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System Manual

Busch-Welcome® IP





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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
E	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.

(C)

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 μ 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 μ 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 μ 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	TCP
7777	TCP
8001	TCP
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	TCP
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

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.



*"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- 03	2TMA130010X0027	IP Touch 5 Outdoor Station	Stainless steel	135 x 349 x 29
H81381T- W-03	2TMA130010W0017	IP Touch 5 Outdoor Station	White	135 x 349 x 29

Control elements



Terminal description



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- 03	2TMA130010X0019	OS, IPpush, 1 gang	Stainless steel	135 x 277 x 29
H81381P2-S- 03	2TMA130010X0020	OS, IPpush, 2 gang	Stainless steel	135 x 277 x 29
H81381P3-S- 03	2TMA130010X0021	OS, IPpush, 3 gang	Stainless steel	135 x 277 x 29
H81381P1-W- 03	2TMA130010W0023	OS, IPpush, 1 gang	White	135 x 277 x 29
H81381P2-W- 03	2TMA130010W0027	OS, IPpush, 2 gang	White	135 x 277 x 29
H81381P3-W- 03	2TMA130010W0031	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		
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		

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-03	2TMA130010A0003	Mini video outdoor station, 1 gang, ID, SM	· ·		
H81313P2- A-03	2TMA130010A0006	Mini video outdoor station, 2 gang, ID, SM	Aluminium alloy	99 x 168 x 26	
H81363P1- A-03	2TMA130010A0009	Mini video outdoor station, 1 gang, ID,FM	Aluminium alloy	105 x 180 x 43	
H81363P2- A-03	2TMA130010A0012	Mini video outdoor station, 2 gang, ID, FM	Aluminium alloy	105 x 180 x 43	
H81364P1- A-03	2TMA130010A0015	Mini video outdoor station, 1 gang, FM	Aluminium alloy	99 x 168 x 26	
H81316P1- A-03	2TMA130010A0016	Mini video outdoor station, 1 gang, IC/DESFire, SM	Aluminium alloy	99 x 168 x 26	
H81316P2- A-03	2TMA130010A0017	Mini video outdoor station, 2 gang, IC/DESFire, SM	Aluminium alloy	105 x 180 x 43	
H81366P1- A-03	2TMA130010A0018	Mini video outdoor station, 1 gang, IC/DESFire, FM	Aluminium alloy	105 x 180 x 43	
H81366P2- A-03	2TMA130010A0019	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 × 26 mm (H8131.P) 105 mm x 180 mm × 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.



*"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
H8236-4W- 03	2TMA130050W0066	IP Touch 7, DES+KNX+f@h+APP, LAN+WiFi, T-loop	White	199 x 150 x 17
H8236-4B- 03	2TMA130050B0066	IP Touch 7, DES+KNX+f@h+APP, LAN+WiFi, T-loop	Black	199 x 150 x 17
H8236-5W- 03	2TMA130050W0068	IP Touch 7, DES+KNX+f@h+APP, LAN+LAN, T-loop	White	199 x 150 x 31
H8236-5B- 03	2TMA130050B0068	IP Touch 7, DES+KNX+f@h+APP, LAN+LAN, T-loop	Black	199 x 150 x 31





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	² LAN2
12	² Alarm connector
13	² RS485 connector, 12 V output, emergency port (SOS, GAS, fire)
14	² Relay output

² IP touch 7 (LAN+LAN)

Designation	Value
Rating voltage	24 V
Operating voltage range	20-27 V
¹ Rating current	27 V, 250 mA 24 V, 280 mA
² 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
² Alarm power output	12 V =, 200 mA
² Relay output	30 V, 1 A
¹ 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)
¹ Wireless transmission power	Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G
¹ Wireless transmission standard	IEEE 802.11 a/b/g/n

¹ IP touch 7 (LAN+WiFi) ² IP touch 7 (LAN+LAN)

2.2.3 IP Touch 10

Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
H8237-4W- 03	2TMA130050W0058	IP Touch 10, DES+KNX+f@h+APP, LAN+WiFi, T-loop	White	251 x 185 x 17
H8237-4B- 03	2TMA130050B0058	IP Touch 10, DES+KNX+f@h+APP, LAN+WiFi, T-loop	Black	251 x 185 x 17
H8237-5W- 03	2TMA130050W0060	IP Touch 10, DES+KNX+f@h+APP, LAN+LAN, T-loop	White	251 x 185 x 31
H8237-5B- 03	2TMA130050B0060	IP Touch 10, DES+KNX+f@h+APP, LAN+LAN, T-loop	Black	251 x 185 x 31





Designation	Value
Rating voltage	24 V =
Operating voltage range	20-27 V
¹ Rating current	27 V, 390 mA 24 V, 440 mA
² 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
² Alarm power output	12 V –, 200 mA (12 V output is not available when PoE powered)
² Relay output	30 V, 1 A
¹ 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)
¹ Wireless transmission power	Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G
¹ Wireless transmission standard	IEEE 802.11 a/b/g/n

¹ IP touch 10 (LAN+WiFi) ² 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- 03	2TMA130050W0069	IP Touch Lite 7, DES+APP, LAN+WiFi	White	192 x 128 x 17.2
H8249-1B- 03	2TMA130050B0069	IP Touch Lite 7, DES+APP, LAN+WiFi	Black	192 x 128 x 17.2





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
Wireless 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- 03	2TMA130010W0041	Audio IP, induction loop	White	81 x 198 x 43



No.	Description
5	 Call button 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. The button can be programmed on the SmartAP to Intercom to another unit or call guard unit.
6	 Unlock button *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). 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. * The "Automatic unlock" function means the door will be unlocked automatically during a call request. This function will be disabled automatically after 10 hours.
7	LED (red)
8	LED (blue)
9	 Mute button In standby status, press the button to mute the ringtone. In standby status, hold the button for 3 seconds to mute the ringtone for all the indoor stations in the same apartment. During a call request, press the button to mute the ringtone. During communication, press the button to mute the microphone.
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 device
4	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
D04011-03	2TMA400260W0008	SmartAP Pro	White	204 x 32 x 132



⁽¹⁾ 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
H8303-03	2TMA130160W0022	Guard Unit	White	265 x 165 x 117

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





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
H8304-03	2TMA130160H0061	IP Actuator	Grey	65 x 72 x 90

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

Terminal description



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
H8308-03	2TMA130160W0042	IP Elevator Controller	Grey	65 x 72 x 90
M2307-03	2TMA130160H0091	Lift Control Relay Module	Grey	216 x 45 x 110





Flashing slowly: the device has not obtained the signature

Terminal description - Lift Control Relay Module

	$\begin{array}{c} & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$	
No.	Description	
1	Power supply connector	
2	Elevator control module connector	
3	Relay output Connect to the elevator keyboard	
4	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	
	Product 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-03	2TMA130160B0138	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 ==, 170 mA
Operating temperature	-10 °C+55 °C
Power supply output	12 V, 200 mA
Relay output	24 V ==, 1 A

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
53011PS-03	2TMA130160W0029	Power Adaptor 24VDC		43.8 x 85 x 79

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-03	2TMA130160B0090	A/V Module	-	96 x 143 x 28





- 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 -03	2TMA130160B0091	Touch 5" Module	-	96 x 143 x 23



	2
	3
	4
No.	Description
1	Connector for previous module
1 2	Connector for previous module Connector for A/V module
-	

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-03	2TMA130160N0030	Display Module, ID	-	97 x 72 x 25
51382CR-03	2TMA130160N0029	Display Module, Desfire/IC	-	97 x 72 x 25


Terminal 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-S- 03	2TMA130160X0023	Keypad Module	Stainless steel	97 x 72 x 25
51381K-W- 03	2TMA130010W0018	Keypad Module	White	97 x 72 x 25

Control elements



Terminal description

	$\begin{bmatrix} 1 & 2 & 3 & 4 \\ \hline & & & \\ \hline \end{array} $
No.	Description
1	Program button
2	Connector for previous module
3	Connector for device software update (can only be done at the factory)
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- 03	2TMA130160N0023	Round Pushbutton Module, 1 button	-	97 x 72 x 25
51381RP2- 03	2TMA130160N0024	Round Pushbutton Module, 2 button	-	97 x 72 x 25
51381RP3- 03	2TMA130160N0025	Round Pushbutton Module, 3 button	-	97 x 72 x 25

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51382RP1- 03	2TMA130160N0026	Round Pushbutton Module, 1 button, Desfire/IC	-	97 x 72 x 25
51382RP2- 03	2TMA130160N0027	Round Pushbutton Module, 2 button, Desfire/IC	-	97 x 72 x 25
51382RP3- 03	2TMA130160N0028	Round Pushbutton Module, 3 button, Desfire/IC	-	97 x 72 x 25

Control elements



Terminal description

No.	Description
1	Connector for previous module
2	Connector for next module

3	Program button
4	Connector for device software update
5	² Connector for Wiegand output It supports 26 bits and 34 bits

² 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

¹ 51381RP. ² 51382RP.

2.4.7 Bar Pushbutton Module

Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381SP3- 03	2TMA130160N0021	Bar Pushbutton Module, 3/6 buttons	-	97 x 72 x 25
51381SP4- 03	2TMA130160N0022	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-03	2TMA200160N0038	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

2.5 Installation materials

2.5.1 Video Outdoor Station frame

Overview



Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
41383CF-A- 03	2TMA200160A0003	Video OS frame, size 1/3	Aluminium	135 x 277 x 20.5
41384CF-A- 03	2TMA200160A0005	Video OS frame, size 1/4	Aluminium	135 x 349 x 20.5
41385CF-A- 03	2TMA200160A0007	Video OS frame, size 1/5	Aluminium	135 x 421 x 20.5
41386CF-A- 03	2TMA200160A0009	Video OS frame, size 2/3	Aluminium	235 x 277 x 20.5
41388CF-A- 03	2TMA220161A0010	Video OS frame, size 2/4	Aluminium	235 x 349 x 20.5
413810CF- A-03	2TMA220161A0011	Video OS frame, size 2/5	Aluminium	235 x 421 x 20.5
413812CF- A-03	2TMA220160A0010	Video OS frame, size 3/4	Aluminium	407 x 349 x 20.5
41383CF-B- 03	2TMA220160B1004	Video OS frame, size 1/3	Anthracite	135 x 277 x 20.5
41384CF-B- 03	2TMA220160B1005	Video OS frame, size 1/4	Anthracite	135 x 349 x 20.5
41385CF-B- 03	2TMA220160B1006	Video OS frame, size 1/5	Anthracite	135 x 421 x 20.5
41383CF-S- 03	2TMA130160X0026	Video OS frame, size 1/3	Stainless steel	135 x 277 x 20.5
41384CF-S- 03	2TMA130160X0027	Video OS frame, size 1/4	Stainless steel	135 x 349 x 20.5
41385CF-S- 03	2TMA130160X0028	Video OS frame, size 1/5	Stainless steel	135 x 421 x 20.5
41386CF-S- 03	2TMA130160X0029	Video OS frame, size 2/3	Stainless steel	235 x 277 x 20.5
41383CF- W-03	2TMA130160W0002	Video OS frame, size 1/3	2TMA130 160W001 0	135 x 277 x 20.5
41384CF- W-03	2TMA130160W0003	Video OS frame, size 1/4	2TMA130 160W001 1	135 x 349 x 20.5
41385CF- W-03	2TMA130160W0004	Video OS frame, size 1/5	2TMA130 160W001 2	135 x 421 x 20.5

2.5.2 Surface-mounted box

Overview



Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
42491S-W- 03	2TMA320160W0001	Surface-mounted box for IP Touch Lite 7	White	188 x 123 x 14
42491S-В- 03	2TMA320160B0001	Surface-mounted box for IP Touch Lite 7	Black	188 x 123 x 14
42361S-W- 03	2TMA130160W0021	Surface-mounted box for IP Touch 7	White	197 x 148 x 12.7
42361S-В- 03	2TMA130160B0089	Surface-mounted box for IP Touch 7	Black	197 x 148 x 12.7
42371S-W- 03	2TMA130160W0041	Surface-mounted box for IP Touch 10	White	221 x 251 x 13.5
42371S-В- 03	2TMA130160B0141	Surface-mounted box for IP Touch 10	Black	221 x 251 x 13.5
41381S-В- 03	2TMA130160B0059	Surface-mounted box for OS, size 1/1	Anthracite	133 x 137 x 32
41382S-В- 03	2TMA130160B0060	Surface-mounted box for OS, size 1/2	Anthracite	133 x 203 x 32
41383S-В- 03	2TMA130160B0061	Surface-mounted box for OS, size 1/3	Anthracite	133 x 275 x 32
41384S-В- 03	2TMA130160B0062	Surface-mounted box for OS, size 1/4	Anthracite	133 x 347 x 32
41385S-В- 03	2TMA130160B0063	Surface-mounted box for OS, size 1/5	Anthracite	133 x 419 x 32
41386S-В- 03	2TMA130160B0064	Surface-mounted box for OS, size 2/3	Anthracite	233 x 275 x 32
41381S-H- 03	2TMA130160H0041	Surface-mounted box for OS, size 1/1	Grey	133 x 137 x 32
41382S-H- 03	2TMA130160H0042	Surface-mounted box for OS, size 1/2	Grey	133 x 203 x 32
41383S-H- 03	2TMA130160H0043	Surface-mounted box for OS, size 1/3	Grey	133 x 275 x 32
41384S-H- 03	2TMA130160H0044	Surface-mounted box for OS, size 1/4	Grey	133 x 347 x 32
41385S-H- 03	2TMA130160H0045	Surface-mounted box for OS, size 1/5	Grey	133 x 419 x 32
41386S-H- 03	2TMA130160H0046	Surface-mounted box for OS, size 2/3	Grey	233 x 275 x 32

2.5.3 Flush-mounted box

Overview

No.	Article number		Product name			
1	42491F03		Flush-mounted box	x for IP Touch	Lite 7	
2	42361F03		Flush-mounted box	x for IP Touch	7/10	
3	3 41381F03		Flush-mounted box for OS, size 1/1			
4	41382F03		Flush-mounted box	x for OS, size	1/2	
5 41383F03		Flush-mounted box for OS, size 1/3				
6 41384F03		Flush-mounted box for OS, size 1/4				
6	41384F03		Flush-mounted box	x for OS, size	1/4	
6 7	41384F03 41385F03		Flush-mounted box			

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
42491F-03	2TMA320160B0002	*Flush-mounted box for IP Touch Lite 7	Black	178 x 108 x 52
42361F-03	2TMA130160B0134	*Flush-mounted box for IP Touch 7/10	-	194 x 145 x 55
41381F-B- 03	2TMA130160B0051	Flush-mounted box for OS, size 1/1	Anthracite	133 x 137 x 52
41382F-В- 03	2TMA130160B0052	Flush-mounted box for OS, size 1/2	Anthracite	133 x 203 x 52
41383F-В- 03	2TMA130160B0053	Flush-mounted box for OS, size 1/3	Anthracite	133 x 275 x 52
41384F-В- 03	2TMA130160B0054	Flush-mounted box for OS, size 1/4	Anthracite	133 x 347 x 52
41385F-B- 03	2TMA130160B0055	Flush-mounted box for OS, size 1/5	Anthracite	133 x 419 x 52
41386F-В- 03	2TMA130160B0056	Flush-mounted box for OS, size 2/3	Anthracite	233 x 275 x 52
41381F-H- 03	2TMA130160H0033	Flush-mounted box for OS, size 1/2	Grey	133 x 137 x 52
41382F-H- 03	2TMA130160H0034	Flush-mounted box for OS, size 1/3	Grey	133 x 203 x 52
41383F-H- 03	2TMA130160H0035	Flush-mounted box for OS, size 1/3	Grey	133 x 275 x 52
41384F-H- 03	2TMA130160H0036	Flush-mounted box for OS, size 1/4	Grey	133 x 347 x 52
41385F-H- 03	2TMA130160H0037	Flush-mounted box for OS, size 1/5	Grey	133 x 419 x 52
41386F-H- 03	2TMA130160H0038	Flush-mounted box for OS, size 2/3	Grey	233 x 275 x 52

Device type

 $^{*}\mbox{IP}$ Touch Lite 7, IP Touch 7 & IP Touch 10 integrated the flush-mounted box with the pre-installation box in the package.

2.5.4 Pre-mounting box

Overview



Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
42491F-03	2TMA320160B0002	Pre-installation box for IP Touch Lite 7	Black	178 x 108 x 52
42361F-03	2TMA130160B0134	Pre-installation box for IP Touch 7/10	-	194 x 145 x 55
41381PB-03	2TMA130160B0067	Pre-installation box for OS, size 1/1	-	124 x 133 x 64.5
41382PB-03	2TMA130160B0068	Pre-installation box for OS, size 1/2	-	124 x 199 x 64.5
41383PB-03	2TMA130160B0069	Pre-installation box for OS, size 1/3	-	124 x 271 x 64.5
41384PB-03	2TMA130160B0070	Pre-installation box for OS, size 1/4	-	124 x 343 x 64.5
41385PB-03	2TMA130160B0071	Pre-installation box for OS, size 1/5	-	124 x 415 x 64.5
41386PB-03	2TMA130160B0072	Pre-installation box for OS, size 2/3	-	224 x 271 x 64.5

Device type

 $^{*}\mbox{IP}$ Touch Lite 7, IP Touch 7 & IP Touch 10 integrated the flush-mounted box with the pre-installation box in the package.

2.6 Accessories

2.7 Outdoor Stations

Device type

Article number	Order number	Product name	Colour	Size (WxHxD) Unit: mm
51381EP-A- 03	2TMA200160A0037	End-strip, size 1/x	Stainless steel	135 x 19 x 16
51382EP-A- 03	2TMA200160A0038	End-strip, size 2/x	Stainless steel	235 x 19 x 16
51381MT-03	2TMA130160B0075	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
¹ Single column OS	Flush-mounted installation in solid walls
	Flush-mounted installation in hollow walls
² 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

¹ Single column OS contains IP Touch 5 OS, IP pushbutton OS , IP keypad OS and other Outdoor Stations assembled with customised modules.

² Multiple columns OS contains the Outdoor Stations assembled with customised modules.

3.1.5 Single column OS

Surface-mounted installation with surface-mounted box



Flush-mounted installation in solid walls

1. Without pre-mounted box



2. With pre-mounted 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 with pre-mounted boxes







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

System Manual 2TMD042400D0022

Flush-mounted installation in the hollow wall



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.



- [2] On the "Door Entry System" screen, click " O ".
- [3] Click " \checkmark " to continue.

OME 🚺 🔒	sos 🕦 💂	DOOR	ENTRY SYSTEM		
°2	OUTDOOR STATIONS	TRUST ALL	GROUPING	ADD DEVICE	LIST VIEW
Outdoor stations				ď	Outdoor stations
ublic area	INFORMATIO		ou sure to search devices'	?	
And area		×	¥	3	Public area
	Coutdoor station	O→ III IP actuator Guard			

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

HOME 🚺 🗟 SOS 🕐 🖡	OOOR ENTR	RY SYSTEM		
O OUTDOOR STATIONS	TRUST ALL	GROUPING AD	D DEVICE	LIST VIEW
Outdoor stations			Ø	Outdoor stations
Public area	ION Currently 1 devices h Hide the			Public area
Cuttdoor station Indoor station	C+ Caurd unit	Elevator controller		
OUTDOOR STATIONS	TRUST ALL	GROUPING AD	D DEVICE	LIST VIEW
Outdoor stations				Outdoor stations
Public area				Della suo
Public area				Public area

- [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.

iome 🚺 🗟 sos 🏚 🚦	< DOOR	ENTRY SYSTEM	>		
O OUTDOOR STATIONS	① TRUST ALL	GROUPING	ADD DEVICE	LIST VIEW	
			D	Outdoor stations	
Outdoor stations				Outdoor station 001-01	>
				Outdoor station 001-03	>
Outdoor station Outdoor station Outdoor station 001-01 001-03					
Public area				Public area	
Outdoor station	a c Estation IP actuator Guard				

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						LIST VIEW	
earch	4	DD DEVICE				Video Indoor Station	
touch 7* Building1		Device type	Indoor station		3 -	Indoor station 001-0201-01	
0		Device addr.	1			Indoor station 001-0301-01	
Indoor station 001- 0401-01			2			Indoor station 001-0401-01	
touch 10"			1 4			Indoor station 001-0501-01	
Building1			1			Audio Indoor Station	
Indoor station 001-	D Indoor station 001-	Serial No.	102807A7F030545	5			
0201-01	0301-01 050	Car	ncel	O Sa	we		
	8 5		o- 🗉	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	
Device Type Indoor Station	
× 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 " $\sqrt{}$ ".

✓ 20 P≥ so	os 主 🗎		MAIN MENU			
		Please open yo	bur APP to import the Brick $2 \checkmark$	uilding Structure		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".

act.	SmartAP: SmartAp-0746 5	+ C	SmartAP: SmartAp 192.168.2.152	SmartAP -0746	+ C
	Log in User name Password 6		Notice Upload s	uccessfully ✓ 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.

✓ 3 P₂ sos 1 .	MAIN MENU
	S REACES DAYS USER MANAGEMENT ACTIONS THAT CONTINUES DOOR ENTRY SYSTEM
Design a building by Configure the dr creating floors and the access o rooms system e.g. Cy repeater	ontrol devices Create user groups system devices, e.g. linder, indoor station, outdoor
🛔 jacky	Device configuration
HOME 曶 🖓 SOS 🕦 💂	< PREFERENCES >
	C PREFERENCES
Preferences	Devices Diagnosis
Localization Project backups	System information Version : V6.56 Signature : 34CA2EA50C04C548 IP Mode : DHCP/Static address / IP address : 192.168.1.103 Subnet mask : 255.255.255.0
Firmware updates	> Serial No. All types > All states > Building No. Floor No. Room No. Clear Filters
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 🗲 📋 land Available Outdoor station 001-01 101807A7F06DAF6 HSE07
	C / m Offline Unable to con Indoor station 001-0102-01 10282C9B7871F97
2	C / Offine Unable to con Indoor station 001-0101-02 102807A7F063253
	C Error IP mode of de Building IPA 001-01 104000CDE017FEE HGM51
Misc settings	•

Overview of Devices Diagnosis

HOME	🥹 😼 sos 🛐 🖡	< PREFERENCES >			
		* PREFERENCES			
Preferen	nces	Devices Diagnosis			
Localiza	ation >	System information 1 3			
Project	backups >	Version : V6.56 Signature : 34CA2EA50C04C548			
Firmwa	re updates >	Serial No. All types V All states V Building No. Floor No. Room No. 4 Clear Filter			
Connections & APIs >		ACTIONS Status Reason Device type Physical address Serial No.			
		C 1/2 iii Othine Unable to con Guard unit #01 103807A7F0302D6			
Wi-Fi ad	ccess point mode settings	C / •			
Third pa	arty authority >	C / m Otline Unable to con Indoor station 001-0101-02 102807A7F063253			
Devices	s Diagnosis >	C 🗲 前 🕒 Error IP mode of de Building IPA 001-01 104000CDE017FEE HGM51			
Onvif IF	PC list >				
Misc se	ettings >	*			
No.	Description				
NO.	Description				
1	Software version of	the SmartAP			
2		martAP ne device which is displayed on the "Signature" column is not the same as s SmartAP, "Error" will be displayed.			
3	IP mode of the Sm Click " 🥕 " to char	hartAP Inge the IP mode of the SmartAP.			
4	"Device type", "S	lisplay the designated devices according to the filters (e.g., "Serial no.", States" etc.) ers" to empty the filters.			
	Status of the devic	ces			
	Available= The	device has been added by the SmartAP successfully			
5					
	Error = The device has been detected by the SmartAP but failed to be added				
	Offline = The de	evice has not been detected by the SmartAP.			
6	Other information of	f the devices			
	Actions of the dev	ices			
7	Click " 🥍 " to conf device here.	figure the IP mode and the IP address of the device, you can also re-sign the			
	Click " C " to refre	esh the status of the device.			
	Click " 🛄 " to remo	ove the device from the list.			
	Refresh all				
8		e 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 V	Wizard		
	Select Language Language English	Select Region	2 ~
	✓ Accept license agreement ✓ Accept OSS agreement	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.

⊶‡ P	anel Addressing	×
	Addressing	
	Master Mode 7 ~	
	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".

	IP Addresing				
		IP Address () Building Network 192.168.1.101	10 Edit		
					11 Continue
< 1	P Addresina 아: Edit Building	g Network		×	
< 1				×	
< 1	. edit Building	ferences: 😭		×	
< 1	아남 Edit Building Connection pret	ferences: 💭 WIFI ferences:	Customizable address		
< 1	아금 Edit Building Connection pret 오 LAN Addressing pret	ferences: C WIFI ferences: It) ABB Legacy			
	다음 Edit Building Connection pref • LAN Addressing pref	ferences: 🧭 WIFI ferences: It) ABB Legacy 255.2	mask		
	•+: Edit Building Connection pres • LAN Addressing pres • DHCP(Default IP address 192.168.1.101 Default gateway	ferences: 🧭 WIFI ferences: It) ABB Legacy 255.2	-mask 55.255.0		

[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 mo	de
	(\mathbf{i})	
	Please note	
	In this configuration mode, the pairing up of the devices to the private network is confirmed.	will proceed automatically when the connection
	Recommended set-up:	
	 1 Outdoor Station 1 Master Indoor Station and up to 3 subsidiary Indoor 1 IP Actuator 	Stations 12
		13
		Continue
<	Trusted Devices	
<	Trusted Devices Configuration without SmartAP - Single family home mo	ode
<		
<		^{ode}
<		
<	Configuration without SmartAP - Single family home mo	14
<		14 SINGLE FAMILY
<	Configuration without SmartAP - Single family home mo i	14 SINGLE FAMILY
<	Configuration without SmartAP - Single family home mo i Please note Please connect all devices to the same network and	14
<	Configuration without SmartAP - Single family home mo i Please note Please connect all devices to the same network and	SINGLE FAMILY
<	Configuration without SmartAP - Single family home mo i Please note Please connect all devices to the same network and	Single FAMILY
<	Configuration without SmartAP - Single family home mo i Please note Please connect all devices to the same network and	SINGLE FAMILY
<	Configuration without SmartAP - Single family home mo i Please note Please connect all devices to the same network and	SINGLE FAMILY

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

[17]Tap "Continue".

[18]Tap "Continue".

	Add Trusted Devices			×
\mathcal{C}	4 devices have been added to t	he list :		
Ple	Indoor Station-01	102807A7F06DB7C	v	2
Pl€	Indoor Station-02	102807A7F06DC52	√	
m	2nd OS-01	101807A7F06DAF6 16	✓	
	Private IP Actuator-01	104000CDE017FEE	✓	٩
		1	7 Continue	
			Continue	
			Do it later	Continu
Truste	d Devices			
	ation without SmartAP - Sing	gle family home mode		
comgan				
\bigcirc				
Ċ	selected devices			
		d devices will be added to the Syste	·m.	
By clickin Further "	ng on "Continue", the selecter Trust" authentication will all	ow the Indoor Station panels in the	system to grant tl	ne Outdoor
By clickin Further "	ng on "Continue", the selecter Trust" authentication will all		system to grant tl	ne Outdoor
By clickin Further "	ng on "Continue", the selecter Trust" authentication will all	ow the Indoor Station panels in the	system to grant tl	ne Outdoor
By clickin Further "	ng on "Continue", the selecter Trust" authentication will all	ow the Indoor Station panels in the	system to grant tl	ne Outdoor
By clickin Further "	ng on "Continue", the selecter Trust" authentication will all	ow the Indoor Station panels in the	system to grant tl	ne Outdoor

[19]Tap "Trust all".

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

[21]Tap "Continue".

Cc 🖉	Trust Devices	×
(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
		Contin
Truste	d Devices	Contin
	ed Devices Trusting Process Successful	Contin
	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 📀 (Tr	Trusting Process Successful Devices trusted! The following devices have been successfully added to your Trusted Devices list :	
Cc <table-cell></table-cell>	Trusting Process Successful Devices trusted! The following devices have been successfully added to your Trusted Devices list : Indoor Station-01 Indoor Station-02 20	×
Cc <table-cell></table-cell>	Trusting Process Successful Devices trusted! The following devices have been successfully added to your Trusted Devices list : Indoor Station-01 Indoor Station-02 20	×



[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

[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.

[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".

< 1	P Addresing				
		IP Address(Ð		
		Building Network 192.168.1.101	5 Edit		
					6
					Continue
< 1	P Addresina d: Edit Buildi	ng Network			×
< 1	⊶¦ঃ Edit Buildi	preferences:			×
< 1	⊶╬ Edit Buildi	oreferences: <i>C</i> WIFI			×
	마음 Edit Build	oreferences: C WIFI	gacy Oustomizable address		×
< 1	마음 Edit Build	oreferences: $igcar{}$ WIFI oreferences: fault) ABB Le	gacy Customizable address Subnet mask 255.255.255.0		×
< 1	• # Edit Buildi Connection p • LAN Addressing p • DHCP(De	oreferences: $igcar{}$ WIFI oreferences: fault) ABB Le	Subnet mask		×
< 1	•‡ Edit Buildi Connection p • (a) LAN Addressing p • (b) DHCP(Deeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	oreferences: $igcar{}$ WIFI oreferences: fault) ABB Le	Subnet mask 255.255.255.0 DNS	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 ි ධ ්ා
ქූ) Sound	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES
🕤 Network Connections	Addressing
^စ ္က Time & Date	Master Mode Private Network Port Master mode WIFI
∞⊙ Access Management	
႔ User Settings	Set physical address
。」 Video Surveillance	Enable trusted devices function 6
0, Intercom List	·
Program Button	Physical Address Physical Address
ည်သို့ Advanced Settings	001-0101-01
🎵 Software Update	IP Address
(i) About	Building Network 10.0.65.0 192.168.100.224
× Settings	11:43 Fri 05-01-2024 야물 💭 숙》
ද්)» Sound	
	panel actuators outdoor stations trusted devices 2
ද්)» Sound	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2
ද්)》Sound ි Network Connections	panel actuators outdoor stations trusted devices 2
ද්) Sound ි Network Connections ම _ස Time & Date	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2
다) Sound 중 Network Connections 안 _[1] Time & Date ····································	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2 Trusted Devices Device Details: Indoor Station-01 Indoor Station-02 Device Number
 「シ Sound シ Network Connections シ Time & Date シ Access Management 人 User Settings 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2 Trusted Devices Indoor Station-01 Indoor Station-02 Device Number 01 Serial Number 01
 、Sound Network Connections Time & Date Access Management	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2 Trusted Devices Indoor Station-01 Indoor Station-02 Device Number 01 Serial Number 01
 Sound	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2 Trusted Devices Indoor Station-01 Indoor Station-02 Device Number 01 Serial Number 102807A7F06DB7C
↓ Sound ☆ Network Connections Time & Date Access Management Access Management ↓	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES 2 Trusted Devices Device Details: Device Details: Device Name Indoor Station-01 Indoor Station Device Name Device Name Indoor Station-02 Device Name Device Name Device Name Output Device Name Device Name Device Name Indoor Station-02 Device Name Device Name Device Name Automatic search Automatic search Automatic search Automatic search

- [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 - 누음 ()
 C) Sound C Add Trusted De C Trusted De 	evices X
^O _{III} Time & I	
2nd OS-01	101807A7F06DAF6
Program	
💭 Softwar	
(i) About	
X Settings ⊲)) Sound	11:44 Fri 05-01-2024 약 💭 <
🙃 Network Connections	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES
එ _{සු} Time & Date	Trusted Devices Device Details:
∝⊙ Access Management	Indoor Station-01
္လ User Settings	Indoor Station-02 Device Number 01 01 01 01 01 01 01 01 01 01 01 01 01
ی Video Surveillance (ل Intercom List	Private IP Actuator-01
Program Button	Trust all devices T
දරිූා Advanced Settings	
 Software Update (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	v# ↓ ↓»
பூ) Sound		
🚡 Network 🕼 Trust o	device	×
^စ ္က Time & I		
Contraction	g all devices	
्रि User Set By clickin	ng on the Trust Button, the all devices will be trusted.	
This auth	nentication will allow the Indoor Station panels in the system to grant the Station devices and IP Actuator devices the authorisation to unlock the c	e door.
	8	
Untercor	Trust All	
Program		
٤ౘ౫ Advance		
${igcarrow}$ Softwar		
(j) About		
imes Settings	11:45 Fri 05-01-2024	ht い し 、 し し し し し し し し し し し し し
ද්) Sound	PANEL ACTUATORS OUTDOOR STATIONS TR	
$\widehat{\mathfrak{s}}$ Network Connections		
⁰ ்த Time & Date	Trusted Devices	Device Details:
∝⊙ Access Management	Indoor Station-01	Device Name Indoor Station
्री User Settings	Indoor Station-02 9	Device Number 01
🕁 Video Surveillance	2nd OS-01 🖉 10	Serial Number 102807A7F06DB7C
.Q. Intercom List	Private IP Actuator-01	
Program Button	Tours all factors	
Program Button (於 Advanced Settings	Trust all devices	
	Trust all devices	

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	+# ↓ <>
Display	PANEL ACTUATORS OUTDOOR STATIONS	TRUSTED DEVICES
ද්) Sound		
🙃 Network Connections	Trusted Devices	Device Details:
စိ _ဤ Time & Date	Indoor Station-01	Indoor Station
∝⊙ Access Management	Indoor Station-02	Device Number 01
, User Settings	Private IP Actuator-01 🕢	Serial Number 102807A7F06DB7C
🕁 Video Surveillance	Trust all devices	
0 Intercom List	Automatic search	
Program Button	Entry manually 2	
ည္လို Advanced Settings	- + 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 08-01-2024	r# Û ⊄»
 Display Ø 	Nanually add Trusted Devices	×
් Sound		
ି୍ତି Networł	Device Type 3 · Device 4	
⁰ ဤ Time & [Serial Number 101807A7F06DAF6	
⊶⊙ Access N		
人 User Set		
🦽 Video S၊ 		
Untercor	Cancel Save & C	
Program	Cancel Save & C	
က္လွ်ို Advanceu ၁၈၀၈	цуз	
📿 Software Upda	te	

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

× Settings	14:27 Mon 08-01-2024	<u> 発 </u> ()
	PANEL ACTUATORS OUTDOOR STATIONS	TRUSTED DEVICES
ද්)» Sound		
🙃 Network Connections	Trusted Devices	Device Details:
ൗ _{ണ്ണ} 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 🛛 🕢	
 U, Intercom List	Trust all devices	
Program Button		
රෝ Advanced Settings	-	
 Software Update		
X Settings	14:39 Mon 08-01-2024	# _ <>
 Display Trust device 	1	×
Sound		
Solution		
Trusting all devic	25 st Button, the all devices will be trusted.	
access ↑ This authentication w	ill allow the Indoor Station panels in the system to grar es and IP Actuator devices the authorisation to unlock	ht the
المعنان	9	
ین Video Su	Trust All Cancel	
Q Intercor		
Program		
ည် Advanceu ၁၈၀၀၀၀		
 Software Update		

[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	+# ↓ <>
O Display	PANEL ACTUATORS OUTDOOR STATIONS	
ქූ Sound		
🕤 Network Connections	Trusted Devices	Device Details:
စ _ဤ Time & Date		Indoor Station
ا من	Indoor Station-02	Device Number 01
 ,	2nd OS-01	Serial Number 102807A7F06DB7C
していていていていていていていていていていていていていていていていていていてい	Private IP Actuator-01 🛛 📿	
0 Intercom List	Trust all devices	
Program Button		
က္လြို Advanced Settings	j 🤨	
\sub 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.

X Settings	08:38 Wed 01-11-2023	ê (t 4)
Display	PANEL ACTUATORS OUTDOOR STATIONS	
් Sound		
🕤 Network Connections	Trusted Devices Indoor Station-01	Device Details:
 စ _{္က} Time & Date	Indoor Station-02	2° Outdoor Stat.
\multimap Access Management		01
 رکل User Settings	²⁵⁻⁰¹ 2	Serial Number 101807A7F0296C0
🚽 Video Surveillance	Trust all devices	
 ل اntercom List		
Program Button		
နုတ္တိနဲ့ Advanced Settings	· •	

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 ⅔ s	os 🗊 🗜		MAIN MENU			
	RF WIRELESS CONNECTION	PLACE + LINK	USER MANAGEMENT	ASTEMS	Ö IME CONTROL	
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 1 Pa SO	s 👔 🖡	<	DOOR ENTRY SYSTEM	>		
0	OUTDOOR STATIONS	① TRUS	TALL GROUPING			IST VIEW
Outdoor stations					Outdoor station 001-	01 >
B	•				Outdoor station 001-	03 >
Outdoor station C 001-01	utdoor station 001-03					
Public area					Public area	
	E Indoor station	o ب ation IP actuator	Guard unit Elevat		F ULING ditiga	

- [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 " ^C " to refresh the screen.

[18]The group is displayed on the screen.

[19]Manage the group.

- Click " *** " to edit the group.
- Click " is 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 " \checkmark ".
- [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 " I to remove the forwarding setting.

HOME 1	Call Forwarding (In	door station 001-0101-	01)				×	٢
	Enable Call	Forwarding	EDIT			_		
	No.	Forwarding Ty					Action	
			Forwarding type	Direct Forwarding	4	v		>
			Forwarding target	Indoor station 001-	0201-01	Select 5		>
			Time setting	Specified time slot	6	~		>
			Start	09	✓ : 00	~		
			End	17	✓ ¹ 00	~		
				Monday	Tuesday	Wednesday		>
			Week	Thursday	Friday	Saturday		>
				Sunday	Weekday	Weekend		
			×		×			>
								>

НОМЕ	Call Forward	ling (Indoc	or station 001-010	1-01)			×	1
	🗹 Enab	ole Call For	warding	Add				
	No.		Forwarding T	уре	Forwarding Target	Time setting	Action	
	1	8	Direct Forward	ding	Indoor station 001-0201-01	09:00~17:00 Mo,Tu,We,Th,Fr	v 🖌 🔟	>
							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	
	Guard unit #02	LIST VIEW
		103807A7F0296B6
		Version
		HGM53_GU_Main_V1.57_20240829_PP_IMX6SOL
		Additional settings
		Alias >
		Call forwarding
	-	Multiple GU settings
and the second sec		IP address >
amp		Local firmware update
	P	Online firmware update >
	Settings	× ✓ Save
HOME Call Forwarding (Guard unit #02)	Add Forwarding Target	Time setting Action IMMOSSION Immossion Immossion

- [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 " \checkmark ".
- [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 " I to remove the forwarding setting.

номе	Call Forwarding (Gua	rd unit #01)						×
	Enable Call Fo	rwarding	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 Forwarding (Guard unit #01)				×
	✓ Enable Ca	Il Forwarding 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 9	,IMX68SOL > > > > >

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.

Cutdoor station

Indoor station

o--IP actuator

- [5] Click "Save".
- [6] Click " \checkmark ".
- [7] Go back to "Guard Unit" screen, click Guard Unit 1.

HOME 🚺 🙊 SOS 🕐 📕 🖨	DOOR ENTRY SYSTEM		
Ξ.	Guard unit #02		LIST VIEW
	RMATION Configuration success		Multiple GU settings Link to GU1 (Master) "I checked, when GU1 is called, this device will be called simultaneously.
HOME 🚺 🖓 sos 🕥 🖡	Settings		 ★ 5 ✓ save
	TRUST ALL GROUPING	ADD DEVICE	LIST VIEW
			Guard unit
Guard unit #01 Guard unit #02			Guard unit #01
7			

Elevator controller

💷 Guard unit

- [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	No, Single Family 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	Ç	\Box
O Display	FIRMWARE UPDATE			
ද්) Sound	Э			
Network Connections	Software Version: HGI17-U2_Main_V3.00_20240521_MP_IMX6SOLO Z			
^စ ္က Time & Date	MCU Version: HGI17_MCU_V2.03_20220211_PP_IMX6			
	Update from internet:			
人 User Settings	🗘 Check for update 4			
。	Check and download automatically			
↓ Intercom List				
Program Button	Update from SD card:			
හිටු Advanced Settings	Read SD card			
💭 Software Update				
(i) About	Reboot this panel:			
				_

imes Settings	09:41 Tue 28-05-2024 µ □	~	÷	ί ζ	⊲ »
 Display 	FIRMWARE UPDATE				
් Sound	Software Update	×			
	Online				
© _∭ Time & Date	_				
← Access Manageme					
入 User Settings	¢				
🕁 Video Surveillance	Release note : 0 this is a release note for V3.00_20240527 AT				
🔱 Intercom List					
Program Button					
(፬3 Advanced Settings	7				
💭 Software Update	L Download				
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	đ	Ţ,	⊲ »
	FIRMWARE UPDATE				
口》 Sound	⊖ Software Update	×			
Cloud Connections	Installing				
ම _ස Time & Date					
- Access Manageme	🗘 Download				
尺 User Settings	installing 8				
🕁 Video Surveillance	Reboot				
Intercom List					
Program Button					
හිරි Advanced Settings					
💭 Software Update					
i About					
	(C Reboot panel)		`		
					2011-04-0
≡ Dashboard-Fraya	09:45 Tue 28-05-2024 👔 28,6°C	×	Ð	Ц.	¢≫
÷ờĩ		2	7/48		()
	${\cal G}$ Software Update	×			
All - 55	Licence agreement End User-agreement		Q	°C	
All off Lights	END-USER LICENSE AGREEMENT	1	္ဗာ Bf		
Welcome Control	IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal		Inlock		
	agreement between YOU (either an individual or a single entity) and ABB Xiamen Smart Technology Co., Ltd. ("COMPANY") for the "SOFTWARE PRODUCT(s)". SOFTWARE				
H	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			1	
DI	thereof, and associated software components, media, printed materials, and "online" or electronic documentation installed on a Designated Hardware distributed to YOU.		Ľ	<u> </u>	
	"Designated Hardware" means the hardware supplied by COMPANY with which the SOFTWARE PRODUCT(s) is designed to operate.				
	By using the SOFTWARE PRODUCT(s), YOU AGREE TO BE BOUND BY THE TERMS OF		Inlock		
	9 Accept license agreement			_	
				+- †	

 Dashboard
 02:11 Sat 01-12-2018 () 28.1°C
 Image: Constraint of the state of

[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.

✓ 1 Home	∧ Home	< Firmware upgrade
"jacky" iPhone, No events	Settings	Welcome-IP 3
	Pair Devices	.
	Account name and license information	Welcome >
	Notifications and Sounds	IP Camera >
\wedge	Configuration mode	SmartAP >
	Firmware upgrade 2	
"jacky" iPhone	About >	
	Log out >	
Events 🔨		
🔺 🖶 🍰 🗊		

- [4] Find the designated 2nd OS or IP Actuator, tap " .
- Tap " ito view details about the new version.

[5] Tap "OK".

 2ndOS01-dghj Version:1.12	Upgrade All 4	Firmware upgrade Up IPA05-test Version:1.03	grade All
IS01-dghj Version:1.40	i	IS01-test Version:1.13 IPA01-te Hint Version:9 IS01-test(Ver 99.99) Do you want to upgrade?	
		 Accept EULA License Agreement ★ ✓ ok 5 	1

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	С р	
Oisplay	FIRMWARE UPDATE		
口》 Sound	Software Version: HGI17-U2_Main_V3.00_20240521_MP_IMX65OLO2		
ି ତି Network Connections	Software Version: HGI17-U2_Main_V3.00_20240521_MP_IMX65OLO 🚄		
^စ ြူ Time & Date			
ー Access Management	Update from internet:		
人 User Settings	C Check for update		
。	Check and download automatically		
↓ Intercom List			
Program Button	Update from SD card:		
හිරි Advanced Settings	Read SD card		
(i) About	Reboot this panel:		
	C Reboot panel		
X Settings	01:55 Sat 01-12-2018 🁔 27.2°C	Ļ	
Display	FIRMWARE UPDATE		
 Display 것) Sound 것 Softwar 			
ー 「」、Sound			
 <1) Sound ○ Cloud Connections ○ SD Card ○ Time & Date 	e Update X		
다 Sound Connections SD Card 아 Time & Date Install fi			
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 <1) Sound ○ Cloud Connections Softwar SD Card ⁰□ Time & Date Install fi ○ Access Manageme U2_V3.0 	e Update ×		
বৃঁ) Sound ি Cloud Connections পি Time & Date অ Access Manageme २, User Settings	e Update × rmware version"ENC_HG117- 0_20240527_MP_IMX6SOLO_AT_factory_filesystem_usr.img"? 4		
 <1 >>> Sound Cloud Connections SD Card © Cloud Connections SD Card SD Card SD Card Install fi U2_V3.0 , User Settings Video Surveillance 	e Update × rmware version"ENC_HG117- 0_20240527_MP_IMX6SOLO_AT_factory_filesystem_usr.img"? 4		
 ↓ Sound Cloud Connections Cloud Connections Time & Date Time & Date Access Manageme Q_ User Settings ↓ Video Surveillance Instance Intercom List 	e Update × rmware version"ENC_HG117- 0_20240527_MP_IMX6SOLO_AT_factory_filesystem_usr.img"? 4		
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 ↓ Sound Cloud Connections SD Card Time & Date Time & Date Access Manageme User Settings ↓ Video Surveillance Install fi U2_V3.0 Intercom List Program Button Advanced Settings 	e Update × rmware version"ENC_HG117- 0_20240527_MP_IMX6SOLO_AT_factory_filesystem_usr.img"? 4		
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♥) Sound ♥ Softwar ♥ Cloud Connections SD Card ♥ Time & Date Install fi ♥ Access Manageme U2_V3.0 ♥ User Settings ♥ ♥ Video Surveillance ♥ ♥ Intercom List ■ ■ Program Button ♥ ♥ Software Update ●	e Update × rmware version"ENC_HG117- 0_20240527_MP_IMX6SOLO_AT_factory_filesystem_usr.img"? 4		

[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	Ļ	⊲ »
Oisplay	FIRMWARE UPDATE			
다 Sound (J) Sound (J) Upgrade.				
© Cloud Connections				
⁰ ⊞ Time & Date				
←⊙ Access Manageme				
人 User Settings	💭 Loading 🎖			
。む Video Surveillance				
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(i) About				
	···· · · · · · · · · · · · · · · · · ·	~	Ţ,	-43
Dashboard	02:11 Sat 01-12-2018 (£) 28.1*C		Ļ	
C Software	I Update n successful!	×		
1 event		음 Bft		
Events	Installation successful! 9			
Indoor Station 0		Inlock2		
(ż)] י	
	10			
	× Close window			
±©; /				

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".

× Settings			01:15 Sat 01-12-2018 👔] 27.8°C	Ċ,	
Display	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES		
口》 Sound		Buttons Se	t-up			
Cloud Connections		Columns of Butt	ons	Y Push button settings		
©∭ Time & Date		Sync Time Sync with S	martAP	× .		
🗝 Access Management						
्रि User Settings		Device Vers Mainboard				
🦽 Video Surveillance		MCU :				
Untercom List		NFC :				
Program Button		Serial Num Signature :				
없 Advanced Settings						
${\cal G}$ Software Update		ок				
(i) About		Update fr	om SD card:			
			ead SD card			

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	() Information X			
© Cloud Connections	Update from SD card:			
© _∭ Time & Date				
	Select Device Select Device 2nd 05-01 2			
्री User Settings	File nameIC_V1.13_20240326_PP_N32926_factory.img			
🕁 Video Surveillance				
Program Button				
්රී Advanced Settings				
💭 Software Update	4			
	Cancel Save & Close			
	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		С р	
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
다) Sound 💭 Loading				
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စ်္ကာ Time & Date				
Access Manageme	5			
人 User Settings) [] Loading			
😸 Video Surveillance				
0 Intercom List				
Program Button				
ល: Advanced Settings				
💭 Software Update				
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	Read SD card			
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	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	~ ×	¢	¢»
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Image: Second	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES trion DR STATIONS cccess! 6	×	¢.	<
 Display Sound Informa Cloud Connections Informa OUTDOC Time & Date Access Manageme Access Manageme User Settings Video Surveillance Intercom List Program Button Advanced Settings Software Update 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	5	⊲»

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.

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BUILDING STRUCTURE	INF INF INF INF INF INF INF INF	want to install it Software versio Updates: New Features: • Welcome IP • Group Call: In	Supervise and	ombined into call	E CONTROL Create time control	
	system e.g. Cylinder, repeater					
🛔 Imyä.					Device configure	tion 🔅 Preferences
✓ 🔕 🗟 so	os 🕐 🖡		MAIN MENU			
BUILDING STRUCTURE	RF WIRELESS CONNECTION	ORMATION 3	DOWNLOAD	*		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
🔓 fraya					Device configura	tion 🏠 Preferences

- [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.

Online furmer update Outrent version Outrent version BUILDING STRUCTURE FF WRELE CONNECT FF WRELE	 ✓ ① Pas SOS ① 	1 A			MAIN M	ENU		
CONNECT Design a building by Configure the 4 creating floors and the access system ext ime control Configurate door entry system devices, e.g. indoor station, outdoor		•-•	Device ID Guard unit #01	Current ver		1.33	Ð	—
Design a building by creating floors and rooms Configurate the access system e.g. 2 room time control system devices, e.g. indoor station, outdoor Onfigurate door entry system devices, e.g. indoor station, outdoor	BUILDING STRUCTURE						ON THOL	DOUH ENTHY SYSTEM
	creating floors and	the access system e.g. (2 rows	ate all		Ask me next time		system devices, e.g. indoor station, outdoor

6.5 Updating the firmware - SmartAP without internet

6.5.1 Updating the firmware of SmartAP locally

Please follow the steps below:

- [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 "√".

HOME 🚳 🗟 SOS 💽	PREFERENCES >
	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	5 ·
Connections & APIs	>
Service	
Wi-Fi access point mode settings	
Third party authority	>
Devices Diagnosis	s 🔶
HOME 🚳 🗟 SOS 👚 🖠	PREFERENCES >
Preferences	Firmware updates
System information	FIRMWARE UPDATES
Network settings	Here you specify whether the Smart Access Point is to download new undates automatically. Or you INFORMATION
Localization	Transmit firmware to device
Project backups	
Firmware updates	C:\takepathiHGM52-CS-SmartAP_MAIN Browser
Connections & APIs	× 4 √
Service	,
Wi-Fi access point mode settings	•
Third party authority	>

4

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

HOME 🔕 🖻 sos 🏟 🛔	2	PREFERENCES
	INF	Horse sets receive the transition of the Smith Access Don't is to receive the transition of the antiport tells. Occess ORMATION
		INFORMATION
		× ✓
		*
HOME 鬕 😼 SOS 🕥 🛛		< 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	>	
Service	>	
Wi-Fi access point mode settings	>	Install firmware
Third party authority	>	
Devices Diagnosis	>	♠

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





Home 🚳 🗟 sos 🕅 📕		PREFERENCES >	
		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 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	,	•	

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 💽 🗜	C 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	>
		Local firmware update	>
	ARE	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 🔷			
ā	2nd-OS 001-0101-01				LIST VIEW	
	_	_		Device type		
	Firmware update					
	Device ID Update progress Device update status			Physical address		
	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				
4				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.

CUTDOOR 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	>
تعنی Settings Bulletin		
GIT OUTDOOR STATIONS (2 devices)	LIST VIEW	
OUTDOOR STATIONS (2 devices)	LIST VIEW	
	Local firmware update Firmware update file	
	Local firmware update Firmware update file 5	
	Local firmware update Firmware update file	
	Local firmware update Firmware update file 5 Browser	
Welcome Sunset Boulovard 120	Local firmware update file Firmware update file Firmware signature file 6	
Welcome Sunset Boulevard 120	Local firmware update file Firmware update file Firmware signature file 6	

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=2TMD042400D0019&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	ERENCES
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 third 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://developer.eu.mybaldings.abb.com</u> Support requests for the APIS acon only be made via the developer contal, and we would like to point out that we do not provide
ocalization	>	API Access	>	Sopport requests or the Arres can only be made via the developer porta, and we would see to port out that we do not provid 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
Tirmware 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 TLS UDP TCP Transport protocol 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 🕥 📜 < USER MANAGEMENT >	
admin585	E LIST VIEW
	admin585 🔟
	User role: Admin
A	API access
	C Enable
	Device sharing
	Email address
Users groups ID authentication(1) Pairing devices Cylinder IP camera	Invitation code :
	Invite
8	User information
Outdoor station	Personal data
	Change password >
	User permission settings
	Users groups >
	ID authentication(1)
please set user permission under each category	
please set user permission under each category	
HOME Sos Please set user permission under each category USER MANAGEMENT >	
HOME I Sos I A GUISER MANAGEMENT >	E LIST VIEW admin585 User role: Admin
	E LIST VIEW admin585
HOME	E LIST VIEW admin585 User role: Admin
HOME INFORMATION	E LIST VIEW admin585 User role: Admin API access Enable Device sharing Device sharing
HOME	ELUST VIEW admin585 User role: Admin API access Enable Disable
HOME INFORMATION	E LIST VIEW admin585 User role: Admin API access Enable Device sharing Device sharing
HOME	E LIST VIEW admin585 User rele: Admin API access Enable Device sharing mail address
HOME	Enable Device situating multiadoress witation code :
HOME O Ros SOS O A SOS A	Enable Disobe Disores sharing Imitiation code : Invite
HOME Image: Sold Sold Sold Sold Sold Sold Sold Sold	E LIST VIEW admin585 User rele: Admin API access Enable Disobe Device sitating mail address witation code : Invite User information
HOME Image: Sold Sold Sold Sold Sold Sold Sold Sold	ELIST VIEW admin585 User role: Admin API access Enable Device sharing Enable E
HOME Sos So	ELIST VIEW admin585 User role: Admin API access Enable O Disable Device situring mill address witation code : Invite User rintermation Personal data
HOME Sos So	ELUST VIEW admin585 User role: Admin API access Enable O Disable Device situring mill address witation code : Invite User rintermation Personal data Change password User permission settings

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

me 🔞 😼 sos 👔 🚦	< USER MANAGEMENT >	
		E LIST VIEW
		Users
	Adduser	admin585
lsers		main
admin585 Marin 4		
Cloud API Users		Cloud API Users
		clouduser
Fiendlyname		
	* ***	
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.

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	<	PREFERI
			🔅 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	<i></i>		
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.

System Manual 2TMD042400D0022

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 Localization	> > >	MyBuildings connection Local API & SIP Configuration API Access	> > >	Cenable local API and SIP connections 2 The boal 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, you to monitor and control all your Welcome IP devices, as well as third party IP enabled devices available on the local endewsk, within the Welcome IP agetors. The documentation for the local API is available in the ABB Developer Portal: <u>https://developer.org/up.monitors.com/up.monitors.c</u>
Project backups	>	Create and manage SIP accounts	>	following terms of use. Download certificate for encrypted SIP / MQTT connection 5
Firmware updates	>	License	>	SIP server settings SIP server Enable SIP server Enable TLS for more secure SIP communication. The required conflicate for the clients can be downloaded at the top of this page.
Service	>			Communication TLS UDP TCP 4 Transport protocol SRTP RTP 6
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.
Onvif IPC list	,	4		× 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	EFER	ENCES >			
Preferences		Connections & APIs		Create and manage SIP accounts			
System information	>	MyBuildings connection	>	2	+		
Network settings	>	Local API & SIP Configuration	>				
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".

		🛟 PB					
		**''					
Preferences	Add SIP account		- Overland ware C	:	×		
System information	>			2			
	Device type	Indoor station		<u> </u>			
Network settings	> Alias	6					
Localization	>				SIP ID \$	Password	Settings
	Device addr.	Block No.:					
Project backups	`	Floor No.: 4					
Firmware updates	>						
		Room No.:					
Connections & APIs	SIP ID	5					
Service	>						
	Password						
Wi-Fi access point mode settings	`		Ŏ				
Third party authority	Can	cel	Save				
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.

			PREFE						
Preferences		Connections & APIs		Create and manage SII	P accounts				
System information	>	MyBuildings connection	>			+		2	
Network settings	>	Local API & SIP Configuration	>						
Localization	>	API Access	>	Туре 🗢	Alias 🗘	S	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	>								
	>	< PF	REFERE				•		
Onvif IPC list	>	< PF					•		
HOME 🟮 😪 SOS 🏦 🛔	>	< PF	REFERE PREFE	RENCES	P accounts		*		
HOME 0 Ra SOS 1	>	< PF			P accounts		•		
HOME 🙆 😪 SOS 🏦 🛔 Preferences System information	>	Connections & APIs MyBuildings connection	PREFE	RENCES	P accounts	(+)	•)	
HOME Reverse Sos Reverse System information Network settings	>	Connections & APIs MyBuildings connection Local API & SIP Configuration	PREFE	RENCES	P accounts Alias \$		► JP ID ÷	Password	Settings
HOME References System information Network settings Localization	> 	Connections & APIs Connection Local API & SIP Configuration Generate SIP accounts for the building	PREFE	RENCES Create and manage SI				Password	Settings
HOME	> 2 3 3 3 3 3	Connections & APIs MyBuildings connection Local API & SIP Configuration Generate SIP accounts for the building Create SIP accounts for all units?	PREFE	RENCES Create and manage SI				Password	Settings
HOME	> 	Connections & APIs Connections & APIs MyBuildings connection Local API & SIP Configuration Create SIP accounts for the building Create SIP accounts for all units? @ Keep existing accounts 3	PREFE	RENCES Create and manage Sti				Password	Settings
HOME	> 2 3 3 3 3 3	Connections & APIs MyBuildings connection Local API & SIP Configuration Generate SIP accounts for the building Create SIP accounts for all units?	PREFE	RENCES Create and manage SI				Password	Sottings
HOME	> > > > > > > >	Connections & APIs Connections & APIs MyBuildings connection Local API & SIP Configuration Create SIP accounts for the building Create SIP accounts for all units? @ Keep existing accounts 3	PREFE	RENCES Create and manage Sti				Password	Settings
HOME O Ra SOS ()		Connections & APIs Connections & APIs MyBuildings connection Local API & SIP Configuration Create SIP accounts for the building Create SIP accounts for all units? @ Keep existing accounts 3	PREFE	RENCES Create and manage Sti				Password	Settings
HOME		Connections & APIs Connections & APIs MyBuildings connection Local API & SIP Configuration Create SIP accounts for the building Create SIP accounts for all units? @ Keep existing accounts 3	PREFE	RENCES Create and manage Sti				Paseword	Settings
HOME Image: Solar So		Connections & APIs Connections & APIs MyBuildings connection Local API & SIP Configuration Create SIP accounts for the building Create SIP accounts for all units? @ Keep existing accounts 3	PREFE	RENCES Create and manage Sti				Password	Sottings

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 1
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	3 6
Import Trusted Certifica	ates 7
Load Trusted Certificate	es File No selected file Browse
	Upload Cancel
[Confirm
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 🕥 🕽	
Cutdoor station 008-01	LIST VIEW
	Advanced settings
	Advanced settings
Welcome	User name 00801
No welcome message.	Password (
	SIP server 3
	IP address 10.0.0.1
	Port 5060
	SIP protocol
	⊖ sRTP ● RTP

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 $2 \rightarrow$
		SIP client settings >
	_	Time synchronization >
		Lift control >
	ttings Bulletin Name list	Language >
← C A Not secure H##ps://192.168.0.33/# HOME 0 P₂ SOS ①	< DOOR ENTRY SYSTEM >	* ☆ ● 3 田 な ● % ● **
□ ==	Outdoor station 002-01	LIST VIEW
		Message type
		 RTP(RFC-2833)
		 SIP INFO(RFC-2976)
	Welcome	Value
	No welcome message.	1 3 ~
	ttings Bulletin Name list	A ✓ Save

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 👚 🖡 🏠 🤇 DOOR ENTRY SYSTEM 🔿	
Outdoor station 008-01	LIST VIEW
INFORMATION	Name list Import name list entries Copy name list to other OS Remove all entries Name list entries Search by name list
It will delete all namelist. Continue?	0
Cancel Continu + Add item + Add item Settings Bulletin Name list	e 3 0080202,0080202 >>
HOME 🧒 😼 SOS 🕐 💂 🕎 < DOOR ENTRY SYSTEM	
Cutdoor station 008-01 Insection runne list. Prease add ar import name list entry. + Add item Extension Extension Extension Extension Extension Extension Extension Extension	LIST VIEW Name list Import name list entries Name list entries Inexistent names.

- [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.

Diagonal LIST VIEW Please select a rooms	
Image: Second secon	S
Image: Second and the secon	
Inexistent names.	
Cancel 6 Import	
HOME 🔞 😼 SOS 🕦 🖡 存 < DOOR ENTRY SYSTEM >	
Outdoor station 008-01 LIST VIEW	
Name list	
Import name list entries	s
Copy name list to other C	DS
0 Remove all entries	DS
0 Remove all entries Name list entries	DS
0 #01 0080202,008 Floor 02 Name list entries Search by name list	DS
0 #01 0050202,008 #01 Ploor 02 Remove all entries Search by name list 0	
0 #01 0080202.008 Floor 02 Remove all entries Search by name list 0 0080202.008.020	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
0 Remove all entries 0080202.008 Floor 02 + Add item 0	
0 A01 0080202,008 Floor 02 Ploor 02 Remove all entries Search by name list 0 0080202,008.020 7	
0 Remove all entries 0080202.008 Floor 02 + Add item 0	
0 Remove all entries 0080202.008 Floor 02 + Add item 0	

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.

Privacy error × +	
$\leftarrow \rightarrow C'$ A Not secure 192.168.1.101/indexthtml	
	Your connection is not private
	Attackers might be trying to steal your information from 192.168.1.101 (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 5 Back to safety
	This server could not prove that it is 192.168.1.101 ; 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 x + ← → C ▲ Not sequre 192.168.1.101/jndex.html → C ▲ Not sequre 192.168.1.101/jndex.html → C ▲ Not sequre 192.168.1.101/jndex.html	
	Your connection is not private
	Attackers might be trying to steal your information from 192.168.1.101 (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 192.168.1.101 ; 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.

		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. Wi-Fi Wi-Fi

- [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 192.168.3.1 (for example, passwords, messages, or credit cards). Learn more
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 192.168.3.1 ; 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

	INSTALLATION	
Please	choose your lang	uage
Český		
Dansk		
Deutsch		
English		v
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.

License Agreer	ment for Software		
Following Licenses are Smart Access Point	used in the products		
Copyright (c) 1992 - 20 Linus Torvalds et al.	AL PUBLIC LICENSE V2 10 I location: git://git.freescale.com/ir	mv/fsl-arm-yocto-bsp.git	
Component: @qooxdoc	o's qoaxdoo		
☑ I have read "Lice	nse Agreement 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.

. <u> </u>	IN	STALLATION	
	Please define	your location	
	Time zone (U	TC+08:00) Beijing,Chong 🗸	
	Date and time		
	<	>	

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.

11	NSTALLATION	
Wi-Fi access	s point mode setti	ngs
	SmartAP_7FEE	
Password	Password	 xAt least 10 characters xUppercase to lowercase letters xAt least one special character
Repeat password		×At least one number
Country code	China	<u>~</u>
<		

7. Selecting the connection type

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

Tap " Ito 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 the arunning 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.

INSTA	LLATION
Please establish	LAN connection
LAN (PoE):	
✓ Obtain IP address autorr	atically
IP address 192.16	8.1.102
Subnet mask 255.25	5.255.0
Default gateway 192.16	8.1.1
<	>

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		×At least 10 characters VUppercase to lowercase letters ×At least one special character	
Repeat password		×At 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) **
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 varial security code, which is sent via the myBuildings account by email.
< >

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
	Password Friendly name
	Remote access Enable 4
2	If you do not have a MyBuildings account yet, you can register haro.

- [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 2	
Password	
Friendly name Remote access Enable 4.	
If you do not have a MyBuildings account yet, you can reprinter 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.

I	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		08:47 Mon 01-01-2024		쁆	Ť	Ĵ	¢⊳
෮) Sound	_ NET	work соммол 🤈					
🕤 Network Connections		∠					
ව _{ුසා} Time & Date	-	Common					
	_	Indoor Station Address	001-0109-01				
🛲 Access Management		Master Mode	Master				
	-	IP- Building Network Addr.	10.0.65.64				
ጺ User Settings		IP- Private Network Addr.					
	-	Firmware Version	HGI29_Main_V1.10_2	20240311	_MP_X200	0	
🕁 Video Surveillance	_	Hardware Version	HGI29_Main_V1.00_;	20230922	2_MP		
(), Intercom List	2	Serial Number	102807A7F06DC59(HFS)			
	-)	Signature					
Program Button		PKI Certificate					
දරිූ Advanced Settings	_	Show license agreement					-
🍸 Software Update	_	Software & User agreeme	ents				
i About		Export log					
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.

X Settings	09:35 Mon 01-0	01-2024	椿	Ť	Ĵ	¢⊳
O Display	PANEL ACTUATORS	OUTDOOR STATIONS	3			
ද]» Sound						
Network Connections	Buttons Set-up Columns of Buttons	Push	button sett	ings		
စ _ဤ Time & Date	Sync Time					
🗝 Access Management	Sync with SmartAP	~				
$ m {A} $ User Settings	Device Version 4					
🕁 Video Surveillance	Mainboard :	HSE07-IC_Digital_V			132926	
	- MCU :	HSE07-IC_MCU_V2.		MP		
0 Intercom List	Serial Number :	101807A7F06DAF6(34CA2EA50C04C54				
Program Button	- Signature :	34CA2EA50C04C54	•			
ැලූි Advanced Settings 2	ок					

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	⊲ »
● Display	PANEL ACTUATORS	OUTDOOR STATIONS	3			
பூல Sound						
Network Connections	Buttons Set-up Columns of Buttons	V Push b	outton sett	ings		
^စ ္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	548					
Engineering settings	Manual:						
Reset settings							
neset settings							
About 1							
Fu 02/04/24 11:23 强 强		ھ	A	<u>,</u>	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.

X Settings	10:23 Mon 01-01-2024	* *	し し し し く》
பூல் Sound	– PANEL ACTUATORS OUTDOOR STA	TIONS	
Network Connections			
© _∰ Time & Date	 Lock Management		
	Link Exit Button with Lock Power lock	I Report when unlock	
🛲 Access Management	Power lock		
्री User Settings	 Door Status		
	Door Open Period(s)	Door status detection	
🕁 Video Surveillance	60		
.(), Intercom List	-		
0 Intercom List	Device Version : HGM51_V1.16_20240206_	PP_STM32F407VE	
Program Button	Serial Num : 104000CDE017FEE(KZU))	
	Signature : 34CA2EA50C04C548	Λ	
{ర్టి Advanced Settings 2	- Signature - Signature -	4	
🌈 Software Update			
(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".

× Settings	12:49 Tue 02-01-2024	# Q 4»
Sound 2	PANEL ACTUATORS OUTDOOR STATIONS	
🙃 Network Connections		
ව _ញ Time & Date	Addressing Master Mode Master mode	
∞⊙ Access Management		
入 User Settings	Enable trusted devices function	
。	Physical Address 4	
0 Intercom List	Physical Address 001-0101-01	2
Program Button		
ည္လို Advanced Settings	IP Address (i)	
⊖ Software Update	Building Network 192.168.1.101 Private Network	etwork
(i) About	Options	
imes Settings	12:49 Tue 02-01-2024	+# ↓ <>>
දා) Sound		
🚡 Networł 📲 Set Device Details		×
စ _ဤ Time & I		
سی Access ۱ Physical Addres	s	—
کر User Set Block 001	Apartment 01	
لم Video Su	Panel Number	
	01	
ပို့ Intercor		
01		6 —
Q Intercor		G — Save & Close
<pre>01</pre>		6 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	hh 小 、 、 、 、 、 、 、 、 、 、 、 、 、
O Display	PANEL ACTUATORS OUTDOOR STATIONS	
්තා Sound	Addressing	
🕤 Network Connections	Master Mode	
စ် _ဤ Time & Date		
ا من Access Management	Enable trusted devices function	
့ User Settings		
ூ Video Surveillance		
0 Intercom List		
Program Button		Network
ႏ္လြံး Advanced Settings		
了 Software Update	Options	
X Settings	12:17 Thu 04-01-2024	dan da
 Display 		
● Display 수: Edit Building Ne	etwork	rta () () ×
 ● Display ↓ Edit Building Ne ↓ Sound Connection preferer 	nces: Ø 8	
 ● Display ↓ Edit Building Ne ↓ Sound ○ Network ● Time & [etwork nces: Ø 8 WIFI Disable	
 ⑦ Display ☆ Edit Building Ne ↓ Sound ⑦ Networł ○ LAN 	nces: \bigcirc 8 • WIFI Disable	
 ● Display → □ ■ Edit Building Net ⊂ Connection preferer ○ Network ● LAN ● Time & I Addressing preferer 	etwork nces: Ø 8 WIFI Disable	
 ● Display ● and Connection preference ● Network ● LAN ● Time & t Addressing preference ● DHCP(Default) 	nces: 2 WIFI Disable	
 ● Display ↓ Sound ← Building Net ← Connection preferent ● LAN ● LAN ● Access I Addressing preferent ↓ DHCP(Default) 	etwork Inces: WIFI Disable Inces: 9 ABB Legacy Customizable address	
 Display → Edit Building Net → Connection preferent → LAN → Addressing preferent → Video St ● DHCP(Default) 	etwork etwork wiFl Disable wiFl ABB Legacy Customizable address Subnet mask m.ees.ees.ees.ees.ees.ees.ees.ees.ees.ee	

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".

X Settings	15:24 Fri 05-01-2024	
Display	PANEL ACTUATORS OUTDOOR STATION	<u>s</u> 3
ද්) Sound		F
🙃 Network Connections	Device Setting 4	Set device details
^စ ္ကာ Time & Date		
📼 Access Management	Lock Management	
्री User Settings	Unlock Type When Swiping Default Lock	
🕁 Video Surveillance	Default Lock Subsidia	ry Lock C-COM
0 Intercom List	Time of Power Lock(s) Time of 5 5	Signal Lock(s)
Program Button		
ැලූ Advanced Settings 2	Door Alarm Detection alarm Ta	mper 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		44 Q ())
● Display 口》Sound	Set Device Details			×
) Network	Physical Address	Device		
^စ ြူ Time & [001	01	6	
access t	Floor 01	Apartment O1		
္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".

10.4.5 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	
Display	PANEL ACTUATORS OUTDOOR STATION	<u>s</u> 3
ද්) Sound		F
🙃 Network Connections	Device Setting 4	Set device details
^စ ္ကာ Time & Date		
📼 Access Management	Lock Management	
्री User Settings	Unlock Type When Swiping Default Lock	
🕁 Video Surveillance	Default Lock Subsidia	ry Lock C-COM
0 Intercom List	Time of Power Lock(s) Time of 5 5	Signal Lock(s)
Program Button		
ැලූ Advanced Settings 2	Door Alarm Detection alarm Ta	mper 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.

O Display	ا Set Device Details			×
් Sound	Set Device Details			
🙃 Networł	Physical Address			
စ _{္က} Time & ၊	Block OO1	Device 01		
میں Access ۱	Floor 01	Apartment 01	6	
ጺ User Set	🔵 Internal IP gateway	💿 External IP gateway		
🕁 Video Si 🛛 🕇	DHCP(Default)	ABB Legacy	Customizable address	~
.Ų, Intercor			3	3
Program			Save 8	Close
က္ထို Advanceu ခဏ္ဍာက	ys and a second s	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		• %

Appendix

Engineering setting	gs	
Engineering settings		
Local settings	Network: DHCP	×
Password management		
Lock management	IP address	Subnet mask
Lock management	192.168.1.100	255 . 255 . 255 . 0
Network settings 4		
	Default gateway	DNS
	192 . 168 . 1 . 1	192.168.1.1
		OK
Fr 29/03/24 18:29		• 14

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		4	Ą	d»
O Display	PANEL ACTUATORS OUT	DOOR ST	ATIONS		
්තා Sound	IP Actuator Device Setting				
🙃 Network Connections	Set device details 4				
⁰ ற் Time & Date					
∞ Access Management	Power Lock		Unlock Time(s)		
႙ User Settings	AC output	~	5		
🕁 Video Surveillance	Relay Lock				
0 Intercom List	Relay Type Turn on the light	~	Turn on light time 30 seconds		~
Program Button	Lock Management				
్టర్లు Advanced Settings 2	Link Exit Button with Lock Power lock	~	V 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	\$ _ <>
© Display	Set Device Details	×
) Sound		
💮 Network	IP Actuator Type 5 V Device 01	
ି _ଆ Time & [💿 Internal IP gateway 💿 External IP gateway 🌀	
⊶⊙ Access N	Block Apartment 001 01	
റ User Set	Floor 01	
Video St 7	DHCP(Default) ABB Legacy Customizable address	
ے۔ براہ اntercor		8
Program		Save & Close
က္လြို Advanceu ၁eccnių	e	
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".

imes Settings	11:24 Mo 18-09-2023 🙃 🗘 🗸)
O Display	PANEL ACTUATORS OUTDOOR STATIONS	
പ്പ്) Sound	Options	
Solution Network connections	- Manual snapshot Manual video recording	
ூ Time and date	Auto Unlock 🗸 Delete call History	
∝⊙ Access management		
्रि User settings	 Default guard unit Guard unit address 1 	
🕁 Video Surveillance		
🔱 Intercom list	Reset panel option	
Program button	Reset to factory setting	
ည္လြို Advanced settings		
🥂 Software update		
imes Settings	11:24 Mo 18-09-2023 🙃 💭 🖒)
Display		
Reset option	X	
▲ Reset option □ Sound Be careful		
C) Sound Be careful Sound		
 ✓)» Sound Be careful ⊙ Network All system set u Please be aware 	ups will be lost: e that by clcking YES, all system set ups will be lost, and	
 ↓ Sound Be careful ☆ Network ▲ All system set u Please be aware the panel will be available to the pan	ups will be lost:	
✓) Sound Be careful 중 Network All system set u Please be aware the panel will be	ups will be lost: e that by clcking YES, all system set ups will be lost, and	
C) Sound Be careful C Network C Time an Please be aware the panel will be avere the	ups will be lost: e that by clcking YES, all system set ups will be lost, and	
 C(1) Sound Be careful Sound Be careful All system set u Please be aware the panel will be Access Are you sure? 	ups will be lost: e that by clcking YES, all system set ups will be lost, and	
 ⟨→⟩ Sound Be careful ⊗ Network All system set u Please be aware the panel will be Access Are you sure? ∨ideo Su 	ups will be lost: e that by clcking YES, all system set ups will be lost, and	
 ⟨) Sound Be careful ⊗ Network All system set u Please be aware the panel will be the panel will be	ups will be lost: e that by clcking YES, all system set ups will be lost, and e returned to factory settings.	

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		off
Network settings	Compatible mode		
			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
	ļ	
	,	

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 cl	hange password 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.

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.

Seni 2140 For	fication code <mark>:</mark> 920 t by: Jacky's Smar Jadf9ea2c / ivanst your information. <i>A</i> via your free@ho	tAP (cac28e69 agecn) A maximum of		
	Please cha	nge passv	word first!	
	Password	•••••		
	Repeat passw			
	Verify code	92OJJ88K		
				r - 11 - 11 - 14
			Finish	

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.

Preferences	Devices Diagnosis	
System information	> System information	
Network settings	Version : V6.55 Signature : 34CA2EA50C04C548	5.255.255.0
Localization	Serial No. All types All states Building No. Floor No.	Room No. Clear Filters
Project backups	ACTIONS Status Reason Device type Physic	ical address Serial No.
Firmware updates	> C 🖌 📋 🌒 Available Guard unit	#01 103807A7F0302D6 HGM53
Connections & APIs	, C 🖌 📋 🌢 Available Indoor station 001	1-0102-01 102807A7F06DC52 HGI29_
Service	C 🔑 🗍 🌢 Available Indoor station 001	1-0101-02 102807A7F063253 HGH10
	C 🗲 🗍 🌑 Available Indoor station 001	1-0101-01 102807A7F06DC59 HGI29_
Wi-Fi access point mode settings	C 🖌 📋 🌢 Available Second-confirm station 001	1-0101-02 101807A7F06DAF6 HSE07-
Third party authority	> C 🖋 📋 🌒 Available Building IPA (001-01 104000CDE017FEE HGM51
Devices Diagnosis	PREFERENCES >	
ome 🕕 Ra sos 🍸		
DME 🕕 🖓 SOS 🕅	<	
OME 🕕 🗟 SOS 🕐		
DME ① Pa SOS ① Preferences System information Network settings		3
OME 1 Res Sos 1	PREFERENCES PREFERENCES Devices Diagnosis Clear Filters Refresh All	3 Jing IP Mode Building IP Address
OME 1 Room Sos 1 Room Sos 2 Room		
OME 1 Ra SOS 1	Clear Filters Refresh All Clear Filters Refresh All Serial No. Version Signature Particologian Jack 7A7F0302D6 HGM53_GU_Main_V1.54_20240321_PP_IMX6SOLO 34CA2EA50C04C548 7A7F05DC52 HGI29_Main_V1.10_20240311_MP_X2000 34CA2EA50C04C548	DHCP 192.168.1.10 DHCP 192.168.1.10
OME 1 Resolution Relation Rela	Clear Filters Refresh All Clear Filters Refresh All Clear Filters Refresh All TA7F060252 HGI29_Main_V1.54_20240321_PP_IMX6SOLO 34CA2EA50C04C548 TA7F060252 HGI29_Main_V1.22_20240321_MP_SSD20X 34CA2EA50C04C548	DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10
OME 1 Res Sos 1 Res Sos 2 Res System information Network settings Localization Project backups Firmware updates Connections & APIs Service	Clear Filters Refresh All Clear Filters Refresh All Clear Filters Refresh All TA7F0802D6 HGI29_Main_V1.54_20240321_PP_IMX6SOL0 34CA2EA50C04C548 TA7F06DC52 HGI29_Main_V1.10_20240311_MP_X2000 34CA2EA50C04C548 TA7F06DC59 HGI29_Main_V1.10_20240311_MP_X2000 34CA2EA50C04C548	DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10
OME 1 Resolution Relation Rela	Clear Filters Refresh All Clear Filters Refresh All Serial No. Version Signature Build 7A7F060D52 HGIH29_Main_V1.54_20240321_PP_IMX6SOLO 34CA2EA50C04C548 All 7A7F060D52 HGIH29_Main_V1.22_20240321_MP_SD20X 34CA2EA50C04C548 All 7A7F060D52 HGIH29_Main_V1.22_20240321_MP_SSD20X 34CA2EA50C04C548 All 7A7F060D52 HGIH29_Main_V1.10_20240311_MP_X2000 34CA2EA50C04C548 All 7A7F060D53 HGIH29_Main_V1.22_20240321_MP_SSD20X 34CA2EA50C04C548 All 7A7F060D54 HGIP3_Main_V1.22_20240311_MP_X2000 34CA2EA50C04C548 All 7A7F060D55 HGIP3_Main_V1.22_20240321_MP_SSD20X 34CA2EA50C04C548 All	DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10 DHCP 192.168.1.10

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	
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.	r No. Room No. Clear Fil
Project backups	ACTIONS Status Reason	Device type	Physical address Serial No.
Firmware updates	> C 🗲 💼 🔶 Available	Guard unit	#01 103807A7F0302D6 HGM
Connections & APIs	, C 🗲 📋 🕒 Available	Indoor station	001-0102-01 102807A7F06DC52 HGI
Service	C 🗲 💼 🔴 Available	Indoor station	001-0101-02 102807A7F063253 HGF
Service	C 🗲 🛅 🕒 Available	Indoor station	001-0101-01 102807A7F06DC59 HGI
Wi-Fi access point mode settings	C 🗲 🔟 🔴 Available	Second-confirm station	001-0101-02 101807A7F06DAF6 HSE
Third party authority	> C 🗲 🛅 🕒 Available	Building IPA	001-01 104000CDE017FEE HG
Devices Diagnosis	>	•	
ME 🚺 🗟 SOS ᡗ 🗍	< PREFERENCE		b
DME 🕦 न्द्र SOS 👚 🛛			ь
			Lugary Sam. Sets tori sources and Bulling sources to UAS1 (MS) International source (Set 14.10)
Preferences			
Preferences System information	Network settings Network mode Use ABB Legacy Mode	5	
OME 1 Preferences System information Network settings Localization	Network settings Network mode Use ABB Legacy Mode Unit network and building network on LAN-1 (POE)		
Preferences System information Network settings			
Preferences System information Network settings 	Network settings Network mode Use ABB Legacy Mode Unit network and building network on LAN-1 (POE) Unit network and building network on LAN-1 (POE)	-5 	
Vereferences System information Aetwork settings ocalization Vroject backups Tirmware updates		+2 XE) (Recommended setting)	
Preferences system information letwork settings ocalization Project backups		+2 XE) (Recommended setting)	
Preferences System Information Aetwork settings ocalization Project backups Tirmware updates Connections & APIs		v V-2 DE) (Recommended setting) DE)	
Interences Internation Interna		S 4-2 2E) (Recommended setting) 3E) 255 255 255 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)
Network settings	
Localization	INFORMATION
Project backups	 Network settings changed. You may need to access a new network address.
Firmware updates	
Connections & APIs	> 8⊀
Service	•
Wi-Fi access point mode settings	•
Third party authority	>

[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			
Preferences		Devices Diagnosis				
System information	>					
Network settings	>					
Localization	>	Clear F	Filters Refresh All		12	
Project backups	>	Serial No.	Version	Signature	Building IP Mode	Building IP Add
Firmware updates	>	307A7F0302D6 HG	GM53_GU_Main_V1.54_20240321_PP_IMX6SOLO	34CA2EA50C04C548	Legacy IP	10
Connections & APIs	>	307A7F063253 HG	H10IP_Main_V1.22_20240321_MP_SSD20X	34CA2EA50C04C548	Legacy IP	10.0
		307A7F06DC59 HG	Bl29_Main_V1.10_20240311_MP_X2000		Legacy IP	10.0
Service	>	307A7F06DAF6 HS	E07-IC_Digital_V0.04_20240105_PP_N32926	34CA2EA50C04C548	Legacy IP	10.
Wi-Fi access point mode settings	>	000CDE017FEE HG	GM51_V1.16_20240206_PP_STM32F407VE	34CA2EA50C04C548	Legacy IP	10.0

[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.

	🗘 PRI	EFERENCES	
Preferences	Devices Diagnosis		
System information Network settings		Signature : 34CA2EA50C04C548 address : 10.0.0.1(192.168.1.101) Subnet m	rask : 255.255.255.0
Localization	> Serial No. All types ~	All states	r No. Room No. Clear Filte
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	001-0101-02 102807A7F063253 HGH
Service	C 🗲 🛅 🌑 Available	Indoor station	001-0101-01 102807A7F06DC59 HGI2
Wi-Fi access point mode settings	C / Available	Second-confirm station	001-0101-02 101807A7F06DAF6 HSE0
Third party authority	C 🔑 🔟 🌢 Available	Building IPA	001-01 104000CDE017FEE HGM
Devices Diagnosis	>	*	
HOME 🕕 🗟 SOS 🕅	PREFI	ERENCES	
	🗘 PRI	ERENCES >	
Preferences	PRI		Astrody (PAO) Neural Note: 9 assignment actionatio, via SAO surver or mound Astrodes: scalar oits a versional
Preferences System information	🗘 PRI		Astanta (2007) House Note 79 angeneta standards via 1907 server a manat Prostate runna esta constructivate de la c
Preferences	Network settings Network mode Use ABB Legacy Mode LAN (PoE) (Recommended Setting)		
Preferences System information Network settings		EFERENCES	
Preferences System information Network settings Localization		EFERENCES	
Preferences System information Network settings Localization Project backups		EFERENCES	
Preferences System information Network settings Localization Project backups Firmware updates		EFERENCES v	
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs		►FERENCES	
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs Service		■ FFERENCES ■ 192.168.1.101 255.255.0	

- [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.

		C PREFERENCES	
Preferences	Network settings		Normalita (DHCP) / Manual Monto: 19 anologoesent automatic via DHCP server or manual medicar context of American 1119 another automatic
System information	> Network mode		
Network settings	Use ABB Legacy Mode		
Localization	Do you want to change t	to DHCP mode?	Constraints Constrain
Project backups	5 Please make sure the following • Building network needs to co	g conditions have been achieved. nnect to a router which enables DHCP. s in the system have installed the latest firmware version.	Restry fields from the first state of the first sta
Firmware updates	6 I am aware of the risks		
Connections & APIs	×	7 <	
Service	> Subnet mask		
Wi-Fi access point mode settings	> Default gateway	192.188.1.1	
Third party authority	> DNS server		
	> ×	Save PREFERENCES >	
	× ×	< PREFERENCES >	
ome 🚺 🖓 sos 🏦 🛛	> x		
OME 🕦 Pa SOS 🕥 📗	> X	< PREFERENCES >	
IOME 1 Par SOS 1		< PREFERENCES >	
IOME 0 2 SOS 1	· · ·	< PREFERENCES >	
NOME 1 Preferences System information Network settings Localization		PREFERENCES PREFERENCES settings changed. You may need to access a new	
Devices Diagnosis	2 2 2 3 3 3 1NFORMATION	PREFERENCES PREFERENCES settings changed. You may need to access a new	
IOME 1 Preferences Preferences System information Network settings Localization Project backups Firmware updates	> > NFORMATION > > Network a network a	PREFERENCES PREFERENCES settings changed. You may need to access a new	
OME OME OME OME OME OME OME OME OME OME OME	NFORMATION > > > > > >	PREFERENCES PREFERENCES settings changed. You may need to access a new	
OME OME OME OME OME OME OME OME OME OME OME	> NFORMATION > > > Network a > >	PREFERENCES PREFERENCES settings changed. You may need to access a new	
KOME 0 2 SOS 1 I	→ → → → → → → → → →	PREFERENCES PREFERENCES settings changed. You may need to access a new	
- [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	>	I 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	>				

[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			
Preferences	Devices Diagnosis				
System information Network settings	System information Version : V6.55 IP Mode : DHCP	•	CA2EA50C04C548	et mask : 255.255.255.0	
Localization		ypes v All states		floor No. Room N	No. Clear Filte
Project backups	> ACTIONS St	tatus Reason	Device type	Physical address	Serial No.
Firmware updates	> C 🗲 🔟 🔴 Availa	able	Guard unit	#01	103807A7F0302D6 HGM
Connections & APIs	, C 🗲 🔟 🔴 Availa	able	Indoor station	001-0101-02	102807A7F063253 HGH1
Service	C 🗲 前 🔴 Availa		Indoor station	001-0101-01	102807A7F06DC59 HGI29
Wi-Fi access point mode settings	C 🗲 🗎 Availa		Second-confirm station	001-0101-02	101807A7F06DAF6 HSE0
		able	Building IPA	001-01	104000CDE017FEE HGM
Third party authority	>				
Devices Diagnosis	>		♠		
HOME IN SOS (1)	1	PREERENCES	5.		
Home 🕦 🗟 sos 안 🖠		< PREFERENCES	€		
HOME (1) Fei SOS (1)	PREFERENCES		>	_	_
	»		> Legacy IP 2	-	-
Preferences	>		2	mask: 255.255.25.0	-
Preferences System information	Building IP Mode	PREFERENCES DHCP Slatic address U	2	mask : 255.255.255.0 or No. Room N	No. Clear Filt
Preferences System information Network settings	Building IP Mode Building Network z	PREFERENCES DHCP Static address I 192.168.1.102 255.255.255.0	2		No. Clear Filte Serial No.
Preferences System information Network settings Localization	> Building IP Mode U	PREFERENCES DHCP Static address 0 L 192.168.1.102 255.255.255.0 192.168.1.1	2	or No. Room N	
Preferences System information Network settings Localization Project backups	> Building IP Mode U	PREFERENCES DHCP Static address I 192.168.1.102 255.255.255.0	2	or No. Room N Physical address #01 001-0101-02	Serial No. 103807A7F0302D6 HGM 102807A7F063253 HGH
Preferences System information Network settings Localization Project backups Firmware updates	> Building IP Mode	PREFERENCES DHCP Static address 0 L 192.168.1.102 255.255.255.0 192.168.1.1	2	or No. Room N Physical address #01 001-0101-02 001-0101-01	Serial No. 103807A7F0302D6 HGM 102807A7F063253 HGH 102807A7F06DC59 HGI2
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs	> Building IP Mode > Building Network > Building Network > 1 > 1 > 4ction	PREFERENCES DHCP Static address 0 192.168.1.102 255.255.0 192.168.1.1 192.168.1.1 192.168.1.1 192.168.1.1	2	or No. Room N Physical address #01 001-0101-02	Serial No. 103807A7F0302D6 HGM 102807A7F063253 HGH
Preferences System information Network settings Localization Project backups Firmware updates Connections & APIs Service	> Building IP Mode	PREFERENCES DHCP Static address 0 192.168.1.102 255.255.0 192.168.1.1 192.168.1.1 192.168.1.1 192.168.1.1	Legacy IP 2	or No. Room N Physical address #01 001-0101-02 001-0101-01 001-0101-02	Serial No. 103807A7F0302D6 HGM1 102807A7F063253 HGH1 102807A7F06DC59 HGI23 101807A7F06DC59 HGI23

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

			ERENCES		
Preferences		Devices Diagnosis			
System information	>				
Network settings	>				
ocalization	>	3 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	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
Ni-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.

—	Outdoor station 001-01	LIST VIEW
		List of trusted devices
		No trusted device
	Welcome No weakome meassage	Add trusted devices Trust this management software
		-
	Settings Bulletin Name list	 ✓ Save
- 	Outdoor station 001-01	LIST VIEW
	dd trusted devices	rusted devices
		Insten nevice
	Please select device	
	Development Developme	
	Guard unit #01	
	Public	
	Outdoor station 001-01 Floor 1	
	 ✓ Indoor station 001-0101-01 ✓ Indoor station 001-0101-02 	
		Add trusted devices
		frust this management software
	× 6 √	
	Image: settings Image: settings Settings Bulletin	▲ ✓ Save

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

	Outdoor station 001-01	LIST VIEW
	Welcome No velcome message.	List of trusted devices Indoor station 001-0101-01 102807/A7F02F005 Indoor station 001-0101-02 102807/A7F030593 7
		Delete selected Delete all Add trusted devices Trust this management software
Settin	ps Bulletin Name list	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".

0	OUTDOOR STATIONS	ADD DEVICE	LIST VIEW	
		☑ Oute	loor stations	
Outdoor stations		Outd	por station 001-01	>
Cutation station 001-01				
Public area		Put	lic area	
	Outdoor stations IP actuator Guard unit			
æ	Outdoor station 001-01		LIST VIEW	
		101	807A7F02F948	
		101		
		Vor	ine l	
		Ver		
		HG	005 Digital_V1.22_20200527_PP_CX92755	
	Welcome	HG		>
	Welcome No welcome message.	HCP Add	005_Digital_V1.22_20200527_PP_CX92755 itional settings	
		HG Ade Ph Ca	005_Digital_V1.22_20200527_PP_CX92755 litional settings sical addr.	>
		HGi Add Phy Cai	005_Digital_V1 22_20200527_PP_CX92755 itional settings siseal addr.	>
		HG Add Ph Ca Wa Do	005. Digital_V1 22_20200527_PP_CX32755 Itional settings sical addr. Ing type Icome message	> > >
		HGi Add Add Phy Ca We Do	Do5. Digital V1 22: 20200527, PP. CX92755 itional settings siskal addr. ing type come message or lock setting	> > > >
	No welcome message.	HG Add Ph Ca Do Tin Lift	005. Digital V1 22: 20200527: PP: CX92755 Itional settings isical addr. ing type come message r lock setting e synchronization	> > > >
	No welcome message.	HG Add Phy Ca We Do Tin Lift Lar	De5. Digital V1.22. 20200527. PP. CX92755 Itional settings sical addr. ling type come message or lock setting e synchronization control	> > > > >
	No welcome message.	HG Acc Ph Ca Do Tin Lift Lar	005. Digital V1.22. 20200527. PP. CX92755 Itional settings isical addr. ing type come message or lock setting e synchronization control guage	>

- [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
	LW W W CO CO Status Status C C C C C C C C C C C C C	Add trusted devices Add trusted devices Trust this management software
	Settings	× √ Save
=	Block IPA 001-01	LIST VIEW
	Add trusted devices	of trusted devices
8		rusted device
	Please select device All Current of the select device Duble Guard unit #01 Dubling1 Puble Plobe Plobe Plobe Midoor station 001-0101-01 Vindoor station 001-0101-02	Add trusted devices
	× 6√	

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

Block IPA 001-01	LIST VIEW
LAN Solo Disk Look - Look - Look - Look - Disk Exit LIN	List of trusted divides Quard unit #01 103807A7F02F93C Indoor station 001-0101-01 102807A7F02F605 Indoor station 001-0101-02 102807A7F020593
HB304 IP Actuator ABB-Welcome IP Status Preset Security Switch	Delete selected Delete all Add trusted devices
NC COM NO Settings	× 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
	Ø	IP actuator
IP actuator		Block IPA 001-01
Block IPA 001-01		
Public area		Public area
Cutdoor stations Indoor stations IP actuator Guard unit		
E Block IPA 001-01		LIST VIEW
Block IPA 001-01		Device type
E Block IPA 001-01		Device type Building IPA
		Device type Building IPA Physical addr.
LAN		Device type Building IPA Physical addr. Block No.: 1
		Device type Building IPA
		Device type Building IPA
		Device type Building IPA Physical add. Block No.: 1 Serial No.: 1 10407/A7F02FSEF
		Device type Building IPA Physical add: Block No.: 1 Senial No.: 1 Version Version
LAN We way to be took took one of ear H8304 IP Actuator ABB-Welcome IP		Device type Building IPA Physical addr. Block No.: 1 Serial No.: 1 Version Version HGM51 V1.03 20190301 PP STM32F407VE
LAN We way to book took one by both HB304 IP Actuator ABB-Welcome IP Status Freset		Device type Building IPA Physical add: Block No.: 1 Senial No.: 1 104807A7F02F5EF Varsion
LAN Weight Der Lock- Lock- GND DS ENT H8304 IP Actuator ABB-Weicome IP		Device type
LUN WE Sold UND DC+ LOCK-LOCK-CAND DS EXT H8304 IP Actuator ABB-Welcome IP Status Reset Status Security Switch		Device type Building IPA Physical addr. Physical addr. Biock No.: 1 Device No.: 1 104807A7F02F5EF Serial No.: Serial No.: 104807A7F02F5EF Version MGM51 V1.03 20190301 PP STM32F407VE Additional settings Unlock setting
LUN WE Sold UND DC+ LOCK-LOCK-CAND DS EXT H8304 IP Actuator ABB-Welcome IP Status Reset Status Security Switch		Device type Building IPA Physical add: Block No.: 1 Bookie No.: 1 Serial No.: 104807A/F02FSEF Varian HGM51 V1.03 20190301 PP STM32F407VE Additional settings Unlock setting Lonock setting Local firmware update
Lun Weight Digen Locar And Dig Ext HB304		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Senial No.: 1 104807A7F02FSEF Version HGM51 V1.03 20190301 PP STM32F407VE Additional settings Unlock setting > Local firmware update >

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

Ellock IPA 001-01	LIST VIEW
	List of trusted devices Indoor station 001-0101-02 102807A7F030933 Guard unit #01 103807A7F02F93C Indoor station 001-0101-01 102807A7F02F605
H8304 IP Actuator ABB-Welcome IP Status Fieset Security Switch ERI 🔊 🎽 C C	Delete selected 5 Delete all Add trusted devices Trust this management software
NC COM NO 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
	Welcome No welcome message.	List of trusted devices Indoor station 001-0101-01 1028077A7F03F065 Indoor station 001-0101-02 1028077A7F03F06F30C Guard unit #01 105807A7F03F03C MGART-SW 105807A7F030734 Delete selected
	Settings Bulletin Name list	Delete all Add trusted devices ✓ Trust this management software 4

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
	D	IP actuator
IP actuator		Block IPA 001-01
a 2		
Block IPA 001-01		
Public area		Public area
ruuni, area		
8 🗖 1 🕶 🗉		
Outdoor stations Indoor stations IP actuator Guard unit		
		1000 10000
Outdoor stations Indoor stations IP actuator Guard unit Guard unit Blook IPA 001-01		LIST VIEW
E Block IPA 001-01		LIST VIEW Device type Building IPA
E Block IPA 001-01		Device type
Block IPA 001-01		Device type Building IPA
ELAN (PA 001-01		Device type Building IPA </td
LAN CN CN DC+ LOCK- OND DS EXT		Device type Building IPA ~ Physical addr. Block No.: 1
LAN CN CN DC+ LOCK- OND DS EXT		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 1 [104807A7F02F5EF] 1
ELAN (PA 001-01		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 1 [104807A7F02F5EF] 1 Version
LUN LUN CND DC+ LOCK+ LOCK- OND DS EXT H8304 IP Actuator		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 104807A7F02PSEF Version HGM51 V1.03.20190301.PP. STM32F407VE
LAN H8304 IP Actuator		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 1 104807A7F02FSEF Version HGMS1 V1.03_20190301_PP_STM32F407VE Additional settings
E Block IPA 001-01		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 1 104807A7F02F5EF 1 Version HOM51 V1.03 20190301 PP STM32F407VE Additional settings Unlock setting
EIN EUN EUN EUN EUN EUN EUN EUN EU		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 1 104807A7F02FSEF Version HGMS1 V1.03_20190301_PP_STM32F407VE Additional settings
E Block IPA 001-01		Device type Building IPA Physical addr. Block No.: 1 Device No.: 1 Serial No.: 1 104807A7F02F5EF 1 Version HOM51 V1.03 20190301 PP STM32F407VE Additional settings Unlock setting
E Block IPA 001-01		Device type 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 >
E Block IPA 001-01		Device type Building IPA Physical addr. Physical addr. Block No : 1 Device No:: Physical addr. Block No : 1 Device No:: Physical addr. Serial No: 1 Device No:: Physical addr. HothST No:: 1 Device No:: HothST No:: HothST V1 03 20190301 PP STM32F407VE Additional settings Unlock setting Local firmware update
E Block IPA 001-01		Device type Building IPA Physical addr. Physical addr. Block No : 1 Device No:: Physical addr. Block No : 1 Device No:: Physical addr. Serial No: 1 Device No:: Physical addr. HothST No:: 1 Device No:: HothST No:: HothST V1 03 20190301 PP STM32F407VE Additional settings Unlock setting Local firmware update

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

E Block IPA (001-01	LIST VIEW
		List of trusted devices
LAN		Indoor station 001-0101-02 102807A7F030593
	DOK+ LOCK- GND DS EXIT	Guard unit #01 103807A7F02F93C
	UNE LOOK GND DS EXIT	Indoor station 001-0101-01 102807A7F02F605
		MGMT-SW 5
H8304 IP Actuator		
ABB-Welcome IP	_	
•		
Status Reset		Delete selected
	ity Switch	Delete all
ERI 💩 🗵	CE	Add trusted devices
	cc i	✓ Trust this management software 4
NC COM NO		
6 8 8		
یکو Settings		× 6 √ Save
Outings		× 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.

✓ 🧿 🗟 sos 💽	!		MAIN MENU		
		EMERGENCY UNLOCK/NORMA SOS Attention Username Password	L STATE) This operation will unlock all public doors! jacky		
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
🛔 jacky				Device	configuration 🔅 Preferences
BUILDING STRUCTURE		EMERGENCY UNLOCK	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 the access control system e.g. Cylinder.	of Locating and linking devices	X 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 R₂ sos 1			MAIN MENU		
BUILDING STRUCTURE	Normal Carps	EMERGENCY UNLOCK (EMERG SOS Attention User name Password	ENCY STATE) Now the system is in emergency state, all the public doors are open. jacky 		DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices the access control system e.g. Cylinde 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
jacky				Device	configuration 🄅 Preferences
✓ 0 ⅔ sos 1	! ବ		MAIN MENU		
BUILDING STRUCTURE	HI VALIS LEAN CONFICTORIS	EMERGENCY UNLOCK	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. Cylinde 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
🛔 jacky				C 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 805	ê I		MAIN MENU			
BUILDING STRUCTURE			USER MANAGEMENT			DOOR ENTRY SYSTEM
creating floors and rooms s	Infigure 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
🛔 memo					Device configura	tion 🔅 Preferences
	DOOR STATIONS	o trust 2	DOOR ENTRY SYSTEM	ADD DEVICE		D2
Cate station #01 Gate stat		on IP actuator	Guard unit Elevato Controli		Gate station #01	>

- [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.

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