

2TMD042400D0002 | 18.12.2024

# System Manual ABB-Welcome IP



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# Overview of IP Technology

# 1 Overview of IP Technology

# 1.1 Cabling and Connection

#### 1.1.1 Fundamentals of structured cabling

Structured cabling is a uniform setup plan for a network infrastructure. The network infrastructure is independent of the application and future oriented. Additional designations for the structured cabling are Universal Structured Cabling (UGV) or Universal Communication Cabling (UKV).

Structured cabling is to prevent expensive faulty installations and extensions and also make the installation of new network components easier.

Unstructured cabling is normally bound to requirements or a specific application. If the changeover to a new technology or technology generation becomes necessary, this could easily lead to a cost explosion.

Structured cabling is based on a generally valid cabling structure. This cabling structure, among others, takes the requirements for several years into the future into consideration. It contains reserves and can be used independent of the applications. For example lets the local network and the telephony operate via the same cabling.

Structured cabling includes the following points:

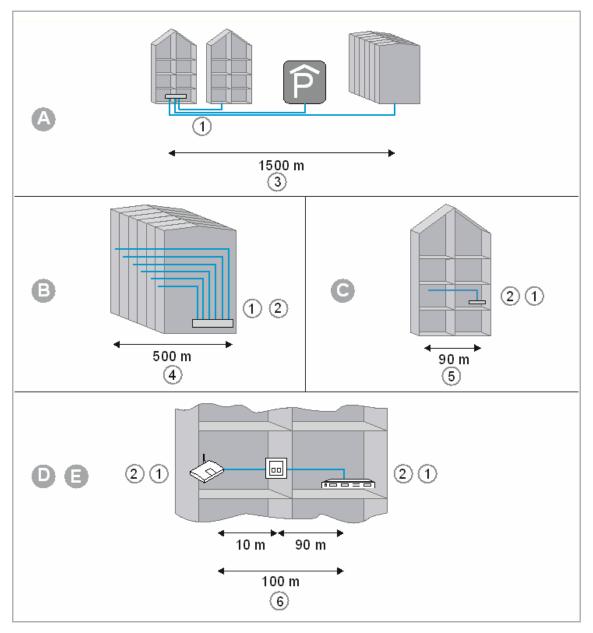
- Standardised components (wires, connectors, etc.)
- Hierarchical network topology (star, tree, etc.)
- Recommendations for laying and installation
- Standardised measuring, testing and documentation processes

#### **Objectives of structured cabling**

- Support of all current and future communication systems
- Reserve of capacity regarding limiting frequency
- Neutral behaviour of the network regarding the transmission protocol and terminal devices
- Flexible expandability
- Fail-safe due to star-shaped cabling
- Implementation of data protection and security
- Adherence to existing standards

#### Standards for structured cabling

Area of validity	Standard	Description
Europe	EN 50173-1 (2003)	Cabling standard information system – application - neutral cabling systems
North America	TIA/EIA 568 B.1 (2001) / B.2 1 (2001)	Telecommunication cabling standard for building cabling
World	ISO/IEC 11801 (2002)	Cabling standard for application-neutral building cabling



ISO/IEC 11801 (2002) and EN 50173-1 (2003)

А	Location distributor
В	Building distributor
С	Floor distributor
D	Connection unit
Е	Terminal device
1	Optical fibre
2	Copper conductor
3	Primary area
4	Secondary area
5	Tertiary area
6	Tertiary area including patch cable

In the European standard (EN) and the globally valid ISO standard, structuring is carried out in the form of hierarchical levels. These levels are formed by groups. These groups have topology and administrative points in common.

Cabling is divided into the following areas:

- Site cabling (primary cabling)
- Building cabling (secondary cabling)
- Floor cabling (tertiary cabling)

The cabling standards are optimised for the following geographic expansion:

- Expansion: 3000 m,
- Area: 1,000,000 sqm
- Users: 50 50,000

Maximum admissible cable lengths have been specified in every cabling sector and must be adhered to during installation. Many transmission techniques refer to the defined cable lengths and quality requirements.

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#### Notice

All ISO standards are recommendations for handling. The adherence to the ISO standard is voluntary. Adherence to the ISO standards maybe demanded by different parties, such cooperation partners, manufacturers and customers.

#### Primary cabling - Site cabling

The primary area is designated as campus cabling or site cabling. The primary area implements the joint cabling of individual buildings. The primary area includes large distances, high transmission rates as well as a minimum number of stations.

In most cases, glass fibre cable (50  $\mu$ m) with a maximum length of 1,500 m is used. Normally these are glass fibre cables with multi-mode fibres or also single-mode cables in case of greater distances. Sometimes also copper cables are used for smaller distances.

The primary area should fundamentally be planned in greater detail. The transmission medium should, with regard to the transmission speed, be open upwards. This equally applies to the transmission system used. As a rule of thumb, a 50 percent reserve applies to the current requirement of the investment.

#### Secondary cabling - building cabling

The secondary area is designated as building cabling or rising area cabling. The secondary area implements the joint cabling of individual floors or storeys within a building. Here the preferred use is glass fibre cables (50  $\mu$ m) or copper cables with a maximum length of 500 m.

#### Tertiary cabling - floor cabling

The tertiary area is designated as floor cabling. The tertiary area implements the cabling of floor or storey distributors to the connection sockets. While a network cabinet with a patch field is located in the storey distributor, the cable at the workplace of the user leads to a connecting socket on the wall, to a cable duct or a floor tank with outlet.

Twisted pair cables are used for these relatively short distances whose length is limited to a total of 100 m (90 m plus 2 x 5 m connecting cable). Glass fibre cables (62.5  $\mu$ m) are also used as an alternative.

Components of structured cabling:

- Patch field (patch panel)
- Patch cable
- Connection sockets
- Network cable
- Distributor cabinets
- Switch, hubs, router

#### 1.2 Network types

For a Welcome IP system there is a distinction between networks:

- Building Network
- Private Network

#### **Building Network**

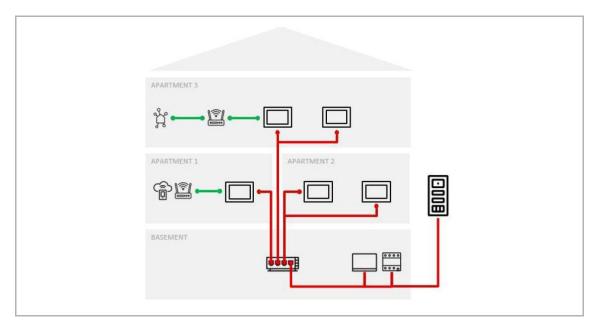
The building network includes all conduits and network components from the outdoor station up to the master indoor station of a unit (apartment or business unit).

Main connection network for Welcome IP. Always necessary, it will be set-up by the installer and represents the core communication way for the Door Entry system devices.

#### **Private Network**

The private network includes all components within a unit (apartment or business unit).

It may be used in multi-unit installations to enable private connectivity to smart home and single unit internet. It is usually the end final user's responsibility, and it could be set up after the main DES System has been commissioned.



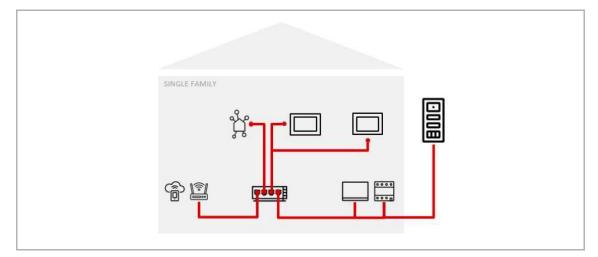
This network differentiation in multi apartment projects, may allow a clear separation between devices belonging to public or private.

- Public devices shared among the tenants of different apartments, (such as main entrance outdoor stations, gate stations, public cameras, elevator controller, guard unit etc.).
- Private devices which are privately managed by the tenants of a single unit (such as private cameras, a second privately confirmed outdoor station, smart home devices, private actuators etc.)

Nevertheless, it is now possible to connect private marked devices directly to the central POE/switch.

The network differentiation is not usually required for Single Family houses, as the entire building is owned and shared, but it is still possible to differentiate if required.

It is still possible to share between Building Network/Private to split the network.



# 1.3 IP Addressing assignment modes

#### 1.3.1 Precondition

It is required the installation of the following (or later versions) software version:

In case you are not sure which version installed in your components or you face issues during the installation, please use two guides as reference.

- <u>Update Guideline for internet connected systems</u>.
- <u>Update Guideline for off-line systems</u>.

Device name	Software version
SmartAP	V6.59
IP Touch 10 (legacy UI)	V2.48
IP Touch 10 (new UI)	V3.03
IP Touch 7 (legacy UI)	V2.48
IP Touch 7 (new UI)	V3.00
IP Touch Lite 7	V1.10
Outdoor Station	V1.54
Guard Unit	V1.57
IP Actuator	V1.17
IP Elevator Controller	V1.15
Audio IP	V1.22
Mini Video Outdoor Station with IC	V1.16

### 1.3.2 Automatic (DHCP) / Manual Mode

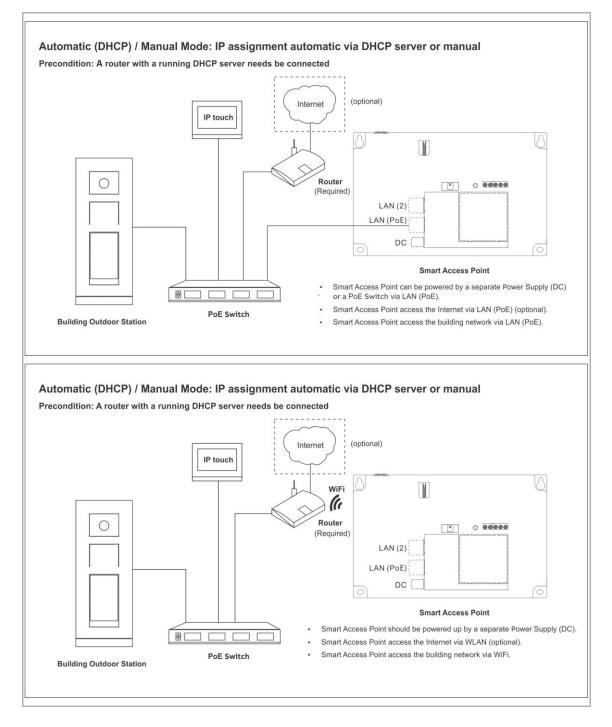
In the Automatic (DHCP) or Manual Mode, the requirement is a router installed and connected to the POE switch which is necessary for the IP address assignation.

The advantages of this mode are:

- The IP address is randomly generated (in DHCP), or manually selected (manual static mode), allowing a multi-function use of the network (no conflict with CCTV, building home automation or others.)
- Option to connect all DES devices\* to the same PoE switch, with consequent cabling simplification and speed of installation
- Greater flexibility on multi-unit projects

(\* limitations for private used devices per single unit: up to 8 IS, 4 second confirmed OS, 4 IPA)

The router is required to be connected via LAN cable to the main PoE switch of the System Network (diagram 1 below), or via WIFI from the SmartAP (diagram 2 below).



#### 1.3.3 ABB Legacy Mode

In the ABB Legacy Mode, there is no need for a router to be installed, as it may be used as optional gateway to connect to internet, but it is not required for the IP Addressing assignation.

The IP Addressing is automatically generated by Welcome IP, based on the physical addressing of the devices.

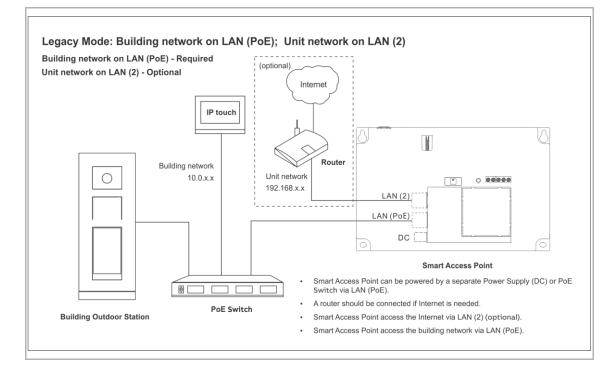
The ABB Legacy Mode requires the separation of the Door Entry Network from other networks that may be used in the project, however, to avoid addressing conflicts.

The advantages of this mode are:

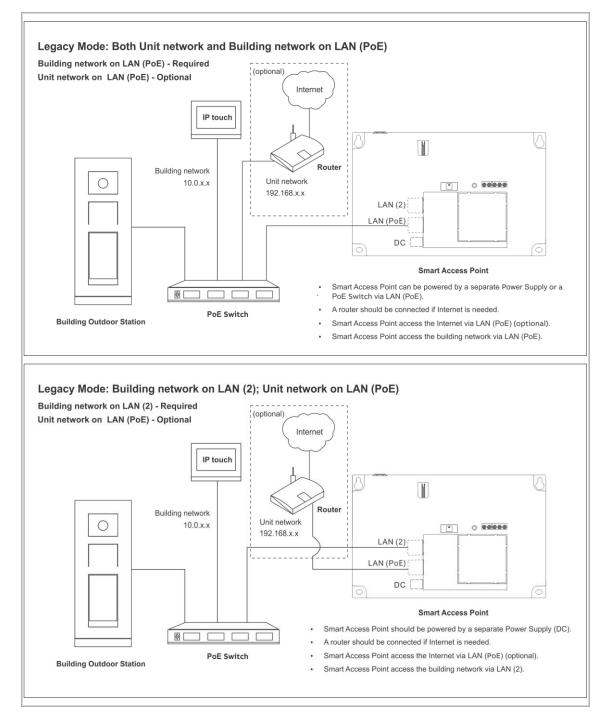
- Simple installation for project with dedicated DES network
- No router requirement
- Option to connect all DES devices\* to the same PoE switch, with consequent cabling simplification and speed of installation.

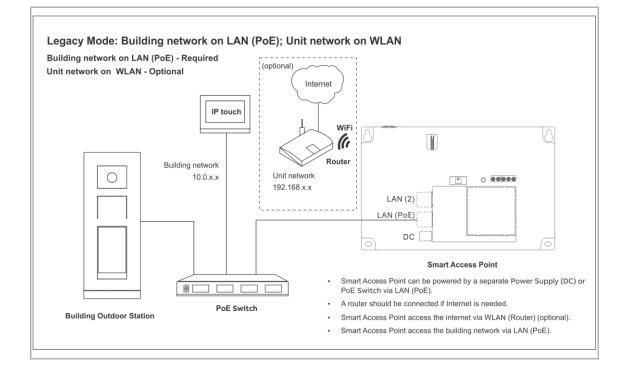
(\* limitations for private used devices per single unit: up to 4 IS, 2 second confirmed OS, 2 IPA)

The recommended set up is to connect the Building Network in the LAN (PoE), while dedicating the Private Network to the LAN (2) port in the SmartAP:



However, it is also possible to connect the router directly to the PoE, or to the LAN (PoE), or to the WiFi of SmartAP:





# 1.3.4 Ports & services in a Welcome IP system

The following ports & services are used in a Welcome IP system.

Port	Service
5060, 5070	UDP (SIP)
5004 / 5005 / 5006 / 5007	UDP
8016 / 8017	UDP
7777	UDP
7005 / 7006	ТСР
7777	ТСР
8001	ТСР
5061, 5070	TCP (SIPS)
50602	UDP
239.0.0.1:3333	UDP (Multicast)
239.0.0.1:4444	UDP (Multicast)
239.0.0.1:5555	UDP (Multicast)
8887	ТСР
10777	TCP (TLS)
11778	TCP (TLS)
12779	TCP (TLS)
5269	TCP
5222	TCP (TLS)
1070, 1071	UDP
8277	ТСР

#### 1.4 PoE switch selection

For selecting a PoE switch, please observe the following points:

- All Welcome IP devices meet standard IEEE802.3af
  - Welcome IP devices can be operated with PoE switches that meet standard 802.3af or 802.3at. A power supply via 24 V is also possible as an alternative to the PoE.
- The minimum band width amounts to 100 Mbit/s.

#### Notice

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- During selection, observe that the absolute total output on the PoE switch is adequate for all devices to be connected.
- Do not load the PoE switch to its limit.
- Include a power buffer of at least 20% when calculating the total output.

Device	Power supply: PoE switch	Power supply: Local	Consumption	Power consumption (W)
Audio IP	•	-	40 mA / 48 VDC	1.9
IP Touch Lite 7 (LAN+WiFi)	•	•	375 mA / 24 VDC	9.0
IP Touch 7 (LAN+WiFi)	•	•	280 mA / 24 VDC	6.72
IP Touch 7 (LAN+LAN)	•	•	440 mA / 24 VDC	10.6
IP Touch 10 (LAN+WiFi)	•	•	440 mA / 24 VDC	10.6
IP Touch 10 (LAN+LAN)	•	•	500 mA / 24 VDC	12.0
Mini Video Outdoor Station	•	•	350 mA / 24 VDC	8.4
IP Touch 5 Outdoor Station	•	•	450 mA / 24 VDC	10.8
IP Pushbutton Outdoor Station	•	•	450 mA / 24 VDC	10.8
IP Keypad Outdoor Station	•	•	500 mA / 24 VDC	12.0
SmartAP	•	•	375 mA / 24 VDC	9.0
Guard unit	•	•	260 mA / 24 VDC	6.2
IP Actuator	•	•	350 mA / 24 VDC	8.4
P Elevator Controller	•	•	60 mA / 24 VDC	1.4
Lift control relay module	-	•	250 mA / 24 VDC	6.0

Count	Device	Power consumption (W)
3	IP Touch 7 Lite (LAN+WiFi)	3*9,0=27.0
1	IP Touch 5 Outdoor Station	10.8
1	IP Actuator	8.4
	Total output	46.2

### Example for the selection of a PoE switch

#### Result

\*

Number of occupied ports:	5
Necessary total output:	46.2

#### **Recommendation:**

For the calculation of a reserve for the future, a PoE switch with 8 ports and a total output of 70 W is recommended for this example.

The individual consumption per port should not exceed the maximum total consumption of the entire PoE switch.

# 2 Overview of product range

# 2.1 Outdoor Stations

#### 2.1.1 Overview

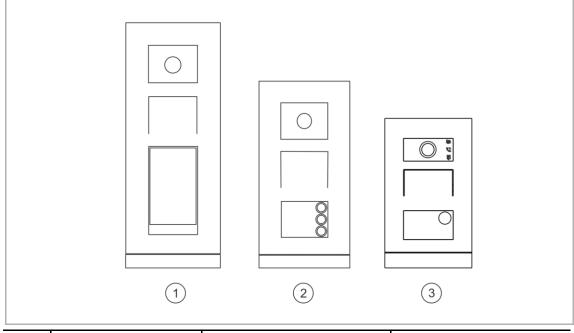
Welcome IP Outdoor Stations are installed in the outdoor areas as follow:

- Building entrances
- Perimeter areas
- Storey areas
- Apartment doors
- Basement garages

For the door call there is also a voice output aside from the classic doorbell buttons. The voice output can be activated as an option.

Outdoor Stations are always equipped with video function.

Outdoor Stations are available in the materials stainless steel and white, and aluminium.



No.	Article number	Product name	Abbreviation
1	H8138.T	IP Touch 5 Outdoor Station	IP Touch 5 OS
2	H81381P	IP Pushbutton Outdoor Station	IP Pushbutton OS
3	H8131.P/ H8136.P	Mini Video Outdoor Station	Mini OS

\*"Outdoor Station" is usually abbreviated to "OS".

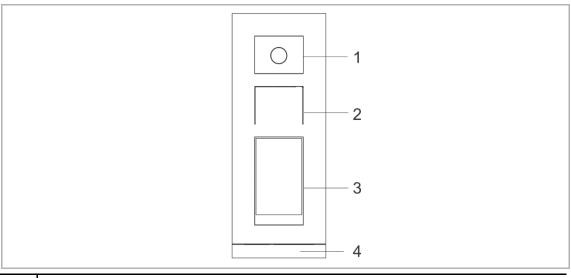
Туре	IP Touch 5 OS	IP Pushubtton OS	Mini OS - IC
Video image	720P	720P	VGA
Camera angle diagonal / horizontal / vertical	139° / 111° / 73°	139° / 111° / 73°	139° / 111° / 73°
Anti-mist camera	•	•	•
Automatic day/night switchover	•	•	•
Integrated status display via LED symbols (complies with DIN 18040).	•	•	•
Capacitive touch screen 5 inch	•	-	-
Virtual keypad	•	-	-
Programmable buttons	-	•	•
Detection of door status	•	•	•
Integrated lighting and automatic background illumination	•	•	•
Transfer of all calls to the Guard Unit	•	-	-
Support of lift control	•	•	-
Integrated RFID reader (MIFARE® DESFire® EV1 and EV2)	•	•	•
News and advertising via 5 inch monitor	•	-	-
Induction loop for persons with impaired hearing	•	•	-
Power supply via PoE (802.3af)	•	•	•
Local power supply	•	•	•
Surface-mounted installation	•	•	•
Flush-mounted installation	•	•	•
Cavity wall installation	•	•	•
Protection rating	IP 54	IP 54	IP 54
Safe against vandalism	IK 07	IK 07	IK 07
Remote firmware update	•	•	•

# 2.1.2 IP Touch 5 OS

# Device type

Article number Product ID		Product name	Colour	Size (WxHxD) Unit: mm
H81381T-S	2TMA130010X0009	IP Touch 5 Outdoor Station	Stainless steel	135 x 349 x 29
H81381T-W	2TMA130010W0013	IP Touch 5 Outdoor Station	White	135 x 349 x 29

#### **Control elements**



No.	Description
1	Camera
2	Speaker and microphone integration
3	5-inch touch display
4	End strip

# **Terminal description**

No.	Description
1	Reset button
2	Micro USB update connector
3	Plug-in clamps (DC+GND) for standalone power supply
4	Plug-in clamps (LOCKGND) for door opener
5	Plug-in clamps (COMNCNO) for floating output, door opener
6	LAN (PoE)
7	Connector for next module
8	Connector for exit button
9	Connector for the sensor used for door status detection
10	Connector for 5" display module
11	Connector for previous module
12	Connector for A/V module
13	Connector for Wiegand output It supports 26 bits and 34 bits

# **Technical data**

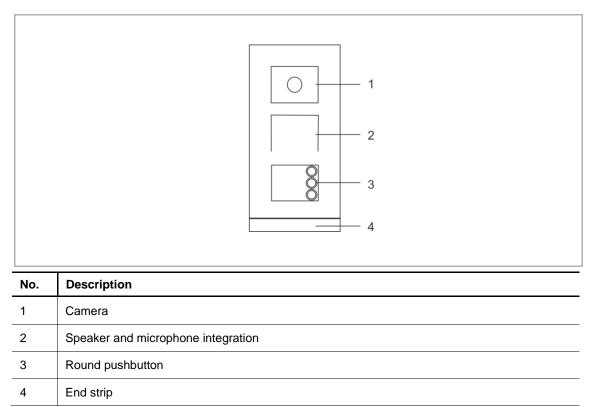
Designation	Value
Rating voltage	24 V =
Operating voltage range	20-27 V
Rating current	27 V, 410 mA 24 V, 450 mA
Operating temperature	-20 °C+55 °C
Camera type	CMOS
Camera viewing angle	130°
Resolution ratio	HD (1280 x 720 pixel)
Ambient brightness	<50000 Lux
Power supply for door opener	18 V, 4 A impulse, max. 250 mA holding
Floating output for door opener	230 V ~, 3 A 30 V –, 3 A
Video codec	H.264
Audio codec	G.711
IP level	IP 54
IK level	IK 07

# 2.1.3 IP Pushbutton OS

# Device type

Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
H81381P1-S	2TMA130010X0001	OS, IPpush, 1 gang	Stainless steel	135 x 277 x 29
H81381P2-S	2TMA130010X0002	OS, IPpush, 2 gang	Stainless steel	135 x 277 x 29
H81381P3-S	2TMA130010X0003	OS, IPpush, 3 gang	Stainless steel	135 x 277 x 29
H81381P1-W	2TMA130010W0021	OS, IPpush, 1 gang	White	135 x 277 x 29
H81381P2-W	2TMA130010W0025	OS, IPpush, 2 gang	White	135 x 277 x 29
H81381P3-W	2TMA130010W0029	OS, IPpush, 3 gang	White	135 x 277 x 29

### **Control elements**



# **Terminal description**

11 7	
No.	Description
1	Reset button
2	Micro USB update connector
3	Plug-in clamps (DC+GND) for standalone power supply
4	Plug-in clamps (LOCKGND) for door opener
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6	LAN (PoE)
7	Connector for next module
8	Connector for exit button
9	Connector for the sensor used for door status detection
10	Connector for 5" display module
11	Connector for previous module

# **Technical data**

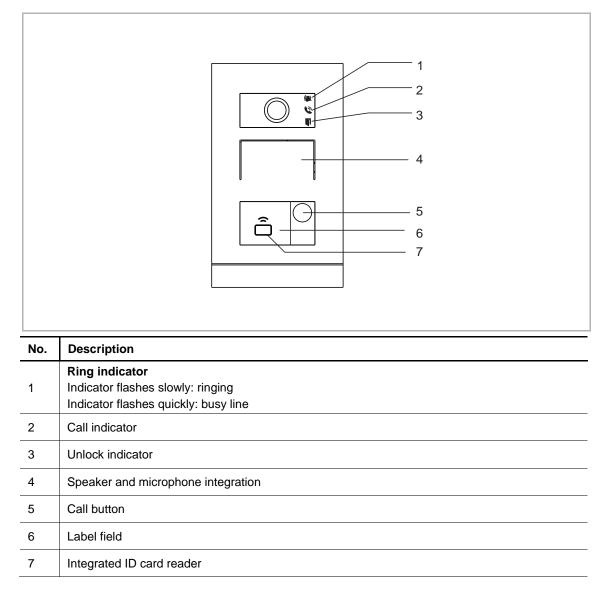
Designation	Value
Rating voltage	24 V DC
Operating voltage range	20-27 V DC
Rating current	27 V DC, 300 mA 24 V DC, 330 mA
Operating temperature	-40 °C+55 °C
Product dimensions	135mm x 276.9 mm × 17.6 mm
Camera type	CMOS
Camera viewing angle	130°
Resolution ratio	HD (1280 x 720 pixel)
Power supply for door opener	18 V, 4 A impulse, max. 250 mA holding
Floating output for door opener	230 V AC, 3 A 30 V DC, 3 A
Video codec	H.264
Audio codec	G.711
IP level	IP 54
IK level	IK 07

# 2.1.4 Mini OS

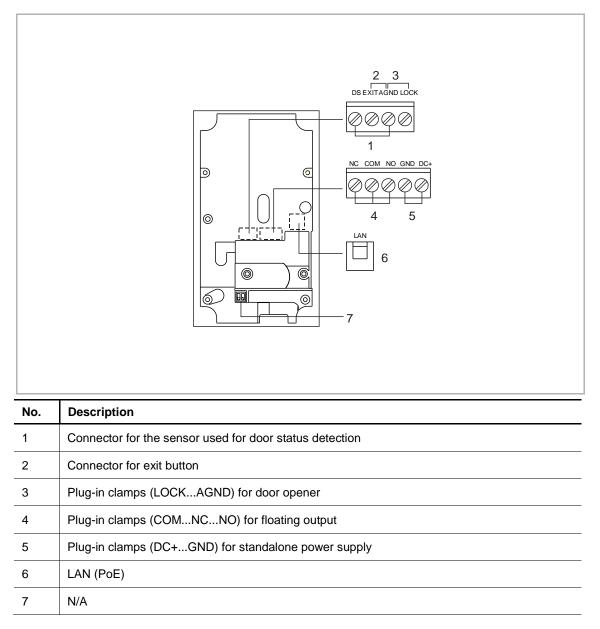
# Device type

Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
H81313P1-A	2TMA130010A0001	Mini video outdoor station, 1 gang, ID, SM	Aluminium alloy	99 x 168 x 26
H81313P2-A	2TMA130010A0004	Mini video outdoor station, 2 gang, ID, SM	Aluminium alloy	99 x 168 x 26
H81363P1-A	2TMA130010A0007	Mini video outdoor station, 1 gang, ID,FM	· · · · · · · · · · · · · · · · · · ·	
H81363P2-A	2TMA130010A0010	Mini video outdoor station, 2 gang, ID, FM	Aluminium alloy	105 x 180 x 43
H81364P1-A	2TMA130010A0013	Mini video outdoor station, 1 gang, FM	Aluminium alloy	99 x 168 x 26
H81316P1-A	2TMA130011A0003	Mini video outdoor station, 1 gang, IC/DESFire, SMAluminium alloy		99 x 168 x 26
H81316P2-A	2TMA130011A0004	Mini video outdoor station, 2 gang, IC/DESFire, SM	Aluminium alloy	105 x 180 x 43
H81366P1-A	2TMA130011A0005	Mini video outdoor station, 1 gang, IC/DESFire, FM	Aluminium alloy	105 x 180 x 43
H81366P2-A	2TMA130011A0006	Mini video outdoor station, 2 gang, IC/DESFire, FM	Aluminium alloy	105 x 180 x 43

# **Control elements**



# **Terminal description**



# **Technical data**

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V =
Rating current	27 V, 310 mA 24 V, 350 mA
Operating temperature	-40 °C…+55 °C
Product dimensions	99 mm x 168 mm x 26 mm (H8131.P) 105 mm x 180 mm x 43 mm (H8136.P)
Camera type	CMOS
Camera viewing angle	104°
Power supply for door opener	15 V -, 4A impulse, max. 250 mA holding
Floating output for door opener	30 V, 3 A
IP level	IP 54
IK level	IK 07
Network connection standard	IEEE802.3, 10/100 Mbps, auto MDI/MDI-X

#### 2.2 Indoor Stations

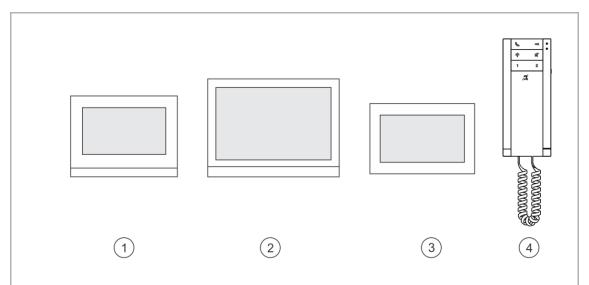
#### 2.2.1 Overview

The door call is signalled on the Indoor Station. Here the call is received and the door is opened when a visitor arrives. The camera image is displayed directly, to ensure that you immediately see who is at the door and you can communicate with the visitor.

As an option, a visitor can leave an audio message, if the function has been enabled on the Indoor Station.

The indoor stations can also be used with the intercom function for communication within and between apartments and buildings.

The integrated blacklist can be used to specify which calls are blocked automatically.



No.	Article number	Product name	Abbreviation
1	H8236	IP Touch 7	IP Touch 7
2	H8237	IP Touch 10	IP Touch 10
3	H8249	IP Touch Lite 7	IP Touch Lite 7
4	H82001-W	Audio IP	Audio IP

\*"Indoor Station" is usually abbreviated to "IS"

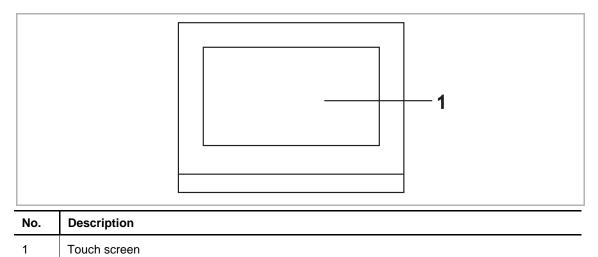
Туре	IP Touch 7	IP Touch 10	IP Touch Lite 7	Audio IP
Touchscreen	•	•	•	-
Extension on app without additional system equipment (prerequisite is an Internet connection)	•	•	•	-
Central operating field for DES, CCTV, AC and home automation (KNX & F@H)	•	•	-	-
Video doorbell via IP camera	•	•	•	-
LAN interface	•	•	•	•
Wi-Fi interface	•	•	•	-
Remote firmware update	•	•	•	•
Power supply via PoE (802.3af)	•	•	•	•
Local power supply	•	•	•	•
Surface-mounted installation	•	•	•	•
Flush-mounted installation	•	•	•	-
Cavity wall installation	•	•	•	-
Desktop installation	•	•	•	-
Call lists	•	•	•	-
Send an emergency call (SOS)	•	•	•	•
Support for surveillance of outdoor stations or IP cameras.	•	•	•	-
Support induction loop	•	•	-	-
Leave an audio message	•	•	-	-
Blacklist	•	•	-	-

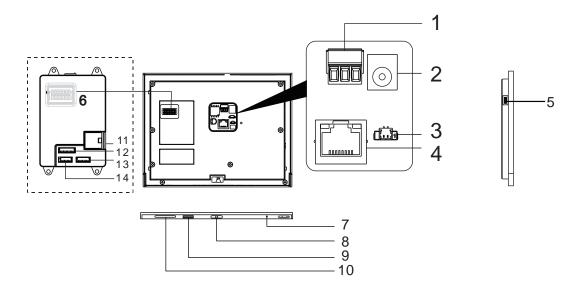
#### 2.2.2 IP Touch 7

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H8236-4B	2TMA130050B0065	IP Touch 7, DES+KNX+f@h+APP, LAN+WiFi, T-loop	Black	199 x 150 x 17
H8236-4W	2TMA130050W0065	IP Touch 7, DES+KNX+f@h+APP, LAN+WiFi, T-loop	White	199 x 150 x 17
H8236-5B	2TMA130050B0067	IP Touch 7, DES+KNX+f@h+APP, LAN+LAN, T-loop	Black	199 x 150 x 31
H8236-5W	2TMA130050W0067	IP Touch 7, DES+KNX+f@h+APP, LAN+LAN, T-loop	White	199 x 150 x 31

#### **Control elements**





No.	Description
1	Power input connector
2	Power input connector (DC-JACK input)
3	Doorbell connector
4	LAN1 (PoE)
5	Micro USB Upgrade connector
6	Extension module connector
7	Microphone
8	Dismantling switch
9	Micro SD card connector
10	Speaker
11	<sup>2</sup> LAN2
12	<sup>2</sup> Alarm connector
13	<sup>2</sup> RS485 connector, 12 V output, emergency port (SOS, GAS, fire)
14	<sup>2</sup> Relay output

<sup>2</sup> IP touch 7 (LAN+LAN)

Designation	Value
Rating voltage	24 V =
Operating voltage range	20-27 V
<sup>1</sup> Rating current	27 V, 250 mA 24 V, 280 mA
<sup>2</sup> Rating current	27 V, 390 mA 24 V, 440 mA
Display size	7"
Resolution	1024 x 600 px
Operating temperature	-10 °C +55 °C
PoE standard	IEEE802.3 af
<sup>2</sup> Alarm power output	12 V, 200 mA
<sup>2</sup> Relay output	30 V, 1 A
<sup>1</sup> Wireless transmission band	802.11b/g/n: 24122462MHz (for United States) 24122472MHz (for European countries) 802.11a/n: 51505250MHz 52505350MHz 54705725MHz (not used in Russia) 57255850MHz (for United States)
<sup>1</sup> Wireless transmission power	Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G
<sup>1</sup> Wireless transmission standard	IEEE 802.11 a/b/g/n

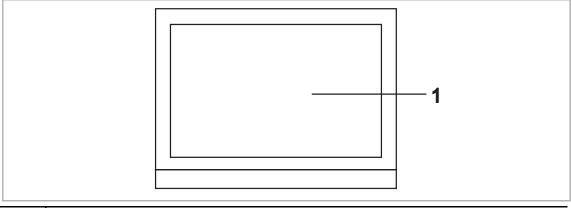
<sup>1</sup> IP touch 7 (LAN+WiFi) <sup>2</sup> IP touch 7 (LAN+LAN)

#### 2.2.3 IP Touch 10

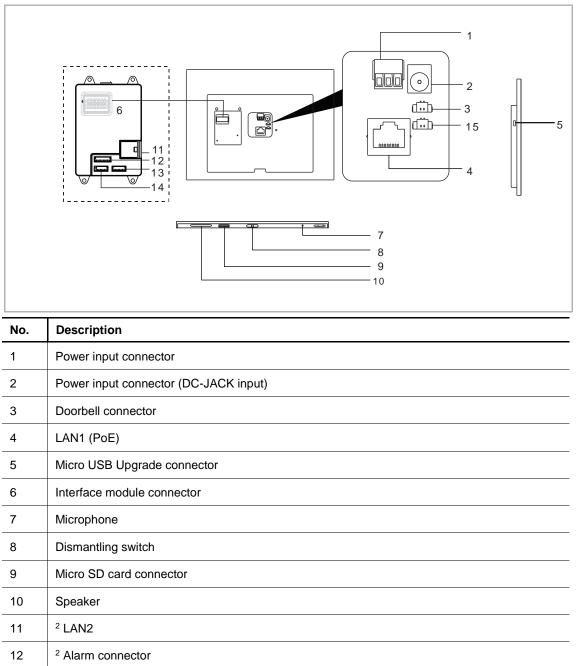
## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H8237-4B	2TMA130050B0054	IP Touch 10, DES+KNX+f@h+APP, LAN+WiFi, T-loop	Black	251 x 185 x 17
H8237-4W	2TMA130050W0054	IP Touch 10, DES+KNX+f@h+APP, LAN+WiFi, T-loop	White	251 x 185 x 17
H8237-5B	2TMA130050B0055	IP Touch 10, DES+KNX+f@h+APP, LAN+LAN, T-loop	Black	251 x 185 x 31
H8237-5W	2TMA130050W0055	IP Touch 10, DES+KNX+f@h+APP, LAN+LAN, T-loop	White	251 x 185 x 31

## **Control elements**



No.	Description
1	Touch screen



13	<sup>2</sup> RS485 connector, 12 V output (12 V output is not available when PoE powered)
14	<sup>2</sup> Relay output
15	N/A

<sup>2</sup> IP touch 10 (LAN+LAN)

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
<sup>1</sup> Rating current	27 V, 390 mA 24 V, 440 mA
<sup>2</sup> Rating current	27 V, 520 mA 24 V, 600 mA
Display size	10"
Resolution	1280 x 800 px
Operating temperature	-10 °C +55 °C
PoE standard	IEEE802.3 af
<sup>2</sup> Alarm power output	12 V –, 200 mA (12 V output is not available when PoE powered)
<sup>2</sup> Relay output	30 V, 1 A
<sup>1</sup> Wireless transmission band	802.11b/g/n: 24122462MHz (for United States) 24122472MHz (for European countries) 802.11a/n: 51505250MHz 52505350MHz 54705725MHz (not used in Russia) 57255850MHz (for United States)
<sup>1</sup> Wireless transmission power	Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G
<sup>1</sup> Wireless transmission standard	IEEE 802.11 a/b/g/n

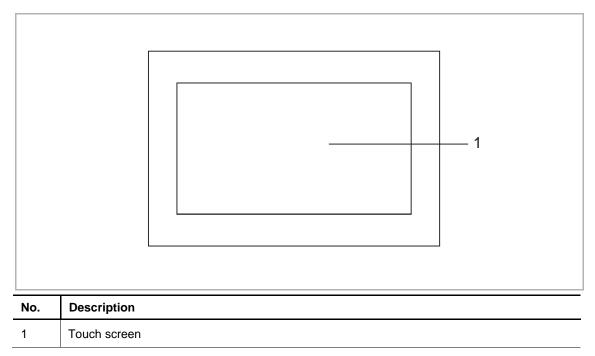
<sup>1</sup> IP touch 10 (LAN+WiFi) <sup>2</sup> IP touch 10 (LAN+LAN)

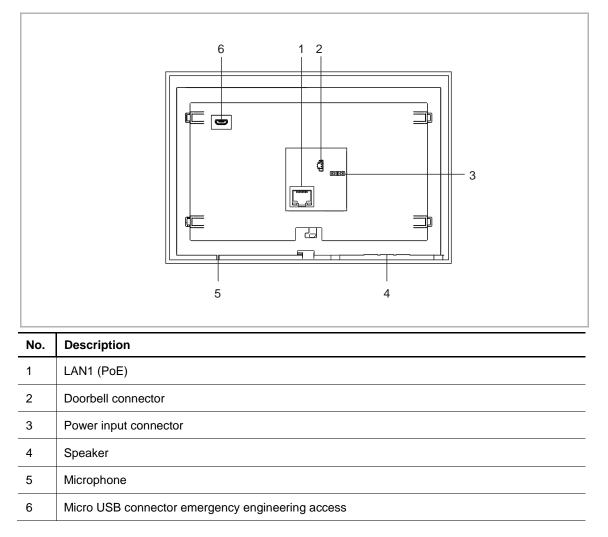
#### 2.2.4 IP Touch Lite 7

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H8249-1W	2TMA130051W0010	IP Touch Lite 7, DES+APP, LAN+WiFi	White	192 x 128 x 17.2
H8249-1B	2TMA130051B0009	IP Touch Lite 7, DES+APP, LAN+WiFi	Black	192 x 128 x 17.2

#### **Control elements**





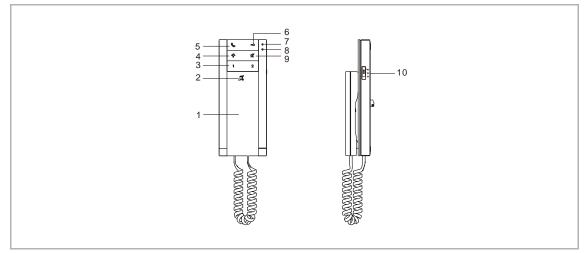
Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
Rating current	24 V, 375 mA
Display size	7"
Resolution	1024 x 600 px
Operating temperature	0 °C +45 °C
Storage temperature	-25 °C +70 °C
PoE standard	IEEE802.3 af
Wireless transmission band	802.11b/g/n: 24122462MHz (for United States) 24122472MHz (for European countries) 802.11a/n/ac: 51505250MHz 52505350MHz 54705725MHz 57255850MHz (for United States)
Wireless transmission power	Max. 20 dBm
Nireless transmission standard	IEEE 802.11 a/b/g/n/ac
Diameter of the cable thickness (3)	1.0 mm1.4 mm

#### 2.2.5 Audio IP

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H82001-W	2TMA130011W0001	Audio IP, induction loop	White	81 x 198 x 43

#### **Control elements**



No.	Description
1	<ul> <li>Handset</li> <li>During a call request, pick up the handset within 30 seconds to accept the call.</li> <li>During communication, hang up the handset to terminate the call.</li> </ul>
2	<ul> <li>Induction Loop symbol</li> <li>The device is equipped with a hearing loop for coupling the audio signal into hearing aids.</li> <li>To be able to use these hearing loops, the hearing aid must have what is known as a telephone coil (short: "T-coil") that records the magnetic alternating field of the hearing loop.</li> <li>The distance to the device should be a maximum of 80 cm for optimal reception.</li> </ul>
3	Programmable button         The button can be programmed on the SmartAP for the functions below:         Intercom to same unit (default)         Intercom to another unit         Call guard unit         Open door with Outdoor Station         Open door with IP Actuator         Turn on the designated light         SOS function
4	<ul> <li>Light button</li> <li>In standby status, press the button to turn on the designated light.</li> <li>In standby status, hold the button for 5 seconds to set the ringtone type.</li> <li>During communication, hold the button for 5 seconds to set the call volume.</li> </ul>

No.	Description
5	<ul> <li>Call button</li> <li>Pick up the handset in standby mode and press the button to communicate with other indoor stations within the same apartment (default setting). In doing so, all existing indoor stations within the apartment will be called simultaneously. In this case, the group call is stopped as soon as one of the indoor stations accepts the call.</li> <li>The button can be programmed on the SmartAP to Intercom to another unit or call guard unit.</li> </ul>
6	<ul> <li>Unlock button</li> <li>*In standby status, press the button to release the default lock of the default outdoor station. (A default outdoor station should be set on the SmartAP before use).</li> <li>In standby status, hold the button for 10 seconds to enable the "Automatic unlock" function. The LED (red) illuminates to indicate that the "Automatic unlock" function is enabled. The same operation will disable the "Automatic unlock" function and the LED (red) will turn off.</li> <li>* The "Automatic unlock" function means the door will be unlocked automatically during a call request. This function will be disabled automatically after 10 hours.</li> </ul>
7	LED (red)
8	LED (blue)
9	<ul> <li>Mute button</li> <li>In standby status, press the button to mute the ringtone.</li> <li>In standby status, hold the button for 3 seconds to mute the ringtone for all the indoor stations in the same apartment.</li> <li>During a call request, press the button to mute the ringtone.</li> <li>During communication, press the button to mute the microphone.</li> </ul>
10	Volume button Adjust the three-level selector (maximum/medium/low) to set the ringtone volume.

#### **LED Overview**

lcon	Description
•	Red LED always on
	Blue LED always on
	Red LED flashes slowly
$\mathbf{X}$	Blue LED flashes slowly
	Red LED flashes fast
	Blue LED flashes fast

## LED status

LED status	Description
•	"Auto-unlock" function is enabled.
	Mute the speaker or the microphone.
× *	Unsigned status or enters the setting mode.
X	During an incoming call.
	Operation failed.
*	Operation success.
¥ & ¥	IP address conflicts or network connection is not working properly.
*/*	Two LEDs flash alternative, update the firmware.

No.	Description
1	A potential-free contact, such as a doorbell
2	Micro SD card slot (only for factory use)

# 3 LAN (PoE), PoE is the only power supply for this device4 Reset button

Designation	Value
Rating voltage	48 V
Operating voltage	38-57 V
Rating current	48 V, 40 mA
Operating temperature	-10 °C+55 °C
Storage temperature	-25 °C+70 °C
PoE standard	IEEE802.3 af
IP level	IP 30
Size (DxHxW)	81 x 198 x 43 mm

#### 2.3 System devices

#### 2.3.1 Smart Access Point

\*"Smart Access Point" is usually abbreviated to "SmartAP".

The management software is installed on the SmartAP.

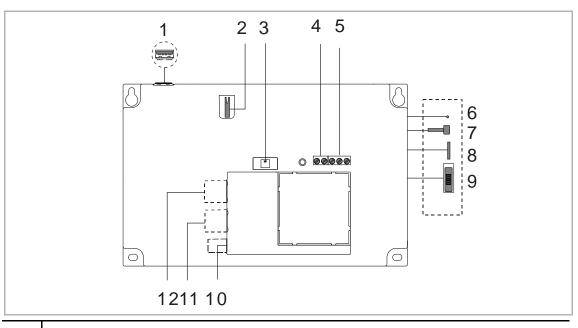
The SmartAP offers the access point for commissioning and managing the Welcome IP devices with a PC.

A total of 1200 devices can be supported by the SmartAP.

For opening the Web-based user interface of the SmartAP, you need a computer with a LAN or WLAN network adaptor and an installed Internet browser.

#### **Device type**

Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
D04011	2TMA400260W0002	SmartAP Pro	White	204 x 32 x 132



No.	Description	
1	USB stick connector (reserved)	
2	Tamper switchIt is used to prevent intruders breaking into the SmartAP. Once the front shell of the SmartAP is opened, a tamper alert will be sounded by the built-in speaker of the SmartAP.The tamper alert can be also set as the precondition and/or event in the "Action" function. Then it can be triggered together with other actions (e.g. pushing notification).	
3	(1) Status indicator LED	
4	Binary input (used to interact with other systems)	
5	Binary output (used to interact with other systems)	
6	Reset button           Within 2 minutes of powering on the SmartAP, press and hold the reset button for 10 seconds to reset the password of the first admin user and the password of AP mode.	
7	Switch on/off to activate/deactivate WiFi Access Point mode When WiFi Access Point mode is activated, Status indicator LED flashes red.	
8	Micro SD card connector (reserved)	
9	Security switch ON = The devices are not permitted to be added or deleted OFF = The devices are permitted to be added or deleted (default)	
10	Power input connector (DC-JACK input)	
11	LAN (PoE)	
12	LAN (reserved)	

## <sup>(1)</sup> Status indicator LED

Description	Blue	Red	Green	White	Priority
Reset to factory default				Flashing slowly	7 (Highest)
Alarm (e.g. tamper alarm)				Flashing quickly	6
Power on or initial setup				on	5
WiFi Access Point is enabled		Flashing slowly			4
Security mode is disabled		on			3
Doorbell is muted	on				2
Normal operation			on		1

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
Rating current	24 V, 375 mA
PoE standard	IEEE802.3 af
Wireless transmission band	802.11b/g/n: 24122462MHz (for United States) 24122472MHz (for European countries) 802.11a/n: 51505250MHz 52505350MHz 54705725MHz (not used in Russia) 57255850MHz (for United States)
Wireless transmission power	Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G
Wireless transmission standard	IEEE 802.11 a/b/g/n
Operating temperature	-10 °C+45 °C
Storage temperature	-25 °C+70 °C
IP level	IP 30
IK level	IK 05
Relay output	30 V, 1 A
Binary input	5 V, 1mA

#### Bluetooth data

Bluetooth standard	4.2
Frequency range	2.4022.480 GHz
TX power	Maximum 8 dBm
RX sensitivity	Minimum -92 dBm

#### 2.3.2 **Guard Unit**

For the Guard Unit a similar range of functions is available as for the Indoor Station. The concierge can transfer the call to an Indoor Station or assign the access authorisation himself. The ABB-Welcome® App function and Smart Home are not possible for the concierge station.

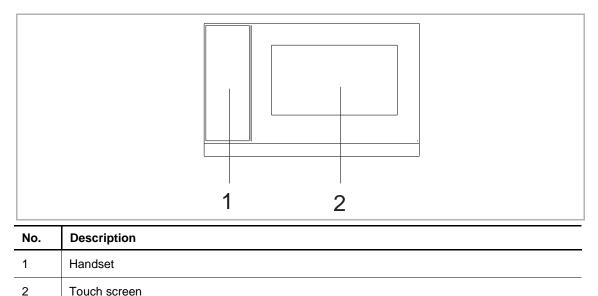
#### **Device type**

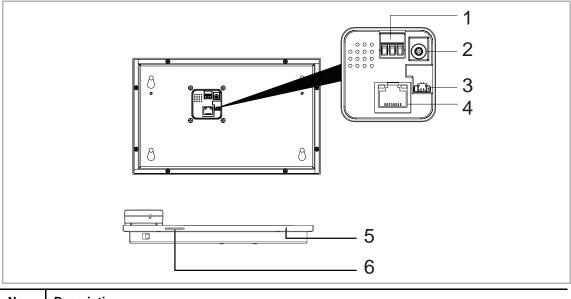
Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
H8303	2TMA130160W0018	Guard Unit	White	265 x 165 x 117

\*"Guard Unit" is usually abbreviated to "GU".

#### **Control elements**

Touch screen





No.	Description
1	Power input connector
2	Power input connector (DC-JACK input)
3	Fire control input (release all the locks in case of emergency)
4	LAN (PoE)
5	Microphone
6	Speaker

Designation	Value
Rating voltage	24 V DC
Operating voltage range	20-27 V DC
Rating current	27 V DC, 230 mA 24 V DC, 260 mA
Display size	7"
Resolution	1024 x 600 pixel
Product dimensions	265 mm × 165 mm × 115 mm
Operating temperature	-10 °C+55 °C
PoE standard	IEEE802.3 af
Network connection standard	IEEE 802.3, 10Base-T/100Base-TX, auto MDI/MDI-X

#### 2.3.3 IP Actuator

The "IP actuator" connects the door openers or the lighting, it carries out the switching commands.

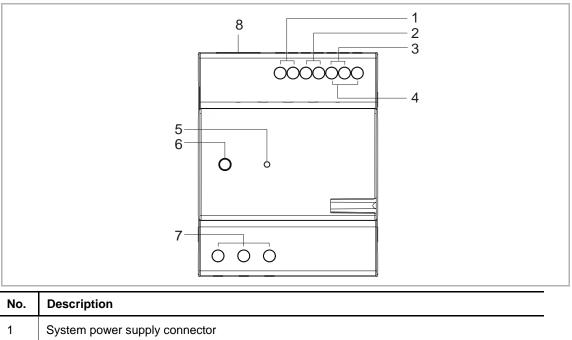
The settings e.g. the switching duration of the lock release or the switching on of the lighting can be made via the "Indoor Station" or the SmartAP.

#### **Device type**

Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
H8304	2TMA130160H0051	IP Actuator	Grey	65 x 72 x 90

\*"IP Actuator" is usually abbreviated to "IPA".

#### Terminal description



1	System power supply connector
2	Plug-in clamps (LOCK+LOCK-) for door opener
3	Connector for sensor used for door status detection
4	Connector for exit push-button
5	Reset button
6	Status indicator
7	Plug-in clamps (NCCOMNO) for floating output, door opener
8	LAN (PoE)

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
Rating current	27 V, 310 mA 24 V, 350 mA
Operating temperature	-25 °C+55 °C
Power supply for door opener	DC: 12 V, 4 A impulse, max. 500 mA holding AC: 12 V, 50 Hz, max. 500 mA holding
Signal unlocking	230 V ~, 3 A
Network connection standard	IEEE802.3, 10/100 Mbps, auto MDI/MDI-X

#### 2.3.4 IP Elevator Controller & Lift Control Relay Module

The "IP Elevator Controller" & "Lift Control Relay Module" together ensure that elevator only goes to authorised floor(s).

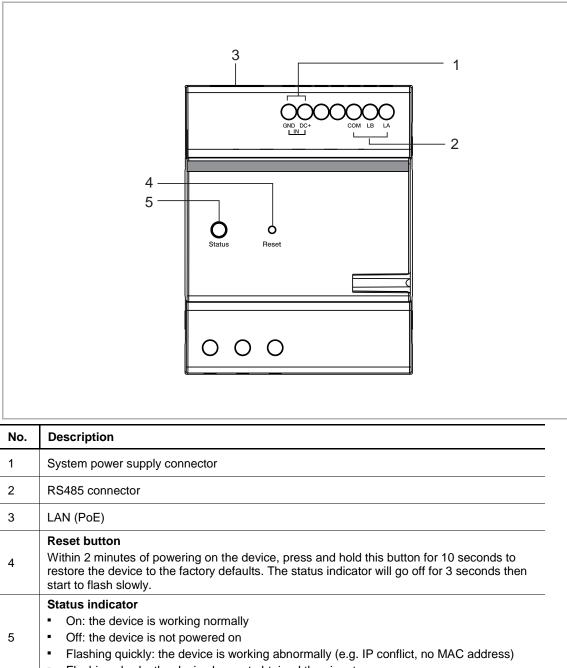
If a resident presses the "unlock" button when receiving a guest's call from the outdoor station, or the authorised user swipes the registered card or enters correct password, the elevator will automatically go down to the floor where the outdoor station is installed. The elevator will then go to the dedicated floor where the resident lives. It cannot go to unauthorised floors, even when other buttons are pressed.

The configuration could be done via the SmartAP.

#### **Device type**

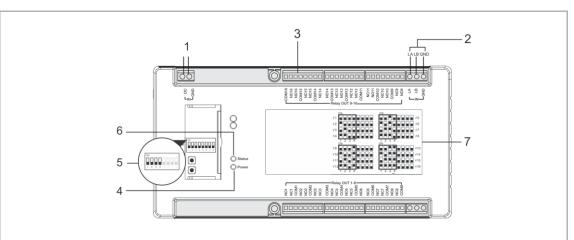
Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
H8308	2TMA130161W0003	IP Elevator Controller	Grey	65 x 72 x 90
M2307	2TMA070150N0044	Lift Control Relay Module	Grey	216 x 45 x 110

#### **Terminal description - IP Elevator Controller**



Flashing slowly: the device has not obtained the signature

## Terminal description - Lift Control Relay Module



No.	Description
1	Power supply connector
2	Elevator control module connector
3	Relay output Connect to the elevator keyboard
4	Power LED
5	Module address The module address can be set to 1-16 (only the left 4 bits are used).
6	Status LED Blinks when working normally
7	Product label           All 16 module address settings are displayed on the label.

### Technical data - IP Elevator Controller

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V =
Rating current	24 V -, 60 mA
Operating temperature	-20 °C+55 °C
Storage temperature	-20 °C+70 °C
PoE standard	IEEE802.3 af

## Technical data - Lift Control Relay Module

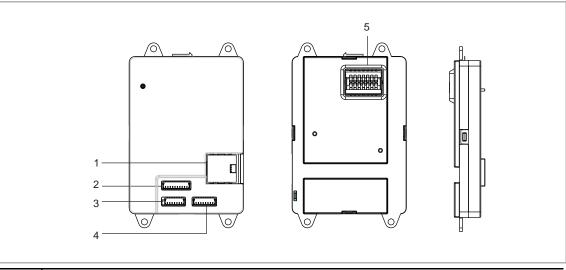
Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
Rating current	24 V, 250 mA
Operating temperature	-20 °C+55 °C
Storage temperature	-20 °C+70 °C

#### 2.3.5 Interface module

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
52361EX	2TMA130160B0136	Interface Module	-	16.5 x 60 x 82

## **Terminal description**



No.	Description
1	LAN2
2	Alarm input
3	Relay out *2
4	RS485 connector, 12 V output, emergency port (SOS, GAS, FIRE)
5	Connector for IP touch

Designation	Value	
Rating voltage	24 V =	
Operating voltage range	20-27 V ==	
Rating current	27 V, 150 mA	
	24 V <del></del> , 170 mA	
Operating temperature	-10 °C+55 °C	
Power supply output	12 V, 200 mA	
Relay output	24 V =, 1 A	

Overview of product range

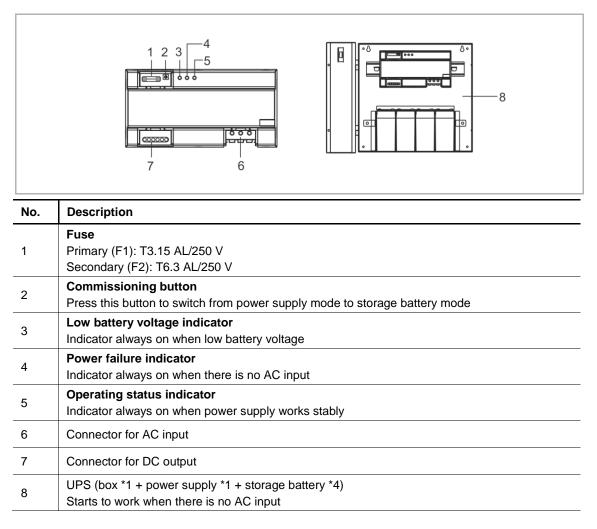
#### 2.3.6 Power Supply

Power supply supplies the power for the devices on the system.

#### **Device type**

Article number	Product ID	Product name	Colour	Size (WxHxD) Unit: mm
YSM01-PS	2TMA130160H0085	Power supply, MDRC, 27VDC	Grey	178 x 64.5 x 90

#### **Terminal description**



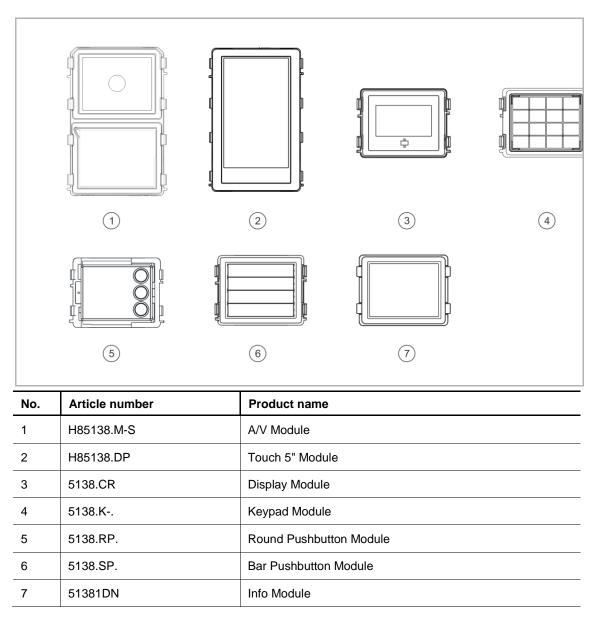
Designation	Value	
AC input	100-240 V ~, 1.3 A, 50/60 Hz	
DC output	27 V =, 3 A	
Operating temperature	-25 °C+55 °C	
Ambient humidity	≤93% RH, without condensation	
IP level	IP 30	
Product dimensions	175 mm × 90 mm × 65 mm	
Indication threshold value (when battery voltage is low)	22±0.5 V	
Protection threshold value (when battery is over-discharged)	20±0.5 V	

## Regulated lead acid storage battery data

Designation	Value
Rated capacity	4 AH
Rating voltage	6 V
Overall dimensions	70 mm x 105 mm x 47 mm
Float charge voltage	6.86.9 V, maximum charging current is 1 A (25°C)
Cycle charge voltage	7.27.4 V, maximum charging current is 640 mA (25°C)
Discharging ceased	Discharging 20 hours (5.4 V –, 225 mA) Discharging 27 minutes (4.8 V –, 4.5 A)
	Charging will be started immediately after discharging is completed.

### 2.4 Outdoor Station Modules

#### 2.4.1 Overview

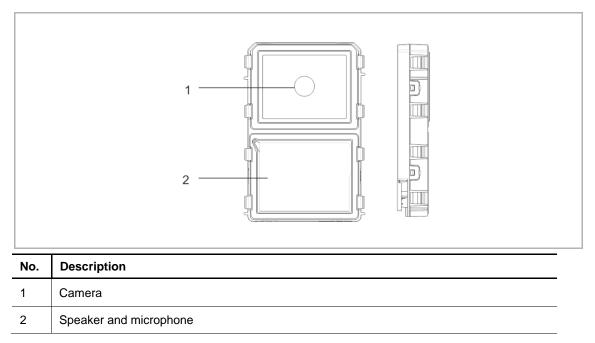


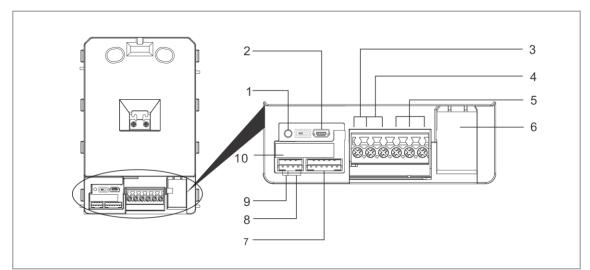
#### 2.4.2 A/V Module

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H851381M- S	2TMA130160B0081	A/V Module	-	96 x 143 x 28

#### **Control elements**





No.	Description
1	Reset button
2	Micro USB update connector
3	Plug-in clamps (DC+GND) for standalone power supply
4	Plug-in clamps (LOCKGND) for door opener
5	Plug-in clamps (COMNCNO) for floating output
6	Network connector (PoE)
7	Connector for next module
8	Connector for exit button
9	Connector for the sensor used for door status detection
10	Connector for big display module

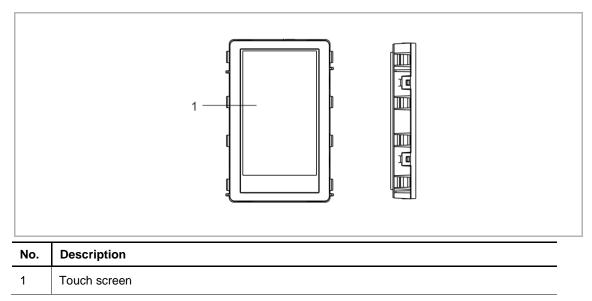
Designation	Value
Rating voltage	24 V ==
Operating voltage range	20-27 V
Rating current	27 V, 290 mA 24 V, 320 mA
Operating temperature	-40 °C+55 °C
Camera type	CMOS
Camera viewing angle	130°
Resolution	HD (1280 x 720 pixel)
Power supply for door opener	18 V -, 4 A impulse, max. 250 mA holding
Floating output for door opener	230 V ~, 3 A 30 V =, 3 A
Video codec	H.264
Audio codec	G.711

#### 2.4.3 Touch 5" Module

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H851381DP	2TMA130160B0082	Touch 5" Module	-	96 x 143 x 23

#### **Control elements**



	2		
	3		
No.	Description		
1	Connector for previous module		
2	Connector for A/V module		
3			
-	Connector for Wiegand output It supports 26 bits and 34 bits		

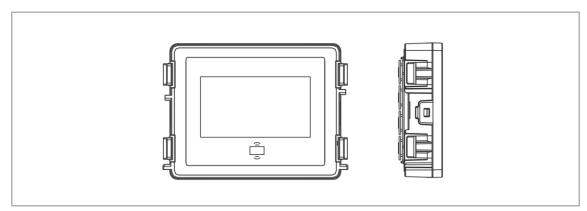
Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V =
Rating current	27 V, 120 mA 24 V, 130 mA
Operating temperature	-20 °C+55 °C
Ambient brightness	<50000 Lux
Frequency range	13.56MHz
Maximum power	≤-0.2 dBµA/m @ 3m

## 2.4.4 Display Module

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381CR	2TMA130160N0010	Display Module, ID	-	97 x 72 x 25
51382CR	2TMA130160N0009	Display Module, Desfire/IC	-	97 x 72 x 25

#### **Control elements**



# **Terminal description**

No.	Description	

NO.	Description
1	Program button
2	Connector for previous module
3	Connector for device software update
4	Connector for Wiegand output It supports 26 bits and 34 bits
5	Connector for next module

## **Technical data**

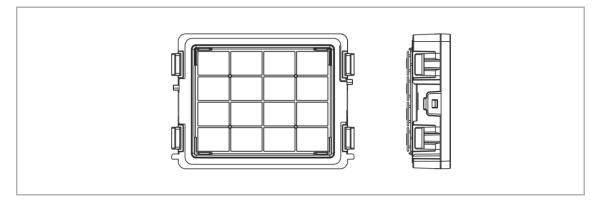
Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
Rating current	27 V, 145 mA 24 V, 160 mA
Operating temperature	-40 °C+55 °C
Frequency range (ID)	125KHz
Maximum power (ID)	≤-3.19 dBµA/m @ 3m
Frequency range (IC)	13.56MHz
Maximum power (IC)	≤-4.75 dBµA/m @ 3m

# 2.4.5 Keypad Module

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381K-A	2TMA210160A0009	Keypad Module	Aluminium	97 x 72 x 25
51381K-S	2TMA130160X0001	Keypad Module	Stainless steel	97 x 72 x 25
51381K-W	2TMA130010W0014	Keypad Module	White	97 x 72 x 25

#### **Control elements**



# **Terminal description**

No.	Description
1	Program button
2	Connector for previous module
-	·

4	Micro USB update connector
5	Connector for next module

#### **Technical data**

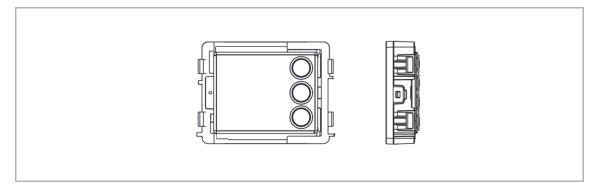
Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V =
Rating current	27 V, 20 mA 24 V, 20 mA
Operating temperature	-40 °C…+55 °C

#### 2.4.6 Round Pushbutton Module

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381RP1	2TMA130160N0003	Round Pushbutton Module, 1 button	-	97 x 72 x 25
51381RP2	2TMA130160N0004	Round Pushbutton Module, 2 button	-	97 x 72 x 25
51381RP3	2TMA130160N0005	Round Pushbutton Module, 3 button	-	97 x 72 x 25
51382RP1	2TMA130160N0006	Round Pushbutton Module, 1 button, Desfire/IC	-	97 x 72 x 25
51382RP2	2TMA130160N0007	Round Pushbutton Module, 2 button, Desfire/IC	-	97 x 72 x 25
51382RP3	2TMA130160N0008	Round Pushbutton Module, 3 button, Desfire/IC	-	97 x 72 x 25

## **Control elements**



# **Terminal description**

51381RP.	51382RP.
2	2

No.	Description
1	Connector for previous module
2	Connector for next module
3	Program button
4	Connector for device software update
5	<sup>2</sup> Connector for Wiegand output It supports 26 bits and 34 bits

<sup>2</sup> 51382RP

#### **Technical data**

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
1 Rating current	27 V, 10 mA 24 V, 10 mA
2 Rating current	27 V, 35 mA 24 V, 40 mA
Operating temperature	-40 °C+55 °C
2 Frequency range	13.56MHz
2 Maximum power	≤0 dBµA/m @ 3m

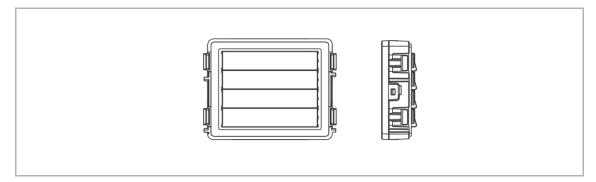
<sup>1</sup> 51381RP. <sup>2</sup> 51382RP.

#### 2.4.7 Bar Pushbutton Module

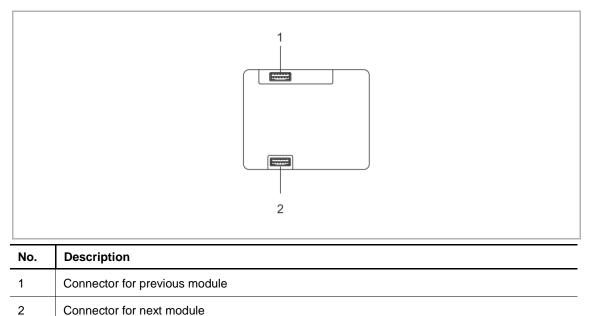
## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381SP3	2TMA130160N0001	Bar Pushbutton Module, 3/6 buttons	-	97 x 72 x 25
51381SP4	2TMA130160N0002	Bar Pushbutton Module, 4/8 buttons	-	97 x 72 x 25

## **Control elements**



# **Terminal description**



#### **Technical data**

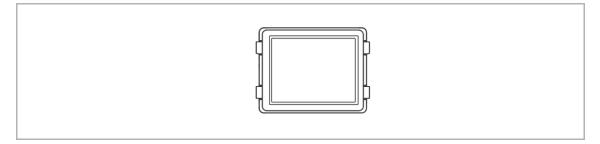
Designation	Value
Rating voltage	24 V =
Operating voltage range	20-27 V =
Rating current	27 V, 8 mA 24 V, 8 mA
Operating temperature	-40 °C+55 °C

#### 2.4.8 Info Module

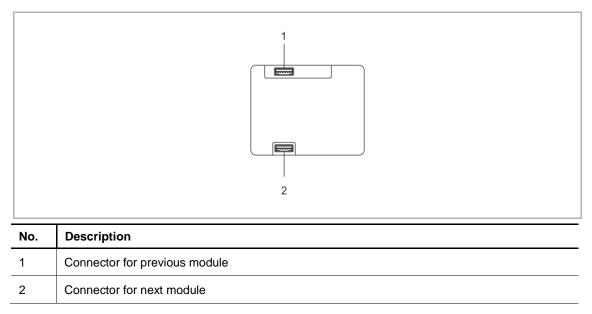
#### Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381DN	2TMA200160N0039	Info Module	-	97 x 72 x 25

#### **Control elements**



## **Terminal description**



#### **Technical data**

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V ==
Rating current	27 V, 8 mA 24 V, 8 mA
Operating temperature	-40 °C+55 °C

Overview of product range

#### 2.5 Installation materials

#### 2.5.1 Video Outdoor Station frame

#### Overview

4

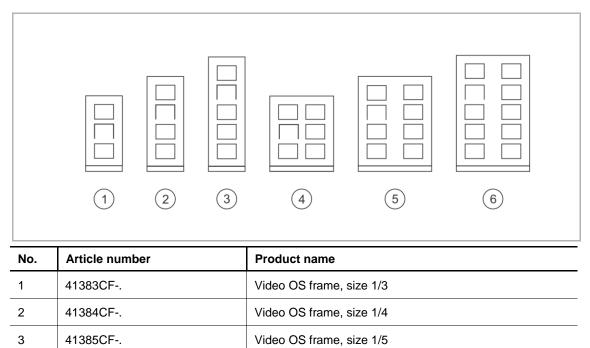
5

6

41386CF-.

41388CF-.

413810CF-.



Video OS frame, size 2/3

Video OS frame, size 2/4

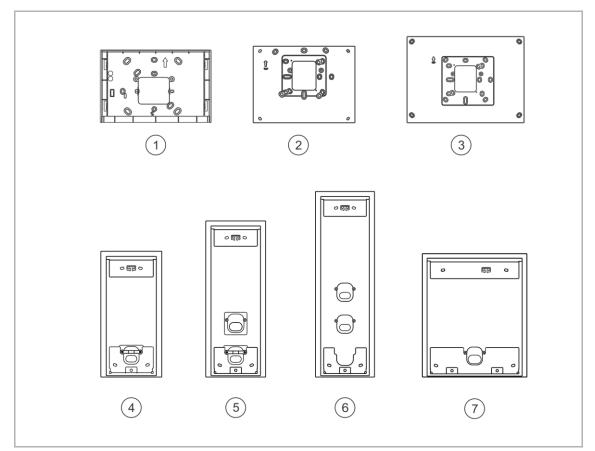
Video OS frame, size 2/5

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
41383CF-A	2TMA200160A0003	Video OS frame, size 1/3	Aluminium	135 x 277 x 20.5
41384CF-A	2TMA200160A0005	Video OS frame, size 1/4	Aluminium	135 x 349 x 20.5
41385CF-A	2TMA200160A0007	Video OS frame, size 1/5	Aluminium	135 x 421 x 20.5
41386CF-A	2TMA200160A0009	Video OS frame, size 2/3	Aluminium	235 x 277 x 20.5
41388CF-A	2TMA220161A0010	Video OS frame, size 2/4	Aluminium	235 x 349 x 20.5
413810CF-A	2TMA220161A0011	Video OS frame, size 2/5	Aluminium	235 x 421 x 20.5
41383CF-B	2TMA220161B1004	Video OS frame, size 1/3	Anthracite	135 x 277 x 20.5
41384CF-B	2TMA220161B1005	Video OS frame, size 1/4	Anthracite	135 x 349 x 20.5
41385CF-B	2TMA220161B1006	Video OS frame, size 1/5	Anthracite	135 x 421 x 20.5
41383CF-S	2TMA130160X0004	Video OS frame, size 1/3	Stainless steel	135 x 277 x 20.5
41384CF-S	2TMA130160X0005	Video OS frame, size 1/4	Stainless steel	135 x 349 x 20.5
41385CF-S	2TMA130160X0006	Video OS frame, size 1/5	Stainless steel	135 x 421 x 20.5
41386CF-S	2TMA130160X0007	Video OS frame, size 2/3	Stainless steel	235 x 277 x 20.5
41383CF-W	2TMA130160W0002	Video OS frame, size 1/3	White	135 x 277 x 20.5
41384CF-W	2TMA130160W0003	Video OS frame, size 1/4	White	135 x 349 x 20.5
41385CF-W	2TMA130160W0004	Video OS frame, size 1/5	White	135 x 421 x 20.5

# Device type

#### 2.5.2 Surface-mounted box

#### Overview



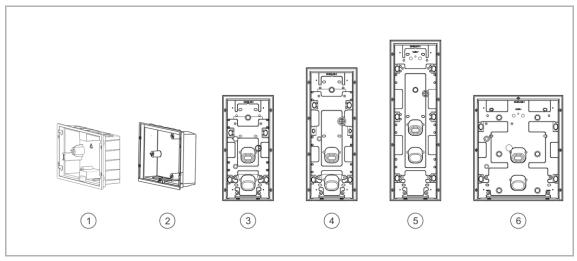
No.	Article number	Product name
1	42491S	Surface-mounted box for IP Touch Lite 7
2	42361S	Surface-mounted box for IP Touch 7
3	42371S	Surface-mounted box for IP Touch 10
4	41383S	Surface-mounted box for OS, size 1/3
5	41384S	Surface-mounted box for OS, size 1/4
6	41385S	Surface-mounted box for OS, size 1/5
7	41386S	Surface-mounted box for OS, size 2/3

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H8249-1W	2TMA130051W0010	Surface-mounted box for IP Touch Lite 7	White	188 x 123 x 14
H8249-1B	2TMA130051B0009	Surface-mounted box for IP Touch Lite 7	Black	188 x 123 x 14
42361S-W	2TMA130160W0017	Surface-mounted box for IP Touch 7	White	197 x 148 x 12.7
42361S-B	2TMA130160B0080	Surface-mounted box for IP Touch 7	Black	197 x 148 x 12.7
42371S-W	2TMA130161W0001	Surface-mounted box for IP Touch 10	White	221 x 251 x 13.5
42371S-B	2TMA130161B0001	Surface-mounted box for IP Touch 10	Black	221 x 251 x 13.5
41383S-B	2TMA130160B0011	Surface-mounted box for OS, size 1/3	Anthracite	133 x 275 x 32
41384S-B	2TMA130160B0012	Surface-mounted box for OS, size 1/4	Anthracite	133 x 347 x 32
41385S-B	2TMA130160B0013	Surface-mounted box for OS, size 1/5	Anthracite	133 x 419 x 32
41386S-B	2TMA130160B0014	Surface-mounted box for OS, size 2/3	Anthracite	233 x 275 x 32
41383S-H	2TMA130160H0011	Surface-mounted box for OS, size 1/3	Grey	133 x 275 x 32
41384S-H	2TMA130160H0012	Surface-mounted box for OS, size 1/4	Grey	133 x 347 x 32
41385S-H	2TMA130160H0013	Surface-mounted box for OS, size 1/5	Grey	133 x 419 x 32
41386S-H	2TMA130160H0014	Surface-mounted box for OS, size 2/3	Grey	233 x 275 x 32

# Device type

#### 2.5.3 Flush-mounted box

#### Overview



No.	Article number	Product name
1	42491F	Flush-mounted box for IP Touch Lite 7
2	42361F	Flush-mounted box for IP Touch 7/10
3	41383F	Flush-mounted box for OS, size 1/3
4	41384F	Flush-mounted box for OS, size 1/4
5	41385F	Flush-mounted box for OS, size 1/5
6	41386F	Flush-mounted box for OS, size 2/3

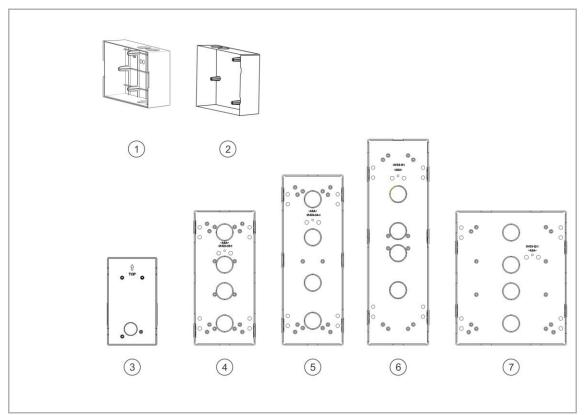
Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
42491F	2TMA320161B0002	*Flush-mounted box for IP Touch Lite 7	Black	178 x 108 x 52
42361F	2TMA130160B0132	*Flush-mounted box for IP Touch 7/10	-	194 x 145 x 55
42361F-04	2TMA130160B0135	*Flush-mounted box for IP Touch 7/10	-	194 x 145 x 55
41383F-B	2TMA130160B0003	Flush-mounted box for OS, size 1/3	Anthracite	133 x 275 x 52
41384F-B	2TMA130160B0004	Flush-mounted box for OS, size 1/4	Anthracite	133 x 347 x 52
41385F-B	2TMA130160B0005	Flush-mounted box for OS, size 1/5	Anthracite	133 x 419 x 52
41386F-B	2TMA130160B0006	Flush-mounted box for OS, size 2/3	Anthracite	233 x 275 x 52
41383F-H	2TMA130160H0003	Flush-mounted box for OS, size 1/3	Grey	133 x 275 x 52
41384F-H	2TMA130160H0004	Flush-mounted box for OS, size 1/4	Grey	133 x 347 x 52
41385F-H	2TMA130160H0005	Flush-mounted box for OS, size 1/5	Grey	133 x 419 x 52
41386F-H	2TMA130160H0006	Flush-mounted box for OS, size 2/3	Grey	233 x 275 x 52

## Device type

\*IP Touch Lite 7, IP Touch 7 & IP Touch 10 integrated the flush-mounted box with the preinstallation box in the package.

# 2.5.4 Pre-mounting box

#### Overview



No.	Article number	Product name
1	42491F	Pre-installation box for IP Touch Lite 7
2	42361F	Pre-installation box for IP Touch 7/10
3	41361F	Pre-installation box for mini OS
4	41383F	Pre-installation box for OS, size 1/3
5	41384F	Pre-installation box for OS, size 1/4
6	41385F	Pre-installation box for OS, size 1/5
7	41386F	Pre-installation box for OS, size 2/3

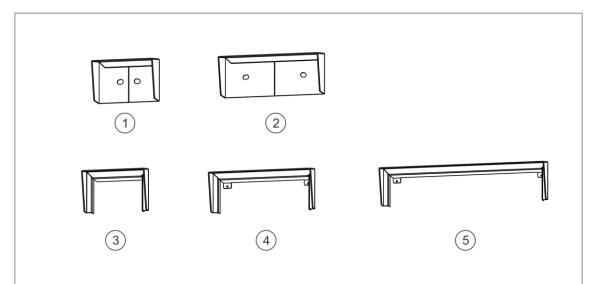
Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
42491F	2TMA320161B0002	Pre-installation box for IP Touch Lite 7	Black	178 x 108 x 52
42361F	2TMA130160B0132	Pre-installation box for IP Touch 7/10	-	194 x 145 x 55
42361F-02	2TMA130160B0133	Pre-installation box for IP Touch 7/10	-	194 x 145 x 55
42361F-04	2TMA130160B0135	Pre-installation box for IP Touch 7/10	-	194 x 145 x 55
41361F	2TMA110010N0001	Pre-installation box for Mini OS	-	98 x 174 x 45
41383PB	2TMA130160B0019	Pre-installation box for OS, size 1/3	-	124 x 271 x 64.5
41384PB	2TMA130160B0020	Pre-installation box for OS, size 1/4	-	124 x 343 x 64.5
41385PB	2TMA130160B0021	Pre-installation box for OS, size 1/5	-	124 x 415 x 64.5
41386PB	2TMA130160B0022	Pre-installation box for OS, size 2/3	-	224 x 271 x 64.5

## Device type

\*IP Touch Lite 7, IP Touch 7 & IP Touch 10 integrated the flush-mounted box with the preinstallation box in the package.

#### 2.5.5 Rain hood

#### Overview



No.	Article number	Product name
1	41383RH	Rain hood, size 1/x, for SM
2	41384RH	Rain hood, size 2/x, for SM
3	41381RH	Rain hood, size 1/x, for FM
4	41382RH	Rain hood, size 2/x, for FM
5	41385RH	Rain hood, size 3/x, for FM

## Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
41383RH	2TMA130160A0009	Rain hood, size 1/x, for SM	Aluminium alloy	143 x 98 x 68
41384RH	2TMA130160A0010	Rain hood, size 2/x, for SM	Aluminium alloy	243 x 98 x 68
41381RH	2TMA130160A0001	Rain hood, size 1/x, for FM	Aluminium alloy	143 x 98 x 83
41382RH	2TMA130160A0002	Rain hood, size 2/x, for FM	Aluminium alloy	243 x 98 x 83
41385RH	2TMA130160A0017	Rain hood, size 3/x, for FM	Aluminium alloy	416 x 98 x 83

#### Note

Please note that the rain hoods mentioned above are not available for sale in Germany.

Ο

#### 2.6 Accessories

## Device type

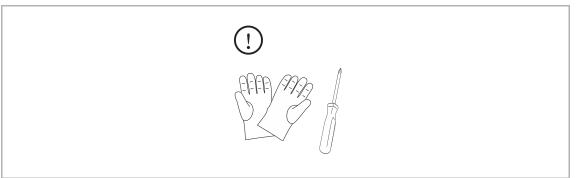
Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381EP-S	2TMA130160X0002	End-strip, size 1/x	Stainless steel	135 x 19 x 16
51382EP-S	2TMA130160X0003	End-strip, size 2/x	Stainless steel	235 x 19 x 16
51381EP-W	2TMA130160W0001	End-strip, size 1/x	White	135 x 19 x 16
51381MT	2TMA130160B0025	Mounting tool, 135mm	Aluminium alloy	165 x 26 x 4

# 3 Installation guidelines

#### 3.1 Outdoor Stations

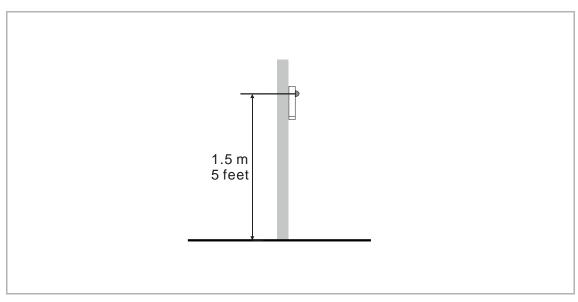
#### 3.1.1 Preparation

Please use gloves to protect yourself against cuts.



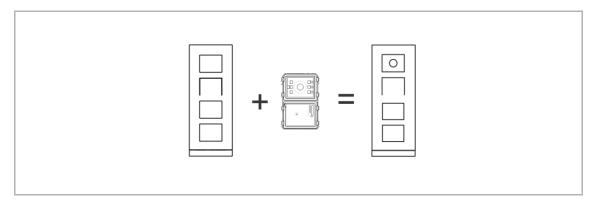
## 3.1.2 Installation height

(unit: mm)

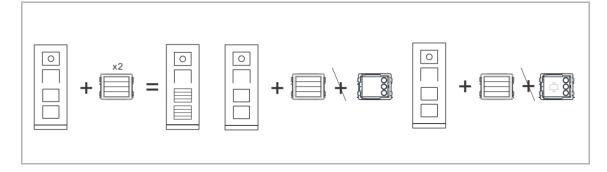


#### 3.1.3 The rule of assembled modules

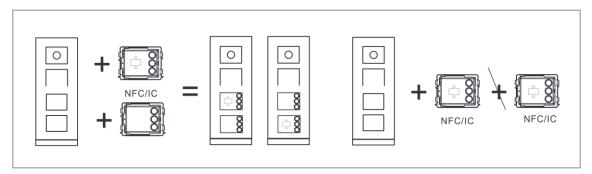
#### Rule 1: A/V module should be placed on the top.

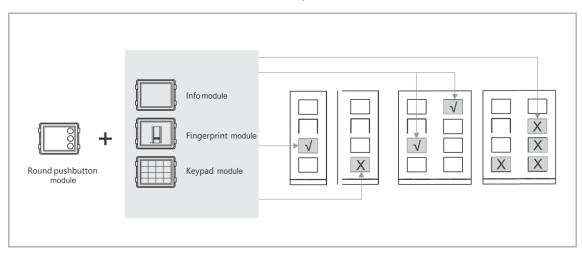


#### Rule 2: Bar pushbutton module cannot work with round pushbutton module



#### Rule 3: Only supports 1 Round pushbutton module with NFC





Rule 4: When other module works with Round pushbutton module

## 3.1.4 Installation overview

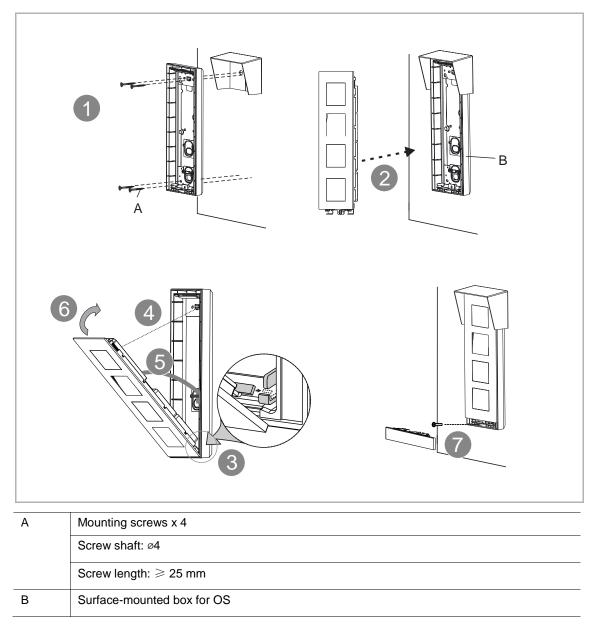
Outdoor Station type	Installation type
	Surface-mounted installation
<sup>1</sup> Single column OS	Flush-mounted installation in solid walls
	Flush-mounted installation in hollow walls
<sup>2</sup> Multiple columns OS	Flush-mounted installation in solid walls
	Surface-mounted installation
Mini OS	Flush-mounted installation in solid walls
	Flush-mounted installation in hollow walls

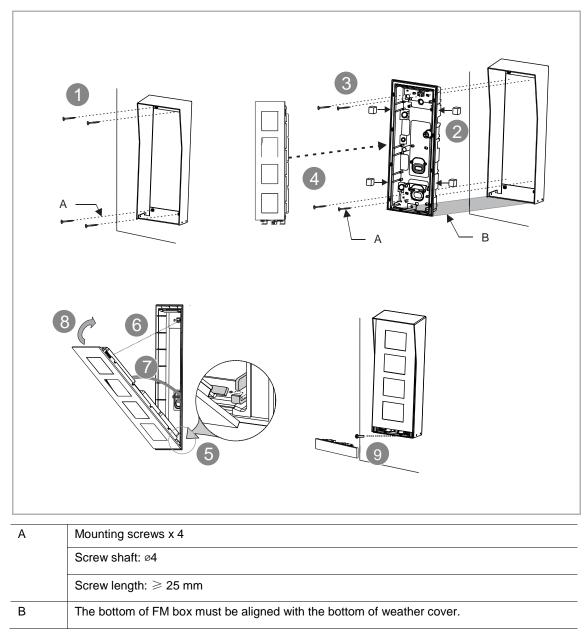
 $^{\rm 1}$  Single column OS contains IP Touch 5 OS, IP pushbutton OS , IP keypad OS and other Outdoor Stations assembled with customised modules.

<sup>2</sup> Multiple columns OS contains the Outdoor Stations assembled with customised modules.

# 3.1.5 Single column OS

#### Surface-mounted installation with surface-mounted box

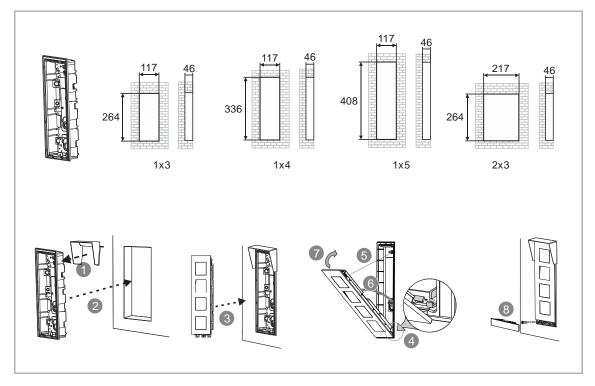




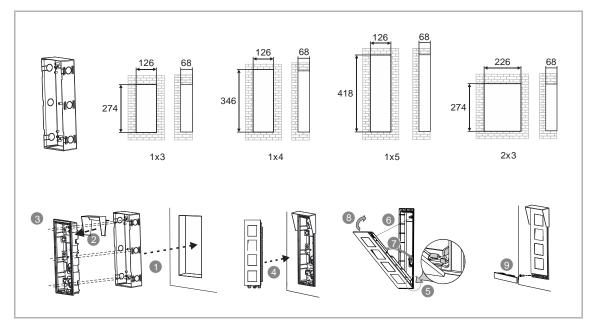
## Surface-mounted installation with flush-mounted box

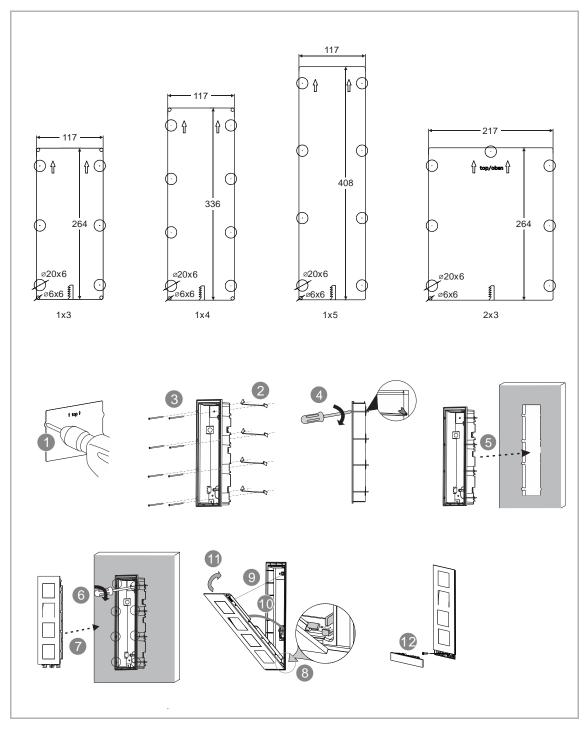
## Flush-mounted installation in solid walls

1. Without the pre-installation box



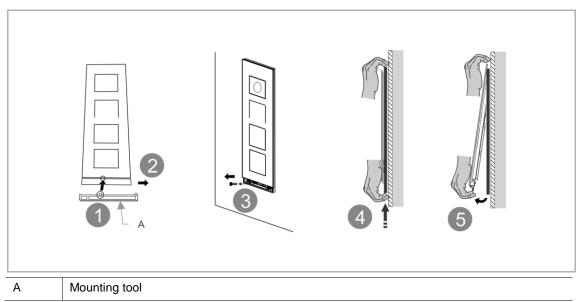
2. With the pre-installation box



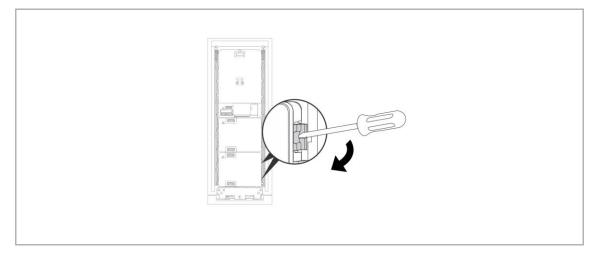


## Flush-mounted installation in hollow walls

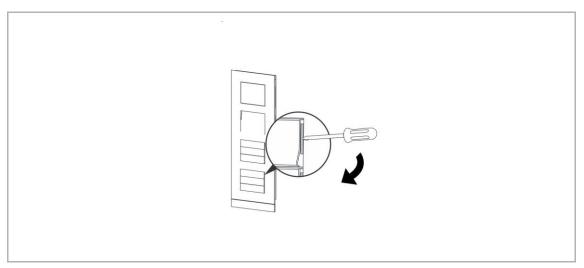
# Dismantling single column OS



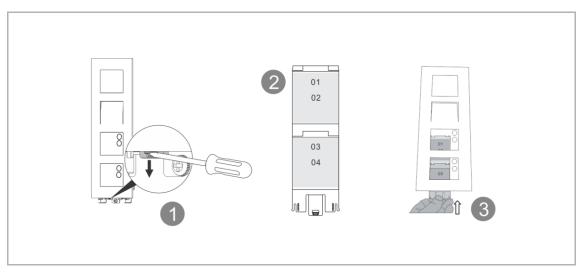
## Dismantling the modules



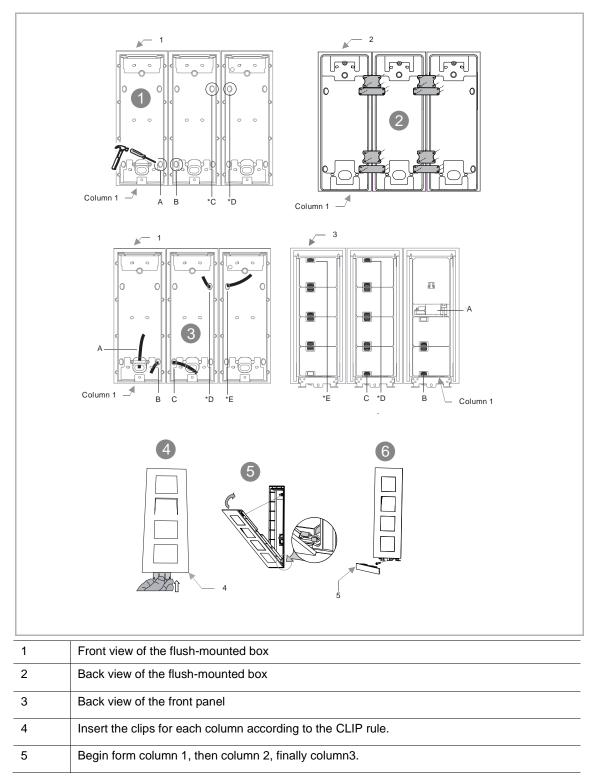
# Dismantling the name label



# Replacing the name plate



## 3.1.6 Multiple columns OS



#### Flush-mounted installation in solid wall without pre-installation boxes

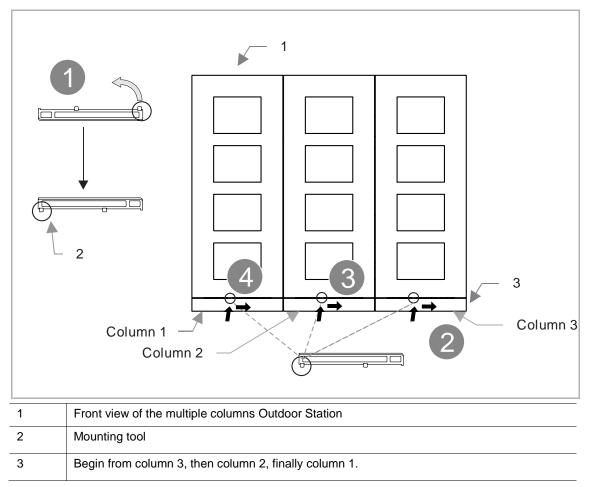
\*applies to 3-column Outdoor Station only

	$Column 1 \xrightarrow{B_{C}}^{1}$	
1	Front view of the pre-installation boxes	
2	Back view of the pre-installation boxes	
3	Front view of the flush-mounted boxes	
4	Back view of the front panel	
5	Lock the flush-mounted boxes onto the pre-installation boxes.	
6	Insert the clips for each column according to the CLIP rule.	

## Flush-mounted installation in solid wall with pre-installation boxes

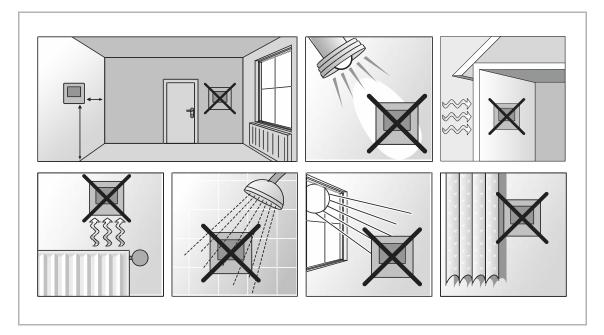
\*applies to 3-column Outdoor Station only





## 3.2 Indoor Stations

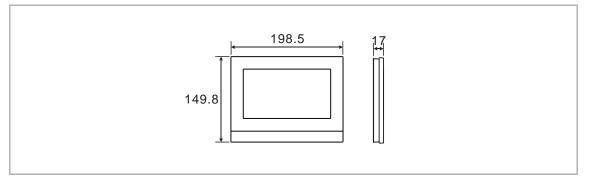
## 3.2.1 Location



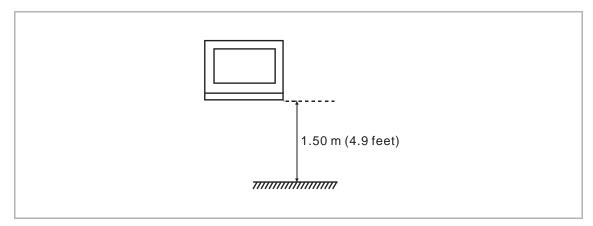
## 3.2.2 IP Touch 7

#### **Product dimension**

## (unit: mm)

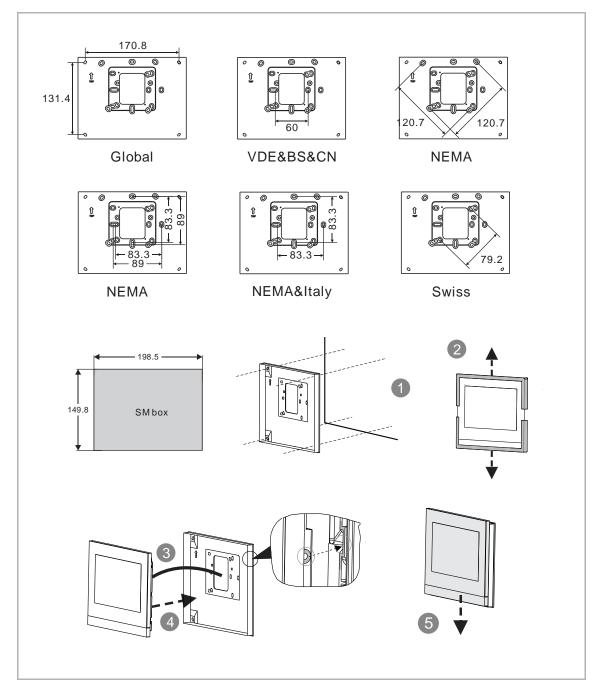


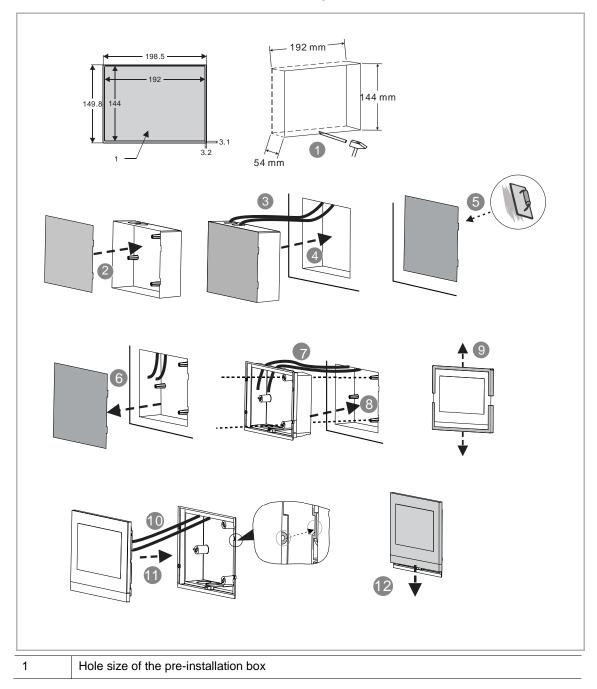
## Installation height



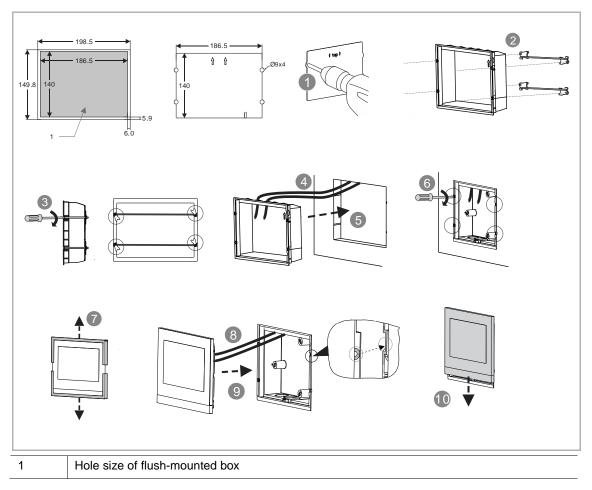
## Surface-mounted installation

This chapter is not suitable for IP Touch 7 (LAN+LAN).





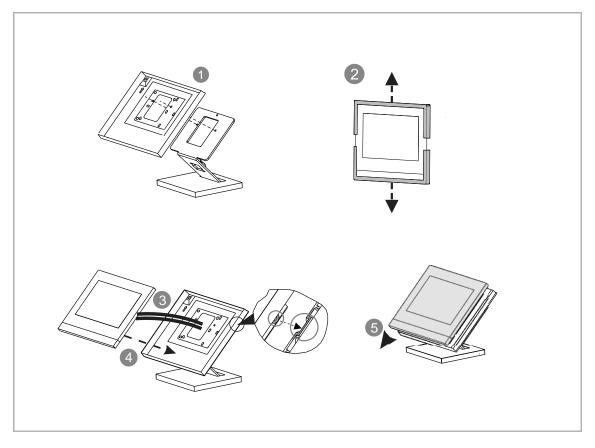
## Flush-mounted installation in the solid wall with pre-installation box



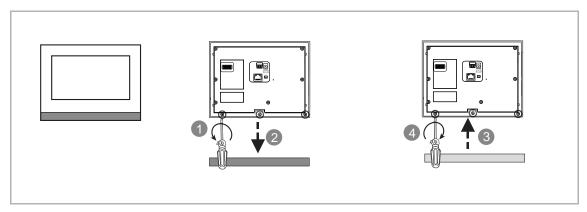
#### Flush-mounted installation in the hollow wall

# **Desktop installation**

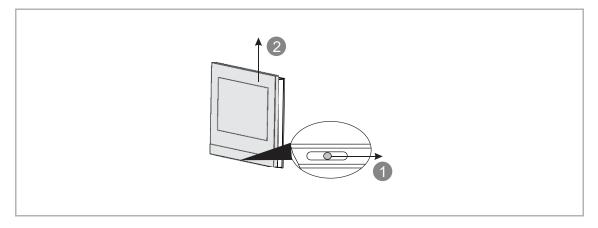
This chapter is not suitable for IP Touch 7 (LAN+LAN).



# Replacing the end strip



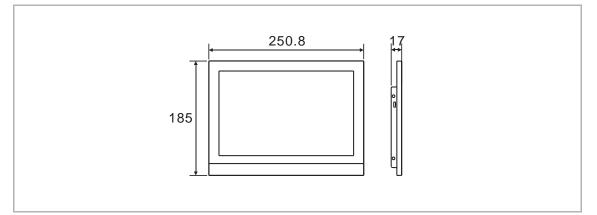
# Dismantling



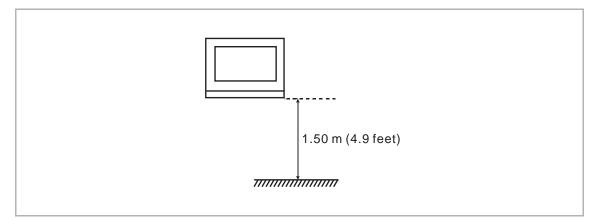
## 3.2.3 IP Touch 10

#### Product dimension

## (unit: mm)



## Installation height

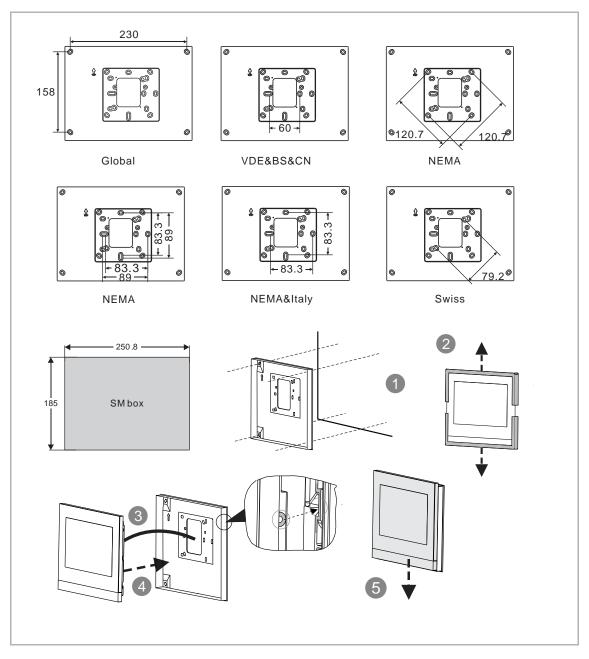


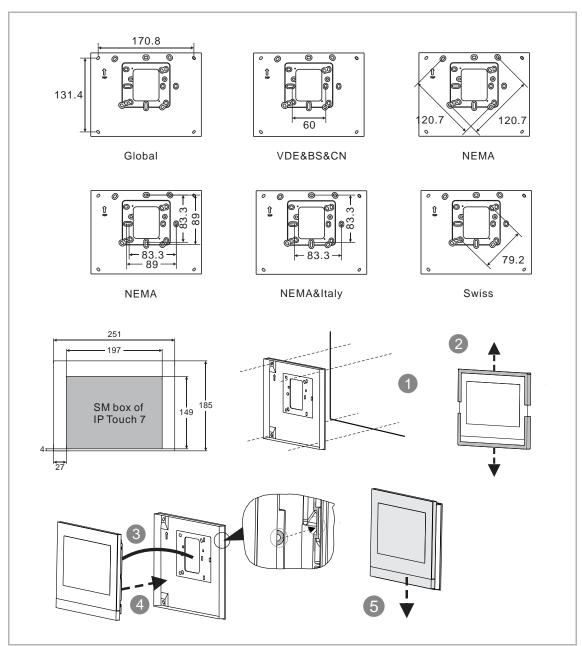
## Surface-mounted installation

This chapter is not suitable for IP Touch 10 (LAN+LAN).

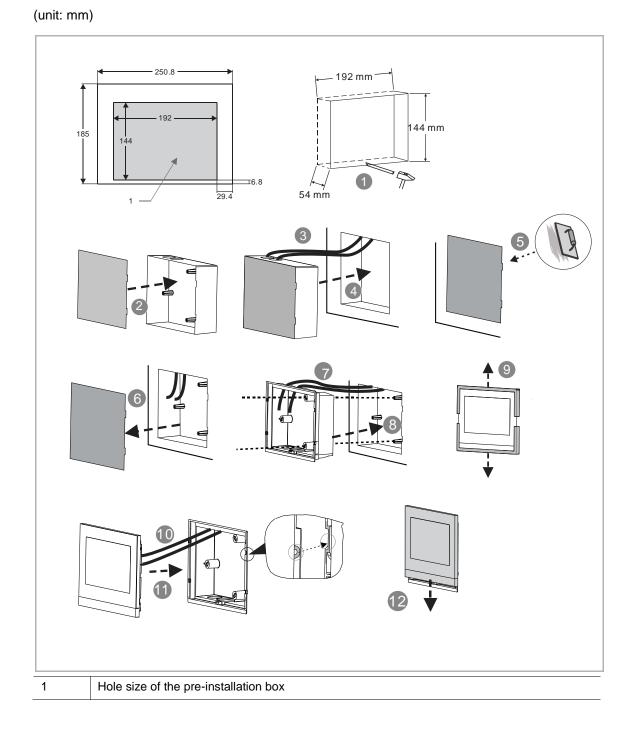
(unit: mm)

IP Touch 10 can use the surface-mounted box of IP Touch 10.





IP Touch 10 can also use the surface-mounted box of IP Touch 7.

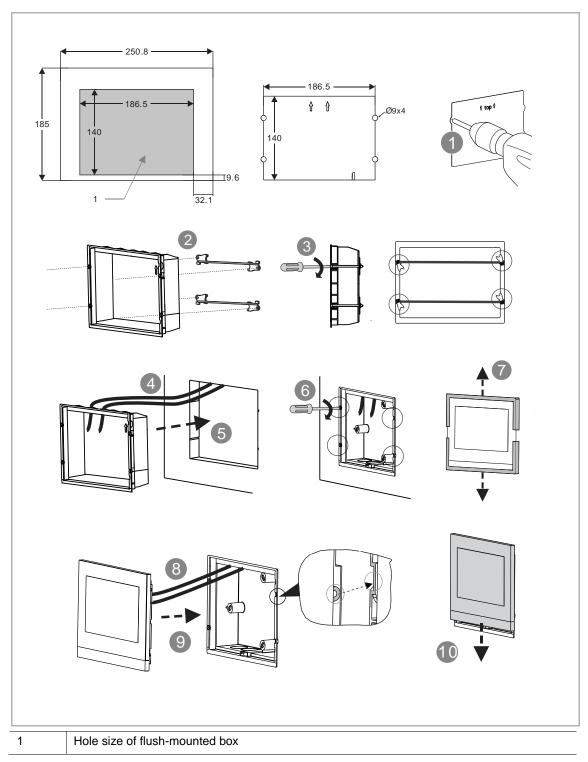


## Flush-mounted installation in the solid wall with pre-installation box

\_\_\_\_\_

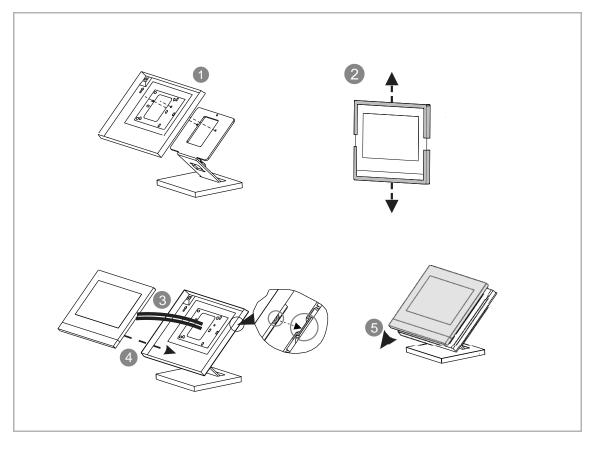
## Flush-mounted installation in the hollow wall

(unit: mm)



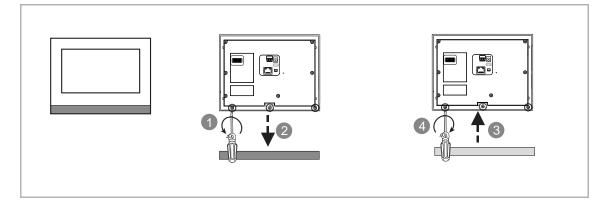
# **Desktop installation**

This chapter is not suitable for IP Touch 10 (LAN+LAN).

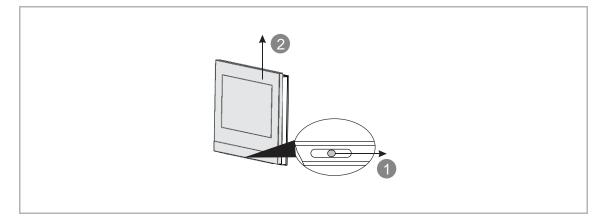


# Replacing the end strip

4 screws need to be removed.



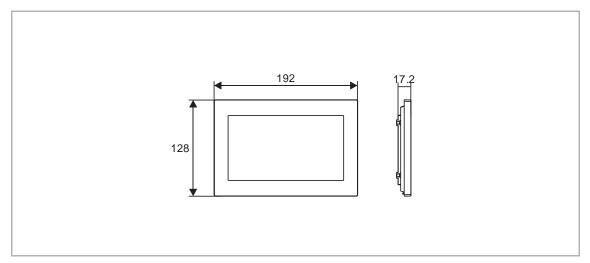
# Dismantling



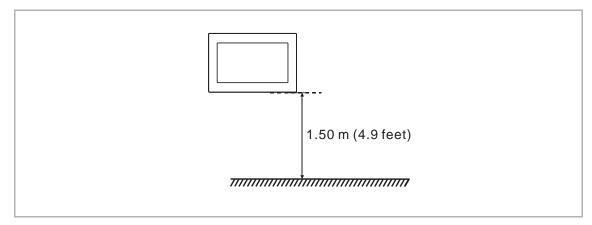
## 3.2.4 IP Touch Lite 7

#### Product dimension

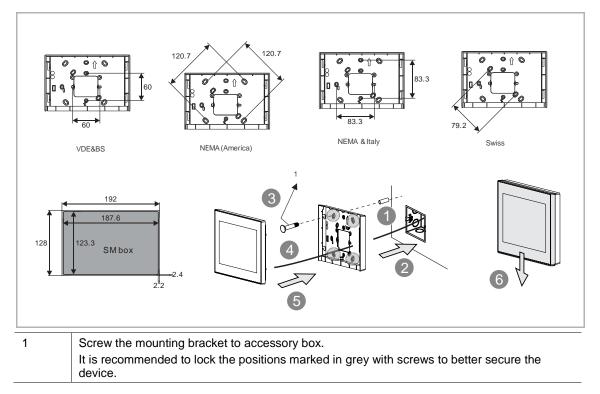
(unit: mm)



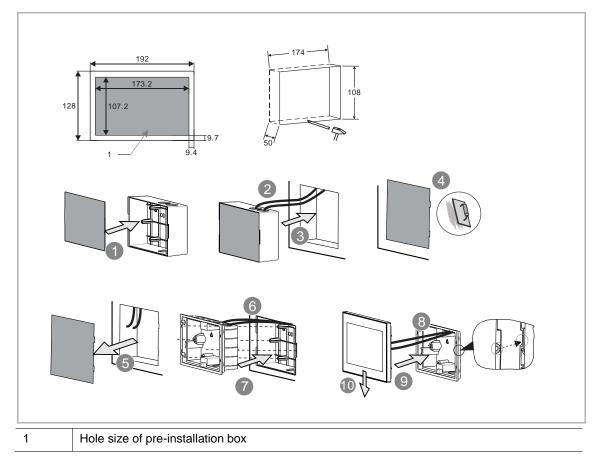
# Installation height



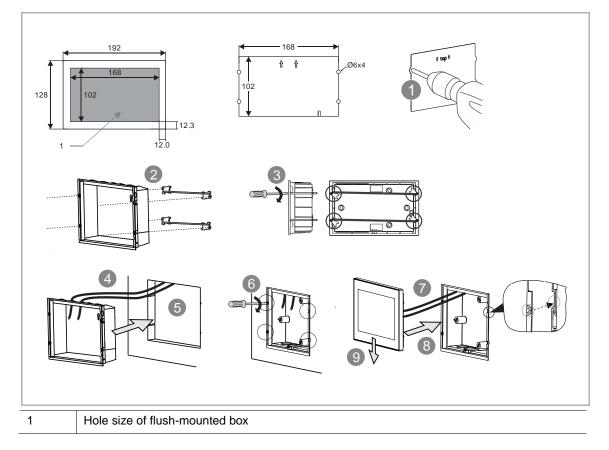
## Surface-mounted installation



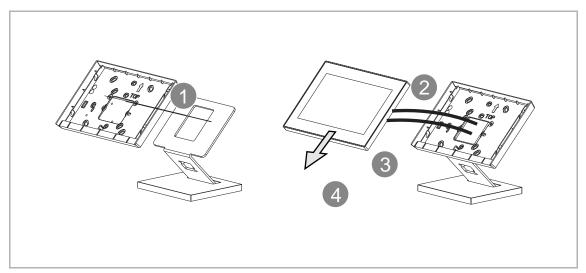
# Flush-mounted installation with pre-installation box



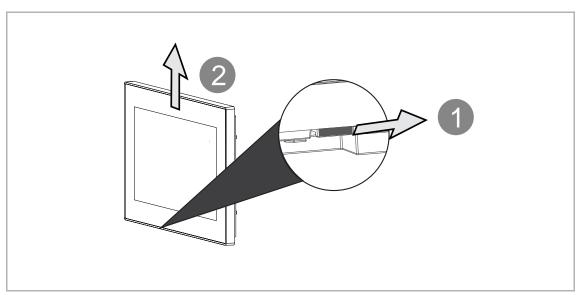
## Flush-mounted installation in the hollow wall



# Desktop installation



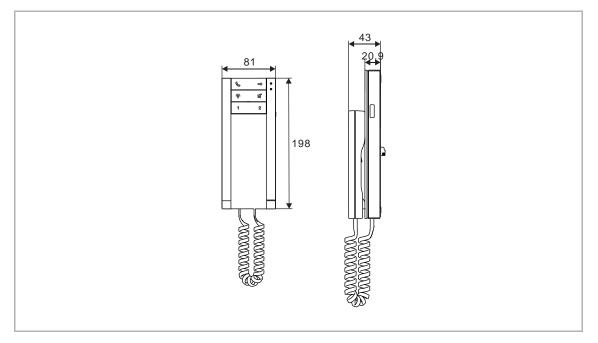
# Dismantling



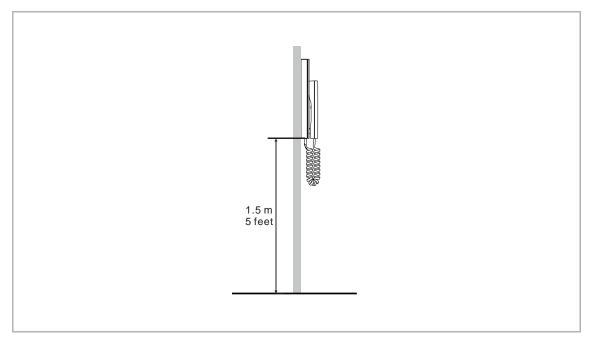
#### 3.2.5 Audio IP

#### Product dimension

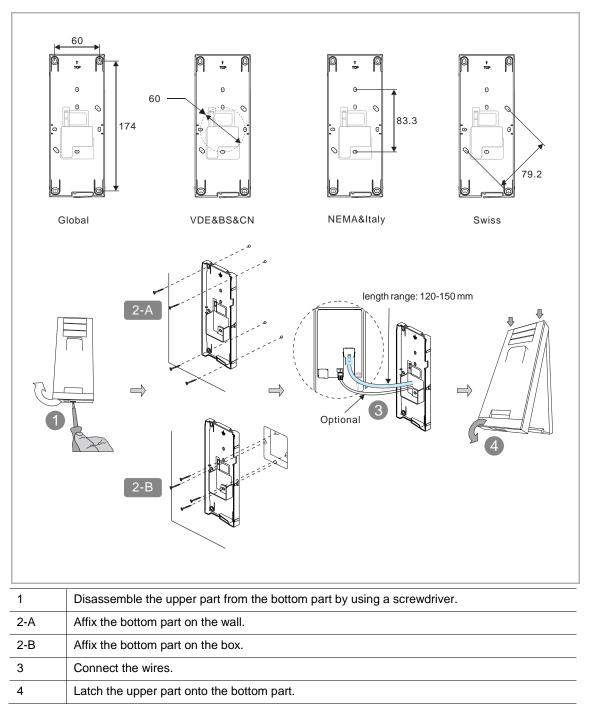
#### (unit: mm)



## Installation height

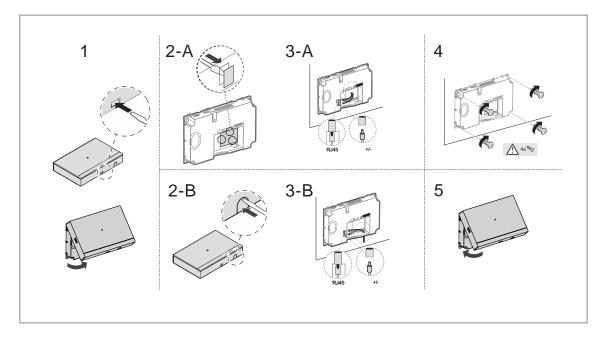


#### Surface-mounted installation

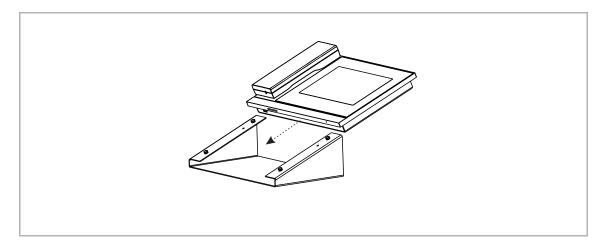


## 3.3 System devices

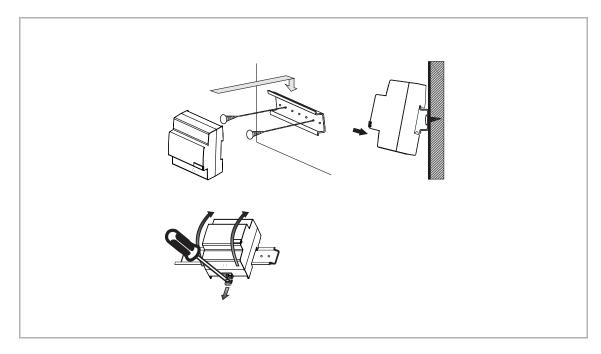
## 3.3.1 Smart Access Point



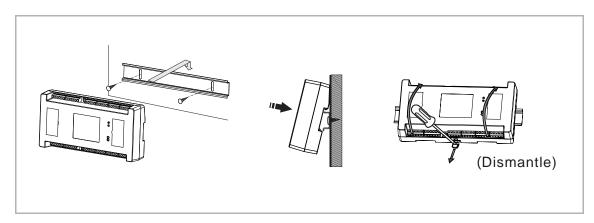
## 3.3.2 Guard Unit



## 3.3.3 IP Actuator and IP Elevator Controller



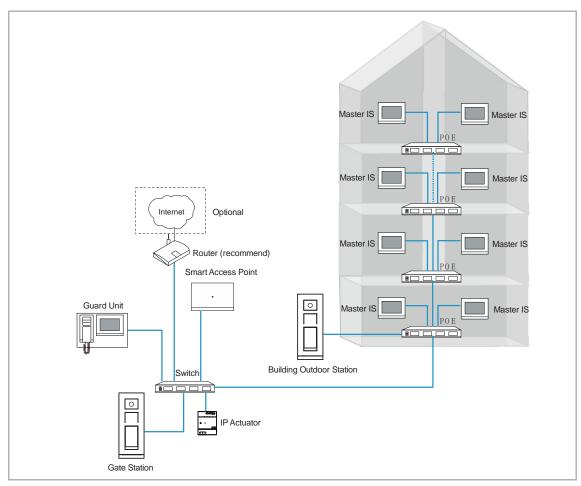
# 3.3.4 Lift Control Relay Module



# 4 Configuration Process

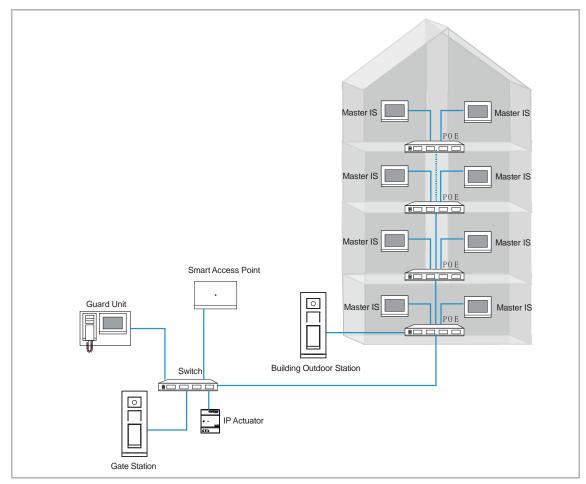
## 4.1 Multi Apartment Configuration with the SmartAP

## 4.1.1 Topology (DHCP)



- In this case, a SmartAP is needed.
- If the devices obtain the address from a DHCP server, a router is needed. Otherwise, a router is optional.
- Limitations for private devices used per single unit: up to 8 IS, 4 second confirmed OS, 4 IPA.

## 4.1.2 Topology (Legacy)



- In this case, a SmartAP is needed.
- Limitations for private devices used per single unit: up to 4 IS, 2 second confirmed OS, 2 IPA.

#### 4.1.3 Adding devices via the SmartAP auto scan

Note



Only the devices on the same network segment as the SmartAP can be added via the SmartAP auto scan.

- Audio IP and IP Elevator Controller cannot be added via the SmartAP auto scan. They should be added via the SmartAP manually. see chapter 4.1.4 "Adding devices via the SmartAP manually" on page 138.
- All the devices to be added via the SmartAP auto scan should be set a different physical address before scanning.see chapter 10.4 "Configuring the physical address and IP mode" on page 259.
- All the devices to be added via the SmartAP auto scan should not be signed by another SmartAP. If the devices have been signed by another SmartAP, you will need to clear the signatures.see chapter 10.3 "Clearing the signature of the device" on page 258.
- Please ensure all the devices have been powered on.
- Please ensure the SmartAP has complete its initial setup before the configuration.see chapter 10.1 "Initial setup of the SmartAP" on page 233.

Please follow the steps below:

[1] On the "Main Menu" screen, click "Door entry system" to access the corresponding screen.

❤ <b>1</b> ₽₂ so	os 💽 🖡		MAIN MENU			
			• <b>—</b> ye			1 <b>5</b> 8
BUILDING STRUCTURE			USER MANAGEMENT			DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
e memo					Device configura	ation 🏠 Preferences

[2] On the "Door Entry System" screen, click " • ".

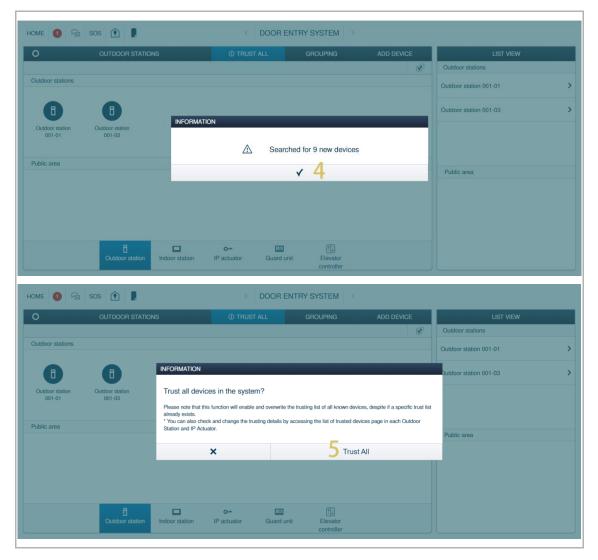
[3] Click "  $\checkmark$  " to continue.

ME 🚺 Fa	a sos 👔 🖡	DOOR	ENTRY SYSTEM		
2	OUTDOOR STATIONS	TRUST ALL	GROUPING	ADD DEVICE	LIST VIEW
utdoor stations				Ľ	Outdoor stations
	INFORMATIO		ou sure to search devices	5?	
blic area		×	~	3	Public area
	Outdoor station	O→ III IP actuator Guard			

During the search, click "Hide the window" to hide the current pop-up window and " • will flash to indicate the search status.

HOME 🚺 🗟				DOON ENT	RY SYSTEM		
0	OUTDOOR STATIONS		TRUST A	LL.	GROUPING	ADD DEVICE	LIST VIEW
						1 I	Outdoor stations
Outdoor stations							
		INFORMATIO	NC			_	
D. bile sees			Cur	rently 1 devices h	ave been searched		
Public area							Public area
				Hide the	window		
	в	-	0-4				
				Guard unit	Elevator		
	Outdoor station	door station	IP actuator	Guaru unit			
	Outdoor station	door station	IP actuator	Guard unit	controller		
HOME 🚺 😼	sos 💽 🗜	door station	IP actuator	DOOR ENTR	controller		
HOME 1 Pa		door station		DOOR ENTR	controller	ADD DEVICE	LIST VIEW
ome 🚺 🕾	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		LIST VIEW Outdoor stations
0	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		
0	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		
0	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		
0	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		
Ouldoor stations	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		
Outdoor stations	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		
IOME 1 Participations	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		Outdoor stations
Outdoor stations	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		Outdoor stations
Outdoor stations	sos 🏚 🖡	door station	<	DOOR ENTR	Controller		Outdoor stations
Outdoor stations	sos 🏚 🖡		<	DOOR ENTR	Controller		Outdoor stations

- [4] Search result will be displayed on the screen; click "  $\checkmark$  " to continue.
- [5] Click "Trust All" to trust all devices in the system. For more details, see the "Trusting all devices" chapter on page XXX.



[6] The devices will be displayed on the screen if successful.

OME 🚺 🖓	sos 👔 🖡	< DOOR	ENTRY SYSTEM			
0	OUTDOOR STATIONS	① TRUST ALL	GROUPING	ADD DEVICE	LIST VIEW	
				<b>S</b>	Outdoor stations	
Outdoor stations					Outdoor station 001-01	>
B	•				Outdoor station 001-03	>
Outdoor station 001-01	Outdoor station 001-03					
Public area						
					Public area	
	Outdoor station	n IP actuator Guard				
	Outdoor station Indoor station	i ir actuator Guard	controller			

#### 4.1.4 Adding devices via the SmartAP manually



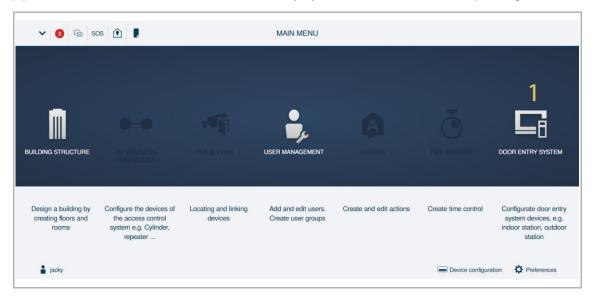
#### Note

All the devices can be added via the SmartAP manually.

- All the devices to be added via the SmartAP manually should not be signed by another SmartAP. If the devices have been signed by another SmartAP, you will need to clear the signatures.see chapter 10.3 "Clearing the signature of the device" on page 258.
- Please ensure all the devices have been powered on.
- Please ensure the SmartAP has complete its initial setup before the configuration. see chapter 10.1 "Initial setup of the SmartAP" on page 233.

Please follow the steps below:

[1] On the "Main Menu" screen, click "Door entry system" to access the corresponding screen.



[2] On the "Door Entry System" screen, click "Add device".



#### Note

The following operations show you to add a subsidiary indoor station. Please adjust your operations according to the actual devices.

- [3] Select a device type from the drop-down list (e.g. "Indoor station").
- [4] Enter the physical address:
- Enter block number.
- Enter floor number.
- Enter room number.
- Enter device number.
- [5] Enter serial number.
- [6] Click "Save" to save.

0				ADD DEVICE	LIST VIEW	
arch	ADD D	EVICE			Video Indoor Station	
touch 7* Building1		ice type Indoor station		3 •	Indoor station 001-0201-01	
0	Dev	ice addr. 1			Indoor station 001-0301-01	
ndoor station 001- 0401-01		2			Indoor station 001-0401-01	
ouch 10"		1 4			Indoor station 001-0501-01	
luilding1		1			Audio Indoor Station	
ndoor station 001-	Indoor station 001-	ial No. 102807A7F030545	5			
0201-01	0301-01 050	Cancel	6 Save			
	8 0		⊒ (1)			

#### 4.1.5 Adding devices via the SmartAP & APP



#### Note

All the devices can be added via the SmartAP & APP.

- All the devices to be added via the SmartAP & APP should not be signed by another SmartAP. If the devices have been signed by another SmartAP, you will need to clear the signatures.see chapter 10.3 "Clearing the signature of the device" on page 258.
- Please ensure all the devices have been powered on.
- Please ensure the SmartAP has complete its initial setup before the configuration.see chapter 10.1 "Initial setup of the SmartAP" on page 233.

#### QR code of the device

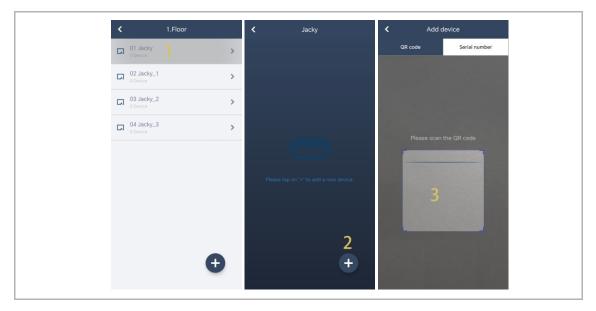
Usually there is a QR code attached to the back of the device. The serial number can be obtained by scanning this QR code.

#### Adding devices on the APP

Please ensure a building structure has been created on APP..

Please follow the steps below:

- [1] On the designated floor screen, tap the designated room.
- [2] On the designated room screen, tap " 🙂 ".
- [3] On the "Add device" screen, scan the QR code displayed on the panel.



- [4] On the "Device" screen, serial number of the device will be displayed.
- [5] Check the location.
- [6] Check the device type.
- [7] Tap "Add" to add a new device.
- [8] The result is displayed on the screen if successful.

Repeat steps 1~7 to add multiple devices.

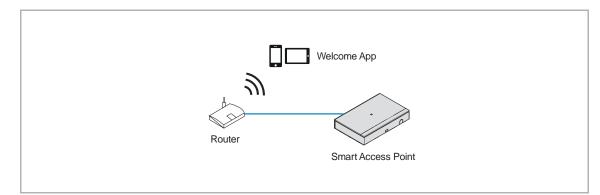
Device	K Jacky
	Indoor Station 1 102807A7F06DB7C
Serial number:102807A7F06DB7C	
Device ID 1 4 Location	
Building 01 Building A 5 ~	
Floor	
1.Floor 🗸	
Room 01 Jacky 6	
Device Type	
Indoor Station 🗸	
	θ
× 7 √ Add	•

#### Importing the building structure from APP to SmartAP

- SmartAP can import the building created in the APP.
- You can import one building once or several buildings as a batch.

#### Precondition

- The APP must be on the same network with SmartAP.
- The building structure has been created in the APP.



#### Importing rule

The building structure will be overwritten according to the rules below:

- A, B, C, D, E, F means building number.
- B and B+ has the same building number.
- + means the building structure has been changed.

APP	SmartAP before	SmartAP after
B+	A, B, C	A, B+, C
B+, C+	A, B, C	A, B+, C+
D, E, F	A, B, C	A, B, C, D, E, F

#### Importing process

Please follow the steps below:

- [1] On the home screen of the SmartAP, click " 🖡 ".
- [2] A pop-up window will appear, please keep the window open and do not click " $\sqrt{}$ ".

✓ Ø 월 so	os 🕥 見 🕇		MAIN MENU			
BUILDING STRUCTURE		FORMATION Please open yo	bur APP to import the Brick $2 \checkmark$	uilding Structure	TIME CONTROL	DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
poplar					Device configura	ation 🔅 Preferences

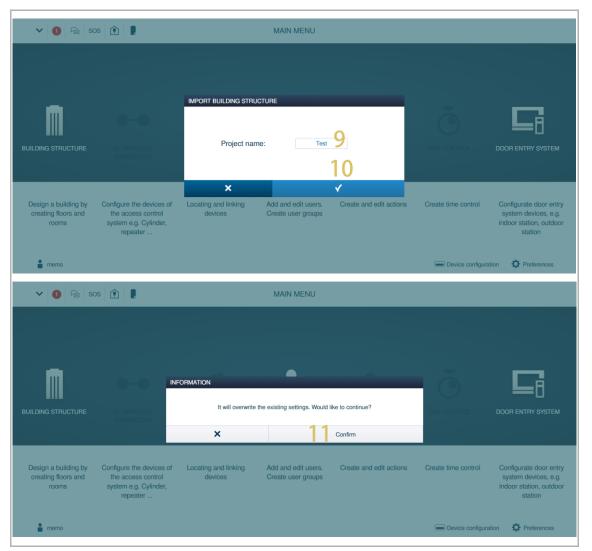
[3] On the "Projects" screen of the APP, swipe the designated project name to the right.

- [4] Tap " 🚺 ".
- [5] Tap the designated SmartAP in the list.
- [6] Enter the account and the password of the designated SmartAP.
- [7] Tap "OK".
- [8] "Upload successfully" will be displayed if successful. Tap "OK".

< Projects <p>test test tost</p>	SmartAP + C SmartAP: SmartAp-0746 5	SmartAP: SmartAp=0746
	Log in User name Password 6 * 7 ¢ ok	Notice Upload successfully ✓ OK 8
0		

[9] On the configuration screen of SmartAP, the project name will be displayed on the screen. [10]Click " $\sqrt{}$ ".

[11]Click "Confirm".



[12]The import result will be displayed.

[13]Click " $\!\!\sqrt{}\!\!\!\!\!\!$  to complete the import process.



## 4.1.6 Devices Diagnosis

It is recommended to check the status of all devices to ensure normal use.

## Access the "Devices Diagnosis" screen

Please follow the steps below:

[1] On the "Main Menu" screen, click "Preferences".

[2] Click "Devices Diagnosis" to access the corresponding screen.

🗸 🔞 🗟 sos 🕅 🖡		MAIN MENU			
BUILDING STRUCTURE	PLACE + LINK	USER MANAGEMENT	Actions	TIME CONTROL	DOOR ENTRY SYSTEM
Design a building by creating floors and rooms system e.g. Cylinde repeater	devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station 1 tion Preferences
HOME 😰 😼 SOS 💽 🗜	<	PREFERENCES	>		
		PREFERENCES			
Preferences	Devices Diagnosis				
Localization > Project backups > Firmware updates >	System information Version : V6.56 IP Mode : DHCP/Static ad Serial No. All types	Signature : dress / IP address :	34CA2EA50C04C548 192.168.1.103	Subnet mask : 255.255.255.	
· · ·	ACTIONS Status	Reason	Device type	Physical address	Serial No.
Connections & APIs >	C ⊬ m Offine	Unable to con	Guard unit	#01	103807A7F0302D6
Service >	C / Mailable	Unable to con	Outdoor station	001-01	101807A7F06DAF6 HSE07-
Wi-Fi access point mode settings	C 🗡 🔟 🔹 Offline	Unable to con	Indoor station	001-0102-01	10282C9B7871F97
Third party authority >	C 差 前 💮 Offline	Unable to con	Indoor station	001-0101-02	102807A7F063253
Devices Diagnosis	C 🗲 📋 🔴 Error	IP mode of de	Building IPA	001-01	104000CDE017FEE HGM51
Onvif IPC list					
Misc settings >			♠		

## **Overview of Devices Diagnosis**

Preferences		Devices Diagnos	sis					
Localization	>	System inform Version :	_ I ≺	Signature : 3	4CA2EA50C04C548 2			
Project backups	>	IP Mode :	DHCP/Static address	0		Subnet mask : 255.255.255.	0	
Firmware updates	>	Serial No.	All types	✓ All states	✓ Building No.	Floor No. Room	No. 4 Cle	ear F
Connections & APIs	>	ACTIONS	Status	Reason	Device type	Physical address	Serial No.	
Service	>	C 🥍 📺	Offline	Unable to con	Guard unit	#01	103807A7F0302D6	
Wi-Fi access point mode settings	>	C ≯ 前 C ≯ 前	Available     Offline	Unable to con	Outdoor station	001-01	101807A7F06DAF6	HSI
Third party authority	>	с / 🖮	Offline	Unable to con	Indoor station	001-0101-02	102807A7F063253	
Devices Diagnosis	>	С 🕨 💼	Error	IP mode of de	Building IPA	001-01	104000CDE017FEE	HG
Onvif IPC list	>							
Misc settings	>				♠			

No.	Description
1	Software version of the SmartAP
2	Signature of the SmartAP If the signature of the device which is displayed on the "Signature" column is not the same as the signature of this SmartAP, "Error" will be displayed.
3	IP mode of the SmartAP
0	Click " 🥍 " to change the IP mode of the SmartAP.
4	<ul> <li>Filters</li> <li>It is allowed to display the designated devices according to the filters (e.g., "Serial no.", "Device type", "States" etc.)</li> <li>Click "Clear Filters" to empty the filters.</li> </ul>
5	<ul> <li>Status of the devices</li> <li>Available= The device has been added by the SmartAP successfully</li> <li>Error = The device has been detected by the SmartAP but failed to be added</li> <li>Offline = The device has not been detected by the SmartAP.</li> </ul>
6	Other information of the devices
7	Actions of the devices         Click " ✓ " to configure the IP mode and the IP address of the device, you can also re-sign the device here.         Click " ⊂ " to refresh the status of the device.         Click "        □ " to remove the device from the list.
8	Refresh all Click it to refresh the status of all the devices

## Error diagnosis

"Abnormal" will be displayed due to the following problems.

- The same physical address has been set on different devices
- The same IP address has been set on different devices
- IP mode of this device is different from that of the SmartAP
- The IP address segment of this device is different from that of the SmartAP
- IP mode of Subsidiary IS is different from that of Master IS
- IP address segment of Subsidiary IS is different from that of Master IS
- If master IS is offline, the related Subsidiary IS, 2nd OS and Private IPA will turn to "Abnormal"
- When the IP mode is changed from DHCP/Static IP mode to legacy mode, the device number of the device is out of range.
- The signature of the device is different from that of the SmartAP.

## Offline diagnosis

"Offline" will be displayed due to the following problems.

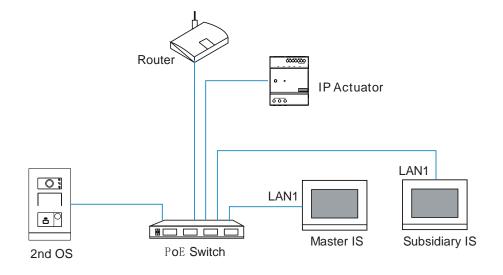
- The device is offline
- The device doesn't obtain the IP address when IP mode is set to "DHCP".
- The serial number entered is not correct when adding the device manually.
- The IP address of the device conflicts with that of the SmartAP.
- The IGMP Snooping function is disabled on the router, multicast packets are suppressed.

## 4.1.7 Managing the trusted devices

For more details, see chapter 10.8 "Managing the trusted devices" on page 293.

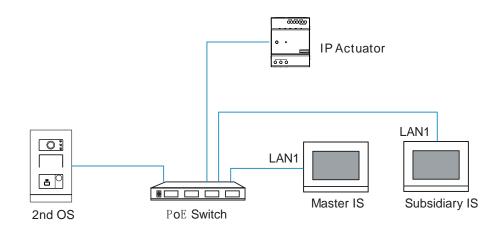
## 4.2 Single House Configuration without the SmartAP

## 4.2.1 Topology (DHCP)



- In this case, no SmartAP is needed.
- In this case, a router is needed for use.
- In this case, all devices are connected to the same network.
- In this case, 1 2nd confirmed Outdoor Station, 1 IP Actuator and max. 4 Indoor Stations are recommened.
- In this case, the 2nd OS could be an IP pushbutton OS or a Mini OS with IC.
- This configuration will be carried out on the Master IS.
- In this configuration, the IPA and 2nd OS will be added to the trusted devices list.

## 4.2.2 Topology (Legacy)



- In this case, no SmartAP is needed.
- In this case, all devices are connected to the same network.
- In this case, 1 2nd confirmed Outdoor Station, 1 IP Actuator and max. 4 Indoor Stations are recommended.
- In this case, the 2nd OS could be an IP pushbutton OS or a Mini OS with IC.
- This configuration will be carried out on the Master IS.
- In this configuration, the IPA and 2nd OS will be added to the trusted devices list.

#### 4.2.3 Preparation

- Please ensure that all the devices have been connected according to the topology before the configuration.
- Please ensure all the devices have been powered on.
- Please ensure all the devices have been restored to factory default settings to prevent unknown abnormal results.see chapter 10.5 "Restoring to factory default" on page 271.
- Please ensure all indoor stations connect to the switch via LAN1.

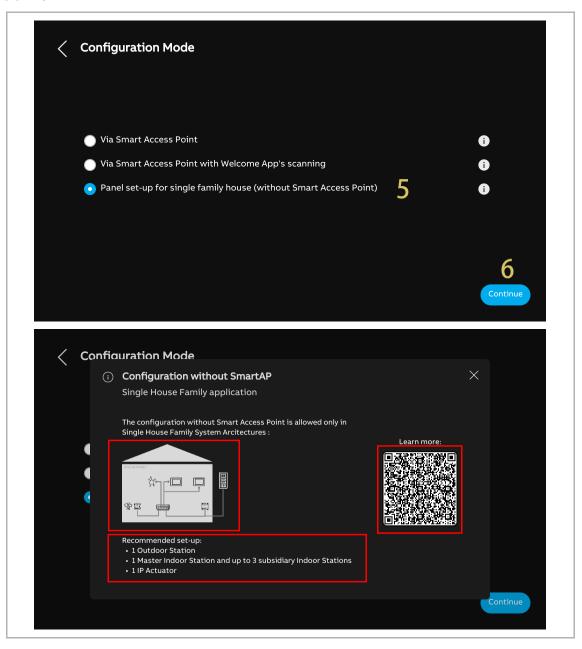
#### 4.2.4 Configuring the Master IS

When the IS is powered on the first time or it is restored to factory default settings, it will access the "Setup Wizard". Please follow the steps below:

- [1] On the "Setup wizard" screen, select the language from the drop-down list.
- [2] Select the region from the drop-down list.
- [3] Tick the check box to accept the licences. Or tap "Click to read" to view the details of the licence.
- [4] Tap "Accept & continue" to access the next screen.

Setup Wiza	ırd		
	Select Language	Select Region	
	Language English	Region	2 ~
	<ul> <li>✓ Accept license agreement <u>Click</u></li> <li>✓ Accept OSS agreement <u>Click to</u></li> </ul>	3	
			4
			Accept & Continue

- [5] On the "Configuration Mode" screen, select "Panel set-up for single family house", tap " i to see the system topology, system recommended capacity, and you can download the product manual by scanning the QR code on the right.
- [6] Tap "Continue".



- [7] On the "Panel Addressing" screen, select "Master mode". Only one Indoor Station can be set to "Master mode" in the same apartment.
- [8] Enter the block number, the floor number and the apartment number or accept the default value. The "Panel number" is preset as "01" and cannot be modified while the "Master mode" is selected.

eta F	anel Addressing	×
	Addressing	
	Master Mode <b>7</b> ×	
	Physical Address	
¢	Block Apartment 01	
	Floor Panel Number 01 01	
		9
		Continue

[9] Tap "Continue".

[10]On the "IP Addressing" screen, tap "Edit" to access the corresponding screen.

- Select the connection type, it can be set to "LAN" or "WiFi".
- Select the address type, it can set to "DHCP", "Customizable address" or "ABB Legacy". If "ABB Legacy" is selected, the IP address will be "10.0.x.x".
- Please tap "Save" if the settings have been changed.

[11]Tap "Continue".

י >	P Add	resing						
			IP Address ( Building Network 192,168,1.101	)	10 Edit			
								<b>11</b> Continue
< 1		resina Edit Building N	etwork				×	
< 1							×	
ζ ι		Edit Building N	ences: <i>C</i> WIFI				×	
< 1		Edit Building No.	ences: <i>C</i> WIFI	acy	Customizable address		×	
< 1		Edit Building No.	ences: 💭 WIFI ences:	acy	Customizable address		×	
< 1		Edit Building No. Connection prefere LAN Addressing prefere	ences: 💭 WIFI ences:	Subnet mask	Customizable address		×	
< 1		Edit Building No. Connection prefere LAN Addressing prefere DHCP(Default)	ences: 💭 WIFI ences:	Subnet mask 255.255.255.0 DNS	Customizable address	Save	×	

[12]On the "Trusted Devices" screen, check the system recommended capacity again.

[13]Tap "Continue".

[14]Check the system topology.

[15]Tap "Continue" to start searching the devices in the single-family house.

<	Trusted Devices Configuration without SmartAP - Single family home mode	e
	(j) Please note In this configuration mode, the pairing up of the devices w to the private network is confirmed. Recommended set-up: • 1 Outdoor Station • 1 Master Indoor Station and up to 3 subsidiary Indoor Station	
	• 1 IP Actuator	13 Continue
<	<b>Trusted Devices</b> Configuration without SmartAP - Single family home mode	9
<		• 14
<	Configuration without SmartAP - Single family home mode	14
<		
<	Configuration without SmartAP - Single family home mode i Please note Please connect all devices to the same network and	14 SINGLEFAMILY

[16]All the related devices are displayed on the list.

[17]Tap "Continue".

[18]Tap "Continue".

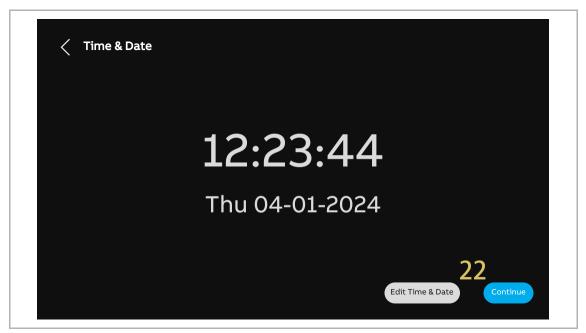
4 devices have been added to the list :         Indoor Station-01       102807A7F06DB7C       /         Indoor Station-02       102807A7F06DD52       /         2nd 0S-01       101807A7F06DD4F6       16       /         Private IP Actuator-01       104000CDE017FEE       /       17	Cc 🖉	Add Trusted Devices		×
Pk       Indoor Station-02       102807A7F06DC52       ✓         Indoor Station-02       101807A7F06DAF6       16       ✓         Private IP Actuator-01       104000CDE017FEE       ✓       17       Continue         Interement       Interement       Interement       Interement       Interement       Interement         Station of the system is a specific of the system is a sp	$\mathcal{C}$	4 devices have been added to	o the list :	
Pit       Indoor Station-02       102807A7F06DC52       ✓         2nd 0S-01       101807A7F06DAF6       16       ✓         Private IP Actuator-01       104000CDE017FEE       ✓       17       Continue         Do It later       Continue       To it later       Continue       Continue         Trusted Devices       Configuration without SmartAP - Single family home mode       To it later       Configuration without SmartAP - Single family home mode         Image: Selected devices       By clicking on "Continue", the selected devices will be added to the System.       European the Outdoor Station panels in the system to grant the Outdoor Station devices and IP Actuator devices the authorization to unlock the door.	Pla	Indoor Station-01	102807A7F06DB7C	✓ ►
2nd OS-01       101807A7F06DAF6       16       /         Private IP Actuator-01       104000CDE017FEE       /       17       Continue         17       Continue       001807A7F06DAF6       16       /       /         17       Continue       17       Continue       Continue       /         Trusted Devices         Configuration without SmartAP - Single family home mode         (i)       Tusting selected devices       Single family home mode         Subjected devices         By clicking on "Continue", the selected devices will be added to the System.         Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoor Station devices and IP Actuator devices the authorization to unlock the door.	Pl€	Indoor Station-02	102807A7F06DC52	✓
Private IP Actuator-01       104000CDE017FEE       17	ma	2nd OS-01	101807A7F06DAF6 16	
Dottlater       Contraction         Trusted Devices       Configuration without SmartAP - Single family home mode         (i)       Trusting selected devices         By clicking on "Continue", the selected devices will be added to the System.       Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoor Station devices and IP Actuator devices the authorization to unlock the door.		Private IP Actuator-01		
Trusted Devices Configuration without SmartAP - Single family home mode () Trusting selected devices By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.			1	7 Continue
Trusted Devices Configuration without SmartAP - Single family home mode () Trusting selected devices By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.			•	/
Configuration without SmartAP - Single family home mode i Trusting selected devices By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.				Do it later Cont
Configuration without SmartAP - Single family home mode i Trusting selected devices By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.				
Configuration without SmartAP - Single family home mode i Trusting selected devices By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.				
(j) <b>Trusting selected devices</b> By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.				
By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.				
By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.			ngle family home mode	
By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.			ngle family home mode	
By clicking on "Continue", the selected devices will be added to the System. Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.			ngle family home mode	
Further "Trust" authentication will allow the Indoor Station panels in the system to grant the Outdoo Station devices and IP Actuator devices the authorization to unlock the door.			ngle family home mode	
Station devices and IP Actuator devices the authorization to unlock the door.	Configur	ration without SmartAP - Si	ngle family home mode	
1	Configur (j) Trusting	ration without SmartAP - Si selected devices		ım.
1	Configur i Trusting By clickir Further	ration without SmartAP - Si selected devices ng on "Continue", the select 'Trust" authentication will a	ted devices will be added to the Syste allow the Indoor Station panels in the	system to grant the Outdoo
1	Configur i Trusting By clickir Further	ration without SmartAP - Si selected devices ng on "Continue", the select 'Trust" authentication will a	ted devices will be added to the Syste allow the Indoor Station panels in the	system to grant the Outdoo
	Configur i Trusting By clickir Further	ration without SmartAP - Si selected devices ng on "Continue", the select 'Trust" authentication will a	ted devices will be added to the Syste allow the Indoor Station panels in the	system to grant the Outdoo
	Configur i Trusting By clickir Further	ration without SmartAP - Si selected devices ng on "Continue", the select 'Trust" authentication will a	ted devices will be added to the Syste allow the Indoor Station panels in the	system to grant the Outdoor loor.

[19]Tap "Trust all".

[20]All the related devices will be displayed on the screen.

[21]Tap "Continue".

Cc 🖉	Trust Devices	$\times$
(	4 devices added to the list :	
Tr	Indoor Station-01	
Ву	Indoor Station-02	
Fu Sti	2nd OS-01	door
	19	
	Trust later Trust all	
		Contin
	ed Devices	
	ed Devices Trusting Process Successful	Contir
	Trusting Process Successful	
Cc ⊘	Trusting Process Successful         Devices trusted!         The following devices have been successfully added to your Trusted Devices list :         • Indoor Station-01	
Cc 🕜	Trusting Process Successful         Devices trusted!         The following devices have been successfully added to your Trusted Devices list :	
Cc 🖉 ( Tr By Fu	<ul> <li>Trusting Process Successful</li> <li>Devices trusted!</li> <li>The following devices have been successfully added to your Trusted Devices list :         <ul> <li>Indoor Station-01</li> <li>Indoor Station-02</li> <li>20</li> </ul> </li> </ul>	×



[22]On the "Time & date" screen, you can carry out this setting at this time or tap "Continue" to skip this setting for the moment.

[23]On the "MyBuildings portal" screen, you can carry out this setting at this time or tap "Continue" to skip this setting initially if the App is not ready.

• For more details, see the product manual of the designated Indoor Station.

MyBuildings Portal
Log in to myBuildings portal
Connect with app
Please make sure to connect your mobile device to the same Wifi Network as the panel.
23 Connect manually Continue

[24] There are 4 screens to guide you how to use the panel.[25] Tap "Skip" if you are already familiar with the panel.





## Note

After configuring the Master IS, the 2nd OS and the IPA have both finished their configuration. However, the Subsidiary IS still needs some steps to complete its configuration. see chapter 4.2.5 "Configuring the Subsidiary IS" on page 163. The outdoor station will be automatically set as a 2nd OS, and the IPA will be automatically set as a private IPA.

At the same time, the IPA will be automatically set as the default lock of the outdoor station.

#### 4.2.5 Configuring the Subsidiary IS

Please ensure the Master IS has completed the Wizard Setup before continuing the configuration of the Subsidiary IS:

Please follow the steps below to continue the configuration of the Subsidiary IS:

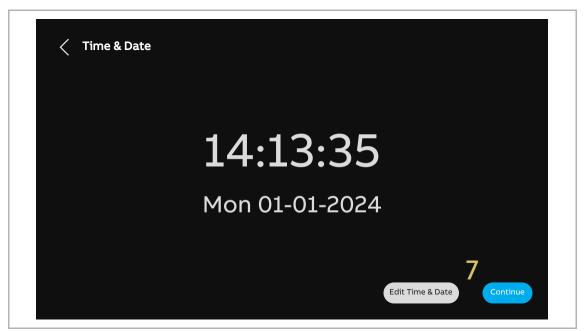
- [1] On the "Setup wizard" screen, select the language from the drop-down list.
- [2] Select the region from the drop-down list.
- [3] Tick the check box to accept the licences. Or tap "Click to read" to view the details of the licence.
- [4] Tap "Accept & continue" to access the next screen.

Setup Wizard		
Select Language Language English	Select Region	2 ~
✓ Accept license agreem	3	
		4 Accept & Continue

- [5] On the "IP Addressing" screen, tap "Edit" to access the corresponding screen.
- Select the connection type, it can be set to "LAN" or "WiFi".
- Select the address type, it can set to "DHCP", "Customizable address" or "ABB Legacy". If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- The address type of the Subsidiary IS should be the same as that of the Master IS.
- Please tap "Save" if the settings have been changed.

[6] Tap "Continue".

< IP A	ddresing				
		IP Address () Building Network 192,168.1.101	5 Edit		
					6
< IP A	ddresina क्षेट Edit Building Net	:work		×	Continue
	Connection preferen Connection preferen Addressing preferen	WIFI			
	DHCP(Default)	ABB Legacy	Customizable address		
	192.168.1.101 Default gateway 192.168.1.1	255.25 DNS 192.16	5.255.0	Save	
					Continue



[7] On the "Time & date" screen, you can carry out this setting at this time or tap "Continue" to skip this setting for the moment.

[8] There are 4 screens to guide you how to use the panel.

[9] Tap "Skip" if you are already familiar with the panel.



#### 4.2.6 Adding new trusted devices via auto search

IPA and 2nd OS with IC can only release the lock when they have been added to the trusted devices list.

If the designated device has not been added to the trusted device list during the "Setup Wizard", you can add them afterwards via auto search.

Please follow the steps below:

- [1] On the "Advanced Settings" screen, ensure "Enable trusted devices function" is enabled.
- [2] On the "Advanced Settings" screen, tap "Trusted Devices" to access the corresponding screen.
- [3] Tap " 🙂 ".
- [4] Tap "Automatic search".

imes Settings	08:07 Wed 01-11-2023 🛛 🛜 💭 <<
↓) Sound	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES
<ul> <li>∂ Network Connections</li> </ul>	Addressing
<sup>0</sup> m Time & Date	Master Mode Private Network Port Master mode WIFI
∞ Access Management	
႔ User Settings	Set physical address
🕁 Video Surveillance	Enable trusted devices function
ပ္ပံ Intercom List	
Program Button	Physical Address Physical Address
ည်သို့ Advanced Settings	001-0101-01
🎵 Software Update	IP Address
(j) About	Building Network 10.0.65.0 192.168.100.224
imes Settings	11:43 Fri 05-01-2024 여불 💭 숙》
ျံ» Sound	<b>1</b>
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES
💮 Network Connections	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES
ି Network Connections ୭ <sub>ଆ</sub> Time & Date	Trusted Devices Device Details:
	<b>_</b>
ව <sub>සා</sub> Time & Date	Trusted Devices Device Details:
ீற Time & Date ≂⊙ Access Management	Trusted Devices Device Details: Indoor Station-01 Device Name Indoor Station-02 Device Number
ి <sub>ది</sub> Time & Date ∞ Access Management ,९ User Settings	Trusted Devices Device Details: Indoor Station-01 Indoor Station-02 Device Number 01 Serial Number
ి <sub>టె</sub> Time & Date ∞ Access Management 八 User Settings ట Video Surveillance	Trusted Devices Device Details: Indoor Station-01 Indoor Station-02 Device Number 01 Serial Number
ి <sub>ట</sub> Time & Date ⇔ Access Management 八 User Settings ↔ Video Surveillance 및 Intercom List	Trusted Devices     Device Details:       Indoor Station-01     Indoor Station       Indoor Station-02     Device Number       01     Serial Number       102807A7F06DB7C
الله الله الله الله الله الله الله الله	Trusted Devices     Device Details:       Indoor Station-01     Device Number Indoor Station       Indoor Station-02     Device Number 01

- [5] The devices on the same home network will be displayed on the list.
- "√" means the device has been configured successfully. Otherwise please restore the designated device to the default factory settings.
- [6] Tap "Continue".
- [7] Enable the "Trust all devices".

imes Settings		11:44 Fri 05-01-2024	har C ⊂
්) Sound			
🗟 Network	Add Trusted Devi	ces	×
 စ <sub>ဤ</sub> Time & [			
 ≂⊙ Access N	4 devices have been a	dded to the list :	
 ر User Set	Indoor Station-01	102807A7F06DB7C	✓
	Indoor Station-02	102807A7F06DC52 5	
က် Video S၊	 2nd OS-01		<b>√</b>
0, Intercor	Private IP Actuator-0	104000CDE017FEE	
Program			
ည်း Advance			Continue 6
🖵 Softwar			
(i) About			
		11:44 Fri 05-01-2024	<b>₩</b> \$ <>
× Settings ⊲)》Sound		11:44 FN 05-01-2024	
💮 Network Connec	ctions	PANEL ACTUATORS OUTDOOR STATIONS	TRUSTED DEVICES
		Trusted Devices	Device Details:
ଡ୍ଲ୍ Time & Date		Indoor Station-01	Device Name
∝⊙ Access Manager	ment	Indoor Station-02	Indoor Station
्र User Settings			01
🕁 Video Surveillan	ce	2nd OS-01	Serial Number 102807A7F06DB7C
0 Intercom List		Private IP Actuator-01	
Program Button	1	Trust all devices	
ෑරිූ Advanced Settir	ngs		
🌈 Software Updat	e		
(i) About			

- [8] Tap "Trust All".
- [9] All trusted devices will be displayed on the screen.

[10]  $\heartsuit$  will be displayed on the right to indicate the 2nd OS with IC or IP Actuator can use the unlock function.

imes Settings		11:44 Fri 05-01-2024	h ⊖ ⇒
ද්) Sound			
🗟 Networł 🖉	Trust device		X
<sup>စ</sup> ္က Time & I			
≂	Trusting all device	25	
ل ر User Set	By clicking on the Trus	t Button, the all devices will be trusted.	_
		ill allow the Indoor Station panels in the system to gra es and IP Actuator devices the authorisation to unlock	
		8	
0 Intercor		Trust All Cancel	
Program			
ႏြား Advance			
💭 Softwar			
(j) About			
× Settings		11:45 Fri 05-01-2024	·뷰 (Ĵ) (Ĵ)
பூல் Sound		PANEL ACTUATORS OUTDOOR STATIONS	TRUSTED DEVICES
💮 Network Connec	ctions	FANEL ACTUATORS OUTDOOR STATIONS	
ං ලා Time & Date		Trusted Devices	Device Details:
ے۔ میں Access Manager	ment	Indoor Station-01	Device Name Indoor Station
		Indoor Station-02	Device Number
္ဂိ User Settings		2nd OS-01	01
🕁 Video Surveillan	ce	IO	Serial Number 102807A7F06DB7C
		Private IP Actuator-01 🛛 📿	
0 Intercom List			
<ul> <li>Intercom List</li> <li>Program Button</li> </ul>			
		Trust all devices	
Program Button	ngs		

#### 4.2.7 Adding new trusted devices manually

IPA and 2nd OS with IC can release the lock only when they have been added to the trusted devices list.

If the designated device has not been added to the trusted device list during the "Setup Wizard", you can add them manually.

Please follow the steps below:

- [1] On the "Trusted Devices" screen, tap " 😐 ".
- [2] Select "Entry manually".

× Settings	14:41 Mon 08-01-2024	<b>₩</b> Û <>
Display	PANEL ACTUATORS OUTDOOR STATIONS	
ද්) Sound		
🙃 Network Connections	Trusted Devices	Device Details:
ව <sub>ා Time &amp; Date</sub>		Indoor Station
📼 Access Management	Indoor Station-02	Device Number 01
्री User Settings		Serial Number 102807A7F06DB7C
🕁 Video Surveillance	Trust all devices	
0 Intercom List	Automatic search	
Program Button	Entry manually 2	
ည္လို Advanced Settings	_ <sup> </sup> + 1	
🔿 Software Update		

- [3] Select the device type from the drop-down list. It can be set to "2nd OS", "Private IP actuator" or "Indoor station".
- [4] Enter the device number.
- [5] Enter the serial number.
- [6] Tap "Save & Close".

imes Settings		14:38 Mon 08-0	1-2024			Ĵ ⊲»
<ul><li>Display</li><li>Ø</li></ul>	ا Manually add Trusted Devi	ices			×	
Sound						
	evice Type 3	~	oi 4		- 1	
	erial Number 5					
റ User Set						
မ္မာ Video Su						
Untercor				6		
Program			Cancel	Save & Close		
ႏွဂ္ဂိ} Advanceu ခဏ္ဏေျမ	1 <sup>5</sup>					
🥂 Software Update						

- [7] The designated device has been added to the list.
- [8] Tap "Trust all devices".
- [9] Tap "Trust All".

X Settings	14:27 Mon 08-01-2024	ht い へ シ へ シ
O Display	PANEL ACTUATORS OUTDOOR STATIONS	TRUSTED DEVICES
ද්)ง Sound		
🙃 Network Connections	Trusted Devices	Device Details:
ൗ <sub>ണ്ണ</sub> Time & Date	Indoor Station-01	Indoor Station
∞ Access Management	Indoor Station-02	Device Number 01
کر User Settings	2nd OS-01	Serial Number 102807A7F06DB7C
🕁 Video Surveillance	Private IP Actuator-01 📿	
	Trust all devices	
Program Button		
රෝ Advanced Settings		
🥂 Software Update		
X Settings	14:39 Mon 08-01-2024	+# ♀ <>
<ul> <li>Display</li> <li>Trust device</li> </ul>	1	×
Sound		
🙃 Network		
Trusting all devic		
and Access ↑ This authentication w	st Button, the all devices will be trusted. /ill allow the Indoor Station panels in the system to grai ces and IP Actuator devices the authorisation to unlock	nt the
Outdoor Station dev	Q	
لللل Video Su	Trust All Cancel	
Ų, Intercor		
Program		
ကြို့ Advanceu ခင္းကမ္မာ		

[10]The designated device is now a trusted device, and  $\heartsuit$  will be displayed on the right to indicate the 2nd Outdoor Station or the IP Actuator can use the unlock function.

[11]"Trust all devices" will be enabled if all devices have been set to trusted.

X Settings	14:39 Mon 08-01-2024	rta Ĉ ⊲≫
	PANEL ACTUATORS OUTDOOR STATIONS	
ද්ා) Sound	Twentood Davidance	Device Details:
🙃 Network Connections	Trusted Devices	Device Details:
ூற Time & Date	Indoor Station-01	Indoor Station
	Indoor Station-02	Device Number 01
 رکر User Settings	2nd OS-01	Serial Number 102807A7F06DB7C
	Private IP Actuator-01 🛛 📿	
0 Intercom List	Trust all devices	
Program Button		
දරුි Advanced Settings		
🌈 Software Update		

## 4.2.8 Removing the trusted device

Please follow the steps below:

- [1] On the "Trusted Devices" screen, swipe the relevant device to the left.
- [2] Tap "



Note

If the device is removed from the trusted devices list, it cannot use the unlock function any more.

imes Settings	08:38 Wed 01-11-2023	ି 🗘 🗘
	PANEL ACTUATORS OUTDOOR STATIONS	
ද්) Sound		
Retwork Connections	<ul> <li>Trusted Devices</li> <li>Indoor Station-01</li> </ul>	Device Details:
ංංක Time & Date		2° Outdoor Stat.
∝⊙ Access Management	- Indoor Station-02	Device Number 01
्री User Settings	- <u>25-01</u> 2	Serial Number 101807A7F0296C0
。	Trust all devices	
ပ္ပံ Intercom List	- '	
Program Button		
နုဝ္ဂ်ိဒ္ Advanced Settings		
C Software Update		

# 5 Grouping and Forwarding

## 5.1 Grouping Management Function

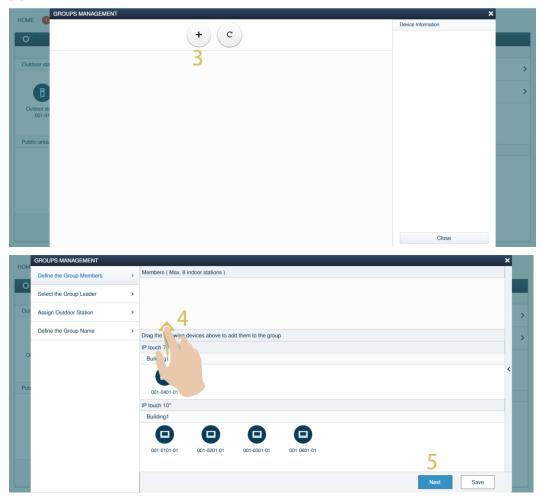
The Grouping call feature allows the multiple calls of different Indoor Stations, independently of their mode, apartment location and type, as long as they all belong to the same Building System.

Please follow the steps below:

- [1] On the "Main Menu" screen of SmartAP, click "Door Entry System".
- [2] Click "Grouping".

✓ 1 Pa se	os 👔 🖡		MAIN MENU			
	RF WIRELESS CONNECTION	PLACE + LINK	USER MANAGEMENT			DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
e memo					Device configura	ation 🔅 Preferences
HOME 🚺 🗟 SOS	s 😰 🖡	<	DOOR ENTRY SYSTEM	>		
0	OUTDOOR STATIONS	() TRUST	GROUPING			LIST VIEW
Outdoor stations				<b>W</b>	Outdoor station 001-	01 >
Cutdoor station O 001-01	Utdoor station 001-03				Outdoor station 001-	03 >
Public area					Public area	
	E Indoor station	o⊶ ation IP actuator	Guard unit Elevato			

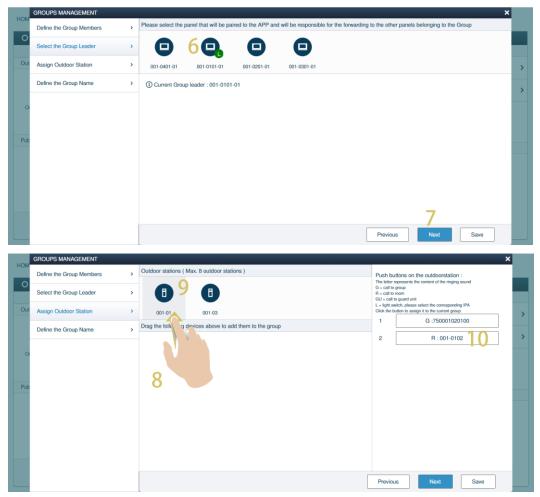
- [3] Click " + " to add a new group.
- [4] Drag the designated Indoor Stations to the "Members" section.
- Maximum 8 Indoor Stations can be supported.
- [5] Click "Next".



- [6] Select an Indoor Staton as a leader.
- [7] Click "Next".
- [8] Drag the designated Outdoor Stations to the "Outdoor Stations" section.
- If no pushububtton Outdoor Station is selected, please continue step 13.
- If a pushububtton Outdoor Station is selected, please continue step 9.

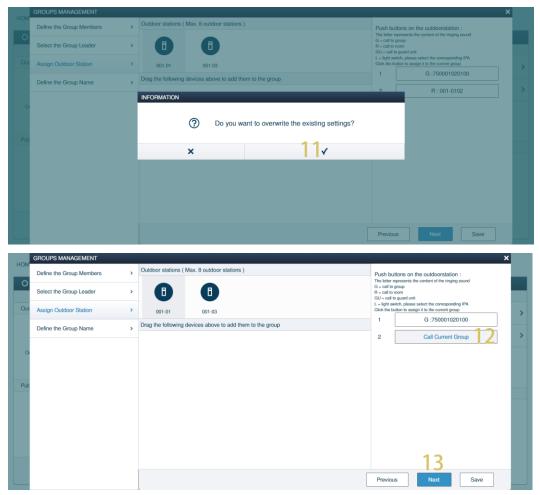
[9] Tap a Pushbutton Outdoor Station.

[10]Tap the designated pusubutton.



[11]Click "  $\checkmark$  " to overwirte the existing setting of the pushbutton.

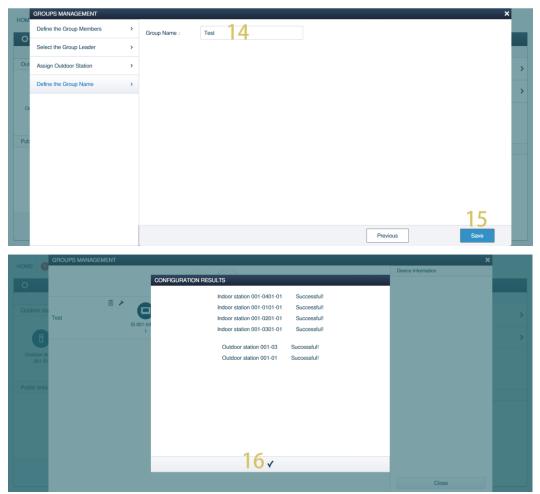
[12]"Call Current Group" will be displayed to indicate the grouping call is activated.[13]Click "Next".



[14]Enter the group name.

[15]Click "Save".

[16]All the deivces in the group will be displayed on the screen. Click "  $\checkmark$  ".



[17]Click " <sup>•</sup> " to refresh the screen.

[18]The group is displayed on the screen.

[19]Manage the group.

- Click " *I* to edit the group.
- Click " I to remove the group.



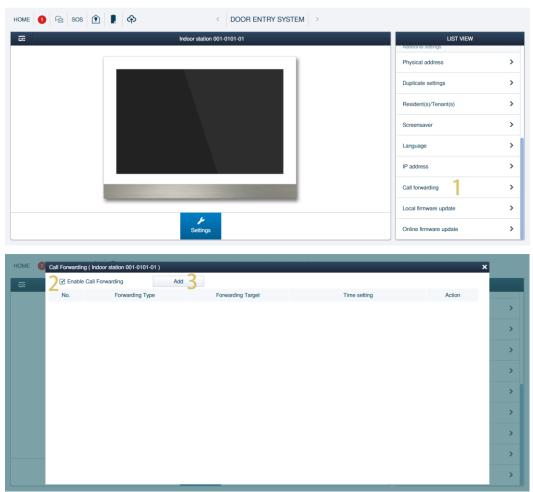
## 5.2 Forwarding Call Feature

#### 5.2.1 Forwarding Call for Indoor Stations

The Forwarding call feature allows the call destinated to one Indoor Station to be redirected to a determined alternative Indoor Station, directly, in specific time slots, or in case of missing answer within a selected time.

Please follow the steps below:

- [1] On the designated Indoor Station screen of SmartAP, click "Call forwarding".
- [2] Tick the checkbox to enable the function.
- [3] Click "Add".



- [4] Select the forwarding type. It can be set to "Direct Forwarding" or "No Answer".
- If "No Answer" is selected, you need to set "Duration", it can be set to "15", "20" or "25". The call will be forwarded after the duration time specified.
- If "Direct Forwarding" is selected, the call will be redirected immediately.
- [5] Click "Select" to select the target device.
- [6] Set the effective time, it can be set to "Specified time slot" or "Always".
- If the effective time is set to ""Specified time slot", you need to set the start time, end time and work days.
- [7] Click "√".
- [8] The forwarding setting is displayed on the screen.
- [9] Manage the forwarding setting.
- Tick/untick the checkbox to enable/disable the forwarding setting.
- Click " *\** " to edit the forwarding setting.
- Click " 1 to remove the forwarding setting.

Call Forwarding ( In	door station 001-010	-01 )					×
Enable Call	Forwarding	EDIT					
No.	Forwarding T					Action	
		Forwarding type	Direct Forwarding	4	~		>
		Forwarding target	Indoor station 001	-0201-01	Select 5		>
		Time setting	Specified time slot	6	~		>
		Start	09	✓ : 00	~		
		End	17	✓ : 00	~		
			Monday	Tuesday	Wednesday		>
		Week	Thursday	Friday	Saturday		>
			Sunday	Weekday	Weekend		>
				7			
		×		_			

номе 1	Call Forward	ling ( Indoor station 001-01	01-01)			×	
<u>.</u>	🗹 Enab	le Call Forwarding	Add				
	No.	Forwarding	Туре	Forwarding Target	Time setting	Action	_
	1	8 Direct Forwa	arding	Indoor station 001-0201-01	09:00~17:00 Mo,Tu,We,Th,Fr	⊻ ≯ ḿ 9	>
						-	
							>
							>
							>
							>
							>
							>
							>

## 5.2.2 Forwarding Call for Guard Units

The Forwarding call feature allows the call destinated to one Guard Unit to be redirected to a determined alternative Guard Unit, directly, in specific time slots, or in case of missing answer within a selected time.

- [1] On the designated Guard Unit screen of SmartAP, click "Call forwarding".
- [2] Tick the checkbox to enable the function.
- [3] Click "Add".

HOME 🚺 😼 SOS 🕐 💄 🗇	< DOOR ENTRY SYSTEM >	
G	uard unit #02	LIST VIEW
		103807A7F0296B6
		Version
		HGM53_GU_Main_V1.57_20240829_PP_IMX6SOU
		Additional settings
		Alias >
		Call forwarding
115		Multiple GU settings
and the second sec		IP address >
and the second se		Local firmware update >
	2	Online firmware update
	tings	× ✓ Save
Call Forwarding (Quard unit #02)         No.       Forwarding Type         No.       Forwarding Type         No.       Forwarding Type	Forwarding Target Tin	Action

- [4] Select the forwarding type. It can be set to "Direct Forwarding" or "No Answer".
- If "No Answer" is selected, you need to set "Duration", it can be set to "15", "20" or "25". The call will be forwarded after the duration time specified.
- If "Direct Forwarding" is selected, the call will be redirected immediately.

[5] Click "Select" to select the target device.

[6] Set the effective time, it can be set to "Specified time slot" or "Always".

 If the effective time is set to ""Specified time slot", you need to set the start time, end time and work days.

[7] Click "√".

- [8] The forwarding setting is displayed on the screen.
- [9] Manage the forwarding setting.
- Tick/untick the checkbox to enable/disable the forwarding setting.
- Click " *\** " to edit the forwarding setting.
- Click " 1 to remove the forwarding setting.

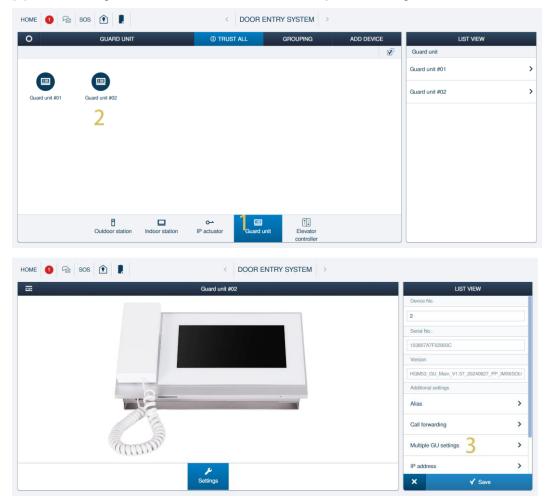
Call Forwarding ( Gu	uard unit #01 )					 	×
Enable Call F	Forwarding	EDIT	_	_	_		
No.	Forwarding Ty					Action	
		Forwarding type	Direct Forwarding	4	~		
		Forwarding target	Guard unit #02		Select 5		
		Time setting	Specified time slot	6	~		
		Start	09	✓ : 00	~		
		End	17	✓ : 00	~		>
			Monday	Tuesday	Wednesday		>
		Week	Thursday	Friday	Saturday		
			Sunday	Weekday	Weekend		
							>
		×		7∢			>

НОМЕ	Call Forwa	rding ( Gua	rd unit #01 )				×
	🖌 En	able Call Fo	orwarding Add				
	No.	~	Forwarding Type	Forwarding Target	Time setting	Action	
		8	Direct Forwarding	Guard unit #02	09:00~17:00 Mo,Tu,We,Th,Fr	⊻ ¢ 9	JIMORSOLI > > > >

## 5.3 Linking Guard Units

All Guard Units except Guard Unit 1 can be linked to Guard Unit 1. After the setting, these Guard Units will ring at the same time as Guard Unit 1 during an incoming call.

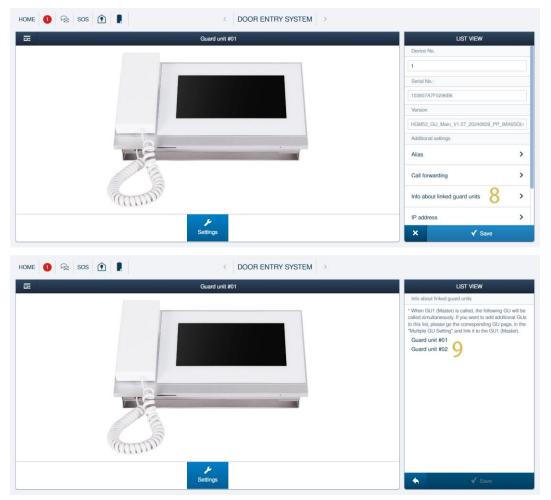
- [1] On the "Door Entry System" screen, click "Guard Unit".
- [2] Click the designated Guard Unit.
- [3] On the designated Guard Unit screen, click "Multiple GU settings".



- [4] Tick the check box to enable the function.
- [5] Click "Save".
- [6] Click "  $\checkmark$  ".
- [7] Go back to "Guard Unit" screen, click Guard Unit 1.

HOME 🚺 🗟 SOS 💽 💂 🏟	DOOR ENTRY SYSTEM	
	Guard unit #02	LIST VIEW
INFORMAT		Multiple GU settings  In Link to GU1 (Master)  I Checked, when GU1 is called, this device will be called simultaneously.
Carantin .	Configuration success	
	Settings	Save
HOME 🚺 🖓 SOS 🕐 🗜	< DOOR ENTRY SYSTEM >	
HOME 0 23 SOS 1 1	< DOOR ENTRY SYSTEM → O TRUST ALL GROUPING ADD DEV	
		Image: Second

- [8] On the Guard Unit 1 screen, click "Info about linked Guard Units".
- [9] The linked Guard Units will be displayed on the screen.



# 6 Firmware update

## 6.1 Updating overview

There are 4 scenarios for updating the firmware.

No.	Using SmartAP	Connect to internet	Reference		
1	Home mode Yes		For more details, see chapter 6.2 "Updating the firmware - Single Family Home mode with internet" on page 188.		
2	No, Single Family Home mode	No	For more details, see chapter 6.3 "Updating the firmware - Single Family Home mode without internet" on page 194.		
3	Yes	Yes	For more details, see chapter 6.4 "Updating the firmware - SmartAP with internet" on page 199.		
4	Yes	No	For more details, see chapter 6.5 "Updating the firmware - SmartAP without internet" on page 203.		

## 6.2 Updating the firmware - Single Family Home mode with internet

#### 6.2.1 Updating the firmware of the panel online

This chapter applies to IP Touch 7, IP Touch 10 and IP Touch Lite 7, not including Audio IP.

On the panel, please follow the steps below:

- [1] On the "Settings" screen, tap "Software Update".
- [2] The current software version will be displayed on the screen.
- [3] Tick the check box to enable the download function.
- If this function is enabled, the panel will check the new version and download the firmware automatically.
- If this function is enables, please skip the step 4-8 and continue the step 9.
- [4] Tap "Check for update".
- [5] The new version will be displayed on the screen.
- [6] A release note for the new version will be displayed on the screen.
- [7] Tap "Download".

imes Settings	01:36 Fri 24-05-2024 🔒 27.7°C	$\sim$	Ļ	$\Box$
Oisplay	FIRMWARE UPDATE			
ද්) Sound	2			
Retwork Connections	Software Version: HG117-U2_Main_V3.00_20240521_MP_IMX6SOLO Z			
ூ ™ Time & Date	MCU Version: HGI17_MCU_V2.03_20220211_PP_IMX6			
🗝 Access Management	Update from internet:			
入 User Settings	C Check for update 4			
。 つ Video Surveillance	Check and download automatically			
↓ Intercom List				
Program Button	Update from SD card:			
හිරිූ Advanced Settings	Read SD card			
💭 Software Update 1				
(i) About	Reboot this panel:			

imes Settings	09:41 Tue 28-05-2024 🗯	$\sim$	Ð	Ţ,	¢≫
Oisplay	FIRMWARE UPDATE				
다) Sound	Software Update	×			
ି Cloud Connections	Online				
© <sub>∭</sub> Time & Date					
🖘 Access Manageme	∠ v3.00_20240527 5				
्र User Settings	-				
🕁 Video Surveillance	Release note : 0 this is a release note for V3.00_20240527 AT				
🔱 Intercom List					
Program Button					
భ్రో: Advanced Settings	7				
💭 Software Update					
i About					
	C Reboot panel				

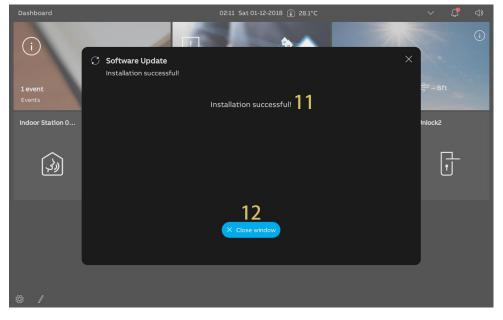
- [8] It will take a little while to download the new software.
- [9] Tick the check box to accept the licence.

[10]Tap "OK".

• If you don't want to update the firmware, tap "x" to exit.

imes Settings	09:41 Tue 28-05-2024 👔 28,6°C	$\sim$		Ţ,	
	FIRMWARE UPDATE				
灯》Sound	${\cal G}$ Software Update	×			
Cloud Connections	Installing				
ම <sub>ස</sub> Time & Date					
🗢 Access Manageme	$\mathcal{C}$ Download				
人 User Settings	Installing 8				
🕁 Video Surveillance	Reboot				
↓ Intercom List					
Program Button					
හිරි Advanced Settings					
💭 Software Update					
i About					
	C Reboot panel		<b>`</b>		
			-	-	
🗮 Dashboard-Fraya	09:45 Tue 28-05-2024 👔 28,6°C			Ц <b>р</b>	
				100	
- ioi		1	2		()
	${\cal Q}$ Software Update	¢ ×			()
		<b>₽</b> ×	þ:	°C	()
All off Lights	${\cal Q}$ Software Update	×	-) Ср В°		
	<ul> <li>Software Update Licence agreement End User-agreement</li> <li>END-USER LICENSE AGREEMENT IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal</li> </ul>	×	1		()
Lights	<ul> <li>Software Update Licence agreement End User-agreement</li> <li>END-USER LICENSE AGREEMENT</li> <li>IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between YOU (either an individual or a single entity) and ABB Xiamen Smart Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)". SOFTWARE</li> </ul>	×	း ` ခို B		
Lights	<ul> <li>Software Update Licence agreement End User-agreement</li> <li>END-USER LICENSE AGREEMENT</li> <li>IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between YOU (either an individual or a single entity) and ABB Xiamen Smart Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)". SOFTWARE PRODUCT(s) means the machine readable (object code) version of the computer programs including firmware, any copies made, bug fixes for, updates to, or upgrades</li> </ul>	×	း ` ခို B		
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Lights	<ul> <li>Software Update Licence agreement End User-agreement</li> <li>END-USER LICENSE AGREEMENT</li> <li>IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between YOU (either an individual or a single entity) and ABB Xiamen Smart Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)". SOFTWARE PRODUCT(s) means the machine readable (object code) version of the computer programs including firmware, any copies made, bug fixes for, updates to, or upgrades thereof, and associated software components, media, printed materials, and "online" or</li> </ul>	×	း ` ခို B		
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Lights	<ul> <li>Software Update         Licence agreement End User-agreement         Licence agreement End User-agreement         END-USER LICENSE AGREEMENT         IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal         agreement between YOU (either an individual or a single entity) and ABB Xiamens         Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)". SOFTWARE         PRODUCT(s) means the machine readable (object code) version of the computer         programs including firmware, any copies made, bug fixes for, updates to, or upgrades         thereof, and associated software components, media, printed materials, and "online" or         electronic documentation installed on a Designated Hardware distributed to YOU.         "Designated Hardware" means the hardware supplied by COMPANY with which the         SOFTWARE PRODUCT(s) is designed to operate.     </li> </ul>	×	ਵੇਂਾ B' Inlock		
Lights	<ul> <li>Software Update         Licence agreement End User-agreement         Licence agreement End User-agreement         END-USER LICENSE AGREEMENT         IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal         agreement between YOU (either an individual or a single entity) and ABB Xiamen Smart         Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)", SOFTWARE         PRODUCT(s) means the machine readable (object code) version of the computer         programs including firmware, any copies made, bug fixes for, updates to, or upgrades         thereof, and associated software components, media, printed materials, and "online" or         electronic documentation installed on a Designated Hardware distributed to YOU.         "Designated Hardware" means the hardware supplied by COMPANY with which the         SOFTWARE PRODUCT(s), YOU AGREE TO BE BOUND BY THE TERMS OF         V using the SOFTWARE PRODUCT(s), YOU AGREE TO BE BOUND BY THE TERMS OF         <u>10</u> </li> </ul>	×	ਵੇਂਾ B' Inlock		
Lights	<ul> <li>Software Update         Licence agreement End User-agreement         Licence agreement End User-agreement         END-USER LICENSE AGREEMENT         IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal         agreement between YOU (either an individual or a single entity) and ABB Xiamen Smart         Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)", SOFTWARE         PRODUCT(s) means the machine readable (object code) version of the computer         programs including firmware, any copies made, bug fixes for, updates to, or upgrades         thereof, and associated software components, media, printed materials, and "online" or         electronic documentation installed on a Designated Hardware distributed to YOU.         "Designated Hardware" means the hardware supplied by COMPANY with which the         SOFTWARE PRODUCT(s), YOU AGREE TO BE BOUND BY THE TERMS OF         V using the SOFTWARE PRODUCT(s), YOU AGREE TO BE BOUND BY THE TERMS OF         <u>10</u> </li> </ul>	×	ਵੇਂਾ B' Inlock		

[11]"Installation successful!" will be displayed on the screen if successful.[12]Tap "Close window".



## 6.2.2 Updating the firmware of the IP Actuator or the 2nd OS via APP

On Single Family Home mode, IP Actuator and the 2nd OS should be updated via APP. Please follow the steps below:

- [1] On the APP "Home" screen of APP, tap "v".
- [2] Tap "Firmware upgrade".
- [3] Click "Welcome-IP".
- "• " will be displayed if there is a new version for the devices.

✓ Home		∧ Home		< Firmware upgrad	le
"jacky" iPhone, No events		Settings		Welcome-IP <b>3</b>	• >
			>	5	
		Account name and license information	>	Welcome	>
		Notifications and Sounds	>	IP Camera	>
$\wedge$			>	SmartAP	
		Firmware upgrade 2	>		
"jacky" iPhone			>		
			>		
	Events 🔨				
	Ĩ				

- [4] Find the designated 2<sup>nd</sup> OS or IP Actuator, tap "
- Tap " I to view details about the new version.

[5] Tap "OK".

Firmware upgrade       2nd0S01-dghj       Version:1.12	Upgrade All 4	Firmware upgrade Upgrade All           IPA05-test         IPA05-test           Version:1.03         Image: Compared test of te
IS01-dghj Version:1.40	i 🗈	ISO1-test Version:1.13
		Version:0 ISO1-test(Ver 99.99) Do you want to upgrade? Accept EULA License Agreement X OK 5

## 6.3 Updating the firmware - Single Family Home mode without internet

#### 6.3.1 Updating the firmware of the panel via SD card

This chapter applies to IP Touch 7 and IP Touch 10, not including IP Touch Lite 7 and Audio IP. Please ensure that the firmware update file has been stored in the SD card and the SD card has been inserted into the panel.

- [1] On the "Settings" screen, tap "Software Update".
- [2] The current software version will be displayed on the screen.
- [3] Go to the "Update from SD card" section, tap "Read SD card".
- [4] Select the designated update file.
- [5] Tap "Install the update".
- [6] A release note for the new version will be displayed on the screen.
- [7] Tap "Download".

× Settings	01:36 Fri 24-05-2024 👔 27.7°C 🗸 🗸					
Oisplay	FIRMWARE UPDATE					
口》 Sound	Software Version: HGI17-U2_Main_V3.00_20240521_MP_IMX6SOL02					
ି ତି Network Connections	Software Version: HGI17-U2_Main_V3.00_20240521_MP_IMX650L0 🚄					
<sup>စ</sup> ြူ Time & Date	MCU Version: HGI1_MCU_V2.U3_20220211_PP_IMA6					
←⊃ Access Management	Update from internet:					
人 User Settings	C Check for update					
。						
↓ Intercom List	Check and download automatically					
Program Button	Update from SD card:					
හිරි Advanced Settings	Read SD card					
(i) About	Reboot this panel:					
	keboot panel					
X Settings	01:55 Sat 01-12-2018 👔 27.2°C 🗸 🗸	<b>₽</b> ⊲»				
Oisplay	FIRMWARE UPDATE					
く》 Sound C Software	e Update X					
ି Cloud Connections SD Card						
© <sub>⊞</sub> Time & Date Install fi	rmware version"ENC_HGI17-					
← Access Manageme U2_V3.0	0_20240527_MP_IMX6SOLO_AT_factory_filesystem_usr.img"? 4					
、						
。。	🕹 Install update 5					
↓ Intercom List						
Program Button						
୍ର୍ଷ୍ମି Advanced Settings						
Ø Advanced Settings Ø Software Update						
୍ର୍ଷ୍ମି Advanced Settings						
Ø Advanced Settings Ø Software Update						

Firmware update

[8] It will take a little while to prepare the installation.

[9] "Installation successful!" will be displayed on the screen if successful.[10]Tap "Close window".

imes Settings	01:55 Sat 01-12-2018 👔 27.3°C	$\sim$	С <b>р</b>	¢≫
	FIRMWARE UPDATE			
口》 Sound	🗘 Upgrade			
Cloud Connections	, oppratin			
© <sub>∭</sub> Time & Date				
≪⊙ Access Manageme				
入 User Settings	€ Loading 8			
🕁 Video Surveillance				
0 Intercom List				
Program Button				
දිබූ Advanced Settings				
💭 Software Update				
i About				
				00450
Dashboard	02:11 Sat 01-12-2018 👔 28.1°C	~	¢.	
	C Software Update ×			
1 event	Installation successful!	੍ਹੀ Bft		
Events	Installation successfull 9			
Indoor Station 0	-	Inlock2		
( <del>*</del> )			<u>1</u> 1	
	10			
	× Close window			
\$\$ <b>/</b>				
~~~~ / ·				

## 6.3.2 Updating the firmware of the IP Actuator or the 2nd OS via SD card

The following operations take the 2nd OS as an example.

- [1] On the "Outdoor Stations" screen of the panel, tap "Read SD card".
- [2] Select the designated Outdoor Station.
- [3] Select the updating file from SD card.
- [4] Tap "Save & Close".

imes Settings			01:15 Sat 01-12-2018 👔	〕 27.8℃	Ţ,	
Display	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES		
仁) Sound		Buttons Se	t-up			
Cloud Connections		Columns of Butt 1	ions	Y Push button settings		
© <sub>∭</sub> Time & Date		Sync Time Sync with St	martAP	×		
🗝 Access Management						
्रि User Settings		Device Vers Mainboard				
🦽 Video Surveillance		MCU :				
Untercom List		NFC :				
Program Button		Serial Num Signature :				
없 Advanced Settings						
🦵 💭 Software Update		ок				
i About		Update fr	om SD card:			
			ead SD card			

imes Settings	01:16 Sat 01-12-2018 🌒 27.8°C	$\sim$	С <b>р</b>	⊲»
Oisplay	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
්) Sound	() Information X			
	Update from SD card:			
® Time & Date				
- Access Manageme	Select Device State Device 2nd 05-01 2			
	File nameIC, V1.13, 2024/0326, PP_N32926, factory.img 3			
0 Intercom List				
Program Button				
ැටූි Advanced Settings				
${\cal G}$ Software Update	4			
(i) About	Cancel Save & Close			
	Come D Read SD card			

- [5] "Loading..." will be displayed to indicate that the upgrade is in progress.
- [6] "Push success!" will be displayed if the upgrade is successful.

imes Settings	01:17 Sat 01-12-2018 👔 27.8°C	Ц <b>р</b>	
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES		
다) Sound 🦪 Loading			
Cloud Connections	,		
စ်္က Time & Date			
Access Manageme	5		
八 User Settings	ے Loading		
🕁 Video Surveillance			
0 Intercom List			
Program Button			
② Advanced Settings			
💭 Software Update			
i About			
	Read SD card		
X Settings	01:23 Sat 01-12-2018 👔 27.8°C	Д,	
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES		
く) Sound ① Informa	tion ×		
Cloud Connections OUTDOC	DR STATIONS		
© <sub>⊞</sub> Time & Date			
Contraction Access Manageme Push such	ccess! <b>6</b>		
入 User Settings	<b>O</b>		
。 。 せ Video Surveillance			
。つ Video Surveillance Untercom List			
Untercom List			
<ul> <li>♀ Intercom List</li> <li>□ Program Button</li> </ul>			
Intercom List     Program Button     Advanced Settings			
Intercom List  Program Button  Advanced Settings  Software Update	Read SD card		

## 6.4 Updating the firmware - SmartAP with internet

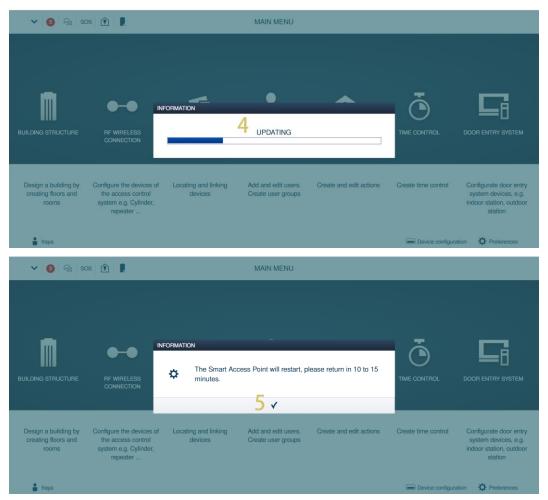
## 6.4.1 Updating the firmware of SmartAP online

If SmartAP can connect to the internet, a pop-up window will appear automatically when there is a new firmware.

- [1] The latest version will be displayed.
- [2] Click "  $\checkmark$  ".
- [3] Download the latest firmware.

✓ ◎ Pa sc	s 🗈 🖡					
BUILDING STRUCTURE	INF INF ORMACTION	want to install it Software versio Updates: New Features: • Welcome IP • Group Call: In	n: V6.58			
Design a building by creating floors and rooms	Configure the devices the access control system e.g. Cylinder, repeater	×		2∢	Create time control	
🛔 imya.					Device configure	tion 🔅 Preferences
✓ 🔕 🗟 sc	os 🕥 🖡		MAIN MENU			
BUILDING STRUCTURE	RF WIRELESS CONNECTION	FORMATION 3	DOWNLOAD	•	TIME CONTROL	DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station

- [4] Updating the firmware.
- [5] Click "  $\checkmark$  " to restart SmartAP.



## 6.4.2 Updating the firmware of other devices online

This chapter applies to all devices of Welcome IP system except SmartAP.

The following operations take the 2nd OS as an example.

- [1] On the designated device screen, click "Online firmware update".
- [2] Current firmware version will be displayed.
- [3] "Current firmware is up to date" will be displayed if no newer version is available.

HOME 🔞 🗟 SOS 💽 🗜	< DOOR ENTRY SYSTEM >	
	2nd-OS 001-0101-01	LIST VIEW Additional settings
		Physical address >
	·: @ ::	Door lock setting
	and the second se	IP address >
	Contraction of the local division of the loc	Card mode setting
		Time synchronization >
		Local firmware update
	BEA	Design label
		Online firmware update
	Settings	List of trusted devices >
HOME 🔟 😼 SOS 💽 💂	< DOOR ENTRY SYSTEM >	
ā	2nd-OS 001-0101-01	LIST VIEW
		Online firmware update Current software version:
		HSE07-IC_Digital_V1.13_20240326_PP_N32926
		Current firmware is up to date 3
	ABS	
	Settings	Save 🗸

## 6.4.3 Updating the public devices online in batches



#### Note

Only the devices which are placed on the public areas (e.g. Guard unit, building IPA, network IPA etc.) can be updated via this method.

- [1] On the configuration screen, click " 🗇 ".
- [2] The devices to be updated are displayed on the screen.
- [3] Click "Update all" to update all the devices in batches.

✓ 1 Pa sos 1	<b>₽</b>   ⊕ <b>1</b>			MAIN	MENU		
		Online firmware upda Device ID Gued wit 491 Biod (PA 00-01 Biod (PA 00-01	to Current versi 1.39 1.03	on 2	New version 1.33 1.65	D	DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the o the access system e.g. ( repeater	1 Tous 2 Tous 	ate all		Ask me next time	time control	Configurate door ontry system devices, e.g. indoor station, outdoor station
🊔 jacky						Device	configuration

## 6.5 Updating the firmware - SmartAP without internet

## 6.5.1 Updating the firmware of SmartAP locally

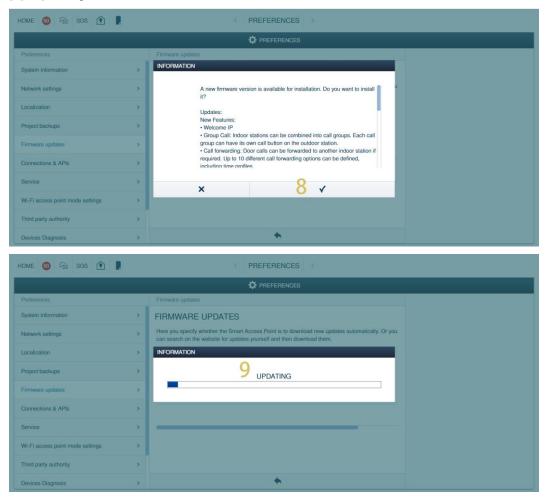
- [1] On the "Preferences" screen of SmartAP, click "Firmware updates".
- [2] Click "Transmit firmware to devices".
- [3] Click "Browse" to add the new firmware.
- [4] Click "  $\checkmark$  ".

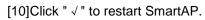
	C PREFERENCES
Preferences	Firmware updates
System information	> FIRMWARE UPDATES
Network settings	Here you specify whether the Smart Access Point is to download new updates automatically. Or you can search on the website for updates yourself and then download them.
Localization	> Automatic download of firmware updates
Project backups	> Transmit firmware to device 2
Firmware updates	>
Connections & APIs	>
Service	>
Wi-Fi access point mode settings	>
Third party authority	>
Devices Diagnosis	s •
Home 🚳 🗟 Sos 💽 🖠	< PREFERENCES >
HOME 🧐 🗟 SOS 🕐 📗	
Preferences	C PREFERENCES
Preferences System information	
Preferences System information Network settings	
Preferences System information Network settings Localization	
Preferences System information Network settings Localization Project backups	
Preferences. System information Network settings Localization Project backups Firmware updates	
Preferences System information Network settings Localization Project backups Firmware updates Connections & APts	PREFERENCES         Firmware updates         FIRMWARE UPDATES         Here way exactly whether the Smart Access Point is to deveload new undates automatically. Or your INFORMATION         Transmit firmware to device         C:\takepath\HGM52-CS-SmartAP_MAIN         Browser         X
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs Service	PREFERENCES     Firmware updates     Firmware updates     Firmware updates     Firmware updates     Events     Even

- [5] Updating the firmware.
- [6] Tick the check box to select the designated firmware.
- [7] Click "Install firmware".

HOME 🔘 🖻 sos 🕑 🛛	PREFERENCES O
	Him on constant the Smith Access Don't a to constant one restrict automatically Const INFORMATION
	5 UPLOADING
	× v
Home 🗿 🗟 Sos 🕥 🖠	, < < PREFERENCES > ☆ PREFERENCES
Preferences	Firmware updates
System information	> FIRMWARE UPDATES
Network settings	Here you specify whether the Smart Access Point is to download new updates automatically. Or you can search on the website for updates yourself and then download them.
Localization	> Automatic download of firmware updates
Project backups	> Transmit firmware to device
Firmware updates	New firmware available
Connections & APIs	GIR HGM52-CS-SmartAP_MAIN_V6.58_20240802_PP_IMX6SOLO_customer_filesystem.tw
Service	>
Wi-Fi access point mode settings	> Install firmware
Third party authority	>
Devices Diagnosis	> <b>*</b>

- [8] New features will be displayed on the screen, click "  $\checkmark$  ".
- [9] Updating the firmware.





Home 🚳 🗟 sos 🕥 🛛	1	< PREFERENCES >				
C PREFERENCES						
Preferences		Firmware updates				
System information	>	FIRMWARE UPDATES				
Network settings	2	Here you specify whether the Smart Access Point is to download new updates automatically. Or you INFORMATION				
Localization	>					
Project backups	>	The Smart Access Point will restart, please return in 10 to 15 minutes.				
Firmware updates	>	10				
Connections & APIs	>					
Service	>					
Wi-Fi access point mode settings	>					
Third party authority	>					
Devices Diagnosis	>	٠				

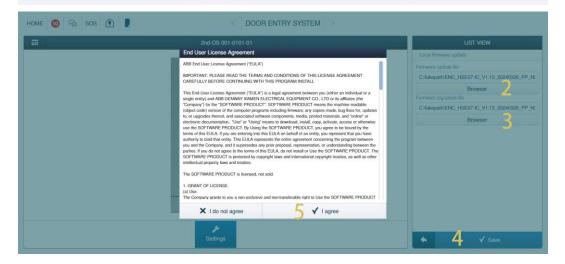
## 6.5.2 Updating the firmware of other devices locally one by one

This chapter applies to all devices of Welcome IP system except SmartAP.

The following operations take the 2nd OS as an example.

- [1] On the designated device screen, click "Local firmware update".
- [2] Click "Browser" to select the update file (.img).
- [3] Click "Browser" to select the signature file (.sig).
- [4] Click "Save".
- [5] Click "I agree" to accept the end user license agreement.

HOME 🔞 🗟 SOS 💽	DOOR ENTRY SYSTEM	
a	2nd-OS 001-0101-01	LIST VIEW
		Additional settings
		Physical address >
		Door lock setting
		IP address >
		Card mode setting >
		Time synchronization >
	â	Local firmware update
	ABB	Design label >
		Online firmware update >
	Settings	List of trusted devices



- [6] Update status will be displayed.
- [7] Click "Close" when the update is completed.

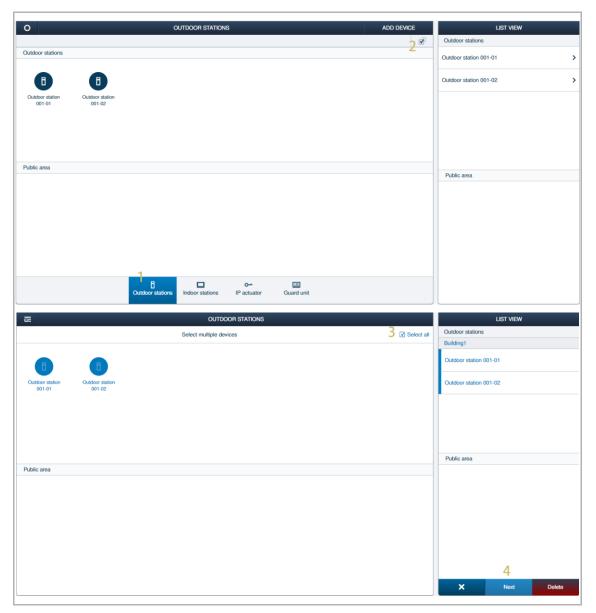
HOME 🔟 🗟 SOS 🏠 📕		DOOR ENTRY SYSTE	EM S		
ā	2nd-OS 001-010	01-01			LIST VIEW
	_	_		Device type	
	Firmware update			Second-confirm	
	Device ID	Update progress	Device update status	Physical addres	
	2nd-OS 001-0101-01	opulate progress	100% 6 Update completed	Block No.:	
	20003001010101			Floor No.:	
				Floom No.:	
				Device No.:	
				Serial No.:	
				101807A7F06D	AF6
				Version	
		Close		HSE07-IC_Digit	tal_V1.13_20240326_PP_N32926
	The second s	ABB			
	ų			Physical addr	ess >
	Settings			Door lock sett	ing >

## 6.5.3 Updating the firmware of other devices locally in batches

This chapter applies to all devices of Welcome IP system except SmartAP.

The following operations take the OS as an example.

- [1] On the "Device configuration" screen, click a Door Entry System device (e.g. "Outdoor station").
- [2] Click " 🗹 ".
- [3] Click "Select all" to select all devices or click the designated device one by one to select multiple devices.
- [4] Click "Next".



- [5] Click "Local firmware update".
- [6] Upload the firmware.
- [7] Upload the signature.
- [8] Click "  $\checkmark$  " to save.

OUTDOOR STATIONS ( 2 devices)	LIST VIEW	
	Multi-outdoor station	
	Time synchronization	•
	Local firmware update 5	
Welcome	Calling type	•
Sunset Boulevard 120	Welcome message	•
	Language	
	List of trusted devices	
Settings Bulletin		
CUTDOOR STATIONS ( 2 devices)	LIST VIEW	
CUTDOOR STATIONS ( 2 devices)	LIST VIEW Local firmware update Firmware update file 5 Browser Firmware signature file 6 Browser	

# 7 Smart Home Integration

For more details about KNX settings, please see the "10.1 KNX settings" chapter of IP touch 7 & 10 product manual.

For more details about free@home settings, please see the "10.2 free@home settings" chapter of IP touch 7 & 10 product manual.

You can access IP touch 7 & 10 product manual via the link: <u>https://search.abb.com/library/Download.aspx?DocumentID=2TMD042400D0014&LanguageCo</u> <u>de=en&DocumentPartId=&Action=Launch</u>.

# 8 API

### 8.1 API overview

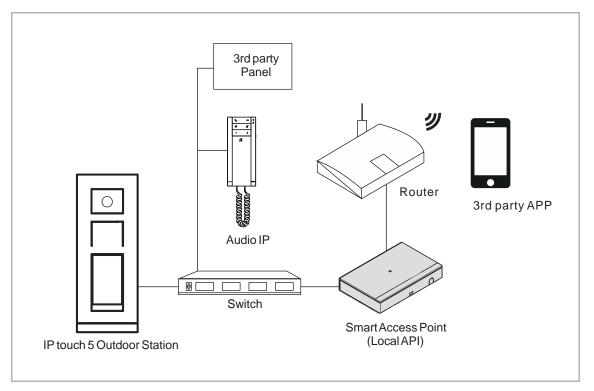
The API provides access to a Welcome IP & AccessControl door entry system, enabling control and monitoring functions.

This API facilitates querying information about the current configuration of the door entry system, including devices and their status. It provides endpoints with the ability to query and modify the current status of devices and receive updates on changes.

Access to the Welcome IP & AccessControl local API is controlled by the user management of the intelligent access point. For this reason, each request must be submitted with valid credentials. The smart access point assigns each user account a generic username that is independent of the account name. The username generated for a specific user account can be found in the Smart Access Point. The credentials are transmitted in accordance with RFC7617 using HTTP Basic Access Authentication.

## 8.2 Topology

The topology is as follows (example only):



## 8.3 Precondition

- Ensure the version of "Smart Access Point" should be 6.36 or above.
- Local API is enabled.
- A local API user is created.

## 8.4 Enabling local API

Please follow the steps below:

- [1] On the "Preferences" screen, click "Connections & APIs" to access the corresponding screen.
- [2] Click "Local API & SIP Configuration".
- [3] Tick the check box to enable the local API function.
- [4] It is recommended to tick the check box to enable TLS encryption.
- [5] If "Enable TLS" is activated, please download the certificate for encryption.
- [6] Click "Save".

If communication security is not a consideration, step 4 and step 5 can be ignored.

		¢	PREF	RENCES
Preferences		Connections & APIs		Local API & SIP Configuration
System information	>	MyBuildings connection	>	☑ Enable local API and SIP connections 3
Network settings	>	Local API & SIP Configuration 2	>	The local API allows you to monitor and control all your Welcome IP devices, as well as thried party IP enabled devices availate on the local network, within the Welcome IP system. The documentation for the local API is available in the ABB Developer Portal: <u>https://documents.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/orkanaa.com/</u>
ocalization	>	API Access	>	Support regress for the Arts can only be made via the developer portar, and we would see to port out that we do not provide support for your own programming. Create at least one user with API access rights in the User Management menu. By enabling the local API, you accept the following terms of use.
Project backups	>	Create and manage SIP accounts	>	Download certificate for encrypted SIP / MQTT connection $5$
Firmware updates	>	License	>	SIP server settings
Connections & APIs 1	>			Enable TLS for more secure SIP communication. The required certificate for the clients can be downloaded at the top of this page.
Service	>			Communication         Image: TLS         UDP         TCP           Transport protocol         Image: SRTP         RTP
Wi-Fi access point mode settings	>			Transfer settings to all devices
Third party authority	>			MQTT connection settings
Abnormal devices	>			When using the local API, it is recommended to enable TLS encryption (at least TLS1.2) on the client. The required certificate can be downloaded at the top of this page.

## 8.5 Creating a local API user

- [1] On the designated user screen, click "Enable" for API access.
- [2] Enter the user's password. If the user has not previously set a password, the password entered here will be used as the password to log into local API.
- [3] Click "√".

HOME 🟮 😼 SOS 🕐 🔋 🔇 VSER MANAGEMENT >	
admin585	E LIST VIEW
	admin585
	User role: Admin
A	API access
	Enable   Disable
	Device sharing
	Email address
Users groups ID authentication(1) Pairing devices Cylinder IP camera	Invitation code :
	Invite
В	
	User information Personal data
Outdoor station	Personal data
	Change password >
	User permission settings
	Users groups >
	ID authentication(1)
please set user permission under each category	ID authentication(1)
HOME	ID authentication(1)
	<b></b>
HOME O Ross I admin585	E LIST VIEW
	E LIST VIEW
HOME O Ra SOS R L ddmin585	E LIST VIEW admin595 User role: Admin
HOME O Ross I admin585	ELIST VIEW admin585 User role: Admin API access
HOME O Rosson R A USER MANAGEMENT >	E LIST VIEW  admin585  User role: Admin  API accese  Enable Disable
HOME INFORMATION	E LIST VIEW  admin585  User role: Admin API access Enable Disable Device sitaring Imail address
HOME INFORMATION	E LIST VIEW  admin585  User role: Admin  API access  E Enable Disable  Device sitairing  real address  witation code :
HOME O Ro SOS O A GARANTICON INFORMATION Users groups ID author Please enter the user's password: 2	Enable Device sharing mail address vetation code :
HOME Response Sos Relation Sos Contractions and the series process of the series proces	Enable Device sharing mail address witation code : User information
HOME O ROS OS O A SOS	Enable Device sharing mail address vetation code :
HOME Residue Sos Reliance Sos R	Enable Device sharing mail address witation code : User information
HOME Residue Sos Reliance Sos R	ELIST VIEW
HOME Residue Sos Reliance Sos R	
HOME Residue Sos Reliance Sos R	

[4] Local API user is displayed on the screen.

USERS		E LIST VIEW
		Users
	+ Add user	admin585
Jsers		main
A A MAR 4		Cloud API Users
Cloud API Users		clouduser
FAPI		
friendlyname		

# 9 SIP

### 9.1 SIP overview

Session Initiation Protocol (SIP) integration refers to the process of implementing SIP technology in communications systems to enable and enhance Voice over Internet Protocol (VoIP) capabilities. SIP is a signalling protocol used to initiate, maintain and terminate real-time sessions, primarily involving video, voice, messaging and other communications services over IP networks.

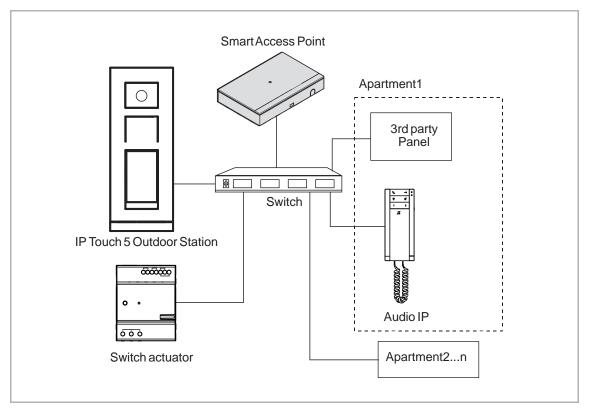
SIP integration involves setting up SIP servers, gateways and session border controllers, among other components, to manage and route communications between users, devices and the network.

Welcome IP natively supports SIP. This allows organisations and home users to integrate Welcome IP with any third-party telephony application. They can act as either servers or clients within the network.

# SIP

### 9.2 Topology

The topology is as follows (just an example):



The above topology supports 2 scenarios.

Scenario1: When IP touch 5 outdoor station initiates a call to a specific apartment, the 3rd party panel in the same apartment will ring. The 3rd party panel receives the call and releases the door by sending a command.

Scenario2: The 3rd party panel initiates a call to IP touch 5 outdoor station.

\*Usually, one Audio IP works with one 3rd party panel in the same apartment. When IP touch 5 outdoor station calls Audio IP, the related 3rd party panel also rings.

To achieve the scenarios above, the following settings need to be configured first.

- [1] Accessing "APIs" screen on Smart Access Point.
- [2] Configuring Smart Access Point as SIP server.
- [3] Creating an SIP account for each 3rd party panel.
- [4] Configuring the 3rd party panel.
- [5] Configuring IP touch 5 outdoor station.
- [6] Configuring Audio IP.

## 9.3 Accessing "SIP" screen on the SmartAP

On the "Preference" screen, click "Connections & APIs" to access the corresponding screen.

HOME 🚯 😼 SOS 💽	2	<	PREFER
			🌣 PREFE
Preferences		Connections & APIs	
System information	>	MyBuildings connection	>
Network settings	>	Local API & SIP Configuration	>
Localization	>	API Access	>
Project backups	>	Create and manage SIP accounts	>
Firmware updates	>	License	>
Connections & APIs	<b>&gt;</b>		
Service	>		
Wi-Fi access point mode settings	>		
Third party authority	>		
Abnormal devices	>		
Onvif IPC list	>	•	

### 9.4 Configuring the SmartAP as SIP server

In scenarios where a smart access point (AP) acts as a SIP server, the device plays multiple roles within the network infrastructure. Essentially, it acts as both a connectivity point for Wi-Fi devices and a central hub for managing SIP-based communications. Here's a brief description of its functions in this dual role:

Connectivity provider: The Smart AP provides wireless network access to connected devices, just like a traditional access point.

SIP Registrar: It registers SIP clients, authenticates devices and users when they log on to the network, and maintains a directory of these clients to facilitate communication.

SIP Proxy and Router: The Smart AP routes SIP calls and messages between registered clients within the network and can also manage traffic between these clients and external SIP networks. This includes call setup, management and teardown.

This setup reduces the need for separate hardware and simplifies the network architecture, making it more cost-effective and easier to manage, while still supporting a wide range of communications protocols and services.

Please follow the steps below:

- [1] On the "Connections & APIs" screen, click "Local API & SIP Configuration".
- [2] Tick the check box to enable the "Local API and SIP connections" function.
- [3] Tick the check box to enable "Smart Access Point" as the SIP server.
- [4] Select the communication protocol.
- [5] If the communication protocol is set to "TLS", a certificate should be downloaded before use.
- [6] Select a transport protocol.
- [7] When "Transfer settings to all devices" is clicked, "Smart Access Point" will push related SIP settings to all devices (including IP Touch 5 Outdoor Station and Audio IP, but not including the 3rd party panel).

It is recommended to carry out this operation when SIP settings are changed or if any devices are not working normally.

[8] Click "Save".

		\$	PREF	ERENCES
Preferences		Connections & APIs		Local API & SIP Configuration
System information Network settings	>	MyBuildings connection	>	Enable local API and SIP connections     Z     The local API aloney you to monitor and control all your Welcome IP devices, as well as third party IP enabled devices available     on the local API aloney within the Welcome IP system. The documentation for the local API is available in the ABB Developer     Ports: <a href="https://dov/document.net/bitlings.abc.com">https://document.net/bitlings.abc.com</a> Support requests for the API can only be made via the developer portal, and we would like to point out that we do not provide
Localization Project backups	>	API Access Create and manage SIP accounts	>	support for your own programming. Create at least one user with API access rights in the User Management menu. By enabling the local API, you accept the totowing turns of use. Download certificate for encrypted SIP / MQTT connection
Firmware updates	>	License	>	SIP server settings 3
Connections & APIs	>			Enable TLS for more secure SIP communication. The required certificate for the clients can be downloaded at the top of this page. Communication • TLS UDP CTCP 4
Service Wi-Fi access point mode settings	> >			Transport protocol
Third party authority	>			MQTT connection settings
Abnormal devices	>			When using the local API, it is recommended to enable TLS encryption (at least TLS1.2) on the client. The required certificate can be downloaded at the top of this page.
Onvif IPC list	>	-		× 8√ Save

## 9.5 Creating a SIP account for each 3rd party panel

1. Create the SIP accounts one by one

- [1] On the "Connections & APIs" screen, click "Create and manage SIP accounts".
- [2] Click "+".

HOME 🚯 🖓 SOS 💽		< PR	ENCES					
C PREFERENCES								
Preferences		Connections & APIs		Create and manage	SIP accounts			
System information	>	MyBuildings connection	>		2	+ ::::		
Network settings	>	Local API & SIP Configuration	>		- (	T		
Localization	>	API Access	>	Type \$	Alias \$	SIP ID \$	Password	Settings
Project backups	>	Create and manage SIP accounts	>					
Firmware updates	>	License	>					
Connections & APIs	>							
Service	>							
Wi-Fi access point mode settings	>							
Third party authority	>							
Abnormal devices	>							
Onvif IPC list	>	♠				♠		

- [3] The 3rd party panel will be set to "Indoor station" automatically and cannot be modified.
- [4] Enter the device address (contains block no., floor no. and room no.).
- [5] The ID will be generated automatically according to the rule and cannot be modified.
- [6] The alias will be generated automatically according to the rule and can be modified.
- [7] Enter the password (6...15 digits).
- [8] Click "Save".

		¥r rner	ENCES		
Preferences	Add SIP account		Outle and manage OID accords	×	
System information	>		2		
Network settings	Device type	Indoor station	<u> </u>		
	Alias	6		SIP ID \$	Password Settings
Localization	> Device addr.	Block No.:			
Project backups	>				
Firmware updates	>	Floor No.: 4			
		Room No.:			
Connections & APIs	> SIP ID	5			
Service	>				
Wi-Fi access point mode settings	Password		<u>Q</u>		
The receipe point mode bettings		ncel	Save		
Third party authority	>		Guyo		
Abnormal devices	>				

2. Creating SIP accounts in batches

SIP accounts for the 3rd party panel can be created in batches.

- At least one Audio IP is used in each apartment.
- The 3rd party panel should be on the same network with the designated Audio IP.
- The 3rd party panel uses the same SIP account as the designated Audio IP.

Please follow the steps below:

[1] On the "Connections & APIs" screen, click "Create and manage SIP accounts".

- [2] Click " 🏜 ".
- [3] If the existing account needs to be kept, tick the checkbox, otherwise all existing accounts will be cleared and new accounts will be created.
- [4] Click "Yes".

SIP accounts of the 3rd party panels are generated based on the room numbers of Audio IPs which have been registered on the system.

HOME 🔞 🗟 SOS 🏟	6							
		¢	PREFE	RENCES				
Preferences		Connections & APIs		Create and manage SIP acco	ounts			
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Network settings	>	Local API & SIP Configuration	>			T		
Localization	>	API Access	>	Type \$ Alia:	as ‡	SIP ID 💠	Password	Settings
Project backups	>	Create and manage SIP accounts	>					
Firmware updates	>	License	>					
Connections & APIs	>							
Service	>							
Wi-Fi access point mode settings	>							
Third party authority	>							
Abnormal devices								
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### 9.6 Configuring the 3rd party panel

(The addresses are given as an example only, please check the values with your real installation)

- [1] Enter the SIP account.
- [2] Enter the SIP password.
- [3] Enter the server address 10.0.0.1.
- [4] Select the transport protocol and enter the port.
- If "UDP/TCP" is selected, port should be set to "5060".
- If "TLS" is selected, port should be set to "5061".
- [5] Enter the server expire time (60...120 seconds).
- [6] Enter the server retry counts.
- [7] If communication protocol is set to "TLS", a certificate downloaded from "Smart Access Point" needs to be imported.
- [8] Set the media stream transport protocol.
- Compulsory = SRTP
- Disabled = RTP

Register status	Registered
Line Active	Enabled
Label	0030909
Display Name	0030909
Register Name	0030909
Username	0030909
Password	······ 2
SIP Server 1	
Server Host	10.0.0.1 3 Port 5060 4
Transport	TCP 4 🗸
Server Expires	60 5
Server Retry Counts	з б
Import Trusted Certificates 7	
Load Trusted Certificates File	No selected file Browse
	Upload Cancel
Confirm	Cancel
RTP Encryption (SRTP)	8 Compulsory

### 9.7 Configuring IP touch 5 OS

IP touch 5 outdoor station needs to be configured before using the SIP function.

#### 9.7.1 SIP client settings

- [1] On the designated IP touch 5 outdoor station screen, click "Settings".
- [2] Click "SIP client settings".
- [3] The following settings will be filled automatically when "Smart Access Point" is enabled as an SIP server and IP touch 5 has obtained the certification from "Smart Access Point".
  - SIP account
  - SIP server
  - Communication protocol
  - Transport protocol

HOME 🚯 🚘 SOS 💽 💂	< DOOR ENTRY SYSTEM >	
	Outdoor station 002-01	LIST VIEW
		Physical address
		Calling type >
	Welcome No welcome message.	Welcome message
		Door lock setting
		Unlock mode configuration
		3rd party door opener settings > SIP client settings 2 >
		Time synchronization
		Lift control
Settings	Bulletin Name list	Language >
HOME 🔞 🗟 sos î 🕽	< DOOR ENTRY SYSTEM >	
	Outdoor station 008-01	LIST VIEW
		Advanced settings
		Advanced settings
	Welcome	SIP account
	No welcome message.	User name 00801
		SIP server 3
		IP address         10.0.0.1           Port         5060
	â de la companya de l	
		UDP OTCP OTLS  Transport protocol
	ê E	○ sRTP ● RTP
Settings	Bulletin Name list	♦ ✓ Save

### 9.7.2 3rd party door opener settings

The 3rd party panel needs to set a button on the device to release the lock on the IP touch 5 Outdoor Station.

- [1] On the designated IP touch 5 Outdoor Station screen, click "Settings".
- [2] Click "3rd party door opener settings".
- [3] Select a value from the drop-list as the command to release the lock. It can be set to "0~9" , "\*" or "#".
- [4] Click "Save".

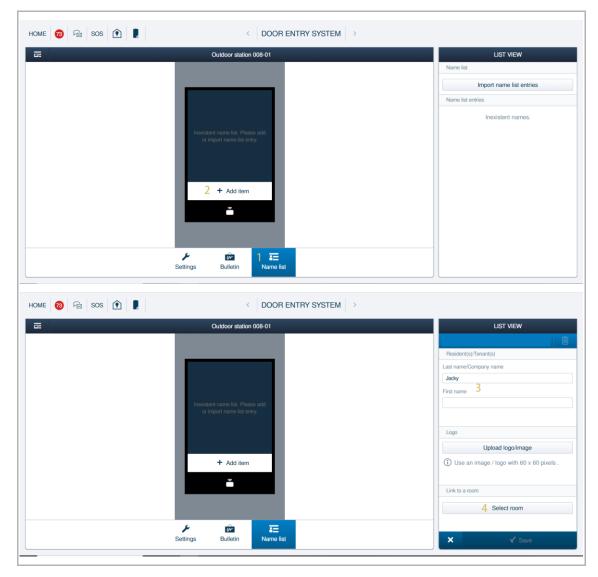
HOME 🚯 😼 SOS 💽 📜	< DOOR ENTRY SYSTEM >	
□ ==	Outdoor station 002-01	LIST VIEW
		Physical address >
		Calling type
	Welcome No welcome message.	Welcome message
		Door lock setting
		Unlock mode configuration
		3rd party door opener settings 2 >
		SIP client settings
	_	Time synchronization >
		Lift control >
	Image: brings         Bulletin         Name list	Language >
← C ⋒ ▲ Not secure   https://192.168.0.33/#		A 🟠 💿 C I D 🎓 🗃 🧝 🙎
HOME 📵 😼 SOS 论 📗	< DOOR ENTRY SYSTEM >	
	Outdoor station 002-01	LIST VIEW
		Message type
		③ RTP(RFC-2833)
		③ SIP INFO(RFC-2976)
	Welcome	Value
	No welcome message.	
		1 <b>3</b> ~

### 9.7.3 Adding the 3rd party panels to the name list one by one

It is available for IP touch 5 outdoor station calls the 3rd party panel via keypad directly or name list.

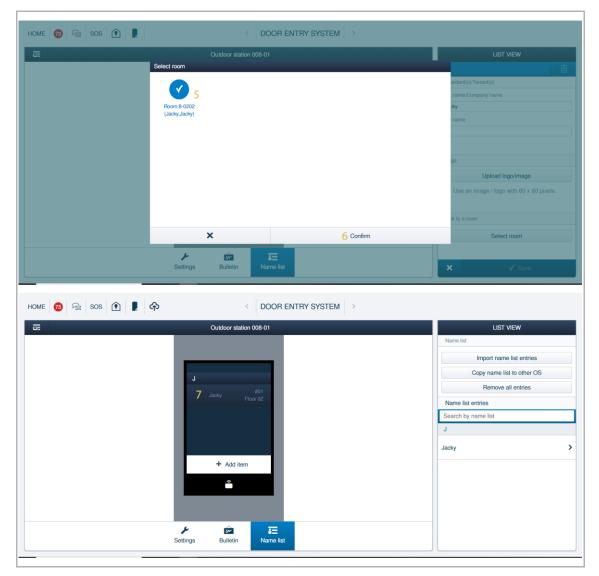
Please follow the steps to add the 3rd party panel to the name list:

- [1] On the designated IP touch 5 outdoor station screen, click "Name list".
- [2] Click "+ Add item".
- [3] Enter the last name and the first name.
- [4] Click "Select room".



- [5] Select the designated room where the 3rd party panel is positioned.
- [6] Click "Confirm".

[7] The alias name has been displayed on the screen of the IP touch 5 Outdoor Station.



### 9.7.4 Adding the 3rd party panels to the name list in batches

If there are multiple 3rd party panels that need to be added to the name list, it is recommended to use the import function.

Please follow the steps to add the 3rd party panels to the name list in batches:

It is recommended to remove all entries before importing.

- [1] On the designated IP touch 5 outdoor station screen, click "Name List".
- [2] Click "Remove all entries".
- [3] Click "Continue".
- [4] Click "Import name list entries".

HOME 🔞 🖓 SOS <table-cell> 🖡 🕎</table-cell>	< DOOR ENTRY SYSTEM >	
=	Outdoor station 008-01	LIST VIEW
		Name list Import name list entries Copy name list to other OS Remove all entries 2
	INFORMATION	Name list entries
	It will delete all namelist. Continue?	Search by name list 0
	Cancel Continue 3	0080202,0080202
	+ Add item	
номе 🔞 😼 sos 🕐 🖡 🗇	OUTRY SYSTEM     Outdoor station 008-01	LIST VIEW
0:	Outdoor station 008-01	LIST VIEW Name list
	Heeistert name list. Please add or import name list onty. + Add item	Name list entries 4 Name list entries Inexistent names.
	Settings Bulletin Name list	

- [5] Select the designated rooms.
- [6] Click "Import".

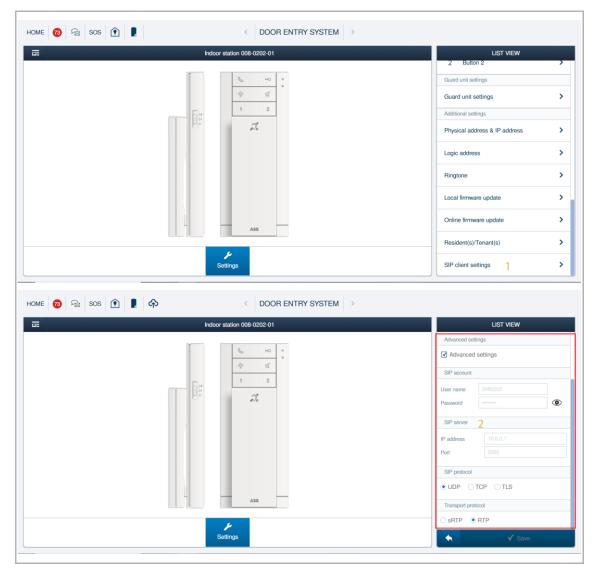
[7] The alias name has been displayed on the screen. Click the name to set the alias name.

Display="block-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-space-spac	
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Copy name list to other OS Remove all entries Name list entries Search by name list 0 0080202,008.020 7	>
0       Copy name list to other OS         0000212,000       Floor 02         Floor 02       Search by name list         0       0000202,008,00002         + Add item       O	>
0       Copy name list to other OS         0000202,000       Floor 02         Floor 02       Search by name list         0       0000202,008.00202         + Add item       O	>

### 9.8 Configuring Audio IP

Audio IP needs to be configured before using the SIP function.

- [1] On the designated Audio IP "Settings" screen, click "SIP client settings".
- [2] The following settings will be filled automatically when "Smart Access Point" is enabled as an SIP server and Audio IP has obtained the certification from "Smart Access Point".
  - SIP account
  - SIP server
  - Communication protocol
  - Transport protocol



# 10 Appendix

### 10.1 Initial setup of the SmartAP

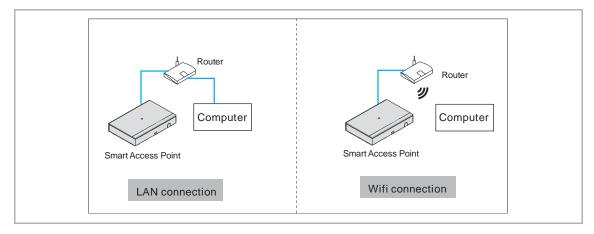
### 10.1.1 Accessing the web-based user interface

There are 3 options to access the web-based user interface of the SmartAP.

1. By using the Windows UPnP service

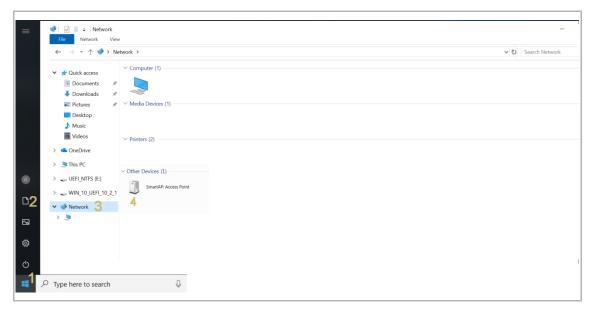
### Precondition

- There is a DHCP server on the network, e.g. integrated DHCP is used in the router.
- The SmartAP is connected to the router by a LAN cable.
- The computer is connected to the router by LAN connection or WiFi connection.
- The SmartAP is powered on and ready for operation.



### Accessing SmartAP (Window 10 system as an example)

- [1] Click "Start", followed by "Documents", "Network" to access the "Network" screen.
- [2] Double click the SmartAP icon.





#### Note

If the SmartAP icon is not displayed, please check the Windows firewall or ask for help from your IT engineers.

- [3] Switch to Security Login
- Http connection is insecure. It is recommended to use an https connection.
- Click "Advanced", followed by "Proceed to ...." to access the web-based user interface of SmartAP. (Google Chrome, for example)
- IP address of SmartAP can be viewed on the page.

<ul> <li>♦ Privacy error</li> <li>★ +</li> <li>← → C ▲ Not secure</li> <li>192.168.1.101/indexthtml</li> </ul>	
	Your connection is not private
	Attackers might be trying to steal your information from <b>192.168.1.101</b> (for example, passwords, messages, or credit cards). <u>Learn more</u>
	NET::ERR_CERT_AUTHORITY_INVALID
	<ul> <li>Help improve Chrome security by sending <u>URLs of some pages you visit, limited system</u> information, and some page content to Google. <u>Privacy policy</u>.</li> </ul>
	Hide advanced 5 Back to safety
	This server could not prove that it is <b>192.168.1.101</b> ; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
	Proceed to 192.168.1.101 (unsafe) 6

2. By entering the IP address

#### Precondition

You can check the IP address of SmartAP on the router configuration website. Each router usually has its own management web interface where you can obtain the information. Please check your router's handbook.

### Accessing SmartAP (Window 10 system as an example)

- [1] Enter the IP address of SmartAP (e.g. "192.168.1.101") on the website.
- [2] Switch to Security Login
- Http connection is insecure. It is recommended to use an https connection.
- Click "Advanced", followed by "Proceed to ...." to access the web-based user interface of SmartAP. (Google Chrome, for example)

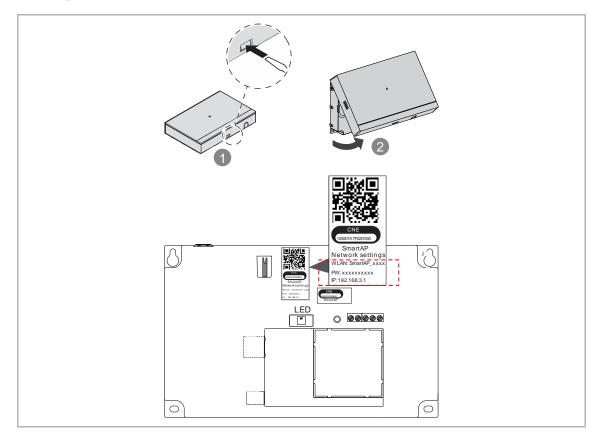
Privacy error × +	
← → C ▲ Not seture   192.168.1.101/index.html	
	Your connection is not private
	Attackers might be trying to steal your information from <b>192.168.1.101</b> (for example, passwords, messages, or credit cards). <u>Learn more</u>
	NET::ERR_CERT_AUTHORITY_INVALID
	Help improve Chrome security by sending <u>URLs of some pages you visit, limited system</u> information, and some page content to Google. <u>Privacy policy</u>
	Hide advanced 1 Back to safety
	This server could not prove that it is <b>192.168.1.101</b> ; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
	Proceed to 192.168.1.101 (unsafe) 2

3. By using the WiFi Access Point hotspot

### Precondition

- Ensure network settings are obtained from the SmartAP
  - WLAN name (SSID)
  - Password
  - IP address

Please open the front shell of SmartAP and obtain the data above from the sticker.

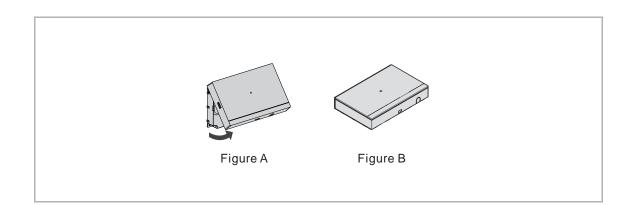


- Ensure the alarm (e.g. tamper alarm) is not activated

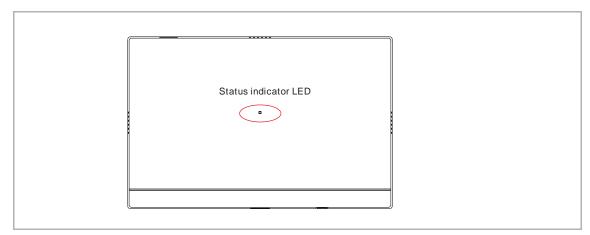


#### Note

Status indicator LED light priority (in the sequence, high>>middle>>low): Alarm (flash white quickly) >> Initial setup (light white on) >> WiFi Access Point mode is activated (flash red) >> Security mode is activated (light red on) Tamper alarm will be activated if the front cover of SmartAP is open. (Figure A) In this case, status indicator LED will flash white quickly and it is impossible to tell if WiFi Access Point mode is activated. Please close the front shell after you have obtained the SSID information. (Figure B)



- Ensure that the WiFi Access Point mode has been activated
  - During the initial setup: Status indicator LED lights up white.
  - After the initial setup: Status indicator LED flashes red.
- SmartAP is powered on and ready for operation.





#### Note

SmartAP works like a central WiFi router when it works in WiFi Access Point mode.

### Accessing SmartAP (Window 10 system as an example)

- [1] Click "Internet access" icon.
- [2] Click the WLAN name (SSID) of SmartAP.
- [3] Enter the password.
- [4] Click "Next".
- [5] Click "Yes" to connect your computer to the WiFi hotspot of SmartAP.

	i	SmartAP_0734     No Internet, secured     Properties     Disconnect
SmartAP_0734 Secured     2       Enter the network security key       ••••••••       3       Next     4	SmartAP_0734 Secured Do you want to allow your PC to be discoverable by other PCs and devices on this network? We recommend allowing this on your home and work networks, but not public ones.	
Network & Internet settings Change settings, such as making a connection metered.	Yes     5     No       Network & Internet settings       Change settings, such as making a connection metered.       Image: I	Network & Internet settings Change settings, such as making a connection metered. H⇒ Mobile Wi-Fi Airplane mode hotspot

- [6] Enter "192.168.3.1" on the website to access SmartAP.
- [7] Switch to Security Login
- Http connection is insecure. It is recommended to use an https connection.
- Click "Advanced", followed by "Proceed to ...." to access the web-based user interface of SmartAP. (Google Chrome, for example)

Your connection is not private
Attackers might be trying to steal your information from <b>192.168.3.1</b> (for example, passwords, messages, or credit cards). <u>Learn more</u>
NET::ERR_CERT_AUTHORITY_INVALID
Help improve Chrome security by sending <u>URLs of some pages you visit, limited system</u> information.and some page content to Google. <u>Privacy policy</u>
Hide advanced 1 Back to safety
This server could not prove that it is <b>192.168.3.1</b> ; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
Proceed to 192.168.3.1 (unsafe) 2

### 10.1.2 Initial setup

You need to do the initial setup the first time the SmartAP is powered on or the SmartAP is reset to the factory defaults.

Follow the steps below on the web-based user interface of the SmartAP.

1. Select the language

	INSTALLATIC	ОМ
Please	choose your la	anguage
Český		
Dansk		
English		<b>v</b>
Español		
	Start	

2. Accepting EULA

Tick the checkbox to accept the licence. Then click ">" to continue.

End User Licens	se Agreement			
ABB End User License A	greement ("EULA")			
	READ THE TERMS AND COND CONTINUING WITH THIS PROV		AGREEMENT	
entity) and ABB GENWA "SOFTWARE PRODUCT computer programs inclu associated software com "Using" means to downlo	greement ("EULA") is a legal ag Y XIAMEN ELECTRICAL EQUI ". SOFTWARE PRODUCT mea ding firmware, any copies made ponents, media, printed materia ad, install, copy, activate, acces RODUCT, you agree to be bour	PMENT CO., LTD or its affilial ans the machine readable (ob , bug fixes for, updates to, or Is, and "online" or electronic ( s or otherwise use the SOFT	tes (the "Company") for the oject code) version of the upgrades thereof, and documentation "Use" or WARE PRODUCT. By	
✓ I have read the "Er	nd User Licence Agreement	and accepted it.		
	<	>		

3. Accepting the licence for software.

Tick the checkbox to accept the licence. Then click ">" to continue.

	INSTAL	LATION	
License Agreement for	Software		
Following Licenses are used in the pr Smart Access Point	roducts		
Component: Linux OS License: GNU (GENERAL PUBLIC LI Copyright (c) 1992-2010 Linus Tarvalda et al. Source Code Downlead location: gt/2		mvfsl-arm-yocto-bsp.git	
Component: @qooxdoo's qooxdoo			
✓ I have read *License Agreem	ent for Software	and accepted it.	
	<	>	

### 4. Accepting data privacy

Tick the checkbox to accept the licence. Then click ">" to continue.

INSTALLATION
Data privacy
We take the protection of your personal data very seriously and follow the legally valid regulations regarding data protection, detail refer to below link.
https://eu.mybuildings.abb.com/page/privacy-policy
I have read "Data Privacy" and accepted it.
< >

### 5. Configuring the location

Select the time zone from the drop-down list.

INSTALLATION
Please define your location
Time zone (UTC+08:00) Beijing,Chong 👻
Date and time 2024-03-22 15:02:25
< >

6. Configuring WiFi access point mode settings and the country code

It is compulsory to change the password in the initial setup. The password rule is displayed in a pop-up window when you enter the password.



### Attention!

Please ensure that the country code is configured correctly according to the device location.

The "Country code" setting ensures that your router will only enable Wi-Fi radio settings that conform with the country's official regulatory laws.

IN	ISTALLATION	
Wi-Fi access	point mode setting	js
	SmartAP_7FEE	
Password	Password	xAt least 10 characters xUppercase to lowercase letters xAt least one special character
Repeat password		XAL least one number
Country code	China 🗸	
<		

7. Selecting the connection type

There are 3 options to set the connection type for the SmartAP.

Tap " <sup>1</sup> to view the topology for reference.

	Please select connection type
	Automatic (DHCP) / Manual O LAN (PoE)
	O WIFI Legacy IP
	Building network on LAN (POE); Unit network on LAN(2)
	< >
	INSTALLATION
INFORMATION	<u>×</u>
	Manual Mode: IP assignment automatic via DHCP server or manual th a running DHCP server needs be connected

### **Establish LAN connection**

If LAN (PoE) is selected, you need to set IP address to establish the LAN connection.

By activating the "Obtain IP address automatically" check box, SmartAP will work as a DHCP client. The IP address needs to be assigned from DHCP server (such as router with DHCP enabled).

By deactivating the checkbox "Obtain IP address automatically", network parameters need to be configured including IP address, subnet mask and default gateway.

	INSTALLATION
Please et	stablish LAN connection
LAN (PoE):	
✓ Obtain IP ad	ddress automatically
IP address	192.168.1.102
Subnet mask	255.255.255.0
Default gateway	192.168.1.1
<	>

### **Connect to a WiFi Network**

If WiFi connection is selected, you need to connect to a WiFi network.

All available nearby WiFi networks will be displayed in the list. If you can't find the designated nearby WiFi network, click the "Refresh" button to search again.

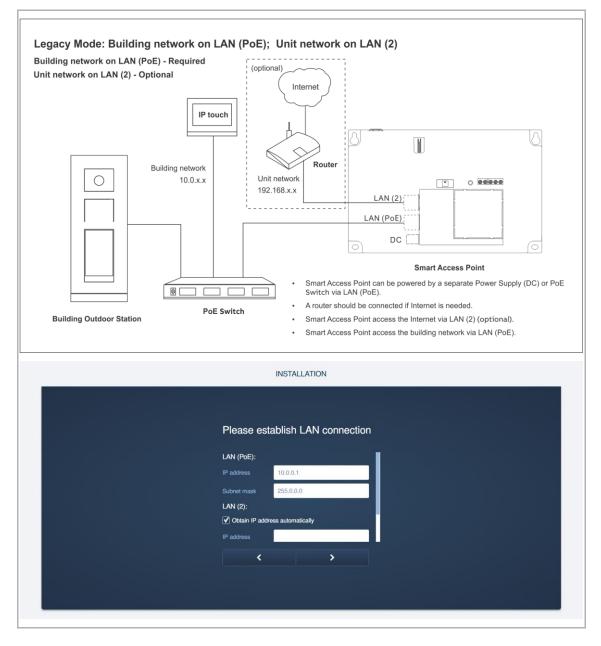
Click the designated WLAN name (SSID) in the list, enter the password, followed by "Connect" to connect the WiFi network.

INSTALLATIO	N	
Please connect to a V	Vi-Fi network	
	.al	
The production of the second second		
	.al	
	all	
< Refresh	Connect	

### Legacy IP network

If "Legacy IP" is selected, the default topology is used as follow.

LAN (PoE) will be set to 10.0.x.x, LAN (2) will be connected to the router to obtain the IP address.



8. Creating the first admin user

Note

Enter the username and the password twice to create the first admin user.



The first admin user cannot be deleted. It manages all other users.

	INSTALLATION	
Please create	your user account	t
User name	jacky	
New password		<ul> <li>xAI least 10 characters yUppercase to lowercase letters xAI least one special character</li> </ul>
Repeat password		xAk least one number
<	>	

### 9. Selecting the reset option

You can select the reset option according to the use scenario.

Options for Reset  Without myBuildings account *  With myBuildings account (recommended) **  * Reset of the password is done without security verification and can be parformed by anyone via the reset bulon. * 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.	 INSTALLATION
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 wild accurity code, which is sent via the myBuildings account by email.	
<ul> <li>With myBuildings account (recommended) **</li> <li>* Reset of the password is done without security verification and can be performed by anyone via the reset button.</li> <li>** Reset of the password is done with a security verification by a once with a security verification by a accurity verification by a once with a security verification by a accurity verification.</li> </ul>	Options for Reset
* 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 ocds, which is sent via the myBuildings account by email.	Without myBuildings account *
can be performed by anyone via the reset button. ** Reset of the password is done with a security verification by a once valid excurity voce, which is sent via the myBuildings account by email.	With myBuildings account (recommended) **
< >	can be performed by anyone via the reset button. ** Reset of the password is done with a socurity verification by a once valid socurity dock, which is sant via the myRolatilings
	< >

#### Reset option = Without MyBuildings account

- If this option is selected, anyone can reset the password for the first admin user by pressing the reset button.
- It is used for the scenario that SmartAP is installed in a private area and is not physically accessible to unauthorised users.

#### Reset option = With MyBuildings account

- If this option is selected, a one-time validity security code is needed when someone want to
  reset the password for the first admin user by pressing the reset button. And this security
  code will only be sent to the email set in the initial setup.
- It is used for the scenario that SmartAP is installed in a public area and is physically accessible to unauthorised users.



#### Attention!

The reset option can only be set in the initial setup and cannot be changed after the initial setup.

The reset option can only be changed when you restore SmartAP to the factory defaults.

### 10. MyBuildings settings

### Reset option = Without MyBuildings account

If the reset option is set to "Without MyBuildings account", you will access this screen.

INSTALLATION
Please connect to MyBuildings
User name 3
Password Friendly name
Remote access Enable 4
2 taylater hare.

- [1] Click "Skip" to turn to next step if you don't want to connect to MyBuildings currently.
- [2] Click "Register here" to access the MyBuildings portal to register an account.
- [3] Enter the username, password and friendly name, followed by "Connect" to connect to the MyBuildings portal.
- [4] If you want to access SmartAP from the MyBuildings portal, you need to tick the "Enable" checkbox to enable the remote access function.

### Reset option = With MyBuildings account

If the reset option is set to "With MyBuildings account", you will access this screen.

 INSTALLATION
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. Connect

- [1] Click "Register here" to access the MyBuildings portal to register an account.
- [2] Enter the username, password and friendly name, followed by "Connect" to connect to the MyBuildings portal.
- [3] Enter the email address used to activate the MyBuildings account. This email address will receive a security code when you want to reset the first admin user.see chapter 10.6 "Resetting the password for the primary admin" on page 280.
- [4] If you want to access SmartAP from the MyBuildings portal, you need to tick the "Enable" checkbox to enable the remote access function.

### 11. Setting the device name

Enter the name for the device and this name will be displayed on the log in screen.

INSTALLATION
Please enter the device name
Device name

### 12. Confirming the settings

You can check all the settings again on the overview screen. You can click "<" to return to the previous screens to edit the settings.

Click "Finish" to complete the initial setup.

н	NSTALLATION	
Setting over	view	
Language	English	
	(UTC+08:00) Beijing,Ch	
	LAN (PoE)	
IP address	192.168.1.102	
Subnet mask	255.255.255.0	
Default oateway	192 168 1 1 Finish	

### 10.2 Viewing the signature of the device

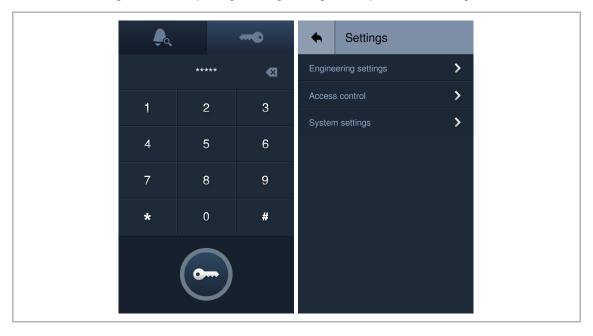
### 10.2.1 Video IS

- [1] On the "Settings" screen, tap "About".
- [2] Tap "Common".
- [3] Go to the "Signature" section to check the signature.

imes Settings		08:4	7 Mon 01-01-2024		뫄	Ť	Ļ	<b>⊲</b> »
ද්)) Sound	NET	WORK	соммол 🤈					
Retwork Connections								
© <sub>∭</sub> Time & Date		Comm	on					
		Indoor	Station Address	001-0109-01				
🛲 Access Management		Master	Mode	Master				
		IP- Build	ding Network Addr.	10.0.65.64				
ጺ User Settings		IP- Priva	ate Network Addr.					
		Firmwa	re Version	HGI29_Main_V1.10_2	20240311_	_MP_X200	0	
ん Video Surveillance		Hardwa	re Version	HGI29_Main_V1.00_2	20230922	_MP		
.(), Intercom List	2	Serial N	umber	102807A7F06DC59(I	HFS)			
Ÿ	С	Signatu	ire					
Program Button		PKI Cer	tificate					
දරා Advanced Settings		Show	w license agreement					
💭 Software Update		Soft	vare & User agreemer	its				
(i) About		Expo						

# 10.2.2 IP Touch 5 OS

- On the "Settings" screen, tap "Engineering settings", "Help" to view the signature.



## 10.2.3 IP Pushbutton OS

This device can be configured on Video IS.

#### IP Pushbutton OS entering engineering mode

Please follow the steps below:

- [1] Power on the IP Pushbutton OS, wait until all 3 LED indicators go out.
- [2] Press and hold the first pushbutton for 10 seconds until all 3 LED indicators flash.

#### Video IS accessing the "Outdoor Stations" screen

Please follow the steps below:

- [1] Ensure that IP Pushbutton OS is in engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced settings".
- [3] Tap "Outdoor Stations" to access the corresponding screen.

[4] On the "Outdoor Stations" screen, go to "Device Version" section to view the signature.

× Settings	09:35 Mon 01-0	1-2024	*	Ť	Ĵ	<b>⊲</b> »
● Display	PANEL ACTUATORS	OUTDOOR STATIONS	3			
பூல Sound						
Network Connections	Buttons Set-up Columns of Buttons	V Push b	outton sett	ings		
<sup>စ</sup> ္က Time & Date	1					
∝⊙ Access Management	Sync Time Sync with SmartAP	~				
႙ User Settings	Device Version 4					
🕁 Video Surveillance	Mainboard :	HSE07-IC_Digital_V0.			132926	
	- MCU : Serial Number :	HSE07-IC_MCU_V2.06		_MP		
0 Intercom List	- Signature :	101807A7F06DAF6(L0 34CA2EA50C04C548				
Program Button		UTCH LEND COTCOTCOTO				
زيَّ: Advanced Settings 2	ок					
了 Software Update						

## 10.2.4 Mini OS

This device could be configured on Video IS.

#### IP Pushbutton OS entering engineering mode

Please follow the steps below:

- [1] Power on the Mini OS, wait until all 3 LED indicators go out.
- [2] Press and hold the first pushbutton for 5 seconds until all 3 LED indicators flash.

#### Video IS accessing the "Outdoor Stations" screen

Please follow the steps below:

- [1] Ensure that Mini OS is in engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced settings".
- [3] Tap "Outdoor Stations" to access the corresponding screen.

[4] On the "Outdoor Stations" screen, go to "Device Version" section to view the signature.

× Settings	09:35 Mon 01-0	1-2024	*	Ť	Ĵ	<b>⊲</b> »
● Display	PANEL ACTUATORS	OUTDOOR STATIONS	3			
பூல Sound						
Network Connections	Buttons Set-up Columns of Buttons	V Push b	outton sett	ings		
<sup>စ</sup> ္က Time & Date	1					
∝⊙ Access Management	Sync Time Sync with SmartAP	~				
႙ User Settings	Device Version 4					
🕁 Video Surveillance	Mainboard :	HSE07-IC_Digital_V0.			132926	
	- MCU : Serial Number :	HSE07-IC_MCU_V2.06		_MP		
0 Intercom List	- Signature :	101807A7F06DAF6(L0 34CA2EA50C04C548				
Program Button		UTCH LEND COTCOTCOTO				
زيَّ: Advanced Settings 2	ок					
了 Software Update						

# 10.2.5 Guard Unit

- [1] On the "System Settings" screen, tap "About".
- [2] Go to "Signature" section to check the signature.

System settings							
Language							
Display	Serial number:						
	103807A7F0302D	6(QUY)					
Date and time							
IP Cameras	Signature: 2 34CA2EA50C04C	- 10					
	<b>2</b> 34CA2EA50C04C	548					
Engineering settings	Manual:						
Reset settings							
About 1							
Tu 02/04/24 11:23 🖽 🖾		<u></u>	A	l	Ð	Q	1/-

## 10.2.6 IP Actuator

This device could be configured on Video IS.

- [1] Press the reset button of the IP Actuator once during normal operation; the LED flashing green means that the IP actuator has entered engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced settings".
- [3] Tap "Actuators" to access the corresponding screen.
- [4] On the "Actuators" screen, go to the "Signature" section to view the signature.

imes Settings	10:23 Mon 01-01-2024	*	Ť	Ļ	¢≫
ද්) ) Sound	_ PANEL ACTUATORS OUTDOOR STATI	IONS			
🙃 Network Connections					
ூ Time & Date	Lock Management				
∞ Access Management	Link Exit Button with Lock     Power lock	🧹 Report when ι	inlock		
	 Door Status				
्रि User Settings	Door Open Period(s)	Door status d	atection		
🕁 Video Surveillance	60	boor status di			
0, Intercom List	— Device Version : HGM51_V1.16_20240206_PF	P_STM32F407VE			
Program Button	Serial Num : 104000CDE017FEE(KZU)				
ැලි Advanced Settings <b>ට</b>	Signature : 34CA2EA50C04C548	1			
		• · · · · · · · · · · · · · · · · · · ·			
🎧 Software Update	_ ок				
(i) About					

## 10.3 Clearing the signature of the device

The signature will be empty as one of the following scenarios:

- The device is powered on the first time.
- The device is restored to factory default settings.see chapter 10.5 "Restoring to factory default" on page 271.
- The device changed its physical address.see chapter 10.4 "Configuring the physical address and IP mode" on page 259.

## 10.4 Configuring the physical address and IP mode

## 10.4.1 Video IS

- [1] On the "Settings" screen, tap "Advanced settings" and enter the advanced password (The system default advanced password is 345678) to access the corresponding screen.
- [2] On the "Advanced settings" screen, tap "Panel".
- [3] Go to the "Addressing" section, select the device type from the drop-down list.
- [4] Go to the "Physical address" section, tap " 🖊 ".
- [5] Edit the physical address.
- [6] Tap "Save & Close".

X Settings	12:49 Tue 02-01-2024	rtan contractanta de seconda de se Seconda de seconda de se
	PANEL ACTUATORS OUTDOOR STATIONS	
🙃 Network Connections	• • • • • • • • • • • •	
ව <sub>ස</sub> Time & Date	Addressing Master Mode	
∝⊙ Access Management	Master mode 🔵 🔪	
႔ User Settings	Enable trusted devices function	
🕁 Video Surveillance	<b>/</b>	
0, Intercom List	Physical Address 4	2
Program Button	001-0101-01	
స్ట్రొ Advanced Settings	IP Address (i)	
C Software Update	Building Network 192.168.1.101	etwork
(i) About	Options	
imes Settings	12:49 Tue 02-01-2024	star C, ⊂,»
දා) Sound		
ି Network ମ୍ପି Set Device Details		×
<sup>စ</sup> ္က Time & I		
access t		
Physical Addres		
001	Apartment 01	
للله Video Su Floor	Panel Number	
01	01	
Program		6
		0
ېژې Advance		Save & Close
		Save & Close

- [7] Go to the "IP Address" section, tap "
- [8] Select the connection type, it can be set to "LAN" or "WiFi".
- [9] Select the network type, it can be set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, the IP address will be "10.0.x.x". Its network type should be the same as the SmartAP.
- If the network type of the SmartAP is set to "Legacy IP", you should select "ABB Legacy" to avoid unknown errors.

[10]Tap "Save".

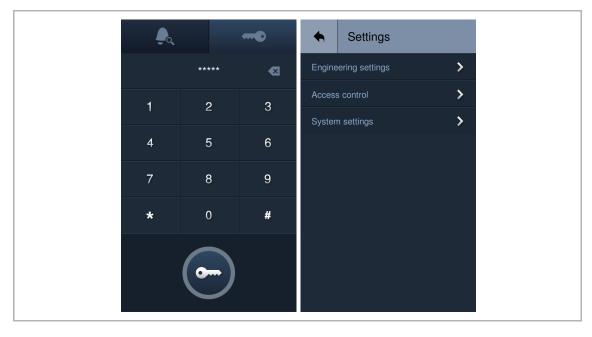
× Settings	12:17 Thu 04-01-2024	\$\$ ↓ ↓
O Display	PANEL ACTUATORS OUTDOOR STATIONS	
්තා Sound	Addressing	
🕤 Network Connections	Master Mode	
ම <sub>ញ</sub> Time & Date		
می Access Management	Enable trusted devices function	
ည် User Settings	Physical Address	
ூ Video Surveillance	Physical Address 001-0101-01	
0 Intercom List	7	
Program Button	IP Address (; / / Private N	ztwork
දරිූා Advanced Settings	192.168.1.102	
C Software Update	Options	
imes Settings	12:17 Thu 04-01-2024	han C ⊂ S
		1- + 1/
	i etwork	X
₀¦: Edit Building Ne ⊲)» Sound	etwork	
다 Sound Sound Sound Sound Connection preferer	etwork nces: S 8	
୍ୱା Edit Building Ne ଦ୍ର) Sound ିତ Network ତ୍ରା Time & [	etwork nces: 💭 🎖 💿 WIFI 💿 Disable	
□‡:       Edit Building Net         ↓) Sound       Connection preferent         ⑦:       Network         0::       Time & [	etwork nces: 🔉 8 • wiFi • Disable nces: 9	
্ব হিdit Building Ne	etwork nces: 💭 🎖 💿 WIFI 💿 Disable	
□h       □h       Edit Building Net         ↓) Sound       Connection preferer         □       Network       □         □       LAN         □       Time & t         △       Addressing preferer         □       Access I	etwork nces: 🔉 8 • wiFi • Disable nces: 9	
↓) Sound       Connection preferer         ↓) Sound       ●         ↓) Time & t       ●         ↓) User Set       ●         ↓) User Set       ●         ↓       □         ↓       □         ↓       □	etwork nces: $\bigcirc$ 8 $\bigcirc$ wIFI $\bigcirc$ Disable nces: 9 $\bigcirc$ ABB Legacy $\bigcirc$ Customizable address	
↓) Sound       Connection preference         ↓) Sound       •↓         ├) Sound       Connection preference         ↓) Time & L       •↓         ↓       Addressing preference         ↓       Video St         ↓       Video St	etwork nces: $2$ 8 • WIFI • Disable nces: 9 • ABB Legacy • Customizable address Subret mask ====================================	

# 10.4.2 Audio IS

This device configures the physical address via SmartAP.

#### 10.4.3 IP Touch 5 OS

- [1] On the home screen, tap " , followed by [#] [\*] [engineering password] [#] to access the "Settings" screen.
- [2] On the "Settings" screen, tap "Engineering settings".
- [3] On the "Engineering settings" screen, tap "Device attribute" to edit the device type & physical address.
- [4] On the "Engineering settings" screen, tap "IP address setting" to edit the network type. It can be set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, the IP address will be "10.0.x.x". Its network type should be the same as the SmartAP.
- If the address type of the SmartAP is set to "Legacy IP", you should select "Legacy IP" to avoid unknown errors.



## 10.4.4 IP Pushbutton OS

This device could be configured on Video IS.

#### IP Pushbutton OS entering engineering mode

Please follow the steps below:

- [1] Power on the IP Pushbutton OS, wait until all 3 LED indicators go out.
- [2] Press and hold the first pushbutton for 10 seconds until all 3 LED indicators flash.

#### Video IS accessing the "Outdoor Stations" screen

- [1] Ensure that IP Pushbutton OS is in engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced settings".
- [3] Tap "Outdoor Stations" to access the corresponding screen.
- [4] On the "Outdoor Stations" screen, go to "Device Version" section to select the device type.
- [5] Tap "Set device details".

imes Settings	15:24 Fri 05-01-2024	\$\$ ↓ \$
Display	PANEL ACTUATORS OUTDOOR STATIONS	3
പ്രു) Sound		5
💮 Network Connections	Device Setting 4	J device details
<sup>စ</sup> <sub>ဤ</sub> Time & Date		
🛲 Access Management	Lock Management	
 رکز User Settings	Unlock Type When Swiping Default Lock	
🕁 Video Surveillance	Default Lock Subsidiary Loc NO-NC-CC	
0 Intercom List	Time of Power Lock(s) Time of Signal	l Lock(s)
Program Button		
رِيَ Advanced Settings 2	Door Alarm	er proof alarm
Software Update		

- [6] Select the connection type and edit the physical address.
- If IP pushbutton OS is connected to the building network, "External IP gateway" should be selected.
- If IP pushbutton OS is connected to the private network, "Internal IP gateway" should be selected.
- [7] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, the IP address will be "10.0.x.x". Its network type should be the same as the SmartAP.
- If the address type of the SmartAP is set to "Legacy IP", you should select "ABB Legacy" to avoid unknown errors.

X Settings		15:24 Fri 05-01-2024		41 () 
⊛ Display	t Device Details			×
<sup>(2)</sup>	Physical Address	Device 01		
	Floor <b>01</b>	Apartment <b>01</b>	6	
္ဂ User Set	Internal IP gateway	<ul> <li>External IP gateway</li> </ul>		
👝 Video Si 🛛 🕇	UHCP(Default)	ABB Legacy	Customizable address	× 1
0 Intercor			8	3
Program			Save &	Close
က္လြို Advanceu ခရာကျဖန္မ		Detection alarm	Tamper proof ala	

[8] Tap "Save & Close".

## 10.4.5 Mini OS

This device can be configured on Video IS.

#### Mini OS entering engineering mode

Please follow the steps below:

- [1] Power on the Mini OS, wait until all 3 LED indicators go out.
- [2] Press and hold the first pushbutton for 5 seconds until all 3 LED indicators flash.

#### Video IS accessing the "Outdoor Stations" screen

- [1] Ensure that Mini OS is in engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced settings".
- [3] Tap "Outdoor Stations" to access the corresponding screen.
- [4] On the "Outdoor Stations" screen, go to "Device Version" section to select the device type.
- [5] Tap "Set device details".

X Settings	15:24 Fri 05-01-2024	\$# \$ <}
O Display	PANEL ACTUATORS OUTDOOR STATIONS	3
<b>ქ</b> 》Sound		F
Network Connections	Device Setting 4	<b>J</b> t device details
စ <sub>္က</sub> Time & Date		
🗝 Access Management	Lock Management	
्रि User Settings	Unlock Type When Swiping Default Lock	
🕁 Video Surveillance	Default Lock Subsidiary	
0 Intercom List	Time of Power Lock(s) Time of Sig	inal Lock(s)
Program Button		
ැරූ Advanced Settings 2	Door Alarm Detection alarm Tam	per proof alarm
🔿 Software Update		

- [6] Select the connection type and edit the physical address.
- If IP pushbutton OS is connected to building network, "External IP gateway" should be selected.
- If IP pushbutton OS is connected to private network, "Internal IP gateway" should be selected.
- [7] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, the IP address will be "10.0.x.x". Its network type should be the same as the SmartAP.
- If the address type of the SmartAP is set to "Legacy IP", you should select "ABB Legacy" to avoid unknown errors.

X Settings		15:24 Fri 05-01-2024		44 Q ())
● Display 口》Sound	Set Device Details			×
ି <sub>ତି</sub> Network	Physical Address	Device		
<sup>စ</sup> ြူ Time & [	001	01	6	
access t	Floor <b>01</b>	Apartment <b>O1</b>		
္ဂ User Set	Internal IP gateway	External IP gateway	Customizable address	
ی Video Su بل Video Su بل Video Su		Abblegaly		
Program			Save &	
းတ္တို Advanceu ၁eccii		Detection alarm	Tamper proof ala	

[8] Tap "Save & Close".

## 10.4.6 Guard Unit

- [1] On the "System settings" screen, click "Engineering settings", enter the engineering password to access the settings.
- [2] On the "Engineering settings" screen, tap "Local settings".
- [3] Go to "Device no." section, edit the physical address.
- [4] Tap "Network settings", select the network type, it can set to "DHCP", "Customizable address" or "Legacy IP".
- If "ABB Legacy" is selected, the IP address will be "10.0.x.x". Its network type should be the same as the SmartAP.
- If the network type of the SmartAP is set to "Legacy IP", you should select "Legacy IP" to avoid unknown errors.

Engineering setting	gs	
Engineering settings		
Local settings 2	Device no.	
Password management	00 3	
Lock management	Call mode	
Network settings	Physical address 🛛 🗸	
	the 2nd lock	off
	Compatible mode	off
Fr 29/03/24 18:25		• <b>%</b>

# Appendix

Engineering setting	IS				
Engineering settings					
Local settings	Network:	DHCP	~		
Password management					
Lock management	IP address		Subnet mask		
	192.16	68.1.100	255 . 255 . 255	. 0	
Network settings 4	Default gate	away	DNS		
	Deladit gate	Sway	Divo		
	192 . 16	68.1.1	192 . 168 . 1		
			OK		
Fr 29/03/24 18:29				•	

## 10.4.7 IP Actuator

This device could be configured on Video IS.

- [1] Press the reset button of the IP Actuator once during normal operation; the LED flashing green means that the IP actuator has entered engineering mode.
- [2] On the "Settings" screen of the panel, tap "Advanced settings".
- [3] Tap "Actuators" to access the corresponding screen.
- [4] On the "Actuators" screen, go to the "IP Actuator device setting" section, tap "Set device details".

imes Settings	18:05 Fri 05-01-2024	₽₽ Ĵ ()»
O Display	PANEL ACTUATORS OUTDOOR ST	TATIONS
්ු) Sound	IP Actuator Device Setting	
ି୍କ୍ତି Network Connections -	Set device details 4	
<sup>0</sup> ണ് Time & Date 		
📼 Access Management	Power Lock	Unlock Time(s)
्रि User Settings	AC output	5
ん Video Surveillance	 Relay Lock	
🔍 Intercom List	Relay Type Turn on the light	Turn on light time 30 seconds
Program Button	– Lock Management	
ැලූ Advanced Settings 2	Link Exit Button with Lock Power lock	Report when unlock
	 Door Status	

- [5] Select the device type from the drop-down list and enter the device number.
- [6] Select the connection type and edit the physical address.
- If IP Actuator is connected to building network, "External IP gateway" should be selected.
- If IP Actuator is connected to private network, "Internal IP gateway" should be selected.

[7] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".

- If "ABB Legacy" is selected, the IP address will be "10.0.x.x". Its network type should be the same as the SmartAP.
- If the network type of the SmartAP is set to "Legacy IP", you should select "ABB Legacy" to avoid unknown errors.
- [8] Tap "Save & Close".

imes Settings	18:05 Fri 05-01-2024	<b>₩</b> Q <>
⊙ Display     → S	et Device Details	×
புல் Sound		
💮 Network	IP Actuator Type <b>5</b> Cevice <b>01</b>	
<sup>စ</sup> ္ဌာ Time & [	💿 Internal IP gateway 💿 External IP gateway 🡩	1
∝⊙ Access N	Block Apartment 001 01	
റ User Set	Floor 01	
Video Si 7	DHCP(Default) ABB Legacy Customizable addres	is
Untercor		8
Program		Save & Close
က္လြို Advanceu ခရာကျဖန		
C Software Update	Door Status	

# 10.5 Restoring to factory default



#### Note

Building address, signature and all parameters will be restored to the factory default settings after the reset operation.

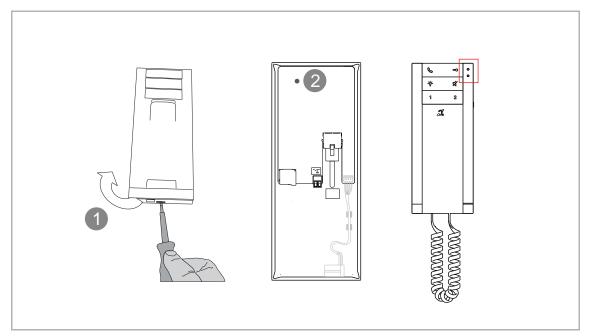
# 10.5.1 Video IS

- [1] Within 2 minutes of powering on the IS, on the "Advanced settings" screen, tap "Panel".
- [2] Go to the "Reset panel option" section.
- [3] Tap "Reset to factory setting".
- [4] Tap "Yes".

X Settings	11:24 Mo 18-09-2023 💮 🧊 付
Oisplay	PANEL ACTUATORS OUTDOOR STATIONS
ද්) Sound	Options
Retwork connections	Manual snapshot Manual video recording
ව <sub>සා</sub> Time and date	Auto Unlock Delete call History
∞ Access management	
्री User settings	Default guard unit Guard unit address
🕁 Video Surveillance	
0 Intercom list	Reset panel option 2
Program button	Reset to factory setting 3
နုတ္ပိဒ္ Advanced settings	
	ОК
× Settings	11:24 Mo 18-09-2023 🛜 💭 🖒
<ul> <li>Display</li> </ul>	
<ul> <li>● Display</li> <li>▲ Reset option</li> <li>Be careful</li> <li>○ Network</li> </ul>	ion ×
<ul> <li>Time an</li> <li>Display</li> <li>Reset option</li> <li>Be careful</li> <li>All system</li> </ul>	ion ×
<ul> <li>● Display</li> <li>▲ Reset option</li> <li>Be careful</li> <li>○ Network</li> <li>All system</li> <li>● Time an</li> </ul>	ion ×
<ul> <li>● Display</li> <li>▲ Reset option</li> <li>Be careful</li> <li>○ Network</li> <li>All system</li> <li>Please be at the panel with the panel withe panel with the panel withe panel wit</li></ul>	ion × i set ups will be lost: aware that by clcking YES, all system set ups will be lost, and will be returned to factory settings.
<ul> <li>Time an example 4</li> <li>Becareful</li> <li>Reset option</li> <li>Be careful</li> <li>Becareful</li> <li>Becareful</li></ul>	ion × i set ups will be lost: aware that by clcking YES, all system set ups will be lost, and will be returned to factory settings.
<ul> <li>(e) Display</li> <li>(f) Sound</li> <li>(f) Sound</li> <li>(f) Sound</li> <li>(f) Reset option</li> <li>(f) Be careful</li> <li>(f)</li></ul>	ion × i set ups will be lost: aware that by clcking YES, all system set ups will be lost, and will be returned to factory settings.
<ul> <li>● Display</li> <li>▲ Reset option</li> <li>Be careful</li> <li>Be careful<td>ion × i set ups will be lost: aware that by clcking YES, all system set ups will be lost, and will be returned to factory settings.</td></li></ul>	ion × i set ups will be lost: aware that by clcking YES, all system set ups will be lost, and will be returned to factory settings.
<ul> <li>(● Display</li> <li>(● Display</li> <li>(● Reset option</li> <li>Be careful</li> <li>Be careful</li> <li>Be careful</li> <li>(● Access</li> <li>All system</li> <li>Please be a the panel with a panel with a</li></ul>	ion × i set ups will be lost: aware that by clcking YES, all system set ups will be lost, and will be returned to factory settings. arre? 4

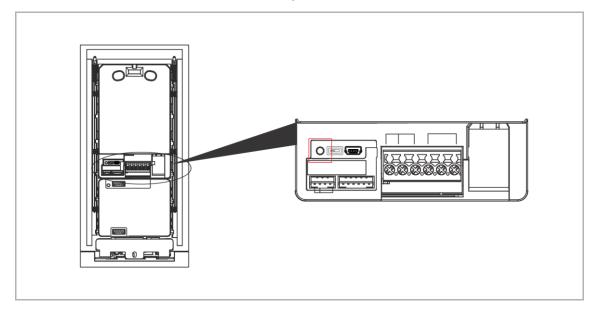
# 10.5.2 Audio IS

- [1] Disassemble the upper part from the bottom part by using a screwdriver.
- [2] Within 2 minutes of powering on the Audio IP, press and hold the reset button (located on the upper part) for 3 seconds until the 2 LED indicators turn on and then off.
- [3] After a while, the 2 LED indicators will flash to indicate the initial status.



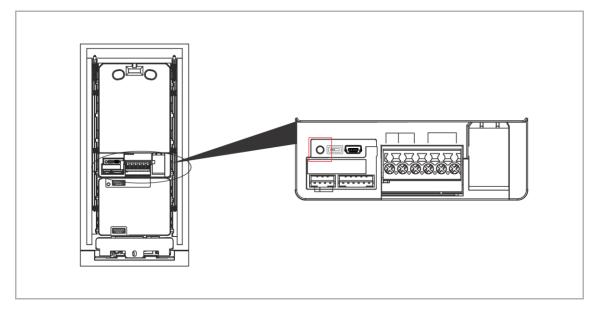
# 10.5.3 IP Touch 5 OS

- [1] Power on the OS, wait until all 3 LED indicators go out.
- [2] Within 2 minutes of powering on the OS, press and hold the reset button for 10 seconds until the 3 LED indicators are lit continuously.



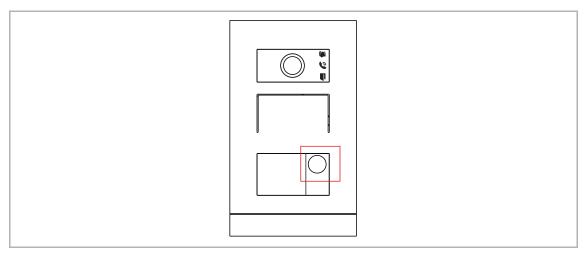
# 10.5.4 IP Pushbutton OS

- [1] Power on the OS, wait until all 3 LED indicators go out.
- [2] Within 2 minutes of powering on the OS, press and hold the reset button for 10 seconds until the 3 LED indicators are lit continuously.



## 10.5.5 Mini OS

- [1] Power on the mini OS with IC, wait until all 3 LED indicators go out.
- [2] Within 2 minutes of powering on the mini OS with IC, press and hold the first pushbutton for 5 seconds until all 3 LED indicators flash.
- [3] Press and hold the first pushbutton again for the 10 seconds until the mini OS with IC emits a "di" sound and the 3 LED indicators go out.



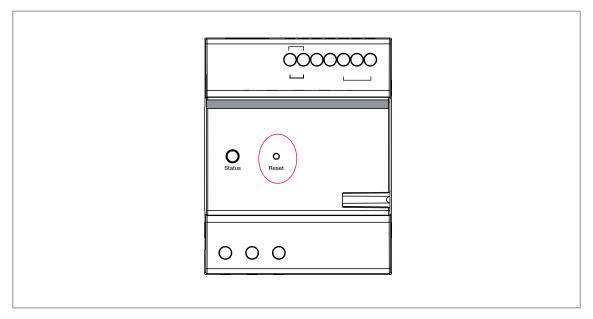
# 10.5.6 Guard Unit

- [1] Within 2 minutes of powering on the Guard Unit, on the "Engineering settings" screen, tap "Local settings".
- [2] Tap "Clear all data".

Engineering settings			
Local settings	Physical address	~	
Password management	the 2nd lock		off
Lock management	Compatible mode		<b></b>
Network settings	Compatible mode		off
			ОК
			2 Clear all data

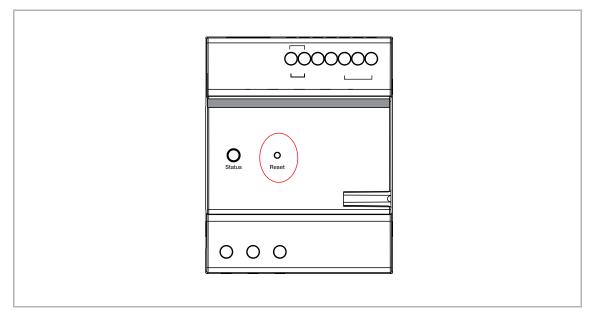
## 10.5.7 IP Actuator

- [1] Within 2 minutes of powering on the IP Actuator, press and hold the reset button for 10 seconds until the indicator goes out.
- [2] After a while, the indicator flashes green again.



## 10.5.8 IP Elevator Controller

- [1] Within 2 minutes of powering on the IP Elevator Controller, press and hold the reset button for 10 seconds until the indicator goes out.
- [2] After a while, the indicator flashes green again.



#### 10.6 Resetting the password for the primary admin

Press and hold the reset button for 10 seconds to reset the password for the primary admin and reset AP password in the same time.

LED		Reset button AP mode switch
	/	

#### 1. Reset option = Without MyBuildings account

If the reset option is set to "Without MyBuildings account" in the initial setup, you can change the password for the primary admin directly by entering a new password twice.

Please c	hange passwore	d first!
User name	jacky	
Password		
Repeat passw		

#### 2. Reset option = With MyBuildings account

If the reset option is set to "With MyBuildings account" in the initial setup, besides entering a new password twice, a verification code is also needed.

#### Note

Ο

If you have set an email to receive the verification code in the initial setup, you can obtain the verification code sent by email.

Sent 2140 For y	cation code: 920 by: Jacky's Smar adf9ea2c / ivanst our information. <i>A</i> via your free@ho	AP (cac28e69-8 agecn) . maximum of 25		
	Please cha	nge passwo	ord first!	
	Password			
	Repeat passw			
	Verify code	92OJJ88K		
			inish	

# 10.7 Configuring the IP mode

# 10.7.1 Viewing the IP mode

- [1] On the "Preferences" screen, click "Devices Diagnosis".
- [2] Display the IP mode of the SmartAP.
- [3] Drag the scroll bar to the right to view the IP mode of the designated device.

	C PREFERENCES		
Preferences	Devices Diagnosis		
System information	> System information		
Network settings	Version : V6.55 Signature : 34CA2EA50C04C548	sk : 255.255.255.0	
Localization	IP Mode :     DHCP     IP address :     192.168.1.101     Subnet mas       >     Serial No.     All types     All states     Building No.     Floor fl		o. Clear Filt
	ACTIONS Status Reason Device type	Physical address	Serial No.
Project backups			
Firmware updates	C / Guard unit		103807A7F0302D6 HGM
Connections & APIs	C F i C Available Indoor station		102807A7F06DC52 HGI2
Service	C F   Available Indoor station		102807A7F063253 HGH 102807A7F06DC59 HGI2
Wi-Fi access point mode settings	C F C Available Indoor station		101807A7F06DAF6 HSE
Third party authority	C / m Available Building IPA		104000CDE017FEE HGM
Third party autionty			
1			
Devices Diagnosis	PREFERENCES >	D	
		D	
ME 🕕 R3 SOS 🏦	PREFERENCES	D	
ME 🕕 🗟 SOS 🕅	PREFERENCES PREFERENCES Devices Diagnosis	Þ	
DME 1 Ra SOS 1		3	
ME 1 Ros 1		B Building IP Mode	Building IP Addre
DME 1 Res SOS R R		B Building IP Mode DHCP	
ME 1 Res Sos R R	PREFERENCES       Devices Diagnosis       Devices Diagnosis       Clear Filters       Refresh All       Serial No.       Version       Signature		192.168.1.
DME     Image: Solution of the section o	Clear Filters         Refresh All           Clear Filters         Refresh All           Clear Filters         Refresh All           Serial No.         Version         Signature           TA7F0302D6         HGM53_GU_Main_V1.54_20240321_PP_IMX6SOLO         34CA2EA50C04C548           TA7F0502D5         HGH29_Main_V1.02_20240321_MP_SSD20X         34CA2EA50C04C548	DHCP	192.168.1. 192.168.1.
DME     Image: Solution of the section o	Clear Filters         Refresh All           Clear Filters         Refresh All           Serial No.         Version         Signature           7A7F0302D6         HGM53_GU_Main_V1.54_20240321_PP_IMX6SOLO         34CA2EA50C04C548           7A7F05DC52         HGI29_Main_V1.10_20240311_MP_X2000         34CA2EA50C04C548	DHCP	192.168.1. 192.168.1. 192.168.1.
ME 1 Res Sos R R	Clear Filters         Refresh All           Clear Filters         Refresh All           Clear Filters         Refresh All           ArtFo6DC52         HGM53_GU_Main_V1.54_20240321_PP_IMX6SOLO         34CA2EA50C04C548           ArtFo6DC52         HGI29_Main_V1.12_20240321_MP_SD20X         34CA2EA50C04C548           ArtFo63253         HGH10IP_Main_V1.22_20240321_MP_SD20X         34CA2EA50C04C548	DHCP DHCP DHCP	Building IP Addre 192.168.1. 192.168.1. 192.168.1. 192.168.1. 192.168.1. 192.168.1.

# 10.7.2 Changing the IP mode from "DHCP" to "Legacy IP" for all devices

Changing the IP mode of the SmartAP will change the IP mode of all devices in the system. Please follow the steps below:

- [1] On the "Preferences" screen, click "Devices Diagnosis".
- [2] Click " 🖌 " to go to "Network settings" screen.
- [3] On the "Network settings" screen, tick the check box to enable "Legacy IP".
- There are 4 network connections type could be select from the drop-down list. Click the diagram on the right to view the details.

		s >	
		S	
Preferences	Devices Diagnosis		
System information	> System information		
Network settings	Version : V6.55 Signature : IP Mode : DHCP / 2 IP address :	34CA2EA50C04C548 192.168.1.101 Subnet ma	ask : 255.255.255.0
Localization	> Serial No. All types > All states	Building No. Floor	No. Room No. Clear Filt
Project backups	> ACTIONS Status Reason	Device type	Physical address Serial No.
Firmware updates	> C 🗲 前 🔶 Available	Guard unit	#01 103807A7F0302D6 HGM
Connections & APIs	, C 🗲 前 🕒 Available	Indoor station	001-0102-01 102807A7F06DC52 HGI2
Service	C 🗲 🛅 🔴 Available	Indoor station	001-0101-02 102807A7F063253 HGH
	C 🗲 🛅 🕒 Available	Indoor station	001-0101-01 102807A7F06DC59 HGI2
Wi-Fi access point mode settings	> C 🗲 前 🔶 Available	Second-confirm station	001-0101-02 101807A7F06DAF6 HSE
Third party authority	> C 🗲 前 🔶 Available	Building IPA	001-01 104000CDE017FEE HGM
Devices Diagnosis	>	•	
ome 🕕 🗟 sos 论 🛛	PREFERENCE	S >	- b
ome 🕦 🖓 sos 🏚 🛛			5
	PREFERENCE     PREFERENCE     PREFERENCE     Network settings		Lagers News, Bests Data anderes and Buldersy and Last 7 (Hd)
Preferences	Network settings		Lappa Note. Mill John and an Alfrage streams or (AH 7 Mg) Martine and an alfr Alfrage stream and (AH 7 Mg) Martine and an alfr Alfrage stream and (AH 7 Mg) Martine and and (
Proferences System information	Network settings      Network mode      Fallen APP leager Mode		Lapp for the lot data and help given a (A) 1 Proj.
Preferences System information Network settings	Network settings      Network mode      Use ABB Legacy Mode      Unit network and building network on LAN-1 (POE)		
Preferences System information Network settings	Network settings      Network mode     Use ABB Legacy Mode	5	
Preferences System information Network settings Localization	Network settings      Network mode      Use ABB Legacy Mode      Unit network and building network on LAN-1 (POE)		
		-5 * 42	
Preferences System information Network settings Localization Project backups Firmware updates		+2 VE) (Recommended setting)	
Preferences System information Network settings Localization Project backups		+2 VE) (Recommended setting)	
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs		v v-2 (Recommended setting) (E)	
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs Service	Network settings      Network mode      Use ABB Legacy Mode      Unit network and building network on LAN-1 (POE)      Unit network on LAN-1 (POE); Building network on LAN-1 (POE)      Unit network on LAN-2; Building network on LAN-1 (POE)      Unit network on UAN-3; Building network on LAN-1 (POE)      Unit network on WLAN; Building network on LAN-1 (POE)      Subnet mask	25 42 525 (Recommended setting) 525 (255 255 0)	

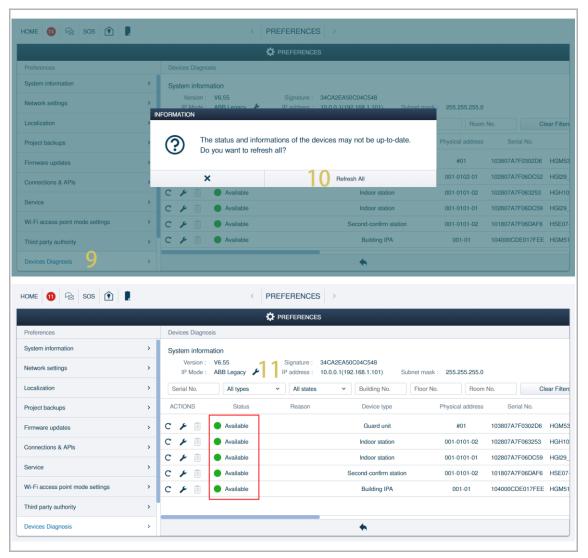
- [4] Click "Save" to save the settings.
- [5] A warning window will pop up to display the notice.
- [6] Tick the check box if you want to continue.
- [7] Click "  $\checkmark$  " to continue.
- [8] Click "  $\checkmark$  " to access the SmartAP again.

HOME 🕕 😼 SOS 🏚	PREFERENCES >
Preferences	Network settings User that bit bit how and another and a field particular to the field of the set o
System information	* Network mode
Network settings	WARNING
Localization	Do you want to change to ABB Legacy mode?
Project backups	Up to 2 private Outdoor Stations (1 primary and 3 secondary) Up to 2 private IP Actuators
Firmware updates	O I am aware of the risks
Connections & APIs	7
Service	Subnet mask 255 255 0
Wi-Fi access point mode settings	Default gateway 182,168,1.1
Third party authority	> DNS server 492.168.3.1
Devices Diagnosis	· × ✓ Save
HOME 🕕 😼 SOS 🕥 📗	PREFERENCES >
	C PREFERENCES
System information	<b>)</b>
Network settings	
Localization	INFORMATION
Project backups	<ul> <li>Network settings changed. You may need to access a new network address.</li> </ul>
Firmware updates	
Connections & APIs	> 8⊀
Service	•
Wi-Fi access point mode settings	•
Third party authority	<b>&gt;</b>

[9] On the "Preferences" screen, click "Devices Diagnosis".

[10]Click "Refresh All".

[11]"ABB Legacy" will be displayed on the screen and all the devices will be available after this change.



Preferences		Devices Diagnosis	S			
System information	>					
Network settings	>					
Localization	>	Clear	Filters Refresh All		12	
Project backups	>	Serial No.	Version	Signature	Building IP Mode	Building IP Add
Firmware updates	>	307A7F0302D6 H	GM53_GU_Main_V1.54_20240321_PP_IMX6SOLO	34CA2EA50C04C548	Legacy IP	10
Connections & APIs	>	307A7F063253 H	GH10IP_Main_V1.22_20240321_MP_SSD20X	34CA2EA50C04C548	Legacy IP	10.0
		307A7F06DC59 H	GI29_Main_V1.10_20240311_MP_X2000		Legacy IP	10.0
Service	>	307A7F06DAF6 H	SE07-IC_Digital_V0.04_20240105_PP_N32926	34CA2EA50C04C548	Legacy IP	10.
Wi-Fi access point mode settings	>	000CDE017FEE H	GM51_V1.16_20240206_PP_STM32F407VE	34CA2EA50C04C548	Legacy IP	10.0
Third party authority	>					
Devices Diagnosis	>			•		

[12]The IP mode of all the devices will be changed to "Legacy IP" at the same time.

# 10.7.3 Changing the IP mode from "Legacy IP" to "DHCP" for all devices

Changing the IP mode of the SmartAP will change the IP mode of all devices on the system. Please follow the steps below:

- [1] On the "Preferences" screen, click "Devices Diagnosis".
- [2] Click " 🖌 " to go to "Network settings" screen.
- [3] On the "Network settings" screen, untick the check box to disable "Legacy IP".
- There are 2 network connections type could be select from the drop-down list. Click the diagram on the right to view the details.

	< PREFERENCE			
		ES		
Preferences	Devices Diagnosis			
System information >	System information			
Network settings >	Version : V6.55 Signature : IP Mode : ABB Legacy > 2 IP address :	34CA2EA50C04C548 10.0.0.1(192.168.1.101) Subnet m	nask : 255.255.255.0	
Localization >	Serial No. All types	Building No. Floo	Pr No. Room No.	Clear Filters
Project backups >	ACTIONS Status Reason	Device type	Physical address Serial	No.
Firmware updates >	C 🗲 🔟 🔴 Available	Guard unit	#01 103807A7F	0302D6 HGM53
Connections & APIs >	C 🗲 🔟 🕒 Available	Indoor station	001-0101-02 102807A7F	063253 HGH10
Service >	C 🗲 🔟 🕒 Available	Indoor station	001-0101-01 102807A7F	06DC59 HGI29
	C 🗲 🔟 🔴 Available	Second-confirm station	001-0101-02 101807A7F	
Wi-Fi access point mode settings		Building IPA	001-01 104000CDE	017FEE HGM5
Third party authority >				
Devices Diagnosis		♠		
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HOME 🕕 🖓 SOS 🕐 💂				
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	PREFERENCE Network settings		Advanta (1907) Broad Nato 7 angenet Association (1910) Restance and an angenet and angenet Restance and angenet and angenet angenet and angenet an	server or manual
Preferences	PREFERENCE Network settings Network mode Use ABB Legacy Mode			
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Preferences       System information       Network settings       Localization	PREFERENCE Network settings      Network mode     Juse ABB Legacy Mode     LAN (PoE) (Recommended Setting)      LAN (PoE) (Recommended Setting)      WIFI	55	Presentine, a reduce with a reserved to consented	
Preferences       System information       Network settings       Localization       Project backups	PREFERENCE  Network settings  Network mode Use ABB Legacy Mode LAN (PoE) (Recommended Setting) LAN (PoE) (Recommended Setting) WIFI  Obtain IP address automatically	55	Presentine, a reduce with a reserved to consented	Server of ingeneral
Preferences       System information       Network settings       Localization       Project backups       Firmware updates	PREFERENCE      Network settings      Network mode      Use ABB Legacy Mode      LAN (PoE) (Recommended Setting)      LAN (PoE) (Recommended Setting)      WiFI      Obtain IP address automatically      IP address		Presentine, a reduce with a reserved to consented	
Preferences       System information       Network settings       Network settings       Localization       Project backups       Firmware updates       Connections & APts	PREFERENCE  Network settings  Network mode Use ABB Legacy Mode LAN (PoE) (Recommended Setting) LAN (PoE) (Recommended Setting) WIFI  Obtain IP address automatically IP address Subnet mask	25 v 192.168.1.101	Presentine, a reduce with a reserved to consented	Server of manual
Preferences       System information       Network settings       Localization       Project backups       Firmware updates       Connections & APIs       Service	PREFERENCE      Network settings      Vetwork mode     Juse ABB Legacy Mode      LAN (PoE) (Recommended Setting)      LAN (PoE) (Recommended Setting)      WiFI      Obtain IP address automatically      IP address      Subnet mask      Default gateway	-S ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Presentine, a reduce with a reserved to consented	

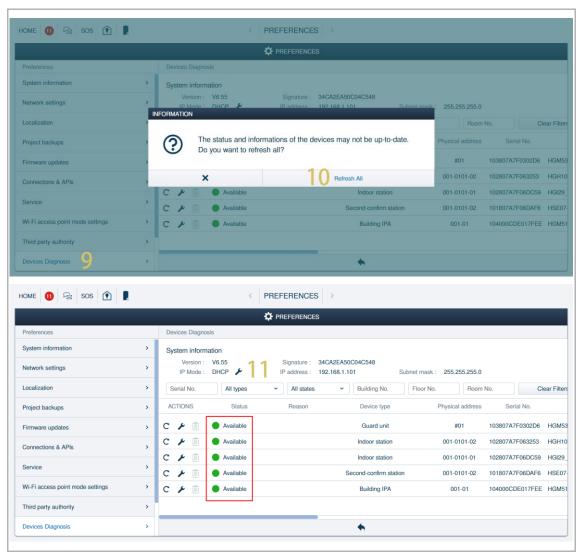
- [4] Click "Save" to save the settings.
- [5] A warning window will pop up to display the notice.
- [6] Tick the check box if you want to continue.
- [7] Click "  $\checkmark$  " to continue.
- [8] Click "  $\checkmark$  " to access the SmartAP again.

		🗘 PI	REFERENCES	
	Network sett			Assessable (DHCP) / Manual Mode IP assignment advected via DHCP server at manual Teacodemic is summarily to many HHP arene reach to remeate
System information	> Network	mode		
Network settings		Legacy Mode		
Localization		t to change to DHCP mod	e?	
Project backups	5 Please make su • Building netwo	ure the following conditions have ork needs to connect to a router e that all devices in the system h	Marginance Same     Markana     Markanaa     Markanaa     Markanaa     Markanaaa     Markanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	
Firmware updates	6 I am aware			
Connections & APIs		×	7 🗸	
Service	Subnet mask	k		
WI-Fi access point mode settings	> Default gates	way		
Third party authority	> DNS server			
Devices Diagnosis	•	×	✓ Save	
HOME 🚺 🗟 SOS 🕥 丨			FERENCES	
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Preferences System information Network settings Localization	> INFORMATI	K P	REFERENCES	
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[9] On the "Preferences" screen, click "Devices Diagnosis".

[10]Click "Refresh All".

[11]"DHCP" will be displayed on the screen and all the devices will be available after this change.



Preferences		Devices Diagnosis			
System information	>				
Network settings	>				
Localization	>	Clear Filters Refresh All		12	
Project backups	>	J No. Version	Signature	Building IP Mode	Building IP Address /
Firmware updates	>	0302D6 HGM53_GU_Main_V1.54_20240321_PP_IMX6SOLO	34CA2EA50C04C548	DHCP	192.168.1.102
Connections & APIs	>	063253 HGH10IP_Main_V1.22_20240321_MP_SSD20X	34CA2EA50C04C548	DHCP	192.168.1.100
		06DC59 HGI29_Main_V1.10_20240311_MP_X2000	34CA2EA50C04C548	DHCP	192.168.1.107
Service	>	06DAF6 HSE07-IC_Digital_V0.04_20240105_PP_N32926	34CA2EA50C04C548	DHCP	192.168.1.106
Wi-Fi access point mode settings	>	E017FEE HGM51_V1.16_20240206_PP_STM32F407VE	34CA2EA50C04C548	DHCP	192.168.1.105
Third party authority	>				
Devices Diagnosis	>		*		

[12]The IP mode of all the devices will be changed to "DHCP" at the same time.

# 10.7.4 Changing IP mode for the designated device

- [1] On the "Device Diagnosis" screen, click " 🗡 ".
- [2] Changing the IP mode.
- If "Static address" is selected, you need to enter the IP address manually or accept the default value.
- [3] Click "Save".

Preferences	Devices Diagnosis				
System information	System information				
Network settings	Version : V6.5 IP Mode : DHC	55 Signature :	34CA2EA50C04C548 192.168.1.101 S	Subnet mask : 255.255.255.0	
Localization	> Serial No.	All types v All states	Building No.	Floor No. Room No.	o. Clear F
Project backups	ACTION	Status Reason	Device type	Physical address	Serial No.
Firmware updates	> C 🔑 🛅 🌒	Available	Guard unit	#01	103807A7F0302D6 HG
Connections & APIs	, C 🗲 🔟 🌒	Available	Indoor station	001-0101-02	102807A7F063253 HG
Service	, C 🖌 📋 🌒	Available	Indoor station	001-0101-01	102807A7F06DC59 HG
	C 🗲 📋 🌒	Available	Second-confirm station	n 001-0101-02	101807A7F06DAF6 HS
Wi-Fi access point mode settings	) C 🌶 📋 🌒	Available	Building IPA	001-01	104000CDE017FEE HG
Third party authority	>				
Devices Diagnosis	>		•		
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HOME 🔞 🖓 SOS 🕅 丨					
HOME 🕦 😪 SOS 🏦 🛔 Preferences	PREFERENCES				
	- Parison Discourse		s la	-	-
Preferences	PREFERENCES			mask: 255,255,255.0	-
Preferences System information	PREFERENCES Building IP Mode		s la	mask : 255.255.255.0 or No. Room Ni	o. Clear F
Preferences System information Network settings	PREFERENCES     Building IP Mode     Building Network	DHCP • Static address	s la		o. Clear F Serial No.
Preforences System information Network settings Localization Project backups	PREFERENCES Building IP Mode Building Network	PREFERENCI DHCP • Static address 192.168.1.102 255.255.255.0 192.168.1.1	s la	or No. Room Ni Physical address	
Preferences System information Network settings Localization Project backups Firmware updates	PREFERENCES Building IP Mode Building Network	PREFERENCE     DHCP     Static address      192.168.1.102      255.255.255.0	s la	or No. Room Ni Physical address #01	Serial No.
Preforences System information Network settings Localization Project backups Firmware updates Connections & APIs	> PREFERENCES > Building IP Mode > Building Network > Action	DHCP • Static address 192.168.1.102 255.255.255.0 192.168.1.1 192.168.1.1	s la	or No. Room Ni Physical address #01 001-0101-02	Serial No. 103807A7F0302D6 HG
Preforences System information Network settings Localization Project backups Firmware updates Connections & APIs Service	PREFERENCES       >       >       >       >       >       >       >       >       >       >       Action	<ul> <li>C DHCP • Static address</li> <li>192.168.1.102</li> <li>255.255.0</li> <li>192.168.1.1</li> <li>192.168.1.1</li> <li>192.168.1.1</li> <li>Export logs</li> </ul>	Legacy IP 2	or No. Room Ni Physical address #01 001-0101-02 001-0101-01	Serial No. 103807A7F0302D6 HG 102807A7F063253 HG
Preforences System information Network settings Localization Project backups Firmware updates Connections & APIs Service	> PREFERENCES > Building IP Mode > Building Network > Action	<ul> <li>C DHCP • Static address</li> <li>192.168.1.102</li> <li>255.255.0</li> <li>192.168.1.1</li> <li>192.168.1.1</li> <li>192.168.1.1</li> <li>Export logs</li> </ul>	s la	or No. Physical address #01 001-0101-02 001-0101-01 001-0101-02	Serial No. 103807A7F0302D6 HG 102807A7F063253 HG 102807A7F06DC59 HG
Preferences System information Network settings Localization Project backups Firmware updates	<ul> <li>PREFERENCES</li> <li>Building IP Mode</li> <li>Building Network</li> <li>Building Network</li> <li>Action</li> </ul>	<ul> <li>C DHCP • Static address</li> <li>192.168.1.102</li> <li>255.255.0</li> <li>192.168.1.1</li> <li>192.168.1.1</li> <li>192.168.1.1</li> <li>Export logs</li> </ul>	Legacy IP 2	or No. Physical address #01 001-0101-02 001-0101-01 001-0101-02	Serial No.           103807A7F0302D6         HG           102807A7F063253         HG           102807A7F06DC59         HG           101807A7F06DAF6         HS

[4] New IP mode of the designated device will be displayed on the screen.

		بلد			
Preferences		Devices Diagnosis			
System information	>				
Network settings	>				
Localization	>	Refresh All			
Project backups	>	Version	Signature	Building IP Mode	Building IP Address / Building Subnet mas
Firmware updates	>	_GU_Main_V1.54_20240321_PP_IMX6SOLO	34CA2EA50C04C548	Static address 4	192.168.1.102 / 255.255.255.0
Connections & APIs	>	IP_Main_V1.22_20240321_MP_SSD20X	34CA2EA50C04C548	DHCP	192.168.1.100 / 255.255.255.0
		Main_V1.10_20240311_MP_X2000	34CA2EA50C04C548	DHCP	192.168.1.107 / 255.255.255.0
Service	>	IC_Digital_V0.04_20240105_PP_N32926	34CA2EA50C04C548	DHCP	192.168.1.106 / 255.255.255.0
Wi-Fi access point mode settings	>	_V1.16_20240206_PP_STM32F407VE	34CA2EA50C04C548	DHCP	192.168.1.105 / 255.255.255.0
Third party authority	>				
Devices Diagnosis	>		*		

### **IP** mode matching

- If the IP mode of the SmartAP is set to "DHCP", the IP mode the designated device could be "DHCP" or "Static address".
- If the IP mode of the SmartAP is set to "Legacy IP", the IP mode the designated device must be "Legacy IP" as well.
- If the IP mode is not matched between the designated device and the SmartAP, "Error" will be displayed on the screen.

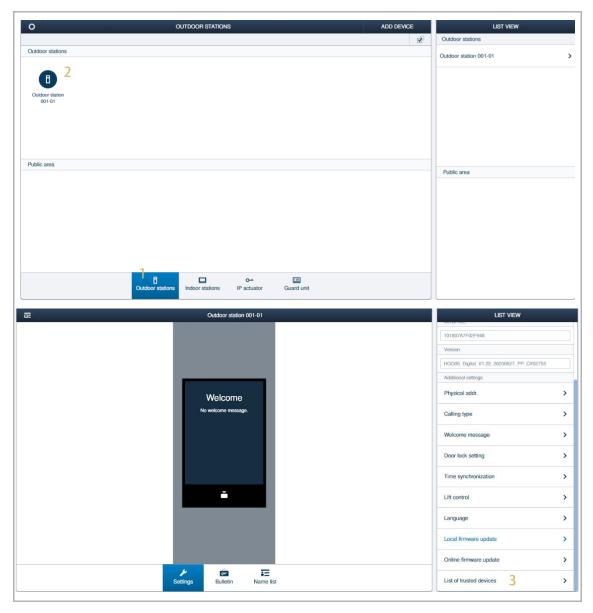
### 10.8 Managing the trusted devices

### 10.8.1 Managing the trusted devices for outdoor station

If you want to release the lock on the outdoor station, you need to check:

- If the Indoor Station and the Outdoor Station have been signed on the SmartAP.
- If the Indoor Station has been added on the trusted list of the Outdoor Station.
- 1. Adding the trusted devices

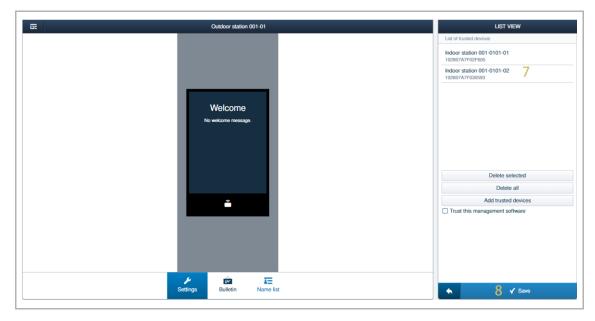
- [1] On the "Door Entry System" screen, click "Outdoor stations".
- [2] Click the designated Outdoor Station.
- [3] Scroll down the list and click "List of trusted devices".



- [4] Click "Add trusted devices".
- [5] Tick the check boxes to select the devices to be trusted.
- [6] Click "  $\checkmark$  " to confirm.

ā	Outdoor station 001-01	LIST VIEW
		List of trusted devices
		No trusted device
	Welcome         No welcome message	Add trusted devices Trust this management software
	Settings Bulletin Name list	✓ Save
	Outdoor station 001-01	LIST VIEW
	Add trusted devices	t of trusted devices
		rusted device
	Please select device	
	All     Cound unit #01     Guard unit #01     Building1     Public     Outdoor station 001-01     Ø Floor 1     Ø Indoor station 001-0101-01     Ø Indoor station 001-0101-02	
		Add trusted devices
		rust this management software
	x 6 .	
	× 6√	

- [7] The result is displayed on the screen.
- [8] Click "Save" to save.

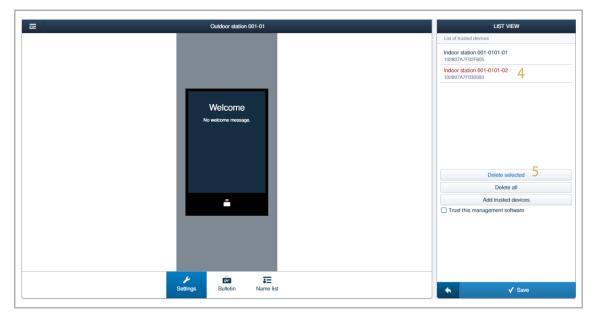


2. Removing the trusted devices

- [1] On the "Door Entry System" screen, click "Outdoor stations".
- [2] Click the designated outdoor station.
- [3] Scroll down the list and click "List of trusted devices".

O OUTDOOR STATIONS ADD DEVICE	LIST VIEW	
Ŕ	Outdoor stations	
Outdoor stations	Outdoor station 001-01	>
Cutidor station 01-01		
Public area	Public area	
Curdoor stations IP actuator Guard unit		
Cutdoor station 001-01	LIST VIEW	
CE Outdoor station 001-01	101807A7F02F948 Version	
EE Outdoor station 001-01	101807A7F02F948           Version           HGO05_Digital_V1.22_20200527_PP_CX92755	
CE Outdoor station 001-01 Welcome	101807A7F02F948 Version	>
	101807A7F02F948           Version           HGC05_Digital_V1.22_20200527_PP_CX82755           Add8ional settings	>
Welcome	Units His- 101807A7F02F948 Version HG005 Digital V1.22 20200527 PP CX82755 Additional settings Physical addr.	
Welcome	Units 7A7F02F948 Version HGO05, Digital V1.22, 20200527, PP_CX32755 Additional settings Physical addr. Calling type	>
Welcome	Unite THE.       101807A7F02F948       Version       HCO05_Digital_V1.22_20200527_PP_CX02755       Additional settings       Physical addr.       Calling type       Welcome message	> >
Welcome	Intervention       Intervention       Version       HG006, Digital V1.22, 20200527, PP, CX02755       Additional settings       Physical addr.       Calling type       Welcome message       Door lock setting	> > >
Welcome No welcome message.	Order No.       101807A7F02P948       Version       HCOOS Digital V1.22 20200527 PP CX82755       Additional settings       Physical addr.       Calling type       Welcome message       Door lock setting       Time synchronization	> > > >
Welcome No welcome message.	Intervention       Intervention       Version       HG005_Digital_V1.22_20200527_PP_CX82755       Additional settings       Physical addr.       Calling type       Welcome message       Door lock setting       Time synchronization       Lift control	> > > >
Welcome No welcome message.	Internation         Internation         Version         HCCOS Digital V1.22_20200527_PP_CX82755         Additional settings         Physical addr.         Calling type         Welcome message         Door lock setting         Time synchronization         Lift control         Language	> > > > >

- [4] Click the designated devices to select one by one (the selected devices are highlighted in red).
- [5] Click "Delete selected".



# 10.8.2 Managing the trusted devices for IP actuator

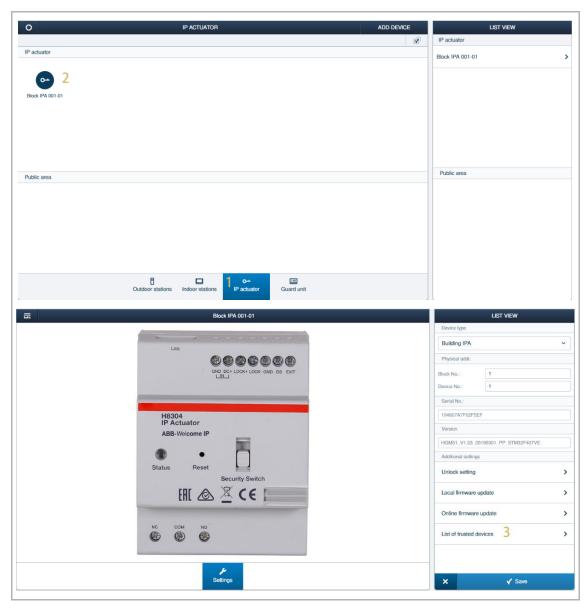
If you want to release the lock on the IP actuator, you need to check:

- If the indoor station and the IP actuator are signed on "Smart Access Point".
- If the indoor station has been added to the trusted list on the IP actuator.
- 1. Adding the trusted devices

Please follow the steps below:

- [1] On the "Door Entry System" screen, click "IP actuator".
- [2] Click the designated IP actuator.

[3] Click "List of trusted devices".



- [4] Click "Add trusted devices".
- [5] Tick the check boxes to select the devices to be trusted.
- [6] Click "  $\checkmark$  " to confirm.

=	Block IPA 001-01	LIST VIEW
		List of trusted devices
	and an and a second second	No trusted device
	LW W CON CONCUCCION DES ENT HB304 PACUATOR ABB-Welcome IP Status Reset Concursion Status Reset Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursion Concursio	Add trusted devices
	بن Sottings	× √ Save
		1107 11014
æ	Block IPA 001-01	LIST VIEW
	Block IPA 001-01 Add trusted devices	of trusted devices
E:		
	Add trusted devices  Please select device  All  Z Public  G Guad uni #01  E Dublic  V Floor 1  I Induer station 001-0101-01  I I Induer station 001-0101-01  I I Induer station 001-0101-01 I I Induer station 001-0101-01 I I Induer station 001-0101-01 I I Induer station 001-0101-01 I I Induer station 001-0101-01 I I I I I I I I I I I I I I I I I I I	In trusted devices nusted device Add trusted devices
	Add trusted device Please select device Quard unit #01 Quard unit #01 Quar	In trusted devices nusted device Add trusted devices

- [7] The result is displayed on the screen.
- [8] Click "Save" to save.

E Block IPA 001-01	LIST VIEW
	List of trusted devices
H8304 IP Actuator ABB-Welcome IP Status Reset Status Security Switch	Delete selected Delete all Add trusted devices
	Trust this management software x 8 √ Save

2. Removing the trusted devices

- [1] On the "Door Entry System" screen, click "IP actuator".
- [2] Click the designated IP actuator.
- [3] Click "List of trusted devices".

O IP ACTUATOR	ADD DEVICE LIST VIEW	
	IP actuator	
IP actuator	Block IPA 001-01	>
2 Block IPA 001-01		
Public area	Public area	
Cutdoor stations Indoor stations		
표 Block IPA 001-01	LIST VIEW	
Block IPA 001-01	LIST VIEW	
ELIM		v
	Device type	Ÿ
LAN	Device type Building IPA Physical addr. Block No.: 1	~
	Device type Building IPA Physical addr.	•
	Device type Building IPA Physical addr. Block No.: 1	Y
	Device type       Building IPA       Physical addr.       Block No.:     1       Device No.:     1	~
	Device type           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           104807A7F02F5EF         1           Version         1	~
LAN W W W W W W GND DC+ LOCK+ LOCK- GND DS EXIT LN H8304 IP Actuator	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           104807A7F02P5EF         Version           Version         HGMS1_V1.03_20190301_PP_STM32F407VE	
LAN Weicome IP ABB-Weicome IP	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           InH807/XF02F5EF         Varsion           HGMS1 V1.03. 20190301_PP_STM32F407VE         Additional settings	
Len Weight in the second seco	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           104807A7F02P5EF         Version           Version         HGMS1_V1.03_20190301_PP_STM32F407VE	~
LAN We was a way of the second secon	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           InH807/XF02F5EF         Varsion           HGMS1 V1.03. 20190301_PP_STM32F407VE         Additional settings	
Lun H8304 IP Actuator ABB-Welcome IP Status Reset Status Cecurity Switch Eff. Constants Status Cecurity Switch	Device type           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           I04807A7F02F5EF         Version           HGM51 V1.03_20190301_PP_STM32F407VE         Additional settings           Unlock setting         1	>
LAN Weich Dock-Look-Look-Code Dis Exit HB304 IP Actuator ABB-Weicome IP Status Reset Status Security Switch	Device type         Building IPA         Physical addr.         Block No.:       1         Device No.:       1         Serial No.:       1         104807/AF702/5EF       Variaon         HGM51 V1.03_20190301 .PP_STM32F407VE       Additional settings         Unlock setting       Local firmware update	>
LW We we	Device hype         Building IPA         Physical addr.         Block No.:       1         Device No.:       1         Serial No.:       1         104807A7F02F5EF         Version         HGM51_V1.03_20190301.PP_STM32F407VE         Additional settings         Unlock setting         Local firmware update         Online firmware update	>

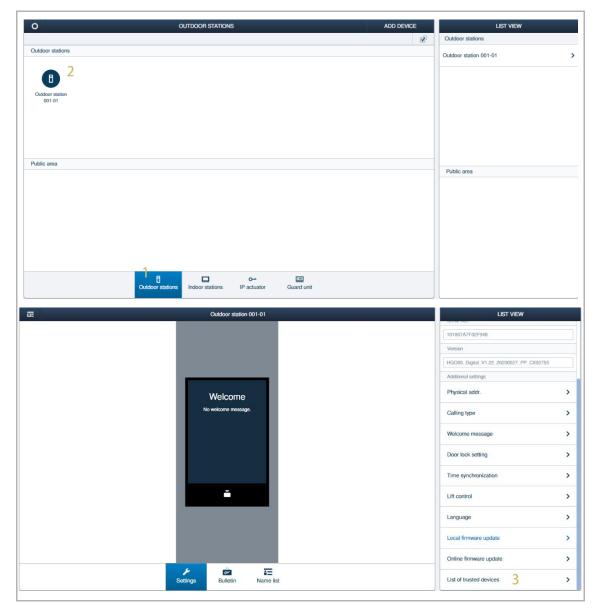
- [4] Click the designated devices to select one by one (the selected devices are highlighted in red).
- [5] Click "Delete selected".

Block IPA 001-01	LIST VIEW
	List of Inusted devices Indoor station 001-0101-02 102807A7F030693 Guard unit 801 103807A7F02F93C Indoor station 001-0101-01 102807A7F02F905
HB304 IP Actuator ABB-Welcome IP Status Reset Security Switch EFIE COM KO	Delete selected 5 Delete all Add trusted devices Trust this management software
Settings	× √ Save

### 10.8.3 Managing the trusted devices for the SmartAP

1. Trusting the designated outdoor stations

- [1] On the "Door Entry System" screen, click "Outdoor stations".
- [2] Click the designated outdoor station.
- [3] Scroll down the list and click "List of trusted devices".



- [4] Click "Trust this management software".
- [5] The result is displayed on the list.
- [6] Click "  $\checkmark$  " to save.

Outdoor station 001-01	LIST VIEW
	List of trusted devices Indoor station 001-0101-01 102807A7F02F005
	Indoor station 001-0101-02 102807A7F030593 Guard unit #01
Welcome No welcome message.	103807A7F03F93C MGMT-SW 105807A7F030734 5
	Delete selected Delete all
	Add trusted devices
	☑ Trust this management software 4
Settings Bulletin Name list	★ 6 ✓ Save

2. Trusting the designated IP Actuators

- [1] On the "Door Entry System" screen, click "IP actuator".
- [2] Click the designated IP actuator.
- [3] Click "List of trusted devices".

O IP ACTUATOR	ADD DEVICE LIST VIEW	
	IP actuator	
IP actuator	Block IPA 001-01	>
2 Block IPA 001-01		
Public area	Public area	
Cutdoor stations Indoor stations		
표 Block IPA 001-01	LIST VIEW	
Block IPA 001-01	LIST VIEW	
ELIM		v
	Device type	Ÿ
LAN	Device type Building IPA Physical addr. Block No.: 1	~
	Device type Building IPA Physical addr.	•
	Device type Building IPA Physical addr. Block No.: 1	Y
	Device type       Building IPA       Physical addr.       Block No.:     1       Device No.:     1	~
	Device type           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           104807A7F02F5EF         1           Version         1	~
LAN W W W W W W GND DC+ LOCK+ LOCK- GND DS EXT LN H8304 IP Actuator	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           104807A7F02P5EF         Version           Version         HGMS1_V1.03_20190301_PP_STM32F407VE	
LAN Weicome IP ABB-Weicome IP	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           InH807/XF02F5EF         Varsion           HGMS1 V1.03. 20190301_PP_STM32F407VE         Additional settings	
Lun H8304 IP Actuator ABB-Welcome IP Status Reset Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status Status	Device hype           Building IPA           Physical addr.           Block No.:           1           Device No.:           1           Serial No.:           104807A7F02P5EF           Version           HGMS1_V1.03_20190301_PP_STM32F407VE	~
LAN We we	Device hype           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           InH807/XF02F5EF         Varsion           HGMS1 V1.03. 20190301_PP_STM32F407VE         Additional settings	
Lun H8304 IP Actuator ABB-Welcome IP Status Reset Status Cecurity Switch Eff. Constants Status Cecurity Switch	Device type           Building IPA           Physical addr.           Block No.:         1           Device No.:         1           Serial No.:         1           IO4807A7F02F5EF         Version           HGM51 V1.03_20190301_PP_STM32F407VE         Additional settings           Unlock setting         1	>
LAN Weich Dock-Look-Look-Code Dis Exit HB304 IP Actuator ABB-Weicome IP Status Reset Status Security Switch	Device type         Building IPA         Physical addr.         Block No.:       1         Device No.:       1         Serial No.:       1         104807/AF702/5EF       Variaon         HGM51 V1.03_20190301_PP_STM32F407VE       Additional settings         Unlock setting       Local firmware update	>
LW We we	Device hype         Building IPA         Physical addr.         Block No.:       1         Device No.:       1         Serial No.:       1         104807A7F02F5EF         Version         HGM51_V1.03_20190301.PP_STM32F407VE         Additional settings         Unlock setting         Local firmware update         Online firmware update	>

- [4] Click "Trust this management software".
- [5] The result is displayed on the list.
- [6] Click "  $\checkmark$  " to save.

Block IPA 001-01	LIST VIEW
	List of trusted devices
LAN	Indoor station 001-0101-02 102807A7F030593
	Guard unit #01 103807A7F02F93C
	Indoor station 001-0101-01 102807A7F02F605
	MGMT-SW 105807A7F030734 5
H8304 IP Actuator	
ABB-Welcome IP	
••	Delete selected
Status Reset	Delete all
Security Switch	Add trusted devices
ERI 💩 🗏 CE	✓ Trust this management software
June 2010	
Settings	× 6 ✓ Save

# 10.8.4 Emergency unlock

In some emergency cases, you may need to release all public doors. To achieve this, you need to add all outdoor stations and all public IP actuators to "Smart Access Point".

### Release all public doors

- [1] On the configuration screen, click "SOS".
- [2] Enter the password for current admin user.
- [3] Click "Unlock all public doors".
- [4] The result status is displayed on the screen.

✓ <b>◎</b> 🗟 sos 💽	<b>!</b> ବ		MAIN MENU		
	e - e	EMERGENCY UNLOCK(NORMA SOS Attention User name Password	L STATE) This operation will unlock all public doors! jacky	THE BENTIES	
Design a building by creating floors and rooms	Configure the devices o the access control system e.g. Cylinder, repeater	f Locating and linking devices	Add and edit users. Create and edit actions Create user groups	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
iacky				Device	configuration 🔅 Preferences
	H MARK LISS COMMUNICATION	MERGENCY UNLOCK SOS Attention	Now the system is in emergency state, all the public doors are open.		DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder.	of Locating and linking devices	Add and edit users. Create user groups	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor

# Close all public doors

- [1] On the configuration screen, click "SOS".
- [2] Enter the password for the current admin user.
- [3] Click "Lock all public doors".
- [4] The result status is displayed on the screen.

✓ 0 ₨ sos 1			MAIN MENU		
	O-O I	EMERGENCY UNLOCK(EMERG SOS Attention User name Password	Now the system is in emergency state, all the public doors are open.		DOOR ENTRY SYSTEM
		×	Cock all public doors		
Design a building by creating floors and rooms	Configure the devices the access control system e.g. Cylinder repeater	devices	Add and edit users. Create and edit actions Create user groups	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
iacky				C Device	configuration 🏾 🏠 Preferences
🗸 🧿 🖓 sos 🌘	<b>)</b> ବ		MAIN MENU		
BUILDING STRUCTURE		EMERGENCY UNLOCK SOS Attention	Emergency unlock mode has been exited. 4		DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices the access control system e.g. Cylinder, repeater	devices	X Add and edit users. Create user groups	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
🎽 jacky				Device	configuration 🔅 Preferences

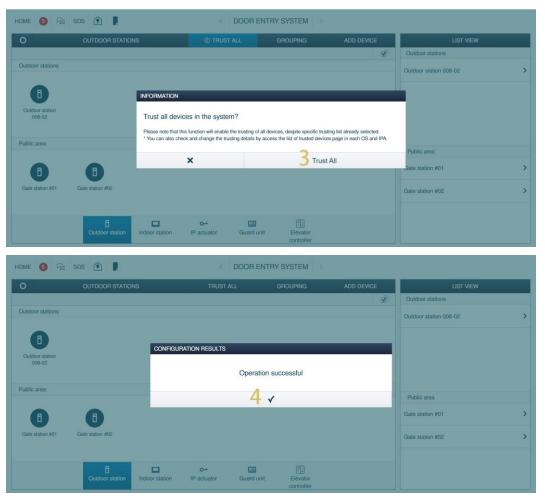
# 10.8.5 Trusting all devices

There is a simple way to create a trusting list.

- [1] On the "Main Menu" screen of SmartAP, click "Door Entry System".
- [2] Click "Trust All".
- When new devices are added to the system and the physical address of the device is changed, " ① " will be display to indicate the update.

✓ 6 월 80	s 🕐 🖡		MAIN MENU			
BUILDING STRUCTURE			USER MANAGEMENT			DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
HOME 3 Res SOS	DUTDOOR STATIONS	© TRUST	DOOR ENTRY SYSTEM	ADD DEVICE		LIST VIEW
8	e station #02	o⊶ tion IP actuator	Guard unit Elevato controli		Public area Gate station #01 Gate station #02	>

- [3] Click "Trust All".
- [4] Click "√".



The following operations will be carried out by using the "Trusting All" function.
------------------------------------------------------------------------------------

Device name	Operation
Gate Station	Trust all Indoor Stations and all IP Actuators.
Building Outdoor Station	Trust all Indoor Stations, Building IP Actuators and Private IP Actuators within this building.
2nd confirmed Outdoor Station	Trust all Indoor Stations and Private IP Actuators within this apartment.
Network IP Actuator	Trust all Indoor Stations and all Outdoor Stations.
Building IP Actuator	Trust all Indoor Stations and Building Outdoor Stations within this building.
Private IP Actuator	Trust all Indoor Stations and 2nd confirmed Outdoor Stations within this apartment.
Management software	All Outdoor Stations and IP Actuators trust the management software by default.

Appendix



Contact us

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Approvals and Compliances

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