2TMD041800D0012 | 21.11.2024

Product manual

Busch-Welcome® IP

H81381P.-.-03 IP pushbutton outdoor station





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1 Notes on the instruction manual

Please read through this manual carefully and observe the information it contains. This will assist you in preventing injuries and damage to property and ensure both reliable operation and a long service life for the device.

Please keep this manual in a safe place. If you pass the device on, also pass on this manual along with it. Busch-Jaeger accepts no liability for any failure to observe the instructions in this manual.

2 Safety



Warning

Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 100-240 V supply system to be performed only by specialist staff!

3 Intended use

As part of the Busch-Welcome[®] IP system, this device can only be used with accessories from that system.

Security mode

This outdoor station runs in "Security mode" by default to guarantee high security.

In "Security mode", this outdoor station requires a certificate issued by the management software before it can function normally.

Compatible mode

If there is no management software, this outdoor station needs to run in "Compatible mode" to function normally. This can be set on the indoor station. Please refer to the product manual for . IP touch 7".

Video privacy



Video privacy

Making and saving video recordings can infringe on personal rights! Always observe the applicable legal and labeling requirements for the placement and operation of video components!

4 Environment



Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with household waste.

- The device contains valuable raw materials that can be recycled. Therefore, dispose of the device at the appropriate collecting facility.

4.1 Busch-Jaeger devices

All packaging materials and devices from Busch-Jaeger bear the markings and test seals for proper disposal. Always dispose of the packing materials and electric devices and their components via an authorized collection facility or disposal company.

Busch-Jaeger products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU-Directive 2012/19/EU WEEE and 2011/65/EU RoHS)

(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

5 Product description

5.1 Device type

Article number	Product ID	Product name	Colour	Size (HxWxD) 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

5.2 Control elements



5.3 Terminal description



5.4 Lock type and connection

Lock type	Pic	Operation type	Voltage	Wiring type
Electrical strike lock, 12V	0 0 0	Power on to open	12 V ==/~	Type A/B
Electrical strike lock, 24V		Power on to open	24 V ==/~	Туре В
Electrical rim lock, 12 V		Power on to open	12 V	Type A/B
Electrical mortise lock		Power off to open	12 V —	Туре С
Magnetic lock		Power off to open	12/24 V	Туре С



6 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
Network connection standard	IEEE 802.3, 10Base-T/100Base-TX, auto MDI/MDI-X

7 Mounting/Installation



Warning Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 100-240 V supply system to be performed only by specialist staff!

7.1 Requirement for the electrician



Warning

Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

Incorrect installation endangers your life and that of the user of the electrical system.

Incorrect installation can cause serious damage to property, e.g. due to fire.
 The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
 - 1. Disconnect
 - 2. Secure against being re-connected
 - 3. Ensure there is no voltage
 - 4. Connect to earth and short-circuit
- 5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the type of supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective grounding, necessary additional measures, etc.).

7.2 Mounting

7.2.1 Preparation

Use gloves to protect yourself against cuts.



7.2.2 Installation height





Note

The following installation situations must be avoided without fail to ensure picture quality:

- Direct light
- Direct sunlight
- Extremely bright picture background
- Highly reflective walls on the opposite side of the door station

7.2.3 Surface-mounted installation



7.2.4 Flush-mounted installation

1. Flush-mounted without pre-installation box





2. Flush-mounted with pre-installation box

7.2.5 Cavity wall installation



7.2.6 Dismantling



7.2.7 Replacing the nameplate



8 Commissioning

8.1 Configure the settings on Indoor Station

8.1.1 Enter engineering mode of Outdoor Station



Note The Outdoor Station must be on the same network as the Indoor Station.

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



8.1.2 Accessing the "Outoodr Stations" screen

Please follow the steps below:

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

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^စ ္က Time & Date	2nd os v Set device details			
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Program Button				
贷 Advanced Settings 2	Door Alarm			
🎵 Software Update	Detection alarm Tamper proof alarm			
i About	Anti-flicker Settings Outdoor Station Language			
	Screen Refresh Rate 50 Hz	~		



Note

The Outdoor Station will exit engineering mode if no operation is carried out for 5 minutes.

8.1.3 Configuring the device type

Configuring the Gate Station

- [1] On the "Outdoor Stations" screen, go to the "Device setting" section, select "GS" from the drop-down list.
- [2] Tap "Set device details".
- [3] Enter the device number (01...32).
- [4] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [5] Tap "Save & Close".

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Configuring the Outdoor Station

- [1] On the "Outdoor Stations" screen, go to the "Device setting" section, select "OS" from the drop-down list.
- [2] Tap "Set device details".
- [3] Enter the block number (001...999) and the device number (01...64).
- [4] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [5] Tap "Save & Close".

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Configuring the 2nd Outdoor Station

1. Location of IP Actuator = Internal

In this case, the Outdoor Station connects to the router in the apartment (see the diagram below).



- [1] On the "Outdoor Stations" screen, go to the "Device setting" section, select "2nd OS" from the drop-down list.
- [2] Tap "Set device details".

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© _∰ Time & Date	Device Type 2nd OS Set device details			
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Program Button				
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💭 Software Update	Detection alarm Tamper proof alarm			
(i) About	Anti-flicker Settings Outdoor Station Language			
	Screen Refresh Rate 50 Hz V Language	~		

- [3] Select "Internal IP gateway".
- [4] Enter the device number (1...32).
- [5] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [6] Tap "Save & Close".

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2. Location of IP Actuator = External

In this case, the Outdoor Station connects to the switch outside the apartment (see the diagram below).



- [1] On the "Outdoor Stations" screen, go to the "Device setting" section, select "2nd OS" from the drop-down list.
- [2] Tap "Set device details".

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Program Button				
ळ Advanced Settings	Door Alarm			
🦵 Software Update	Detection alarm Tamper proof alarm			
(i) About	Anti-flicker Settings Outdoor Station Language			
	Screen Refresh Rate 50 Hz	v		

- [3] Select "External IP gateway".
- [4] Enter the block number (001...999), floor number (01...63), apartment number (01...32) and device number (01...02).
- [5] Select the network type, it can set to "DHCP", "Customizable address" or "ABB Legacy".
- If "ABB Legacy" is selected, IP address will be "10.0.x.x".
- [6] Tap "Save & Close".

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入 User Settings	Floor 01	Apartment 01				
。	🔵 Internal IP gateway 📀	External IP gateway		~		
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Program Button						
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(i) About			Save & Close	e		
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Note

The external and internal types cannot be used in mixed scenarios in the same apartment.

8.1.4 Configuring the lock

1. Configuring the default lock

- [1] On the "Outdoor Stations" screen, go to the "Lock Management" section, select the lock type from the drop-down list.
- It can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If the lock type is set to "IP Actuator", you need to select the lock type from the drop-down list. It can be set to "Power lock" or "Relay lock".
- [2] Enter the unlock time.
- If lock type = "Lock-GND" or "Power lock", you need to set the time for the power lock.
- If lock type = "NO-NC-COM" or "Relay lock", you need to set the time for the signal lock.

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Program Button						
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💭 Software Update		Detection alarm	Tamper proof alarm			
(i) About		Anti-flicker Settings	Outdoor Station Lang	uage		
		Screen Refresh Rate 50 Hz	~ Language	~		

2. Configuring the subsidiary lock

Please follow the steps below:

- [1] On the "Outdoor Stations" screen, go to the "Lock Management" section, select the lock type from the drop-down list.
- It can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If the lock type is set to "IP Actuator", you need to set the lock type from the drop-down list. It can be set to "Power lock" or "Relay lock".

[2] Enter the unlock time.

- If lock type = "Lock-GND" or "Power lock", you need to set the time for the power lock.
- If lock type = "NO-NC-COM" or "Relay lock", you need to set the time for the signal lock.

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Program Button						
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💭 Software Update		Detection alarm	Tamper proof alarm			
i About		Anti-flicker Settings	Outdoor Station Langua	je		
		Screen Refresh Rate 50 Hz	~ Language	v		

8.1.5 Configuring the "Door alarm" function

- [1] On the "Outdoor Stations" screen, go to the "Door Alarm" section, tick the check box to enable the functions.
- If the "Detection Alarm" function is enabled, the panel will send an alarm to SmartAP when the door is open for longer than 120 seconds (a sensor should first be connected to the Outdoor Station).
- If the "Local Alarm" function is enabled, the panel also sounds an alarm locally.
- If the "Tamper proof Alarm" function is enabled, the panel will send an alarm to SmartAP if the Outdoor Station is removed from the wall.

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Q Intercom List	Card mode			
Program Button	🗾 Safe mode			
餃 Advanced Settings				
💭 Software Update	Sound			
(i) About				
	Ringtone Volume			
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8.1.6 Configuring the "Anti-flicker" function

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to the "Anti-flicker settings" section, select the refresh rate from the drop-down list. It can be set to "60 Hz" or "50 Hz".

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				²			

8.1.7 Configuring the language

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to the "Outdoor Station Language" section, select the language from the drop-down list.

× Settings		(01:30 Sat 01-12-2018 [〕 27.9°C			Ĵ,	⊲ »
Oisplay	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEV	VICES			
්) Sound								
Cloud Connections		Door Alarm	ı on alarm		nper proof alarm			
ංක Time & Date		Detectio	on alarm	Tan	nper proor alarm			
ංන Access Management		Anti-flicker	Settings	Outdoo	or Station Language			
人 User Settings		Screen Refresh F 60 Hz	Rate	✓ Language English	1	1 -		
。								
♀ Intercom List		Card mode 🗸 Safe mo						
Program Button								
资 Advanced Settings		Sound		_				
🎵 Software Update		UButton t	tone	Voi	ce prompts			
i About		Ringtone V	olume					

8.1.8 Configuring the ringtone volume

Please follow the steps below:

[1] On the "Outdoor Stations" screen, go to the "Ringtone volume" section, select the ringtone volume (1...3)

\times	Settings			01:30 Sat 01-12-20	018 🔒 27	.9°C			Ţ,	
۲	Display	PANEL AC	TUATORS	OUTDOOR STATI	ONS TRU	USTED DEVIC	ES			
	Sound		Ringtone Vo	blume		_				
	Cloud Connections		- ;		1	1		– ⊲»		
o _m	Time & Date									
	Access Management		Voice Volun	ne						
	User Settings		¢;							
¢	Video Surveillance									
	Intercom List		Buttons Set	:-up						
	Program Button		Columns of Butto 1	ons	~	Push bu	utton settings			
ŝ	Advanced Settings		Sync Time Sync with Sr	nartAP	Ý	1				
S	Software Update									
	About		Device Vers							
			Mainboard				0240326_PP_N	32926		
			MCU :			CU_V2.07_20	240108_MP			
			Serial Numb	ber: 1	01807A7F06	DAF6(LOK)				

8.1.9 Configuring the "Button tone" function

- [1] On the "Outdoor Stations" screen, go to the "Sound" section, tick the check box to enable the function.
- [2] Go to the "Voice Volume" section, select the voice volume (1...5).

imes Settings		01:32 Sat 01-12-2018 👔 27.9°C 🗸 🗸	Ċ,	¢≫
Oisplay	PANEL	ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES		
්) Sound		Card mode		
Cloud Connections		🗸 Safe mode		
မ်ိုး Time & Date				
🖘 Access Management		Sound Sound Voice prompts		
人 User Settings				
・ Video Surveillance		Ringtone Volume		
🔱 Intercom List				
Program Button				
ැටූ Advanced Settings		Voice Volume		
🎵 Software Update		2 ⊲, ⊲»		
i About				
		Buttons Set-up		
		Courris of Buttons Push button settings		

8.1.10 Configuring the "Voice prompts" function

- [1] On the "Outdoor Stations" screen, go to the "Sound" section, tick the check box to enable the function.
- [2] Go to the "Outdoor Station Language" section, select the language.
- [3] Go to the "Voice Volume" section, select the voice volume (1...5).

× Settings		03:27 Sat 01-12-2018 👔 28.3°C		С р	
Oisplay	PANEL	ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
다》 Sound		Anti-flicker Settings Outdoor Station Language			
Cloud Connections		Screen Refresh Rate	v		
^စ ြူ Time & Date		50 Hz English Z			
🖘 Access Management		Card mode			
入 User Settings		V Safe mode			
。 Video Surveillance		Sound			
Untercom List		🗸 Button tone 🕴 🚺 🚺 Voice prompts			
Program Button					
හී Advanced Settings		Ringtone Volume			
🎵 Software Update		د)، <u> </u>	10		
i About		Voice Volume			
		3 ⊲,	1»		

8.1.11 Configuring the push buttons

- [1] On the "Outdoor Stations" screen, go to the "Buttons set-up" section, select the column number. This setting is only available when detecting the bar push-button module on the Outdoor Station. It can be set to "1" or "2".
- [2] Tap "Push button settings".
- [3] Tap the relevant push button.
- [4] Tap "Edit device".

× Settings	01:32 Sat 01-12-2018 🔒 27.9°C		\sim	Ţ,	⊲ »
Oisplay	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES				
」 「小》 Sound	<>				
S Cloud Connections					
 [©] ∭ Time & Date	Voice Volume 2				
	<,				
ーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーー)				
ーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーー	Buttons Set-up				
🖉 Intercom List	1 Switching				
Program Button	Sync time Sync with SmartAP				
 ැටූ Advanced Settings					
☐ Software Update	Mainboard : HSE07-IC_Digital_V1.13_20240326_PP_N	N32926			
(i) About	MCU : HSE07-IC_MCU_V2.07_20240108_MP Serial Number : 101807A7F06DAF6(LOK)				
	Signature :				
imes Settings	01:32 Sat 01-12-2018 👔 27.9°C		\sim	Ţ,	¢≫
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES				
(小) Sound		~1×			
Cloud Connections	ton Settings				
စိ _ဤ Time & Date	Push Button List Button 1				
∽ Access Manageme	Button 1 3 Function Call				
 کر User Settings	Button 2 Type Indoor Station				
۔ Video Surveillance طر	Device Indoor Station-01				
Untercom List					
Program Button					
- දබූ3 Advanced Settings					
💭 Software Update	4				
i About	Edit dev	ice			
	anginatore -				
- [5] Select the function from the drop-down list. It can be set to "Call", "Turn on the light" or "None".
- [6] Select the device type from the drop-down list. It can be set to "Indoor Station" or "Phone Guard Unit".
- [7] Enter the address according to the device type.
- [8] Tap "Save".

imes Settings		01:33 Sat 01-1	12-2018 🐊	27.9°C		\sim	Ţ,	¢
Oisplay		OUTDOOR ST	TATIONS	TRUSTED DEVICES				
Sound < Button 1		-1.			×			
© Cloud Connections								
^စ ္ဗ Time & Date	Function Set-up							
🖘 Access Manageme	Call 5	~						
දි User Settings	Device Type Indoor Station 6	~						
d Video Surveillance	Physical Address 7							
♀ Intercom List	Block 001	De Ol	evice 1					
Program Button	Floor 01	Ap 01	partment 1					
ល៍ Advanced Settings								
arsigma Software Update					8			
(i) About					Save			

8.1.12 Configuring the "Time sync" function

- [1] On the "Outdoor Stations" screen, go to the "Buttons set-up" section, select the sync time method from the drop-down list.
- If "Sync with SmartAP" is selected, the Outdoor Station will sync the time from the management software.
- If "No sync" is selected, tap "Set time manually" to enter the time and date manually.

× Settings		01:40	Sat 01-12-2018 [1 28.4°C	\sim	С р	⊲ »
Oisplay	PANEL	ACTUATORS OUT	DOOR STATIONS	TRUSTED DEVICES			
්) Sound							
S Cloud Connections		Buttons Set-up					
© _∭ Time & Date		Columns of Buttons		Push button settings			
		Sync Time No sync	1	✓ Set time manually			
名 User Settings		 Device Version					
。台 Video Surveillance		Mainboard :	HSE07-	IC_Digital_V1.13_20240326_PP_N32926			
Q Intercom List		MCU :		IC_MCU_V2.07_20240108_MP			
Program Button		Serial Number : Signature :	101807/	A7F06DAF6(LOK)			
ගි Advanced Settings							
🎵 Software Update		ок					
i About		Update from SD) card:				
		Read SD	card				

8.1.13 Configuring call forward

This function can be available only when "Device type" is set to "OS".

- [1] On the "Outdoor Stations" screen, go to the "Call Forward" section, tick the check box to enable the function.
- [2] Enter the address of default Guard Unit.

imes Settings		01:40 Sat	: 01-12-2018 🔒 28.4	۴C		Ċ,	
Oisplay	PANEL	ACTUATORS OUTDO	OR STATIONS TRUE	STED DEVICES			
්) Sound		LOCK-GND	Ý	NO-NC-COM	ř		
Cloud Connections		Time of Power Lock(s) 5		Time of Signal Lock(s) 5			
မို္က္ဆ Time & Date							
🖘 Access Management		Door Alarm Detection alarm		Tamper proof alarm			
्रि User Settings							
。		Call Forward	1				
↓ Intercom List		Address of Guard Unit	•				
Program Button		01 🖊					
्रि Advanced Settings		Anti-flicker Settings		Outdoor Station Language			
💭 Software Update		Screen Refresh Rate 50 Hz	~	Language	Ý		
i) About							
		Card mode					
		<mark> S</mark> afe mode					

8.1.14 Configuring Wiegand Output

- [1] On the "Outdoor Stations" screen, go to the "Wiegand Output" section, tick the check box to enable the function.
- [2] Select the Wiegand Output type from the drop-down list. It can be set to "26 bits" or "32 bits".

\times	Settings			02:56 Sat 01-12-2018 [29.2	°C		Ç	¢≫
۲	Display	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUS	STED DEVICES			
	Sound								
	Cloud Connections		Door Alarm						
0 _m	Time & Date		Detecti	on alarm		Tamper proof alarm			
	Access Management		Elevator Co	ontrol Setting		Call Forward			
	User Settings		Enable	elevator controller		Enable call forward			
	Video Surveillance		Wiegand O	utput					
	Intercom List		1 🗸 Enable v	wiegand output					
	Program Button	•	2 Wiegand Outpu 26 bits	t	~				
ţĞì	Advanced Settings								
Ø	Software Update		Anti-flicker			Outdoor Station Language			
	About		Screen Refresh 60 Hz	Rate	×	Language English	×		
			Sound						
			Button	tone		Voice prompts			

8.1.15 Configuring the lift

- [1] On the "Outdoor Stations" screen, go to the "Elevator Control Setting" section, tick the check box to enable the function.
- [2] Enter the floor number of the local Outdoor Station (-7...+63).

× Settings			05:50 Sat 01-12-2018 [€ 28.0°C	\sim	¢	d»	l
Oisplay	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES				
්) Sound		Door Alarn						
Cloud Connections			ion alarm	Tamper proof alarm				
ව _ා Time & Date								
🖘 Access Management		1 _	ontrol Setting elevator controller	Call Forward				
尺 User Settings		Local Floor of C						
。		Z 01						
↓ Intercom List		Wiegand C	output					
Program Button			wiegand output					
ැටූ Advanced Settings		Wiegand Outpo 26 bits	it.	Ť				
🎧 Software Update			r Settings	Outdoor Station Language				
i About		Screen Refresh		Language English	v			
		60 HZ		English				
		Sound						

8.1.16 Viewing the information

Please follow the steps below:

[1] On the "Outdoor Stations" screen, scroll down to view the information.

× Settings	01:55 Sat 01-12-2018 🍙 29.1°C	\sim	С р	⊲»
Oisplay	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES			
් Sound				
🗟 Cloud Connections	Buttons Set-up			
en Time & Date	Courres of Buttons Push button settings			
ං Access Management	Sync Time Sync with SmartAP			
人 User Settings				
。	Device Version Mainboard :			
↓ Intercom List	MCU: HSE07-IC_MCU_V2.07_20240108_MP Serial Number: 2 101807A7F06DAF6(LOK)			
Program Button	Signature : 2 10180/A/F06DAF6(LOK)			
ැටූ Advanced Settings				
${\cal G}$ Software Update	ок			
i About	Update from SD card:			
	Read SD card			
No Description				

NO.	Description
1	Mainboard version and MCU version
2	Serial number
3	Signature

8.1.17 Updating the firmware

The Outdoor Station can be updated the firmware via the panel which supports micro SD card.

Precondition

The Outdoor Station must exit engineering mode before the firmware is upgraded.

Updating the firmware via the panel

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

imes Settings		01	.:15 Sat 01-12-2018 (€ 27.8°C	`	×	⊴ »
① Display	PANEL	ACTUATORS	OUTDOOR STATIONS	TRUSTED DEVICES			
다》 Sound		Buttons Set-	up				
ି Cloud Connections		Columns of Buttons		Y Push button settings			
ூ Time & Date		Sync Time Sync with Sma	artAP	×			
🖘 Access Management							
ററ User Settings		Device Versio Mainboard :	'n				
🖈 Video Surveillance		MCU:					
🔱 Intercom List		NFC :					
Program Button		Serial Numbe Signature :	:r :				
餃 Advanced Settings							
💭 Software Update		ОК					
(i) About		Update fror	n SD card:				
		🗌 Rea	d SD card				
imes Settings		01	.:16 Sat 01-12-2018 (〕 27.8°C	``	× ل	¢»
			OUTDOOR STATIONS	TRUSTED DEVICES			
く) Sound (i) Informati	tion				×		
	om SD card						
ම _ස Time & Date							
← Access Manageme Select	Device	Select Device 2nd OS-01	2	~			
옷 User Settings File na	ıme	IC VI 13 20	240326_PP_N32926_facto	Arima X			
video Surveillance طر			Idcto	,			
♀ Intercom List							
Program Button							
約 約 Advanced Settings				_			
💭 Software Update				4			
(i) About	Cance			Save & Close			
		C Rea	d 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				
© Cloud Connections	,			
စ်္ကာ Time & Date				
Access Manageme	5			
人 User Settings) [] Loading			
😸 Video Surveillance				
0 Intercom List				
Program Button				
ល Advanced Settings				
💭 Software Update				
(i) About				
	Read SD card			
X Settings	01:23 Sat 01-12-2018 🁔 27.8°C	~	Ç,	¢»
Oisplay	01:23 Sat 01-12-2018 👔 27.8°C PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	~	¢	⊲»
	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	~ ×	¢	¢»
Display Sound OUTDOC OUTDOC	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	¢	⊲ »
Display Sound Cloud Connections Time & Date	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	L.	₽
Display D	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	¢	¢»
 Display Sound Cloud Connections Time & Date Access Manageme Juser Settings 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES ttion DR STATIONS	×	¢	√ »
 Display Sound Cloud Connections Time & Date Time & Date Access Manageme Q. User Settings v^b Video Surveillance 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	¢	⊄ »
 Oisplay Sound Informa Cloud Connections Informa OUTDOC Time & Date Access Manageme User Settings Video Surveillance Intercom List 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	ď	<₽
 Display Sound Informa Cloud Connections Unforma OUTDOC Time & Date Access Manageme Access Manageme Video Surveillance Infercom List Program Button 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	¢.	⊲»
Image: Second	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	¢.	⊲⇒
 Display Sound Cloud Connections Cloud Connections Time & Date Time & Date Access Manageme User Settings Video Surveillance Intercom List Program Button Advanced Settings Software Update 	PANEL ACTUATORS OUTDOOR STATIONS TRUSTED DEVICES	×	¢.	⊲∍
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	⊲»

8.2 Configure the settings on "Smart Access Point"

8.2.1 Adding the Outdoor Station



Note

Only an Outdoor Station without a certificate can be added by SmartAP. This Outdoor Station will lose its certificate if its physical address is changed. The Outdoor Station needs to be powered on before being added.

Please follow the steps below:

[1] On the "Main Menu" screen of "Smart Access Point", click "Door Entry System".



- [2] Click "Add Device".
- [3] Select the device type from the drop-down list. It could be set to "Gate station", "Outdoor station" or "Second-confirm station".
- [4] Enter the device address.
- [5] This function is available only when device type is set to "Second-confirm station".
- If the Outdoor Station is installed in the community network, "Installed in the community network" should be enabled.
- [6] Enter the serial number.
- [7] Click "Save".

HOME 🕕 🖓 sos 👔 📜	< DOOR ENTRY SYSTEM >		
0	OUTDOOR STATIONS	ADD DEVICE	LIST VIEW
	ADD DEVICE		Outdoor stations
Outdoor stations	Device type Second-confirm station 3	~	2nd-OS 001-0101-01
8 2nd-OS 001-0101- 01	Device addr.		
Public area	1 4		
	2 ∑ Installed in the community network		Public area
	Serial No. 101807A7F0296C3 6		
	Cancel 7 Save		
E Outdoor station	oor station IP actuator Guard unit Elevator controller		

8.2.2 Accessing the "Outoodr Stations" screen

- [1] On the "Main Menu" screen, click "Door Entry System".
- [2] Click "Outdoor Station".
- [3] Click the designated Outdoor Station to access the corresponding screen.

✓ 10 Fa so	os 👔 🖡		MAIN MENU			
			- y.			
BUILDING STRUCTURE	RF WIRELESS CONNECTION	PLACE + LINK	USER MANAGEMENT	ACTIONS	TIME CONTROL	DOOR ENTRY SYSTEM
Design a building by creating floors and rooms	Configure the devices of the access control system e.g. Cylinder, repeater	Locating and linking devices	Add and edit users. Create user groups	Create and edit actions	Create time control	Configurate door entry system devices, e.g. indoor station, outdoor station
🛔 jacky					Device configura	ation Preferences
HOME 🕦 🗟 SOS		<	DOOR ENTRY SYSTEM	>		
0	OU	TDOOR STATIONS				LIST VIEW
Outdoor stations				(Y	Outdoor station 001-	01 >
B 3	8				2nd-OS 001-0101-0	1 >
Outdoor station 2nd- 001-01	OS 001-0101- 01					
Public area					Public area	
	2					
	Cutdoor station	tion IP actuator	Guard unit Elevator controlle			

8.2.3 Viewing the serial number

Please follow the steps below:

[1] On the designated Outdoor Station screen, go to the "Serial No." section to view the serial number.

HOME 🔟 🗟 SOS 💽 🗜	OOOR ENTRY SYSTEM					
-	Outdoor station 001-01	LIST VIEW				
	A	Device type				
		Outdoor station				
		Physical address				
		Block No.: 1				
		Device No.: 1				
		Serial No.:				
		101807A7F0296C3				
		Version				
	64. Museller	HG005_Digital_V1.53_20240321_PP_CX92755				
		Additional settings				
		Physical address >				
		Door lock setting				
	Settings	3rd party door opener settings				

8.2.4 Viewing the version

Please follow the steps below:

[1] On the designated Outdoor Station screen, go to the "Version" section to view the firmware version.



8.2.5 Configuring the physical address

1. Gate Station

- [1] On the designated Outdoor Station, go to the "Additional settings" section, click "Physical address".
- [2] Go to the "Device type" section, select "Gate Station".
- [3] Enter the device number (01...32).
- [4] Click "Save".



2. Outdoor Station

- On the designated Outdoor Station, go to the "Additional settings" section, click "Physical address".
- [2] Go to the "Device type" section, select "Outdoor Station".
- [3] Enter the block number (001...999) and the device number (01...64).
- [4] Click "Save".

Home 🕕 😼 sos 🏟 🖡	< DOOR ENTRY SYSTEM >	
	Outdoor station 001-01	LIST VIEW Additional sottings Physical address 1 Door lock setting > 3rd party door opener settings > IP address > Time synchronization > Lift control > Surveillance call > Local firmware update >
HOME 🚺 🖓 SOS 🎦 💂	COOR ENTRY SYSTEM	Design label
5	Outdoor station 001-01	LIST VIEW Device type Utidioor station 2 Physical address Block No:: 1 3 Device No.: 1
	Settings	▲ ✓ Save

3. Second-confirm Station

- On the designated Outdoor Station, go to the "Additional settings" section, click "Physical address".
- [2] Go to the "Device type" section, select "Second-confirm Station".
- [3] Enter the physical address.
- [4] Click "Save".

HOME 🕕 🗟 SOS 🕥 🖡	< DOOR ENTRY SYSTEM >	
ā	Outdoor station 001-01	LIST VIEW
	Xt	Additional settings Physical address 1 Door lock setting > 3rd party door opener settings > IP address > Time synchronization > Lift control > Surveillance call > Local firmware update >
	Sottings < DOOR ENTRY SYSTEM >	Design label
HOME 🕕 😼 SOS 👚 🖡		
σ.	Culdor station 001-01	LIST VIEW Device type Second-confirm station 2 Physical address Block No: 1 Floor No: 0 Device No: 1
	Settings	 ▲ ✓ Save

8.2.6 Configuring the IP address

Please follow the steps below:

- On the designated Outdoor Station screen, go to the "Additional settings" section, click "IP address".
- [2] Select the network type, it can set to "DHCP" or "Static address.

Settings

- If "Static address" is selected, you need to enter the IP address manually.
- [3] Click "Save".

HOME 🚺 🗟 SOS 💽 📜	< DOOR ENTRY SYSTEM >		
=	Outdoor station 001-01	LIST VIEW	
	<i>a</i> t	Additional settings	
		Physical address	>
	3:	Door lock setting	>
		3rd party door opener settings	>
		IP address	>
	M. Master	Time synchronization	>
		Lift control	>
		Surveillance call	>
		Local firmware update	>
	Settings	Design label	>
HOME 📵 🗟 SOS 🄃 💂	< DOOR ENTRY SYSTEM >		
	Outdoor station 001-01	LIST VIEW	
	a	IP address	
		рнср 2	~
		IP address 192,168,1,104	
		Subnet mask 255.255.0	_
		Default gateway 192.168.1.1	
		DNS server	
	M. Maafar		

< 3 ✓ Save

8.2.7 Configuring the lock

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Door lock setting".
- [2] Set the lock type of default lock, it can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If "IP Actuator" is selected, you need enter the device number of IP Actuator of select the designated IP Actuator.
- [3] Set the lock type of subsidiary lock, it can be set to "Lock-GND", "NO-NC-COM" or "IP Actuator".
- If "IP Actuator" is selected, you need enter the device number of IP Actuator of select the designated IP Actuator.
- [4] Set the unlock time for "Lock-GND".
- [5] Set the unlock time for "Relay lock".
- [6] Click "Save".

HOME 🚺 🖓 SOS 💽 🖡	< DOOR ENTRY SYSTEM >		
	Outdoor station 001-01	LIST VIEW	
	<i>a</i>	Additional settings	
		Physical address	>
	- (3) : - (3) :	Door lock setting	>
		3rd party door opener settings	>
	M Mater	IP address	>
		Time synchronization	>
		Lift control	>
		Surveillance call	>
		Local firmware update	>
	Settings	Design label	>



8.2.8 Configuring the "Time sync" function

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Time synchronization".
- [2] Tick/untick the check box to enable/disable the function.
- If the function is enabled, the Outdoor Station will sync the time from the management software.
- [3] Click "Save".

HOME 🕕 😼 SOS 🕥 🖡	< DOOR ENTRY SYSTEM >	
-	Outdoor station 001-01	LIST VIEW
	a	Additional settings
		Physical address >
		Door lock setting
		3rd party door opener settings
	The second s	IP address >
	M. Muster	Time synchronization
		Lift control >
		Surveillance call
		Local firmware update
	Settings	Design label >



8.2.9 Configuring the lift

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Lift control".
- [2] Tick the check box to enable the function.
- [3] Enter the floor number of the local Outdoor Station (-7...+63).
- [4] Click "Save".

HOME 📵 😼 SOS 💽 🗜	< DOOR ENTRY SYSTEM >	
=	Outdoor station 001-01	LIST VIEW
	<i></i>	Additional settings Physical address
		Door lock setting > 3rd party door opener settings >
	M Mater	IP address > Time synchronization >
		Lift control
		Surveillance call
	*	Local firmware update
	Settings	Design label
HOME 🚺 Fa SOS ᡗ 💂	C DOOR ENTRY SYSTEM	
53 	Outdoor station 001-01	LIST VIEW Lift control Floor No. of OS installed T
	Settings	 ▲ 4 ✓ Save

8.2.10 Configuring the "Surveillance call" function

- [1] On the designated Outdoor Station screen, go to the "Additional settings" section, click "Surveillance call".
- [2] Tick the check box to enable the function.
- [3] Click "Save".

HOME 🕕 😼 SOS 🏟 🖡	< DOOR ENTRY SYSTEM >	
	Outdoor station 001-01	LIST VIEW
	æ	Additional settings Physical address Door lock setting
		3rd party door opener settings
	V. Mater	Time synchronization
	land in the second	Lift control
	*	Local firmware update
	Settings	Design label
HOME 🕕 😼 SOS 안 💂	< DOOR ENTRY SYSTEM >	
	Outdoor station 001-01	LIST VIEW Surveillance call Deactivate for all Activate for all
	بر Settings	Save

8.2.11 Configuring the trusted devices

If you want to release the lock on the Outdoor Station, you need to check:

- The Indoor Station and the Outdoor Station have been signed on "Smart Access Point".
- The Indoor Station has been added on the trusted list on the Outdoor Station.

Please follow the steps below to add the trusted device:

- [1] On the designated Outdoor Station screen, click "List of trusted devices".
- [2] Click "Add trusted devices".



- [3] Select the designated Indoor Stations to trusted list.
- [4] Click " \checkmark " to confirm.
- [5] [Optional] You need to enable the "Trust this management software" function if you want this Outdoor Station to unlock in the event of an emergency.
- [6] Click "Save".



8.2.12 Updating the firmware

1. Local firmware update

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

HOME 🕕 🗟 SOS 🏚 🖡	DOOR ENTRY SYSTEM	
B	Outdoor station 001-01	LIST VIEW
	A Water Water Strings	3rd party door opener settings > IP address > IP address > Time synchronization > Lift control > Surveillance call > Local firmware update > Design label > Online firmware update > List of trusted devices >
Home 🕕 💀 sos 🕐 👢	COOR ENTRY SYSTEM	
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		LIST VIEW
	Outdoor station 001-01	
	Outdoor station 001-01 End User License Agreement A88 End User License Agreement (FULA') Invertrim: REASE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT	Local firmware update
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	Outdoor station 001-01 End User License Agreement A88 End User License Agreement INPORTNAT: PLEASE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE CONTINUING WITH THIS PHOGRAM INSTALL This End User Uservie Agreement (EULIA') is a beat agreement tenseres true (other an individual or a	Local firmware update Firmware update file CifakepathiENC_HD005_HG005_V1.53_20240321 Browser 2 Firmware signature file CifakepathiENC_HD005_HG005_V1.53_20240321
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- [6] Update status will be displayed.
- [7] Click "Close" when the update is completed.

HOME 🕕 🙉 SOS 🏚 📕	OOOR ENT	RY SYSTEM	
	Outdoor station 001-01		LIST VIEW
	a		Device type
	Firmware update		
	Device ID Update progr	ress Device update status	
	Outdoor station 001-01	100% 6 Update completed	Block No.: 1
		0	Device No.: 1
			Serial No.:
			Version
	7		
		ose	Physical address >
	1		Door lock setting
	Settings		3rd party door opener settings

2. Online firmware update

- [1] On the designated IP Actuator 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 💽 🖡	C DOOR ENTRY SYSTEM	
=	Outdoor station 001-01	LIST VIEW
	<i>a</i>	3rd party door opener settings
		IP address
		Time synchronization >
	The statement of the	Lift control
	M Marker	Surveillance call
		Local firmware update
		Design label
	×	Online firmware update
	Settings	List of trusted devices >
L		
HOME 🚺 🖓 SOS 👔 🖡	< DOOR ENTRY SYSTEM >	
HOME 🕦 🗟 SOS 🕐 🗜	OUtdoor station 001-01	LIST VIEW
		LIST VIEW Online firmware update Current software version:
	Outdoor station 001-01	Online firmware update Current software version: HG005_Digital_V1.59_20240321_PP_CX92755 2
	Outdoor station 001-01	Online firmware update Current software version:
	Outdoor station 001-01	Orline firmware update Current software version: HG005_Digital_V1.53_20240321_PP_CX92755_22 New firmware
	Outdoor station 001-01	Orline firmware update Current software version: HG005_Digital_V1.53_20240321_PP_CX92755_22 New firmware
	Outdoor station 001-01	Orline firmware update Current software version: HG005_Digital_V1.53_20240321_PP_CX92755_22 New firmware
	Outdoor station 001-01	Orline firmware update Current software version: HG005_Digital_V1.53_20240321_PP_CX92755_22 New firmware

8.3 Card management

The chapter applies to the Outdoor Station integrated with IC card reader.



Note

It is recommended that IC cards are created and maintained using local Outdoor Station or management software only.

1. Card management on local Outdoor Station

Initiate status

When the device is powered on the first time, all 3 indicators flash in red, orange & green.

Create admin card

The first card swiped after powering up the device within 60 seconds will be as the admin card.

Function	Action	Unlock indicator
Create admin card	Swipe card 1x	Green

Enter settings

In standby status, swipe the admin card once to enter the settings.

Function	Action	Unlock indicator
Enter settings	Swipe admin card 1x	Orange

Normal settings

After entering the settings, following functionalities can be implemented:

Function	Action	Unlock indicator
Enrol user	Swipe admin card 1x	Orange flashes 1x
	Swipe user card 1x	Green
Delete user	Swipe admin card 2x	Orange flashes 2x
	Swipe user card 1x	Green
Enrol new admin	Swipe admin card 3x	Orange flashes 3x
	Swipe new admin card 1x	Green
Delete admin	Swipe admin card 4x	Orange flashes 4x
	Swipe other admin card 1x	Green
Delete all users	Swipe admin card 5x	Orange flashes quickly
	Swipe admin card 1x	Green

During setting, please swipe the same admin card.

Function	Action	Unlock indicator
Exit settings	Swipe admin card 1x or no cards swiped within 15 seconds	

Function	Action	Unlock indicator
Open a door	Swipe the enrolled keycard	Green

Technical data of IC card

Operating frequency	13,56 MHz
Standard	ISO 14443A
Support card	Mifare one S50/S70, Mifare desfire EV1/EV2
Output format	Wiegand 26/34 bit



Note

A maximum of 5000 IC cards can be supported if the device type of the Outdoor Station is set to "OS".

A maximum of 40,000 IC cards can be supported if the device type of the Outdoor Station is set to "GS".

2. Card management on management software

Please see the "Management software" product manual for more details.

8.4 Restoring to factory default

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



9 Operation

9.1 Calling a resident

Press the button to start a call (default) and press again to restart the call.



9.2 Calling a guard unit

If the outdoor station has been configured via the indoor station, we can press the pushbutton to call the designated guard unit. Please refer to the product manual for the IP touch.



9.3 Turn on a light

If the outdoor station is configured by the indoor station, we can press the pushbutton to switch on the light connected to the IP actuator. Please refer to the product manual for the IP touch.



10 Cyber security

10.1 Disclaimer

H81381P.-. products are designed to be connected and to communicate information and data via a network interface, which should be connected to a secure network. It is customer's sole responsibility to provide and continuously ensure a secure connection between the product and customer's network or any other network (as the case may be) and to establish and maintain appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, etc.) to protect the H81381P.-. product, the network, its system and interfaces against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information. Busch-Jaeger and its affiliates are not liable for damages and/or losses related to such security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information.

Although Busch-Jaeger provides functionality testing on the products and updates that we release, you should institute your own testing program for any product updates or other major system updates (to include but not limited to code changes, configuration file changes, third party software updates or patches, hardware change out, etc.) to ensure that the security measures that you have implemented have not been compromised and system functionality in your environment is as expected.

10.2 Performance and service

Network performance

Туре	Value
Ethernet	24 Mbps (37,449 packets/sec)
ARP	12 Mbps (18,724 packets/sec)
ICMP	22 Mbps (34,328 packets/sec)
IP	22 Mbps (34,328 packets/sec)

Port and service

Port	Service	Purpose
5070	UDP	To be used by SIP client.
7777	TCP/UDP	To be used for device management.
10777	TLS	Secure channel for device management
7005	ТСР	To be used for connectivity detection when this feature is enabled.
8887	ТСР	To be used for firmware update.

10.3 Deployment guideline

All devices need to work in security mode by default and. all devices in one system shall be signed by a public CA at commissioning stage, normally management software works as CA.

It's suggested that compatible mode only to be used when device needs to communicate with previous generation products. In this mode, data transmission between devices are not encrypted, it may lead to data leaks and has the risk of being attacked.

When user decide to remove the device from system, user shall reset the device to factory setting in order to remove all the configuration data and sensitive data in the device. This will prevent sensitive data leak.

It is recommended to apply "MAC filter" and "Rate limiter" in the switch to prevent DOS attack.

10.4 Upgrading

Device supports firmware updates via management software, a signature file will be used to verify the authentication and integrity of firmware.

10.5 Backup/Restore

None.

10.6 Malware prevention solution

The H81381P.-. device is not susceptible to malware, because custom code cannot be executed on the system. The only way to update the software is by firmware upgrades. Only firmware signed by Busch-Jaeger can be accepted.

10.7 Password rule

The user must change the engineering password when accessing the engineering settings for the first time. This engineering password must not include continuously increasing or decreasing numbers (e.g. 123456, 654321), and three consecutive identical numbers are similarly not permitted (e.g. 123444, 666888).

11 Notice

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