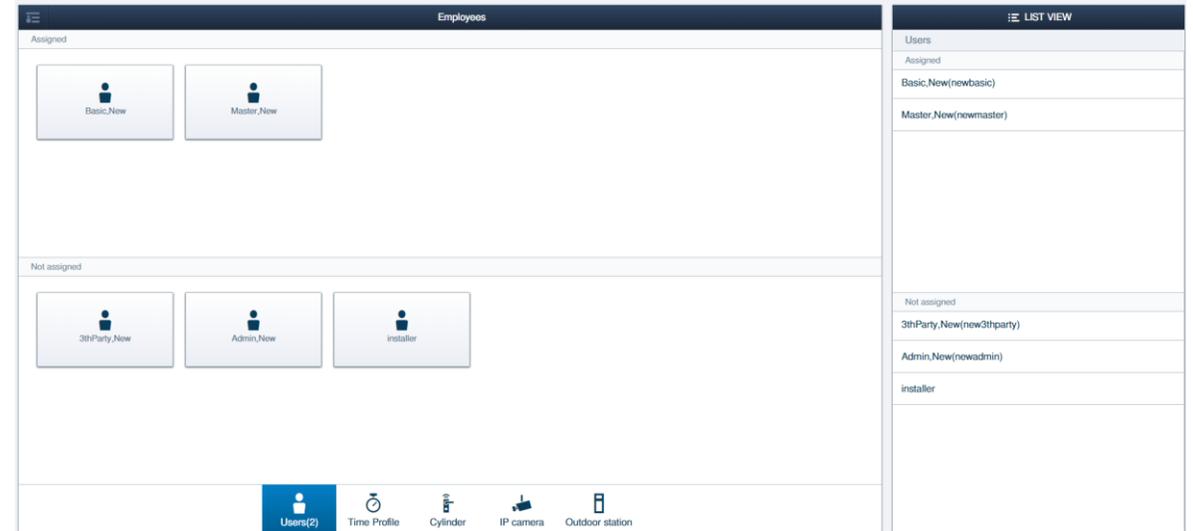
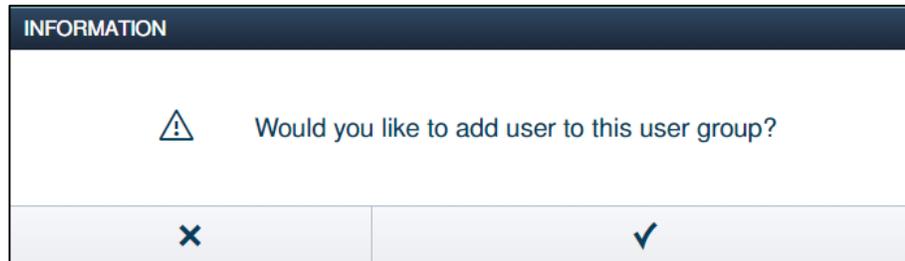


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Commissioning – User management

Assignment

- Easy assignment of the users

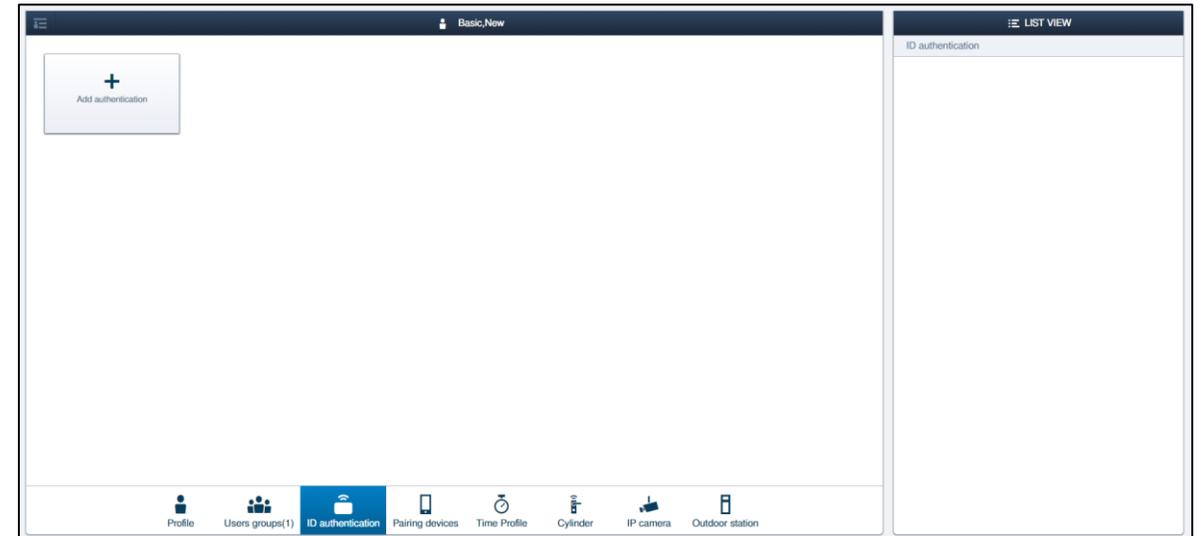
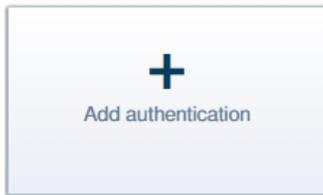


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Commissioning – User management

Authentication / Tags

- Includes all transponder for AccessControl and Mifare cards for Welcome IP
- To add a new tag the user must be selected first
- New tags can be added via the menu “Authentication” and “Add authentication”

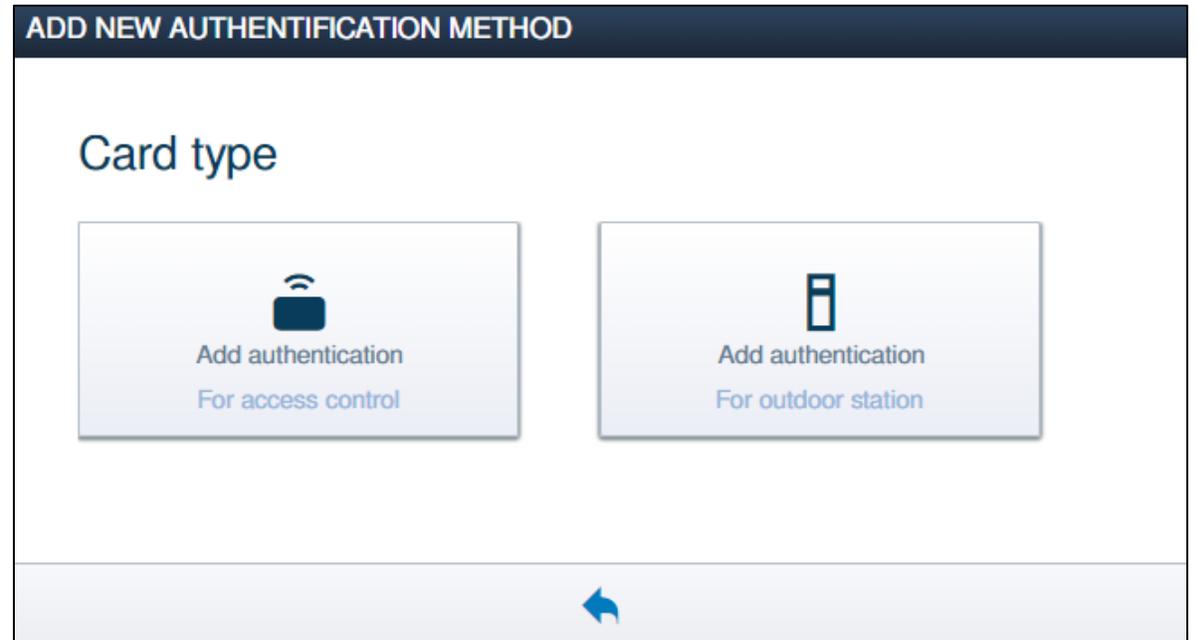


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Commissioning – User management

Authentication / Tags

- Select card type
 - Left: for access control
 - Right: for outdoor station
- One tag can be used for access control and for an outdoor station at the same time
- Two authentications needed (AccessControl + Welcome IP OS)



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Commissioning – User management

Authentication / Tags

- Needed information:
 - Name (unique)
 - Validity period (limited/unlimited)
 - Card reader (cylinder)
 - Card number (will be added automatically after holding the tag next to the cylinder)
- The tag is assigned to the user now
- The user can now open all assigned cylinder with this tag

ADD AUTHENTICATION

New identity authentication

Card name	<input type="text"/>
Card type	RFID ▼
Validity period	Limited validity ▼
Start	<input type="text"/> 31
End	<input type="text"/> 31
Card reader	Select reader ▼
Card number	<input type="text"/>

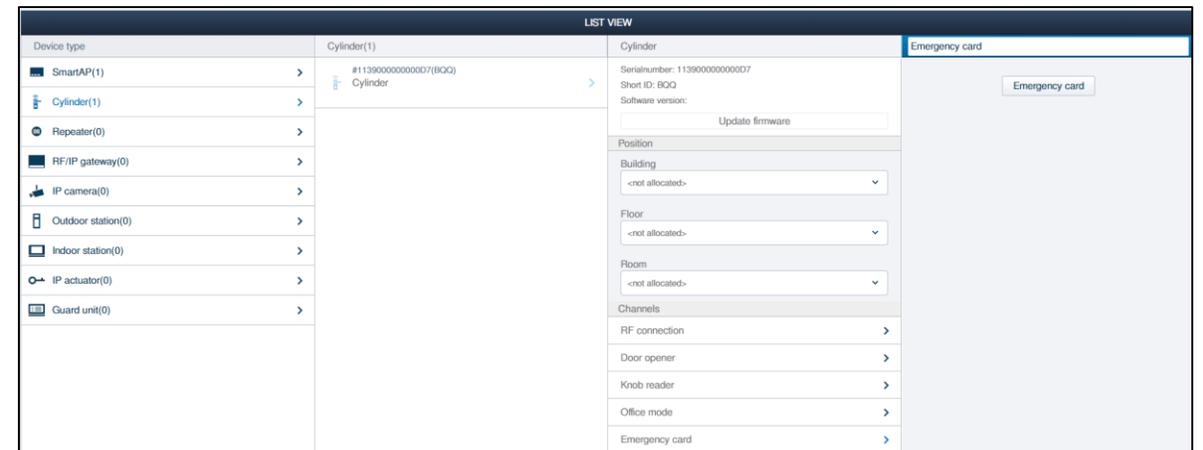
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Commissioning – User management

Authentication / Tags – Emergency function

- If the Smart Access Point is offline or there is no RF-connection between the cylinder and the Smart Access Point, the user will not be able to open the door
- Therefore each cylinder can store up to 100 “emergency tags”, which will also work in case of an offline Smart AP
 - Open the device settings and select the cylinder
 - Click on “Emergency card”
 - Add the tags, which should also work in a case of emergency, to the cylinder



Webinar “ABB-AccessControl”

Summary

Webinar “ABB-AccessControl”

Summary

ABB-AccessControl

- Suitable for many different applications like private houses or mid-size commercial buildings
- Easy to understand topology
- Fast commissioning process
- Up to 600 devices, 2000 users and 64 user groups can be controlled and managed
- Compatible with Welcome IP, free@home and KNX



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