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Self-Organizing Network Solution for Community Projects

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Overview and Topology

Akuvox devices can be deployed quickly in a community project, achieving easy calling, monitoring, and unlocking when devices have no internet.

When devices access the internet, they can be easily uploaded to the SmartPlus Cloud with the AK-Partner App.

Note

Currently, the following devices with specific firmware versions or higher support being deployed in the self-organizing network solution:

Door Phones:

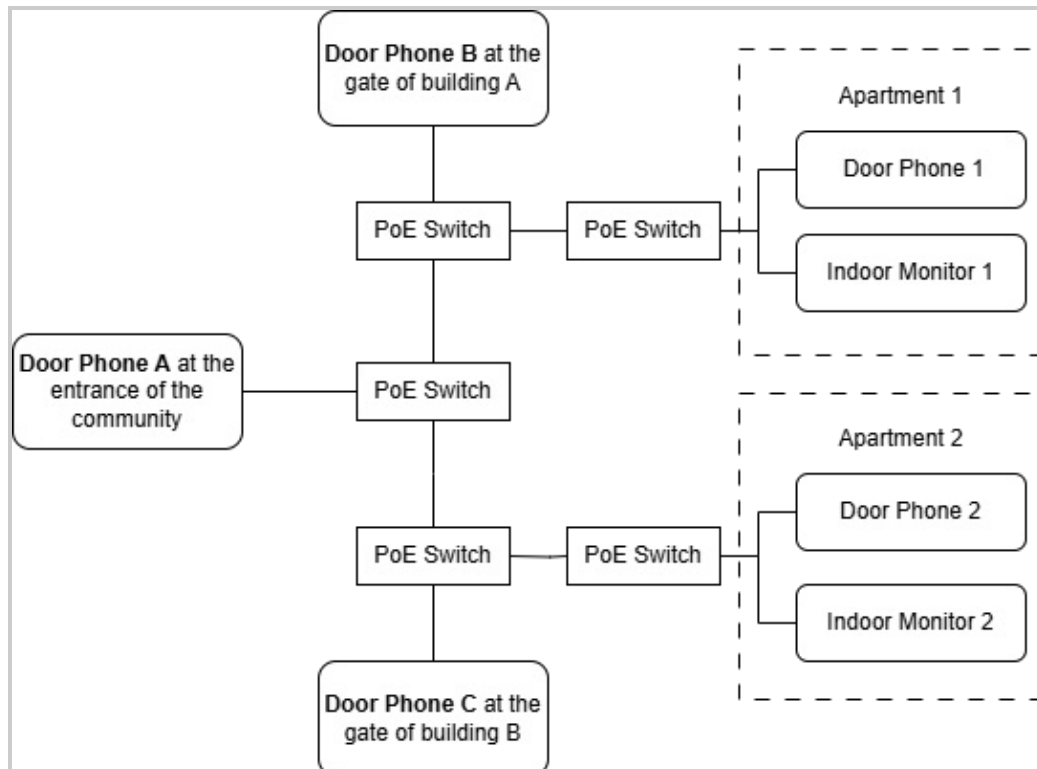
- S532: 532.30.10.233
- R28 V2.0: 228.30.10.203
- R20 V5.0/R20 V5.0-2: 320.30.11.12
- E12 V2: 312.30.10.241

Indoor Monitor:

- C313W V2-2: 212.30.15.58
- C313W V3: 313.30.15.211
- C313W-LP-2: 311.30.15.86
- S562W: 562.30.15.24

Topology

The topologies are for reference. Wiring may vary by actual situation.

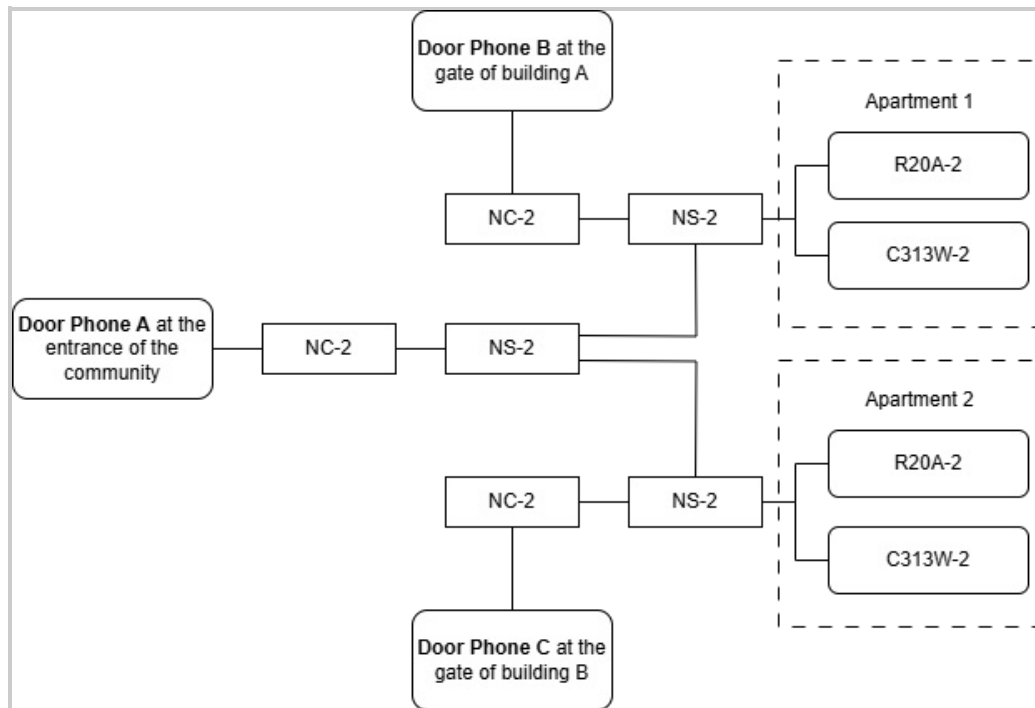


Topology For Two-wire Devices

Two-wire devices can be connected through NS-2.

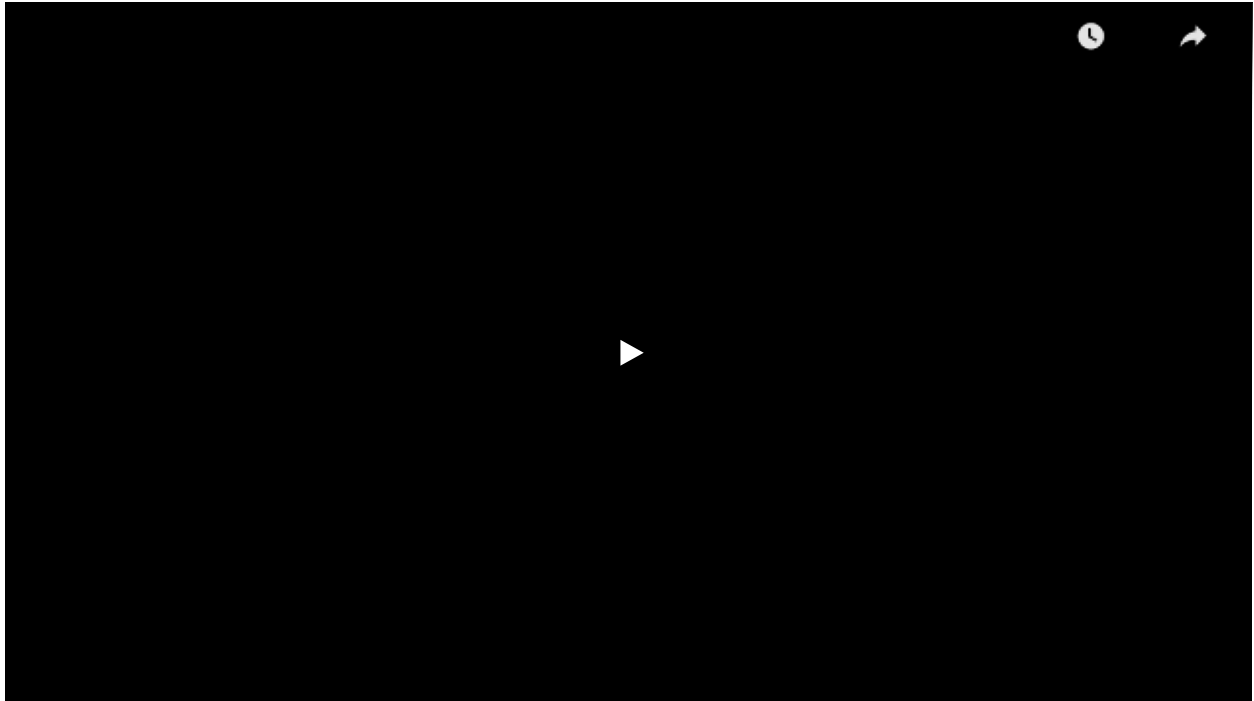
Note

Please click [here](#) to watch the video of connecting two-wire devices.



On-Premise Deployment

You can refer to the video or text instructions.



Video Outline:

0:00--Overview

1:00--Connection

1:30--Set the Door Phone in Public Area

2:30--Set Indoor Monitors and Door Phones in Apartments

Before You Start

Make sure all devices are installed and powered on properly, and on the same local network(LAN).

Set the Door Phones in Public Areas

The building number of door phone A will be **0** by default, installed at the community entrance, which does not require extra configuration for basic calling, unlocking, and monitoring.

If the community only has one building, the building number of door phone B will be **1** by default. You do not need to change this setting.

If there are multiple buildings, you need to set up the building numbers on the device's screen or its web interface,

Note

The following models with specific firmware versions or higher support changing location information on their screens.


- S532: 532.30.10.263
- R28 V2: 228.30.10.233

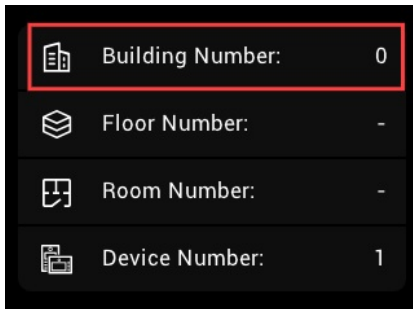
On the Device Screen

S532

1. Press *2396#.
2. Press 3 to enter system settings.
3. Press 3 to enter the location settings.

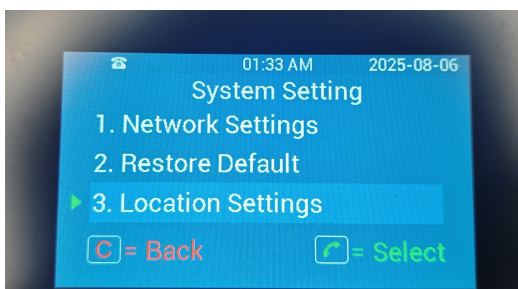




4. Change the building number based on the device location. The value range is 0-9 without DHCP; 0-99 with DHCP.
- Press C to return to the last page, and the setting will not be saved.
 - Press # or  to save the setting.



R28

1. Press *2396#.
2. Press 3 to enter system settings.
3. Press 3 to enter the location settings.

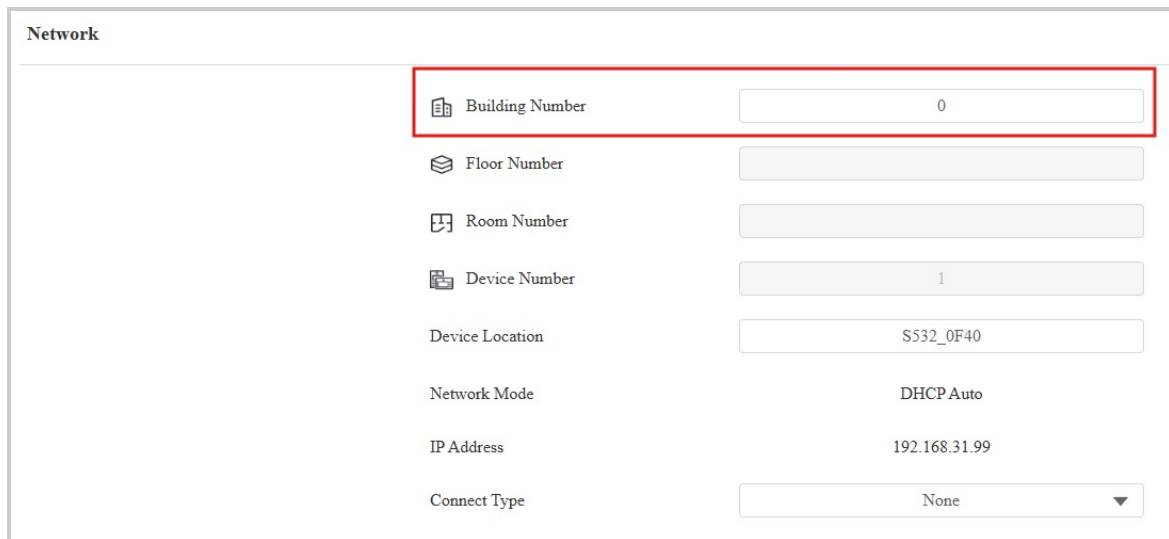






4. Change the building number based on the device location. The value range is 0-9 without DHCP; 0-99 with DHCP.
- Press **C** to return to the last page, and the setting will not be saved.
 - Press  to delete the entered value.
 - Press  to save the setting.



On the Web Interface

1. Use the device IP to log in to its web interface. The initial username and password are both admin.
2. Click **Quick Start** and change the building number based on the device location.

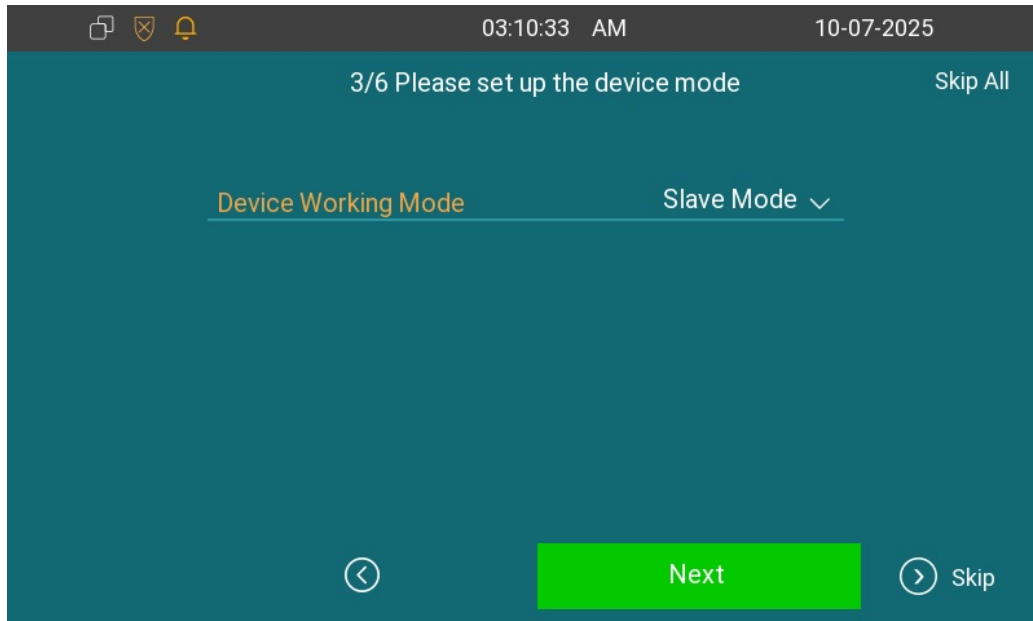


Network	
 Building Number	0
 Floor Number	
 Room Number	
 Device Number	1
Device Location	S532_0F40
Network Mode	DHCP Auto
IP Address	192.168.31.99
Connect Type	None ▼

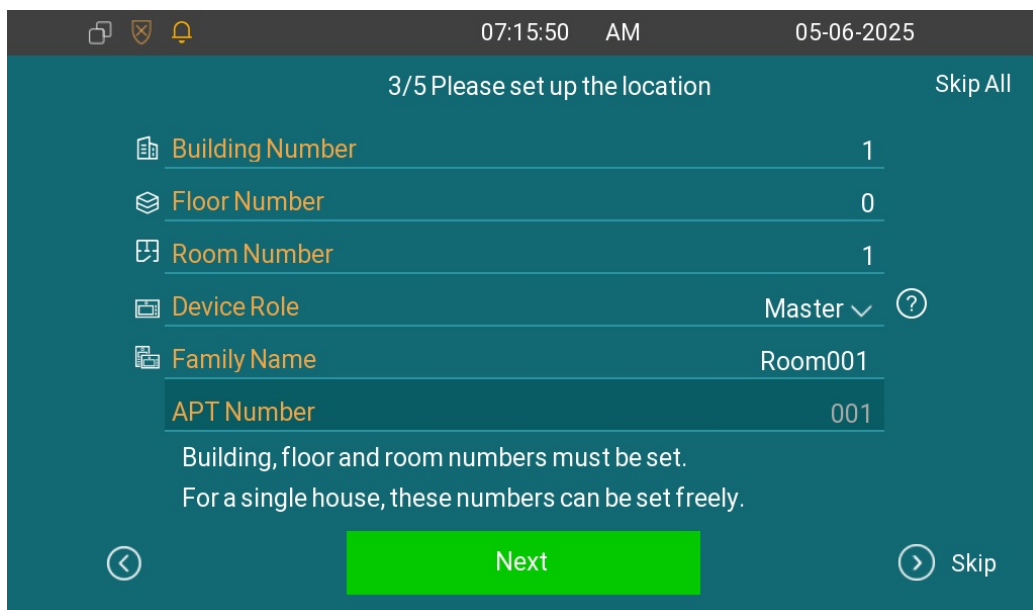
Set Indoor Monitors and Door Phones in Apartments

The indoor monitor and door phone installed in each apartment need to be paired up in the solution.

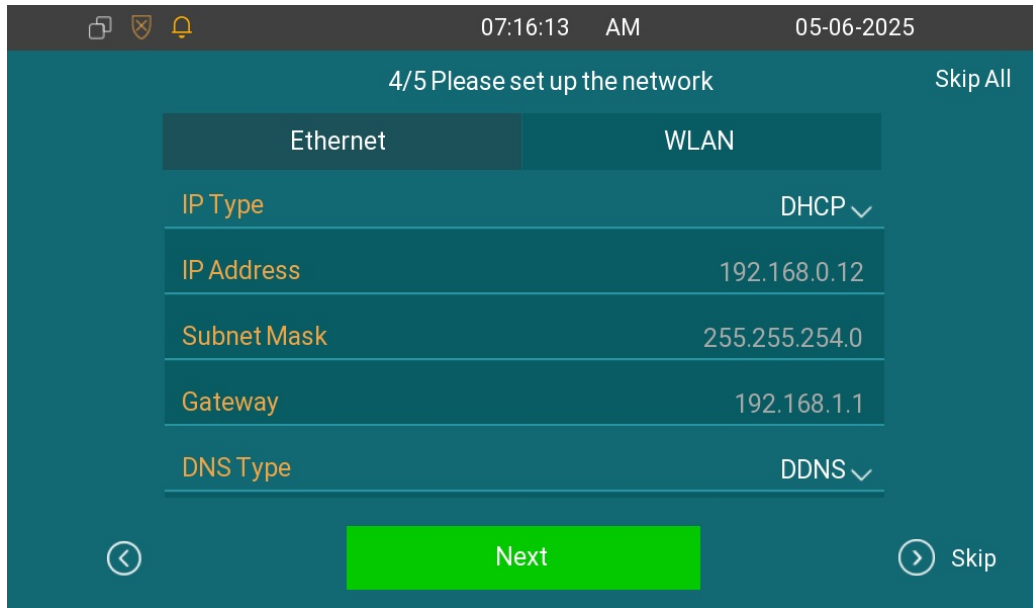
1. Select the device language and time zone on the device's initial setup screen.
2. Tap Next. For the C313W-2, you need to choose the device working mode. Set it to **Slave Mode** since NS-2 works in Master Mode. If it is not a 2-wire device, simply skip this step.



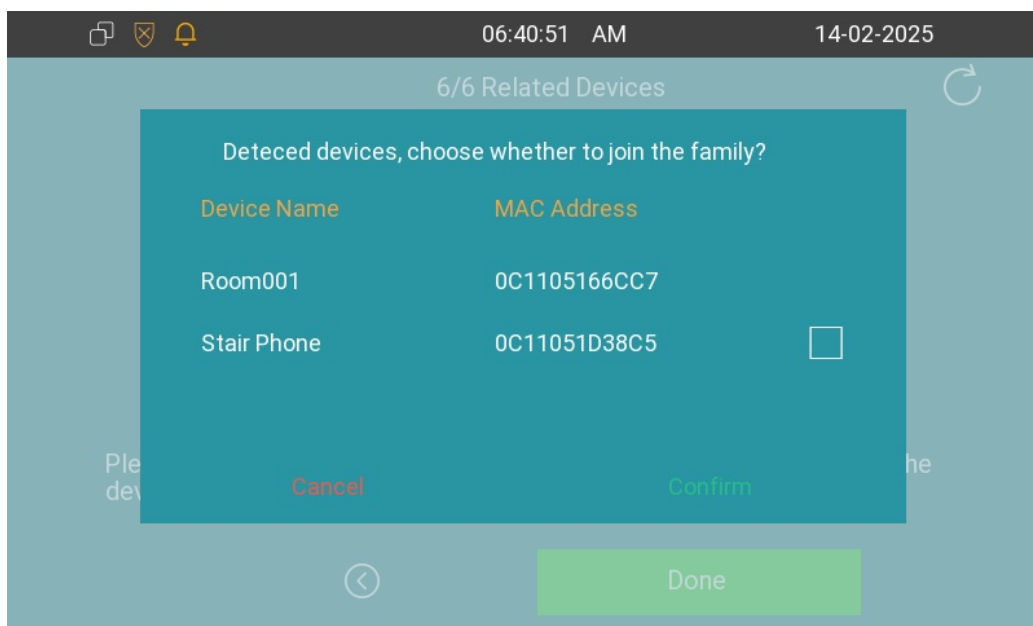
3. Set the device location and set its device role. If only one indoor monitor is installed in an apartment, designate it as the **Master**. In this case, it will be the main device where users scan the QR code and register the SmartPlus account. When the device is in **Slave** mode, select the device number ranging from 1 to 8.



4. Tap Next to set up the network.

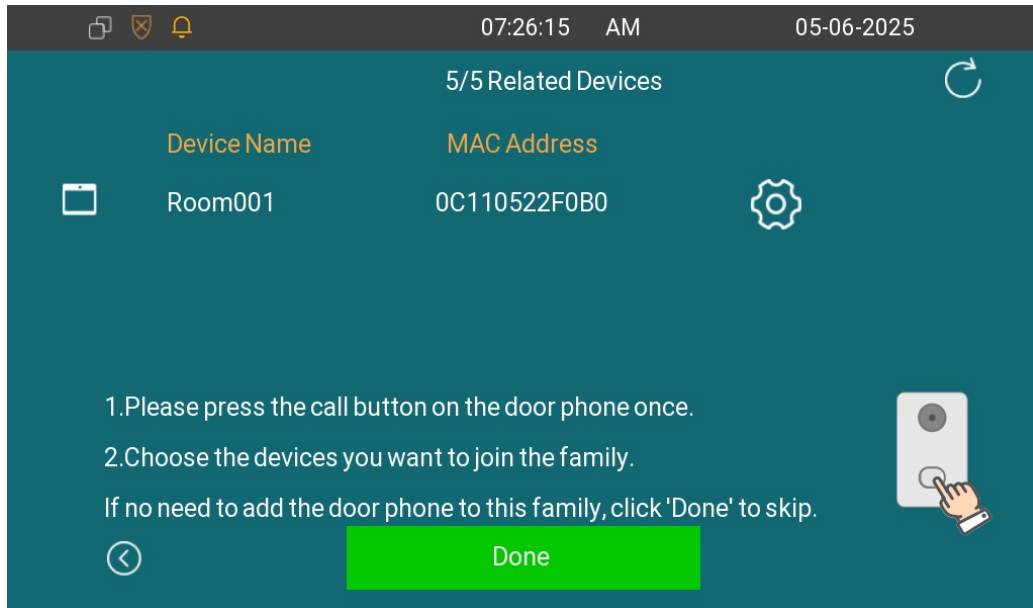


5. Tap Next. The indoor monitor will scan the devices on the same LAN as it.
At the moment, the door phone will play a “ding” sound, indicating that it is in the pairing mode.
6. Press the push button of the door phone in 5 minutes.
7. Check the door phone and tap Confirm.



When pairing succeeds, “family sent successfully” will display on the device screen.

8. Tap **Done** to finish the setup.



The indoor monitor will display as a contact on the door phones' **Quick Start > Auto-Discovery Contact List** interface.

R20A

Auto-Discovery Contact List			
Index	Family Name	Family Dial Number	IP
1	Room001	001	192.168.35.221
2			
3			
4			
5			
6			
7			
8			
9			
10			
<div> Page 1 Prev Next </div>			

S532

Auto-Discovery Contact List			
Show LCD Auto-Discovery Contact List <input checked="" type="checkbox"/>			
Index	Family Name	Family Dial Number	IP
1	Room001	1#001	192.168.35.221
<div> Total:1 Prev 1/1 Next Go To Page 1 Go </div>			

Repeat the above steps until indoor monitors and door phones in all rooms are configured.

Note

Based on different models and their installation locations, the ways to call the indoor monitors are different.

At the Apartment Door:

- R20A: Press the push button.
- R20K: Enter the room number and press the Call button.

At the Building Gate:

- R20K/R28/S532: Enter the *[floor number+room number]* e.g. 001 and press the Call button.

At the Community Entrance:

- R20K/R28/S532: Enter the *[building number#floor number+room number]* e.g. 1#001 and press the Call button.

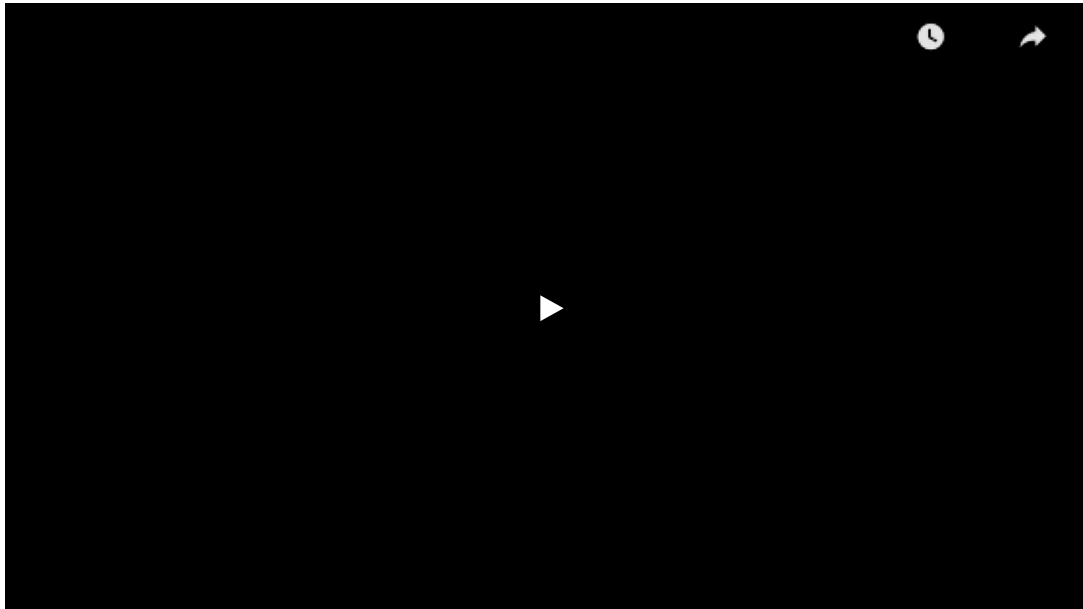
SmartPlus Cloud Deployment

You can upload devices to the SmartPlus Cloud with the [AK-Partner installer app](#) after they are properly set up locally and have internet access.

Note

- The AK-Partner's version should be 1.0.6(Android)/1.0.4(iOS) or higher.
- The following device with specific firmware version or higher supports this feature.
 - C313W-LP-2: 311.30.15.231
 - C313W V3: 313.30.15.504
 - S562W: 562.30.15.24
 - R28 V2: 228.30.10.233
- Make sure all devices are added to your distributor's MAC library before operation.

Please refer to the video or text instructions.



0:00--Overview

1:15--Upload indoor monitors and door phones in apartments

2:14--Upload door phones in the public area

2:53--For end users: register SmartPlus accounts

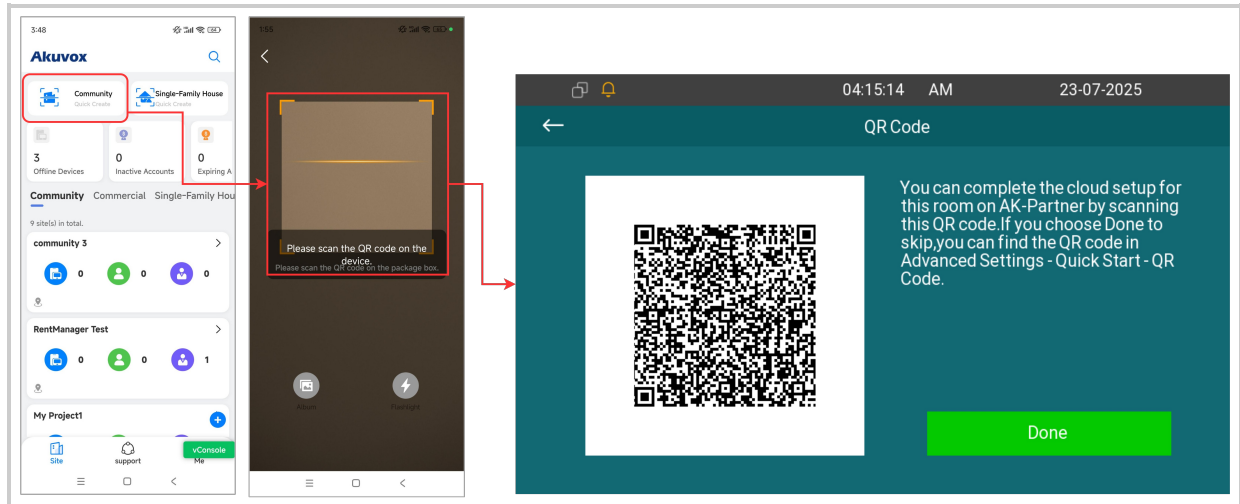
3:25--Feature demonstration

Upload Indoor Monitors and Door Phones in Apartments

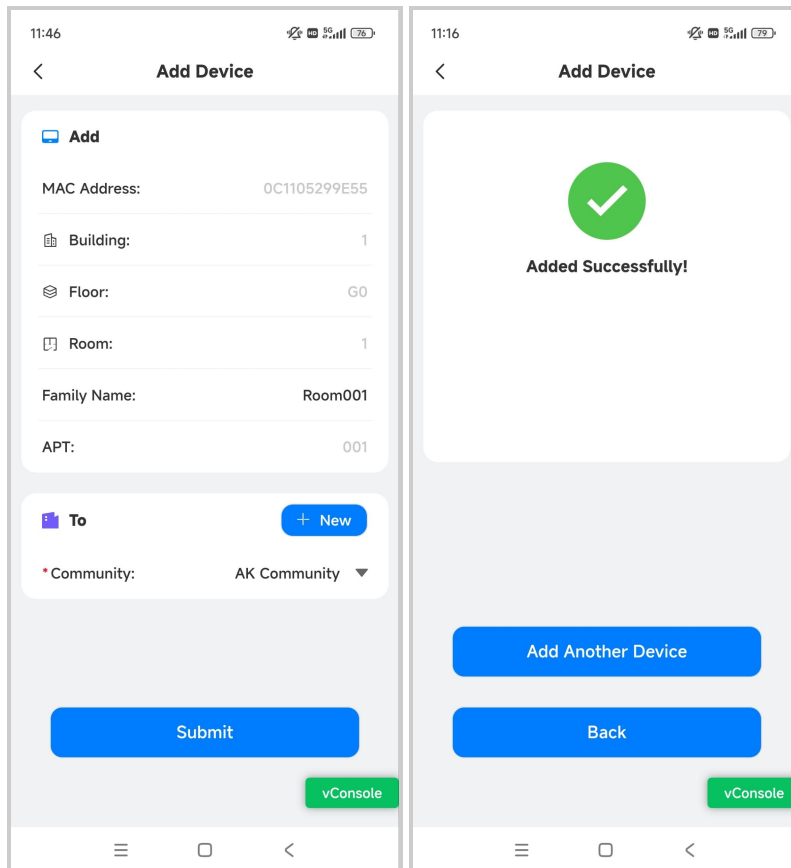
- A QR code will display on the indoor monitor after you finish setting it up and it accesses the Internet. Scan the QR code with AK-Partner to add the device. Once the indoor monitor is added to the cloud, all devices paired with it in the room will also be uploaded.
- If you skip this step on the initial setup, you can find the QR code on the **Advanced Settings > Quick Start > QR Code** screen.

On the Initial Setup Screen

1. Tap **Community Quick Create** on the AK-Partner App's homepage.
2. Scan the QR code on the indoor monitor.

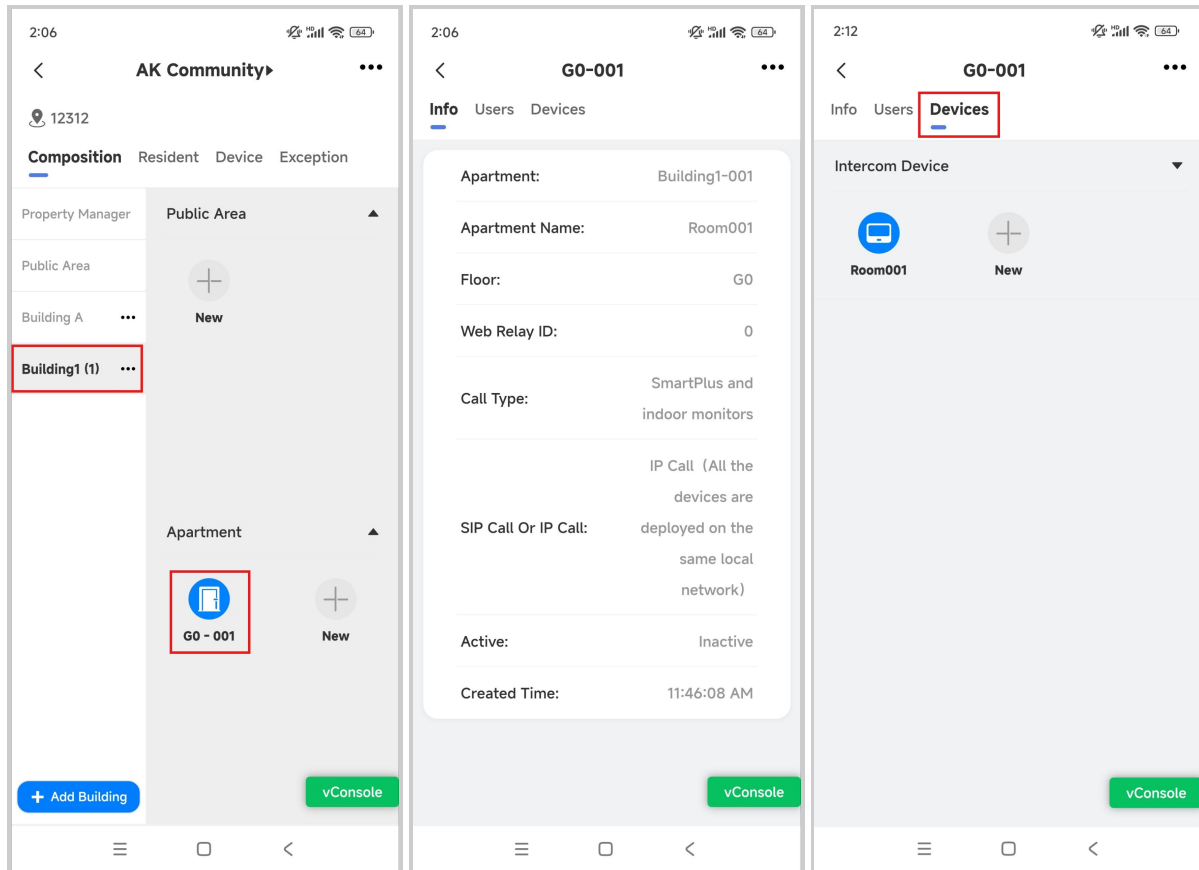


3. Select the community on the app. You can tap **+New** to create a new community. Click [here](#) to view the instructions on creating a community.
4. Tap **Submit**. Added successfully will display. You can tap **Add Another Device** to keep adding devices to the cloud. Or, tap **Back** to return to the homepage.




Tap the community name on the homepage. A default building and an apartment are created.

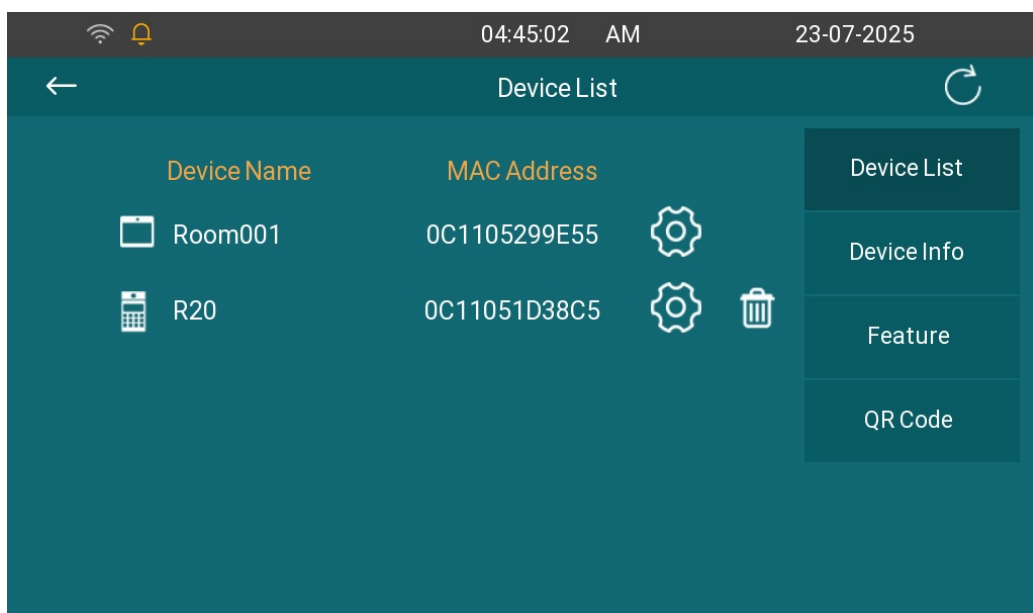
You can tap the apartment to view its information and select **Devices** to check the device just added.



On the Quick Start Screen

On the **Quick Start** screen, you can check the device list, device information, discover private door phones, and upload devices to the cloud by scanning a QR code.

1. Tap **More > Settings > Advance**. The default password to access advanced settings is 123456.
2. Tap **Quick Start**. where you can check the device list. Tap  to modify device settings.



3. Tap **Device Info** to modify building and room numbers.

← Please set the building and room numbers

Building Number	1
Floor Number	0
Room Number	1
Device Role	Master
Family Name	Room001
APT Number	001

- Device List
- Device Info
- Feature
- QR Code

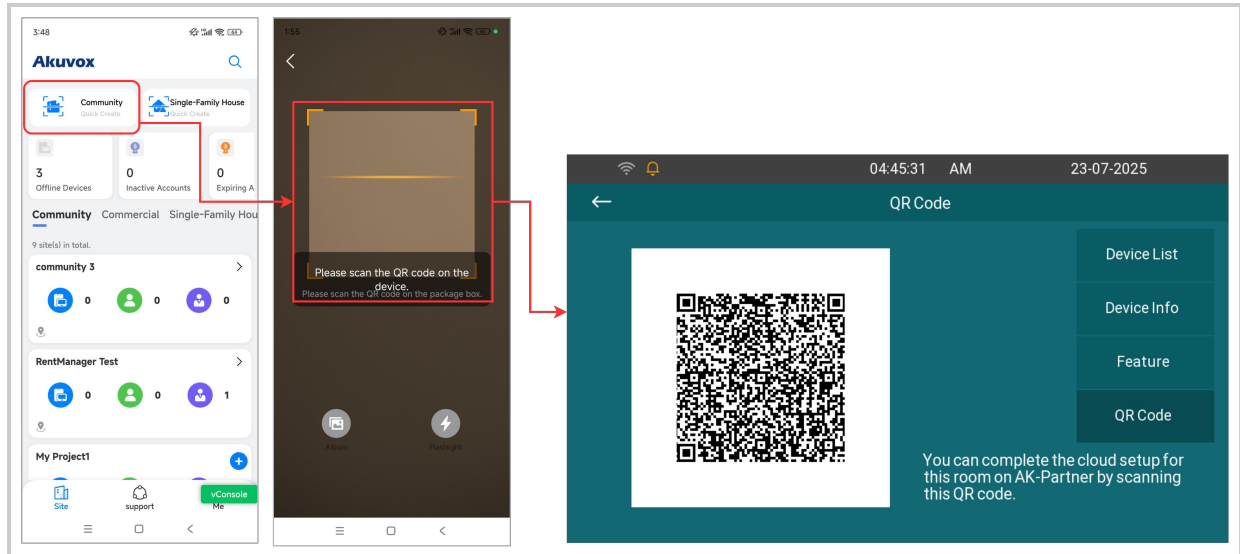
4. Tap **Feature**. Check **Discovery Private Door Phone** to scan and add door phone(s) on the same LAN. One family can have up to 9 private door phones.

← Setting

Discovery Private Door Phone ☒

- Device List
- Device Info
- Feature
- QR Code

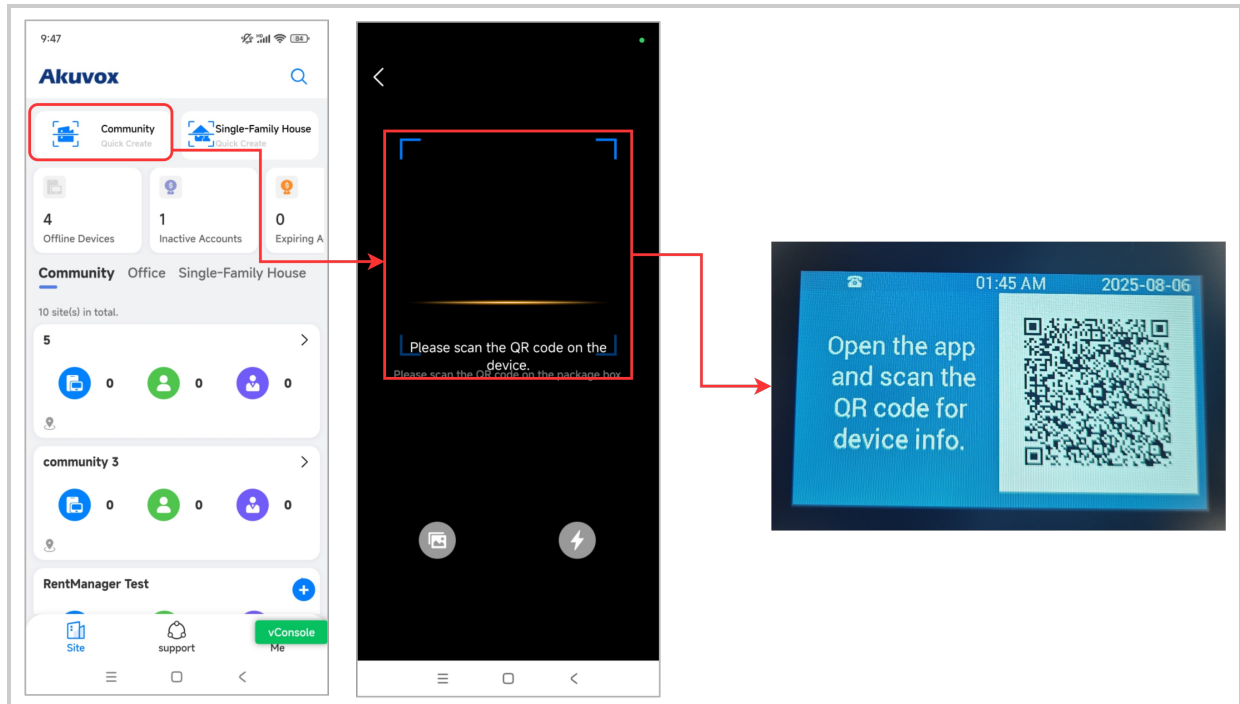
5. Tap **QR Code**. Scan the QR code with the AK-Partner App to [create the apartment on the cloud and add the device](#).



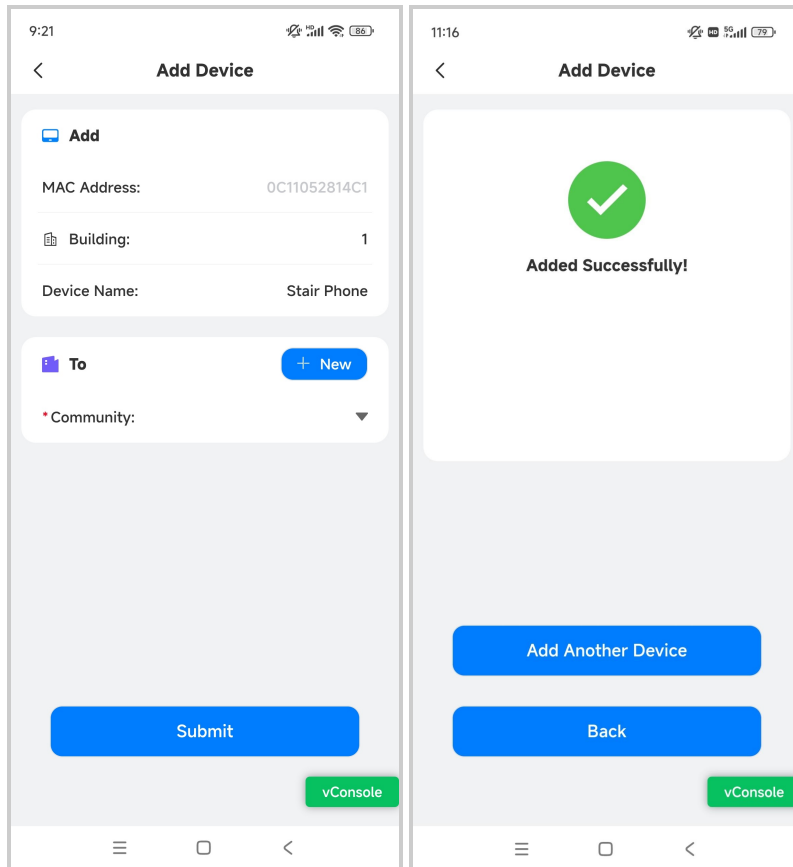
Upload Door Phones in Public Area

Scan the QR code on the door phone with the AK-Partner App. Currently, R28 V2 with version 228.30.10.233 or higher supports this feature.

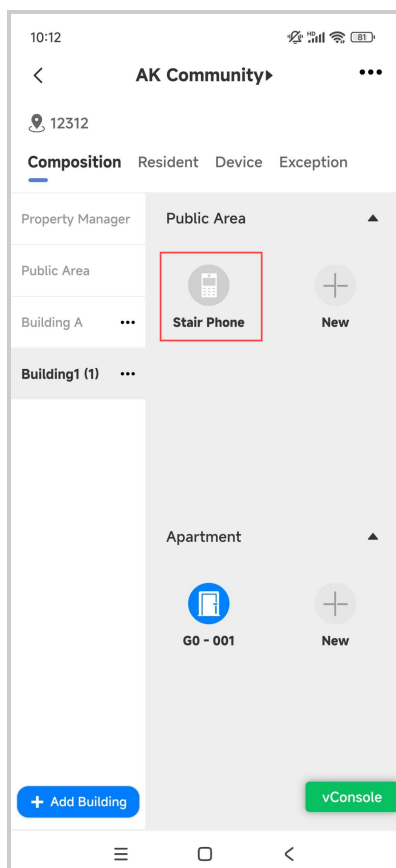
1. Press *2396# on the door phone.
2. Press **4** to display the QR code.
3. Tap **Community Quick Create** on the AK-Partner App's homepage.
4. Scan the QR code on the door phone.



5. You can change the building number and device name on the app.
6. Select the community. You can tap **+New** to create a new community. Click [here](#) to view the instructions on creating a community.
7. Tap Submit. Added successfully will display. You can tap **Add Another Device** to keep adding devices to the cloud. Or, tap **Back** to return to the homepage.

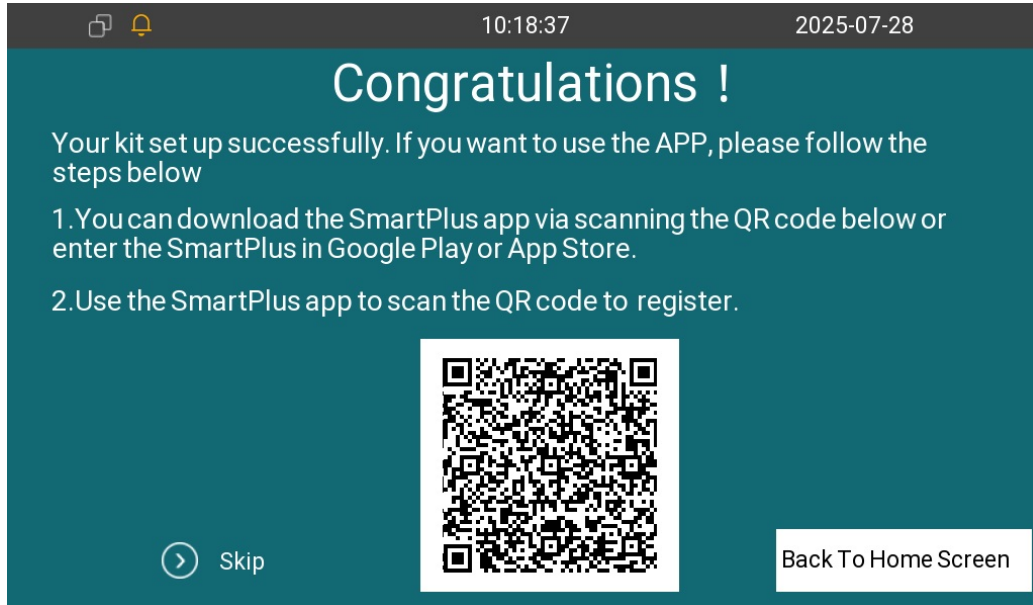


Tap the community name on the homepage and tap the building where the device is installed. You can see that the device is added.

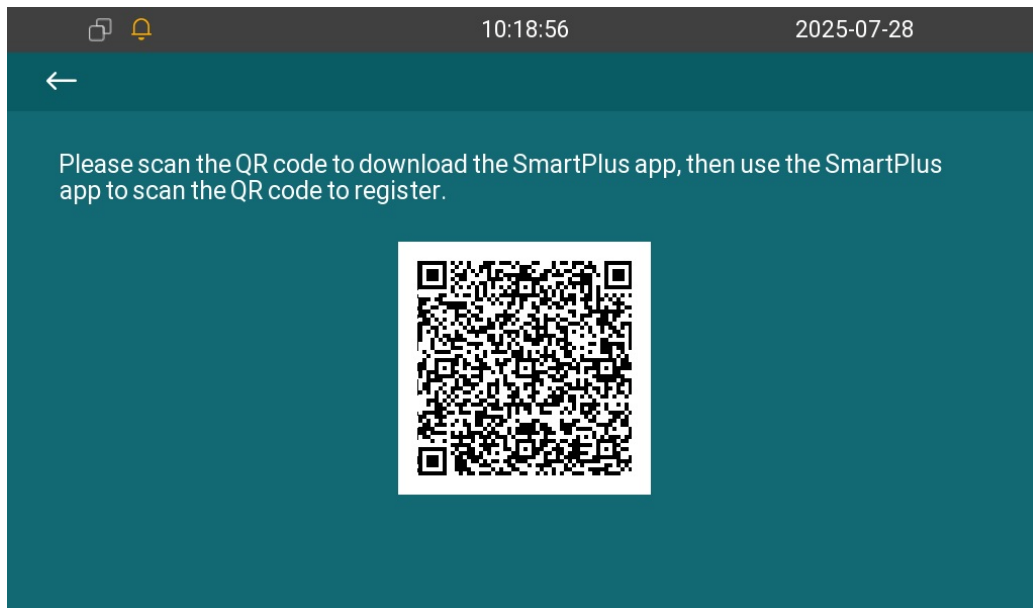


For End Users: Register SmartPlus Accounts

You can register SmartPlus accounts by scanning a QR code on the indoor monitor once it is connected to the SmartPlus Cloud. If you skip this step, you can find the QR code on the **More > Settings > SmartPlus Account** screen.




The Initial Setup Screen



SmartPlus Account Screen

Scan the QR code with your SmartPlus App and fill in the information for registration.

10:22



Registering Account

First Name

Last Name

Email

Country / Region

Mobile Number

Submit