



# **X915 SERIES DOOR PHONE**

## **Administrator Guide**

# About This Manual

Thank you for choosing the Akuvox X915 series door phone. This manual is intended for the administrators who need to properly configure the door phone. This manual applies to version 915.30.1.408, and it provides all the configurations for the functions and features of the X915 series door phone. Please visit the Akuvox forum or consult technical support for any new information or the latest firmware.

# Introduction of Icons and Symbols

## Note

- Informative information and advice from the efficient use of the device.

# Related Documentation

You are advised to refer to the related documents for more technical information via the link below:

<https://knowledge.akuvox.com>

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## 1 Product Overview

Akuvox X915 series products are Android-based IP video door phones with touch screens. It incorporates audio and video communications, access control, and video surveillance. Its finely tuned Android OS, Cloud, and AI-based communication technology allow featured customization to better suit your operation habit. X915 series multiple ports, such as RS485 and Wiegand ports, can be used to easily integrate external digital systems, such as elevator controllers and fire alarm detectors, helping to create a holistic control of the building entrance and its surroundings and giving you a great sense of security via a variety of access such as card access, NFC, Bluetooth, QR code and newly added voice control door access in an accompaniment with body temperature measurement. X915 series door phones are applicable to residential buildings, office buildings, and their complex.

## 2 Change Log

The change log will be updated here along with the changes in the new software version.

### 3 Model Specification

|                            | X915S   |
|----------------------------|---|
| <b>Model &amp; Feature</b> |  |
| <b>Display</b>             | 8 Inch IPS LCD  |
| <b>Touch Screen</b>        | √   |
| <b>Button</b>              | X   |
| <b>Housing Material</b>    | 316 grade stainless steel and Aluminum  |
| <b>Relay In</b>            | 3   |
| <b>Relay Out</b>           | 3   |
| <b>Alarm In</b>            | X   |
| <b>RS485</b>               | √   |
| <b>PoE</b>                 | POE+  |
| <b>Resolution</b>          | 1280x800  |

|                              |                   |
|------------------------------|-------------------|
| <b>Brightness</b>            | 650nits           |
| <b>RAM</b>                   | 2G                |
| <b>ROM</b>                   | 16G               |
| <b>Card Reader</b>           | 13.56MHZ & 125KHZ |
| <b>Wi-Fi</b>                 | X                 |
| <b>Bluetooth</b>             | √                 |
| <b>IP Rating</b>             | IP65              |
| <b>IK Rating</b>             | IK10              |
| <b>Temperature detection</b> | Optional          |
| <b>Face recognition</b>      | √                 |
| <b>LTE</b>                   | X                 |
| <b>USB</b>                   | X                 |
| <b>External SD card</b>      | X                 |
| <b>Wall Mounting</b>         | √                 |
| <b>Flush Mounting</b>        | √                 |
| <b>Desk Mounting</b>         | X                 |

|  |                |
|--|----------------|
| <b>Wall Mounting Dimension</b>                   | 350x130x41.6mm |
| <b>Wall Mounting Dimension</b>                   | 350x130x53.9mm |
| <b>POE+ Standby Power Consumption</b>            | 5.263W         |
| <b>POE+ Full Load Power Consumption</b>          | 18.796W        |
| <b>Power Adapter Standby Power Consumption</b>   | 5.107W         |
| <b>Power Adapter Full Load Power Consumption</b> | 19.376W        |
| <b>Color Option</b>                              | Tarnish Grey   |

## 4 Introduction to Configuration Menu

- **Status:** This section gives you basic information such as product information, Network Information, and account information.
  - **Account:** This section concerns the SIP account, SIP server, proxy server, transport protocol type, audio and video codec, DTMF, session timer, etc.
  - **Network:** This section mainly deals with DHCP and Static IP setting, RTP port setting, and device deployment.
  - **Intercom:** This section covers Intercom settings, dial plan, call features, etc.
  - **Surveillance:** This section involves conversation Detection, RTSP, MJPEG, ONVIF, and Live stream.
  - **Access Control:** This section covers input control, relay, card settings, face recognition settings, and Private PIN Code.
  - **Tenants:** This section involves Tenants management, user setting, and access method setting.
  - **Device:** This section includes light, screen saver, Wiegand, lift control, and sound.
  - **Settings:** This section includes time, language, action, access control schedule, HTTP API, etc.
  - **System:** This section includes upgrade, reset, reboot, auto provisioning, system log, debug, security, certificate, etc.
- 
- **Mode selection:**
    1. **Discovery mode:** It is a plug-and-play configuration mode. Akuvox devices will configure themselves automatically when users power on the devices and connect them to the network. It is a super time-saving mode, and it will greatly bring users convenience by reducing manual operations. This mode requires no prior configurations by the administrator.



2. **Cloud mode:** Akuvox SmartPlus is an all-in-one management system. Akuvox Cloud is a mobile service that allows audio, video, and remote access control between smartphones and Akuvox intercoms. All configurations in the device will be issued automatically from the cloud. If users decide to use Akuvox SmartPlus, please contact Akuvox technical support, and they will help you configure the related settings before using it.
3. **SDMC mode:** SDMC (**SIP Device Management Controller**) is a simple and comprehensive software for building management. It provides a topography for a community while offering you a graphical configuration interface for the door access, intercom, monitoring, alarm, and so on. It is a convenient tool for property managers to manage, operate and maintain the community.

- **Tool selection**

Akuvox has many configuration tools for you to set up devices more conveniently. Here, we list some common tools, please contact your administrator to get tools if you need them.

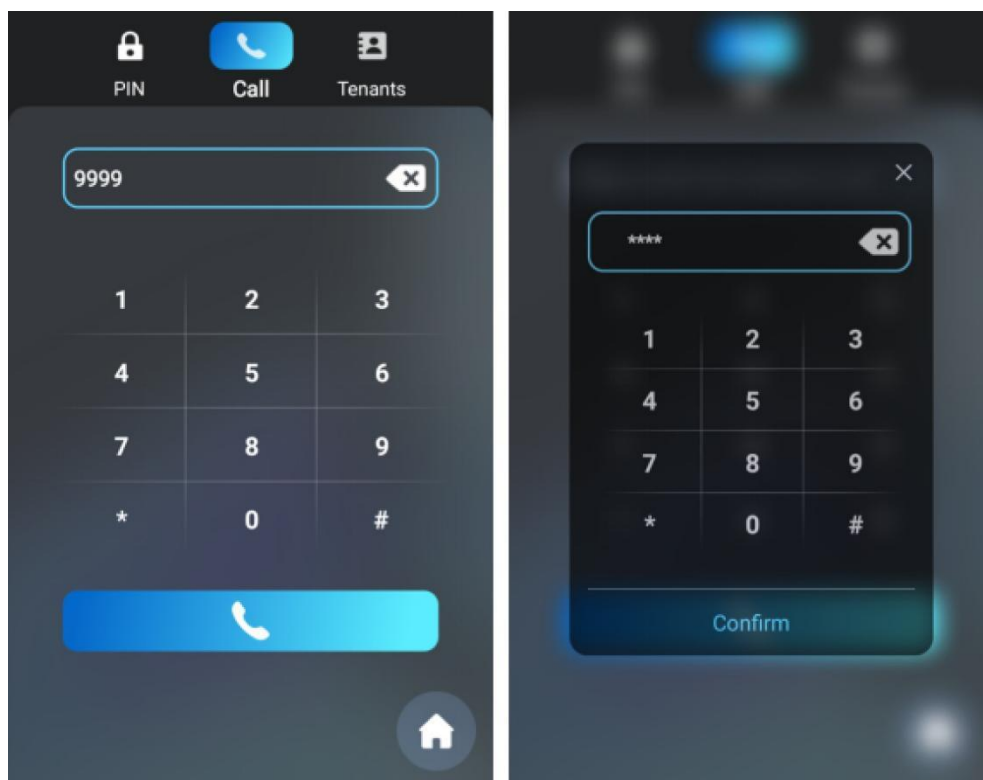
1. **SDMC:** SDMC is suitable for the management of Akuvox devices in large communities, including access control, resident information, remote device control, etc.
2. **Akuvox Upgrade tool:** Upgrade Akuvox devices in batch on a LAN (**Local Area Network**)
3. **Akuvox PC Manager:** Distribute all configuration items in batch on a LAN.
4. **IP scanner:** It is used to search Akuvox device IP addresses on a LAN.
5. **FacePro:** Manage face data in batch for the door phone on a LAN.

## 5 Access the Device

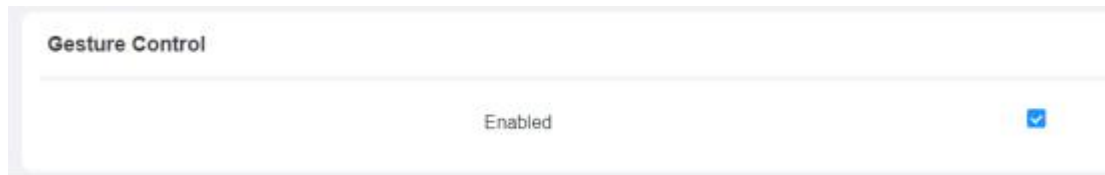
X915 series door phones' system settings can be either accessed on the device directly or on the device web interface.

### 5.1 Access the Device Setting on the device

Before configuring Akuvox X915, please make sure the device is installed correctly and connected to a normal network. Using the Akuvox IP scanner tool to search the device IP address in the same LAN. Then use the IP address to login into the web browser by user name and password **admin** and **admin**. Or set up some basic settings on the device screen by pressing **9999** + **Dial** key + **3888**(password) on the **Dial** screen.

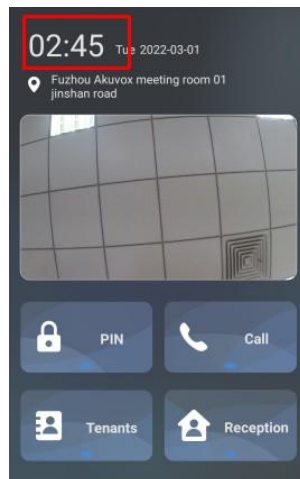


In certain application scenarios where the dial icon is missing on the screen, you can still access the device setting using the gesture control feature. You can navigate to **System > Security > Gesture Control**.



#### Parameter Set-up:

- **Enabled:** if enabled, you can keep tapping the upper left corner of the screen 10 times to access the setting screen.



## 5.2 Access the Device Setting on the Web Interface

You can also enter the device IP address on the web browser in order to log in to the device web interface where you can configure and adjust parameters, etc.



admin

\*\*\*\*\*

Remember User Name/Password

Login

### Note

- You can also obtain the device IP address using the Akuvox IP scanner to log in to the device web interface. Please refer to the URL below for the IP scanner application:  
<https://knowledge.akuvox.com>

### Note

- Google Chrome browser is strongly recommended.
- The initial user name and password are **admin** and please be case-sensitive to the user names and passwords entered.

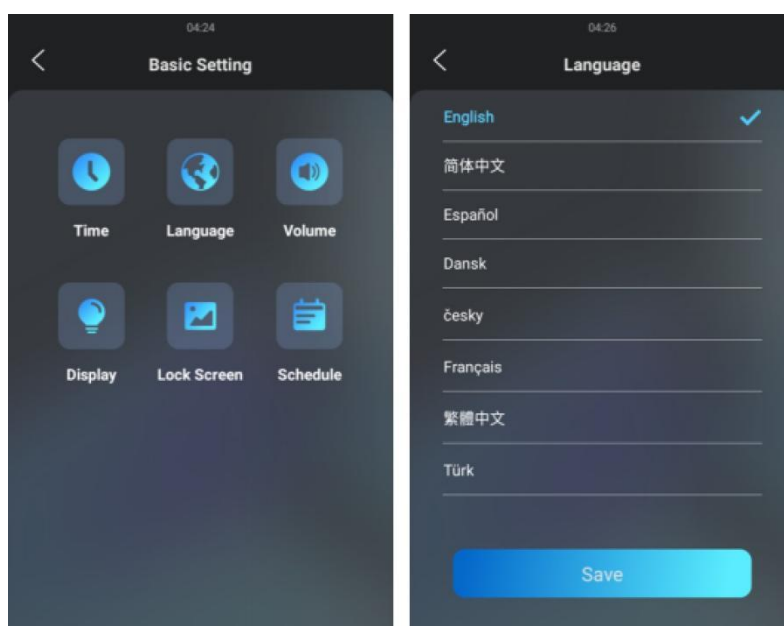
## 6 Language and Time Setting

### 6.1 Language Setting

When you first set up the device, you might need to set the language that you need, or you can do it later if needed. And the language can either be set up directly on the device or on the device web interface according to your preference.

#### 6.1.1 Language Setting on the Device

The language setting can be configured on the device or on the device web interface so that you can select or change the language for screen display to your preference. To configure the language display on the device **Basic Setting > Language** interface.



#### 6.1.2 Language Setting on the Device Web Interface.

You can select device language and device language icons, and customize interface text including configuration names and prompt text.

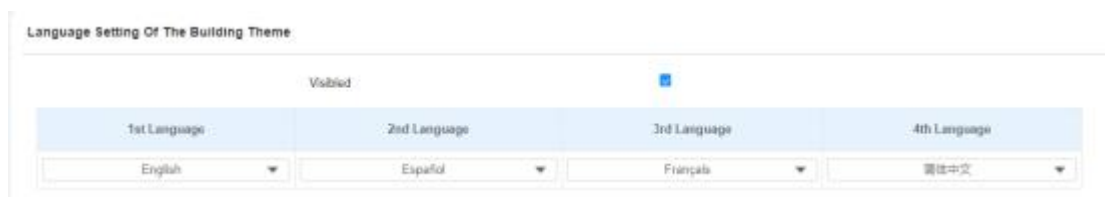
To select the device language, go to **Setting > Time/Lang > LCD Language** interface.



To customize configuration names and prompt text, you need to export and edit the .json file before uploading the file to the device. **Setting > Time/Lang > Words Of Language Upload.**



To create the language icons, go to **Device > Key/Display > Language Setting Of The Building Theme.**



**Parameter Set-up:**

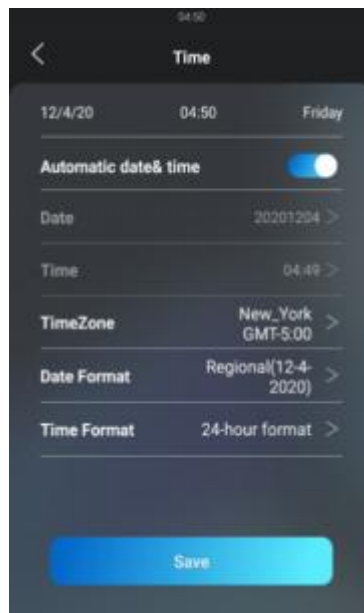
- **Visible:** enable it if you want the four language icons to be displayed on the home screen for the language selection.
- **Language 1/2/3/4:** select the order that the language display. For example, if you set the 1st language as English, then the English language will be displayed first from left to right on the screen.

## 6.2 Time Setting

Time settings can be set up on the device and on the device web interface in terms of time zone, date, time format, etc.

## 6.2.1 Time Setting on the Device

To configure the language display on the device **Basic Setting > Time** interface.



### Parameter Set-up:

- **Automatic Date&Time:** Automatic Date is toggled on by default, which allows the date& time to be automatically set up and synchronized with the default time zone and the NTP server (**Network Time Protocol**). You can also set it up manually by toggling off the switch first and then entering the time and date you want before pressing the **Save** tab for the validation.
- **Date:** click on **Date** to set the date.
- **Time:** click on **Time** to set the time.
- **Time Zone:** select the specific time zone depending on where the device is used and then press **Confirm** tab for confirmation. The default time zone is **GMT+0.00**.
- **Date Format:** select the date format as you like among three format options: **M-D-Y**; **D-M-Y**; **Y-M-D** and then press the **Confirm** tab for confirmation.

- **Time Format:** you can either select the 12-hour or 24-hour time format as you like and then press the **Confirm** tab for confirmation.

**Note**

- When the **Automatic Date&Time** toggle switch is toggled off, parameters related to the NTP server will become not editable. And when the switch is toggled on, time and date will be denied editing.

### 6.2.2 Time Setting on the Device Web Interface

Time setting on the web interface also allows you to set up the NTP server address that you obtained to automatically synchronize your time and date. And when your time zone is selected, the device will automatically notify the NTP server of its time zone so that the NTP server can synchronize the time zone setting in your device. To configure the configuration on the web **Setting > Time/Lang > Time** interface.

The screenshot shows the 'Time' configuration page. At the top left, the word 'Time' is displayed. Below it, there is a form with the following fields:

- Automatic Date&Time:** A toggle switch that is currently turned off.
- Date:** A text input field containing '2020-12-04' with a calendar icon to its right.
- Time:** A text input field containing '04:50' with a clock icon to its right.
- Time Zone:** A dropdown menu showing 'GMT-5:00 New\_York'.
- NTP Server:** A text input field containing 'pool.ntp.org'.

At the bottom of the form, there are two buttons: a 'Cancel' button and a blue 'Submit' button.

**Parameter Set-up:**

- **NTP Server:** enter the NTP server you obtained in the **NTP server**.



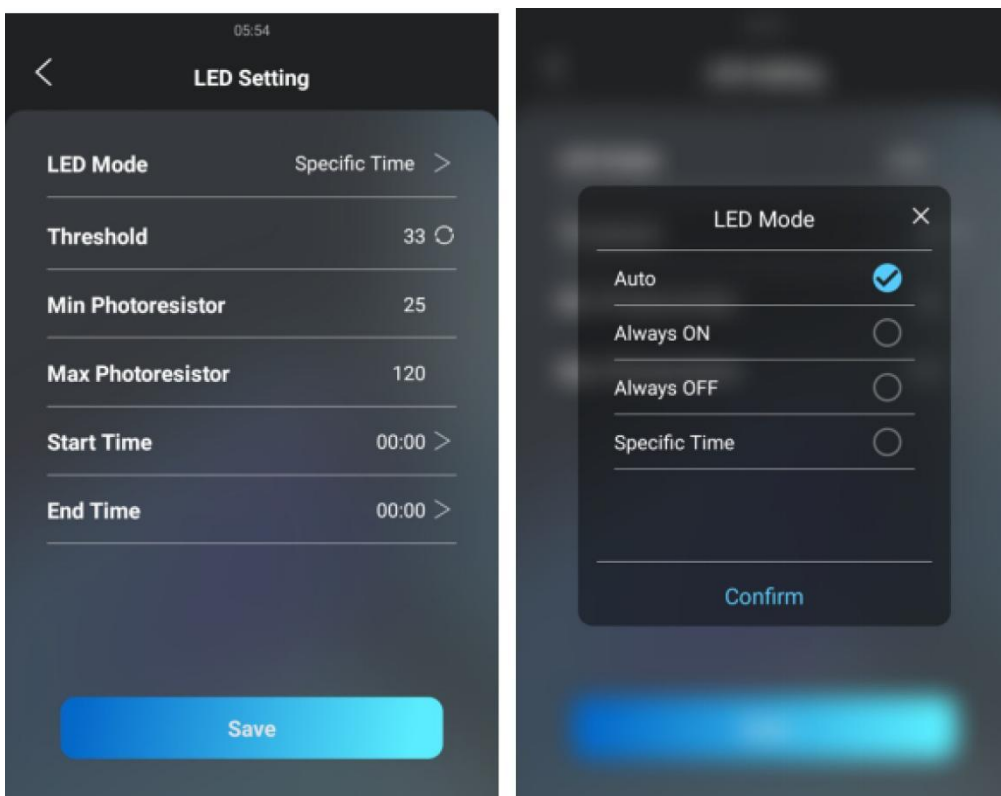
## 7 LED&LCD Setting

### 7.1 Infrared LED Setting


Infrared LED is mainly designed to reinforce the light for facial recognition at night or in a dark environment, you can configure the infrared LED in the device and on the web interface.

#### 7.1.1 Infrared LED Setting on the Device

To configure the language displayed on the device **Basic Setting > Display > LED Setting** interface.



Parameter Set-up:

- **Auto:** select **Auto** if you want the Infrared LED light to be turned on automatically according to the setting.
- **Always ON:** select **Always ON** to enable the Infrared LED light to stay on permanently.
- **Always OFF:** select **Always OFF** to turn off the Infrared LED light. LED mode is set **Always OFF** by default.
- **Specific Time:** select a **Specific Time** to turn on the infrared LED according to the time schedule.
- **LED Type:** you can see the LED type **Auto Always ON Always OFF Specific Time** you selected.
- **Threshold:** refers to the current light intensity indicated by the photo-resistor value. The higher photo-resistor values correspond conversely to the lower light intensity and vice versa. The default photo-resistor value (**Threshold**) is **33**, however, you can tap the icon  several times in order to obtain the actual photo-resistor value in a specific environment (the value fluctuation is about 5), and the value is what you based on to configure the minimum and maximum photo-resistor values.
- **Min/Max Photoresistor:** set the minimum and maximum photoresistor value based on the current actual photo-resistor value detected to control the **ON-OFF** of the LED light. You can set the maximum photoresistor value for the IR LED to be turned on and the minimum value for it to be turned off. While the default minimum and maximum photoresistor values are from **0** minimum to **1000** maximum.
- **Start Time:** set the start time for the infrared LED to be turned on.
- **End Time:** set the end time for the infrared LED to be turned off.

**Note**

- **Start Time** and **End Time** will not be displayed unless you select **Specific Time** for your LED mode.

### 7.1.2 Infrared LED Setting on the Web Interface

You can also select the LED type on the device web interface if needed. To configure the configuration on the web **Device > Light > LED Time** interface.



**Note**

- Please refer to the infrared LED parameter setting on the device.

## 7.2 LED Setting on Card Reader Area

You can enable or disable the LED lighting on the card reader area as needed on the web interface. Meanwhile, if you do not want to have the LED light on the card reader area stay on, you can also set the timing for the exact time span during which the LED light can be disabled in order to reduce the electrical power consumption. To configure the configuration on the web **Device > Light > LED Of Swiping Card Area** interface.



**Parameter Set-up:**

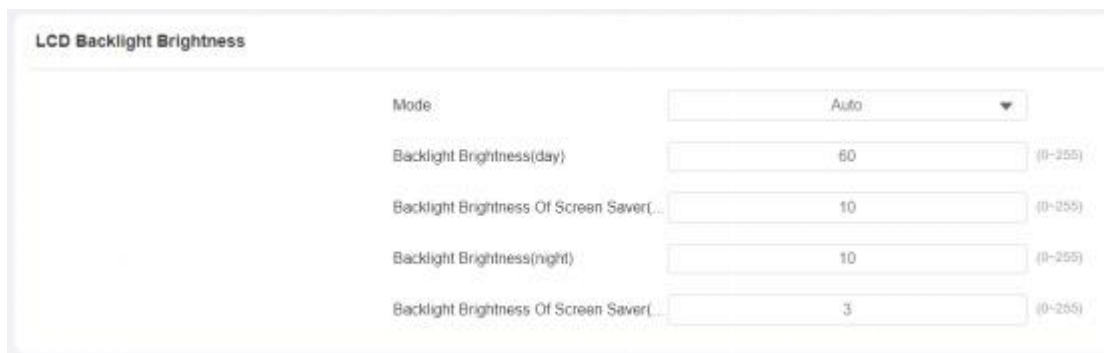
- **Enabled:** tick the check box if you want to enable the card reader LED lighting and vice versa.
- **Start Time- End Time(H):** enter the time span for the LED lighting to be valid, eg., if the time span is set from **8-0 (Start time- End time)**, it means the LED light will stay on during the time span from **8:00 am to 12:00 pm** during one day (24 hours).

## 7.3 LCD Screen Brightness Setting

If you want to brighten up the screen in order to see the screen at greater ease in an environment with higher light intensity, you need to set up the related parameters.

### 7.3.1 LCD Screen Brightness Setting on the Web Interface

On the web interface, you can set and adjust backlight brightness for the screen and screen saver. To configure the configuration on the web **Device > Light > LCD Backlight Brightness** interface.



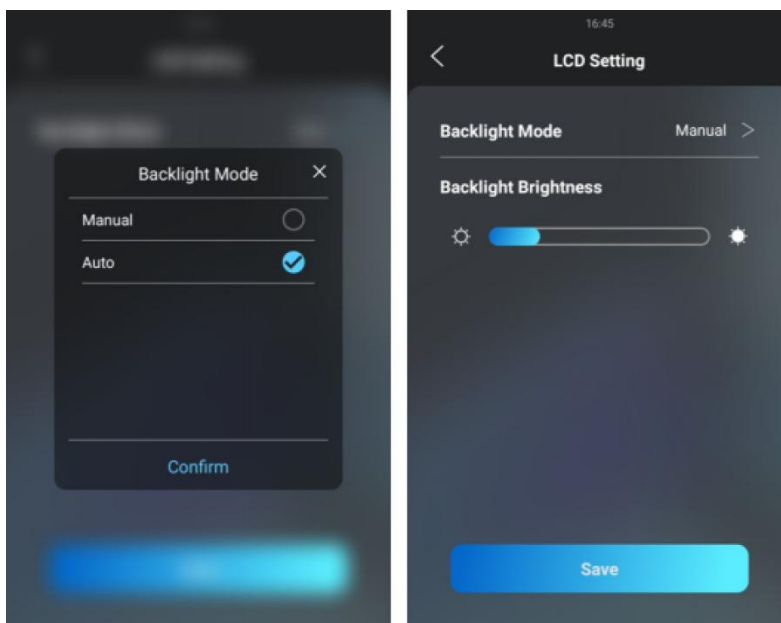
| LCD Backlight Brightness                    |            |
|---|------------|
| Mode  | Auto       |
| Backlight Brightness(day)                   | 60 (0-255) |
| Backlight Brightness Of Screen Saver(day)   | 10 (0-255) |
| Backlight Brightness(night)                 | 10 (0-255) |
| Backlight Brightness Of Screen Saver(night) | 3 (0-255)  |

#### Parameter Set-up:

- **Mode:** click to select **Manual** or **Auto** mode for the backlight. The backlight will be adjusted automatically for the screen backlight brightness when **Auto** is selected and vice versa.
- **Backlight Brightness (day):** set the screen backlight brightness during the daytime with the value ranging from **(0-255)**.
- **Backlight Brightness Of Screen Saver(day):** set the screen backlight brightness for the screen saver during the daytime with the value ranging from **(0-255)**.
- **Backlight Brightness(night):** set the screen backlight brightness at night with the value ranging from **(0-255)**.
- **Backlight Brightness Of Screen Saver(night):** set the screen backlight brightness for the screen saver during the daytime with the value ranging from **(0-255)**.

### 7.3.2 LCD Screen Brightness Setting on the Device

On the device, you can set and adjust the screen backlight brightness. To configure the language display on the device **Basic Setting > Display > LCD Setting** interface.



### 7.4 LED White Light Setting

White light LED is mainly used to reinforce the lighting for the QR code access and for the greater visibility of the visitors when seeing their images from indoors in a dark environment. You can set the white light function properly on the device web interface. To configure the configuration on the **Device > Light > White Light** interface.



Parameter Set-up:

- **Mode:** select **Auto** or **OFF**. If you select **Auto**, the white light will turn on for 5 minutes for facial recognition and QR code scan.

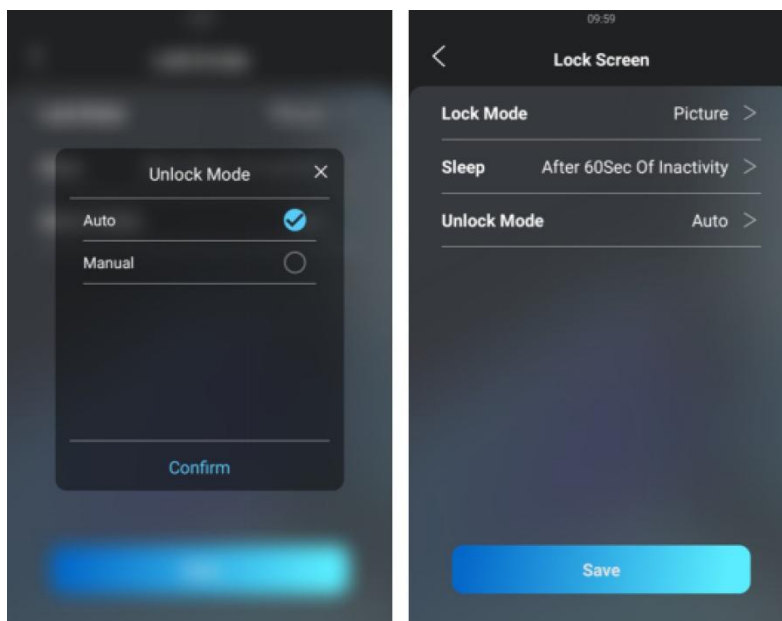
## 8 Screen Display Configuration

X915 series door phones allow you to enjoy a variety of screen displays to enrich your visual and operational experience through the customized settings to your preference.

### 8.1 Screensaver Configuration

#### 8.1.1 Configure Screensaver on the Device

Sleep mode and screen saver are designed for screen protection. You can set these two modes to prevent the device screen from getting overheated and to reduce energy consumption. You can define when the device should go into sleep mode, screen saver mode, and turn off the screen. On the device screen, go to **Basic Setting > Lock Screen**.



#### Parameter Set-up:

- **Lock Mode:** select among three options **NONE**, **Blank Screen**, and **Picture**. **NONE** is selected when you want the screen to stay on without going into screen saver mode; if **Blank Screen** is selected, the screen will go black. If **Picture** is selected, then the picture you uploaded will be shown as the screen saver.

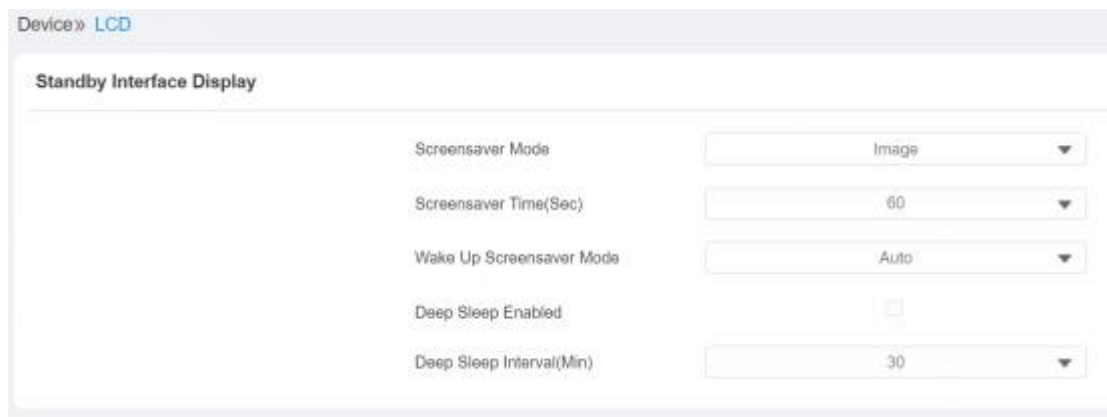
- **Sleep:** set the screen saver start time from 5 seconds up to 180 seconds. The screen saver starts when the device detects no operation, or no one is approaching.
- **Unlock Mode:** select the screen wake-up mode. If you select **Auto mode** then the screen will be awakened when someone approaches without it being touched upon, and if **Manual** mode is selected, then you have to touch and wake up the screen.

**Note**

- **Unlock Mode** cannot be changed from **Auto** to **Manual** when the **Lock mode** is set as **Blank Screen**.

### 8.1.2 Configure Screensaver on the Web Interface

You can also conduct the await screen configuration on the web interface where you can set the screen saver duration as well as the timing for the screen to be turned off for both screen protection and power reduction. To configure the configuration on the web **Device > LCD > Standby Interface Display** interface.



**Parameter Set-up:**

- **Screensaver Mode:** select among three options **NONE**, **Blank**, and **Image**. **NONE** is selected when you want the screen to stay on without going into screen saver mode; if **Blank** is selected, the screen will go black. If **Image** is selected, then the picture you uploaded will be shown as the screen saver.



- **Screensaver Time (Sec):** set the screen saver start time from 5 seconds up to 180 seconds. The screen saver starts when the device detects no operation, or no one is approaching.
- **Wake Up Screensaver Mode:** select the screen wake-up mode. If you select Auto mode then the screen will be awakened when someone approaches without it being touched upon, and if "Manual" mode is selected, then you have to touch and wake up the screen.
- **Deep Sleep Enabled:** tick the check box if you want the screen to be turned off after the screensaver reaches the end of duration as predefined.
- **Deep Sleep Interval (Min):** set the screensaver time duration before the screen can be turned off.

**Note**

- **Wake Up Screensaver Mode** cannot be changed from **Auto** to **Manual** when the **Screensaver Mode** is set as **Blank Screen**.

## 8.2 Upload Screensaver

You can upload screen saver pictures separately or in batch to the device and to the device web interface for publicity purposes or for a greater visual experience. To configure the configuration on the web **Device > LCD > Upload ScreenSaver** interface.



**Note**

- The pictures uploaded should be in **JPG format with 2M pixels maximum**.
- The previous pictures with a specific ID order will be overwritten when the repetitive designation of pictures to the same ID order occurred.

### 8.3 Upload Device Booting Image

You can upload the booting image to be displayed during the device's booting process if needed. To configure the configuration on the web **Device > Key/Display > Picture/File Import** interface.



**Note**

- The pictures uploaded should be in **.png or .zip format**.

### 8.4 Upload Device Contact List Background Image

X915 allows you to customize the background display for the contact list. You can select the picture you like before uploading. On the web, navigate to **Device > Key/Display > Picture/File Import** interface.

Picture/File Import

Boot Animation (.png / .zip)

Background of Tenants List(.png)

**Note**

- The pictures uploaded should be in **.png or .zip format**

## 8.5 Home Screen Configuration

You can change the home screen display through the configuration of tab name and tab arrangement on the device web **Device > Key/Display > Key In Homepage Of The Building Theme** interface.

Key In Homepage Of The Building Theme

| Index | Name                 | Type       | Value                |
|-------|----------------------|------------|----------------------|
| 1     | <input type="text"/> | PIN        | <input type="text"/> |
| 2     | <input type="text"/> | Call       | <input type="text"/> |
| 3     | <input type="text"/> | Tenants    | <input type="text"/> |
| 4     | <input type="text"/> | Speed Dial | <input type="text"/> |

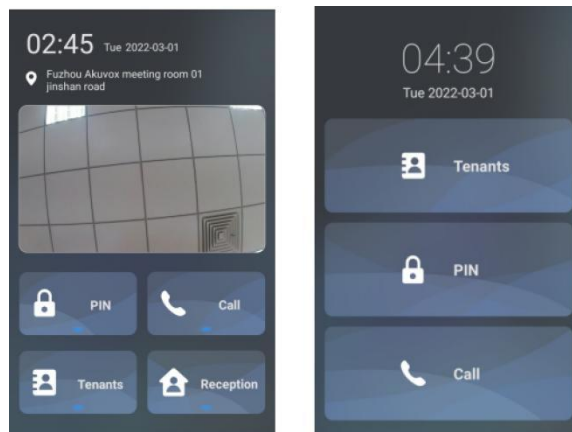
## 8.6 Configuration for Scenario-based Screen Display Mode

X915 door phones offer you two types of screen display modes for different applications: Building mode, and Villa Mode. On the web interface, navigate to **Device > Key/Display > Theme**.

Device >> Key/Display

Theme

Mode

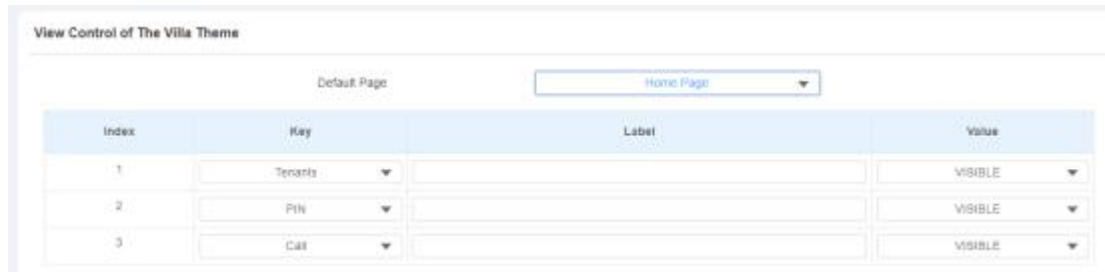


Building Mode

Villa Mode

## 8.7 Villa Mode Home Screen Display

You can configure the screen display for the layout of the Tenant icon, PIN icon, and Call icon on the home screen in villa mode. You can navigate to **Device > Key/Display > Key In Homepage Of The Office Theme And Villa Theme** interface.



### Parameter Set-up:

- **Default Page:** select **Home Page** if you display the tenants, PIN, and Call icon vertically on the home screen. Select **Tenant** if you want to display the contact on the home screen. Select **PIN** if you want to display the PIN icon with the keypad on the home screen. Select **Call** if you want to display the Call icon with a dial pad on the home screen.
- **Key:** set the type of icon you want to display on the villa mode home screen.
- **Label:** name the icons on the villa mode home screen.
- **Visible:** if you set the icon as invisible, the icon will not be seen on the screen.

## 8.8 Building Mode Home Screen Display

You can change the home screen display through the configuration of tab name and tab arrangement on the device web **Device > Key/Display > Key In Homepage Of The Building Theme** interface.

| Index | Label | Type       | Value |
|-------|-------|------------|-------|
| 1     |       | PIN        |       |
| 2     |       | Call       |       |
| 3     |       | Tenants    |       |
| 4     |       | Speed Dial |       |

### Parameter Set-up:

- **Type:** select the tab type corresponding to the index number which indicates the tab position. For example, if you want to make the **Speed Dial** tab be displayed in position one, you can change the type in index number 1 to **Speed Dial**. And you can change another tab position accordingly.
- **Label:** enter a new name to replace the original tab name, but it does not change the attribute of the type.
- **Value:** enter the speed dial number.
- **Voice Prompts Enabled:** if enabled, you will hear the voice prompt.

## 8.9 Dial Key Order

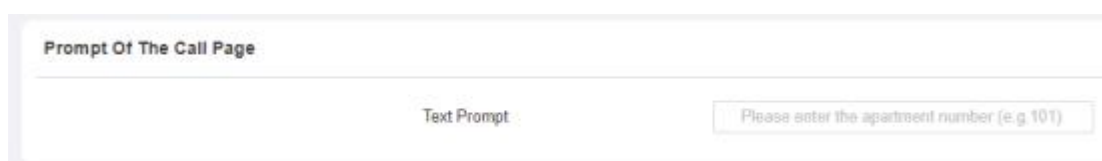
You can select a normal or disordered key display on the door phone. You can select the disordered key display for the security concern. You can navigate to **Setting > Key/Display > Keypad Display Mode of PIN Interface**.

**Parameter Set-up:**

- **Mode:** select the key order display. Select the disorder key display to better protect your PIN code from being seen by others as you enter the PIN code.

**8.9.1 Dial Screen Prompt Display**

You can customize your prompt to be displayed on the dial screen if you need. To do so, navigate to **Setting > Key/Display > Prompt Of The Call Page**.



Prompt Of The Call Page

Text Prompt

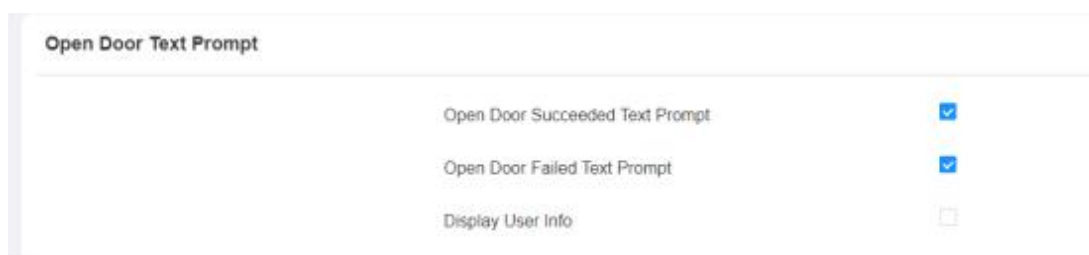
Please enter the apartment number (e.g. 101)

**Note**

- X915 supports a 128-digit character maximum in length for the text prompt.

**8.9.2 Open Door Text Prompt Display**

You can enable or disable the open door prompt if needed. To do so, navigate to **Access Control > Relay > Open Door Text Prompt**.



Open Door Text Prompt

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Open Door Succeeded Text Prompt | <input checked="" type="checkbox"/> |
| Open Door Failed Text Prompt    | <input checked="" type="checkbox"/> |
| Display User Info               | <input type="checkbox"/>            |

## 9 Volume and Tone Configuration

Volume and tone configuration in X915 refers to the microphone volume, the AD volume, keypad volume, speaker volume, temper alarm volume, and open-door tone configuration. Moreover, you can upload the tone you like to enrich your personalized user experience.

### 9.1 Volume Configuration

#### 9.1.1 Configure Volume on the Device

You can adjust the microphone volume, speaker volume, keypad volume, and AD volume on the device. To configure the language display on the device **Basic Setting > Volume** interface.



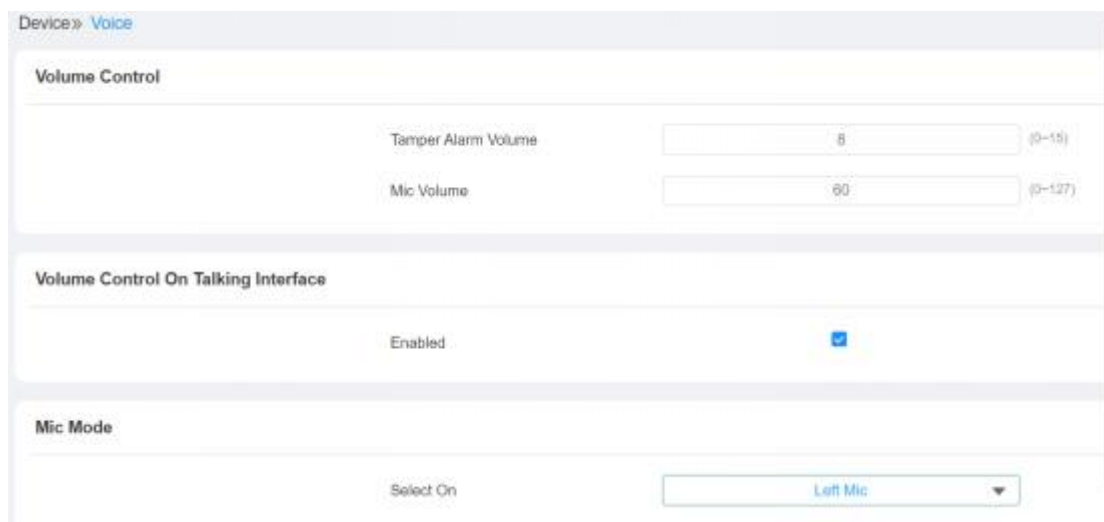
#### Parameter Set-up:

- **Mic Volume:** adjust the microphone volume according to your need.
- **Speaker Volume:** adjust the loudspeaker volume according to your need.
- **Keypad Volume:** adjust the keypad volume for the button touch sound.

- **AD Volume:** adjust the announcement volume. An announcement can be, for example, the open-door success announcement, ring-back sound, and other prompt sounds.
- **Key Volume:** adjust the volume for the button touch sound.

### 9.1.2 Configure Volume on the Web Interface

On the web interface, you can set the temper alarm volume, mic volume, etc. To configure the configuration on the web **Device > audio**.



**Parameter Set-up:**

- **Tamper Alarm Volume:** set the tamper alarm volume from 0-15 according to your need. The default volume is **8**.
- **Mic Volume:** set the mic volume from 0-15 according to your need. The default volume is **8**.
- **Enabled:** tick off the check box if you allow the adjustment to be made on the call volume on the talking screen during a call.



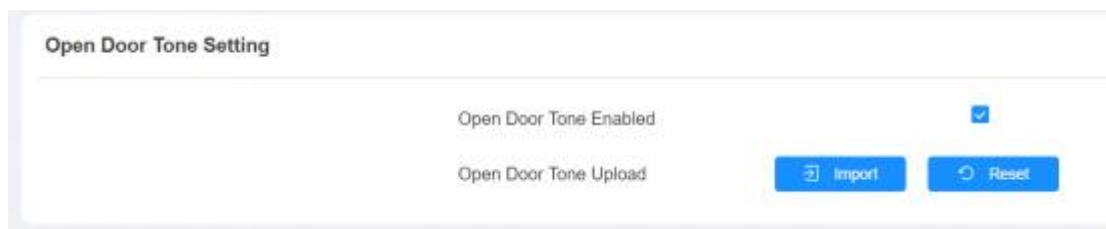
- **Select On:** select which mic to be applied between the left and right microphones.

**Note**

- When the Call volume on the above web interface is enabled, you are allowed to adjust the call volume during the call session.

## 9.2 Upload Open-door Tone

You can not only enable or disable the Open-Door Tone but also upload the open-door tones in a batch that you favored on the web **Device > Audio > Open Door Tone Setting** interface.

**Note**

- The open door tone file should be in .wav format and the file size should be smaller than 200KB.

## 10 Network Setting

### 10.1 Device Network Configuration

You can check for the door phone's network connection info and configure the default DHCP mode (**Dynamic Host Configuration Protocol**) and static IP connection for the device either on the device or on the device web interface.

To configure the language displayed on the device **Setting > Network** interface.



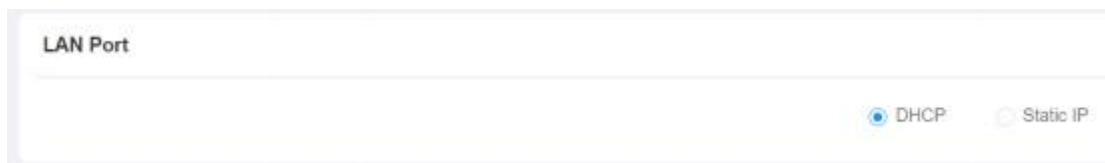
#### Parameter Set-up:

- **DHCP:** select the **DHCP** mode by moving the toggle switch to the right. DHCP mode is the default network connection. If the DHCP mode is turned on, then the door phone will be assigned by the DHCP server with IP address, subnet mask, default gateway, and DNS server address automatically.
- **Static IP:** select the static IP mode by checking off the DHCP check box. When static IP mode is selected, then the IP address, subnet mask, default gateway, and DNS

server address have to be manually configured according to your actual network environment.

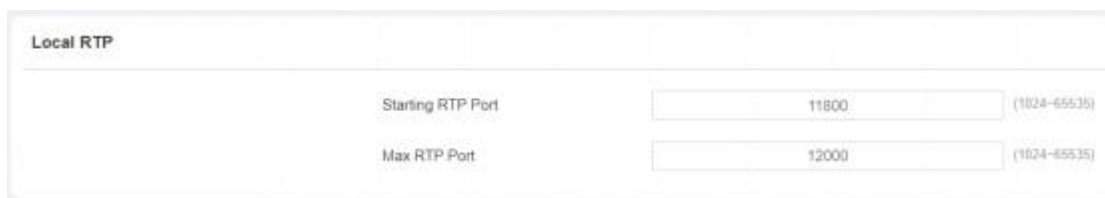
- **IP Address:** set up the IP Address if the static IP mode is selected.
- **Subnet Mask:** set up the subnet Mask according to your actual network environment.
- **Default Gateway:** set up the correct gateway default gateway according to the IP address of the default gateway.
- **Preferred & Alternate DNS Server:** set up a preferred or alternate DNS Server (**Domain Name Server**) according to your actual network environment. The preferred DNS server is the primary DNS server address while the alternate DNS server is the secondary server address, and the door phone will connect to the alternate server when the primary DNS server is unavailable.

To configure the configuration on the web **Network > Basic > LAN Port** interface.



## 10.2 Device Local RTP configuration

For the device network data transmission purpose, the device needs to be set up with a range of RTP ports (**Real-time Transport Protocol**) for establishing an exclusive range of data transmission in the network. To configure the configuration on the web **Network > Advanced > Local RTP** interface.



### Parameter Set-up:

- **Starting RTP Port:** enter the Port value in order to establish the start point for the exclusive data transmission range.

- **Max RTP port:** enter the Port value in order to establish the endpoint for the exclusive data transmission range.

### 10.3 Device Deployment in Network

Door phones should be deployed before they can be properly configured in the network environment in terms of their location, operation mode, address, and extension numbers as opposed to other devices for device control and the convenience of the management. To configure the configuration on the web **Network > Advanced > Connect Setting** interface.

The screenshot shows the 'Connect Setting' configuration page. It features a table-like layout with labels on the left and input fields on the right. The 'Server Mode' is set to 'SDMC'. The 'Discovery Mode' is enabled, indicated by a checked checkbox. The 'Device Address' is configured with five '1's in separate boxes. The 'Device Extension' is set to '1'. The 'Device Location' is set to 'Door Phone'. At the bottom, there are 'Cancel' and 'Submit' buttons.

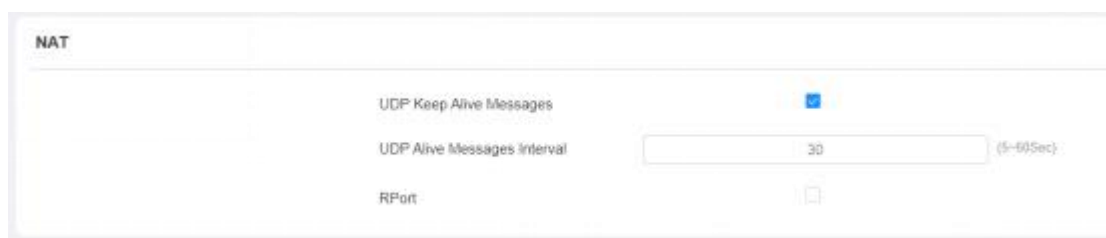
#### Parameter Set-up:

- **Server Type:** it is automatically set up according to the actual device connection with a specific server in the network such as **SDMC** or **Cloud and None**. **None** is the default factory setting indicating the device is not in any server type, therefore you are allowed to choose Cloud, SMDC in discovery mode.
- **Discovery Mode:** click **Enable** to turn on the discovery mode of the device so that it can be discovered by other devices in the network and click **Disable** if you want to conceal the device so as not to be discovered by other devices.
- **Device Address:** specify the device address by entering device location information from the left to the right: **Community, Unit, Stair, Floor, Room** in sequence.
- **Device extension:** enter the device extension number for the device you installed.
- **Device Location:** enter the location in which the device is installed and used.

## 10.4 NAT Setting

NAT (**Network Address Translation**) allows hosts in an organization's private intranet to transparently connect to hosts in the public domain.

There is no need for internal hosts to have registered Internet addresses. It is a way to translate the internal private network IP address into a legal network IP address technology. To configure the configuration on the web **Account > Advanced > NAT** interface.



| NAT                         |   |
|-----------------------------|---|
| UDP Keep Alive Messages     | <input checked="" type="checkbox"/>       |
| UDP Alive Messages Interval | <input type="text" value="30"/> (5-60Sec) |
| RPort                       | <input type="checkbox"/>                  |

### Parameter Set-up:

- **UDP Keep Alive Messages:** If enabled, the device will send out the message to the SIP server so that the SIP server will recognize if the device is in online status.
- **UDP Alive Msg Interval:** set the message sending time interval from 5-60 seconds, the default is 30 seconds.
- **RPort:** enable the Rport when the SIP server is in WAN (**Wide Area Network**).

## 11 Intercom Call Configuration

Intercom call in the device can be configured to allow you to perform a variety of customized intercom calls such as IP call and SIP call for different application scenarios.

### 11.1 IP call & IP Call Configuration

IP calls and SIP calls can be made directly on the intercom device by entering the IP number on the device. And you can also disable the direct IP call if you allow no IP call to be made on the device.

#### 11.1.1 Make IP Calls

To make SIP calls or IP calls on the device by clicking on the dial on the home screen.



#### 11.1.2 IP Call Configuration

To configure the IP direct call on the device **Intercom > Basic > Direct IP** interface.

| Enabled                             | Port              |
|-------------------------------------|-------------------|
| <input checked="" type="checkbox"/> | 5060 (1024-65535) |

Cancel Submit

**Parameter Set-up:**

- **Enabled:** tick the check box if you want to enable the IP call.
- **Port:** the direct IP Port is **5060** by default with the port range from **1-65535**. When you enter any values within the range other than 5060, you are required to check if the value entered is consistent with the corresponding value on the device you wish to establish a data transmission with.

## 11.2 SIP Call & SIP Call Configuration

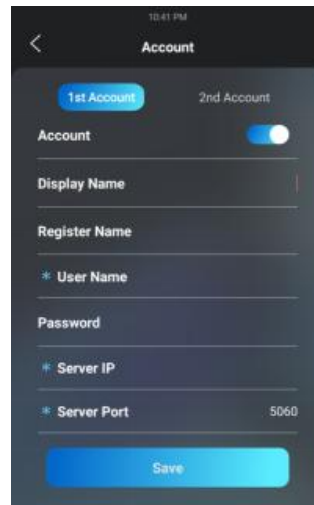
You can make a SIP call (**Session Initiation Protocol**) in the same way as you do for making the IP calls on the device. However, SIP call parameters related to its account, server, and transport type need to be configured first before you can make calls on the device.

### 11.2.1 SIP Account Registration

X915 series door phones support two SIP accounts that can all be registered according to your applications. You can, for example, switch between them if any one of the accounts fails and becomes invalid. The SIP account can be configured on the device and on the device interface.

#### 11.2.1.1 Configure SIP Account on the Device

To configure the SIP account on the device **Setting > Account** interface.



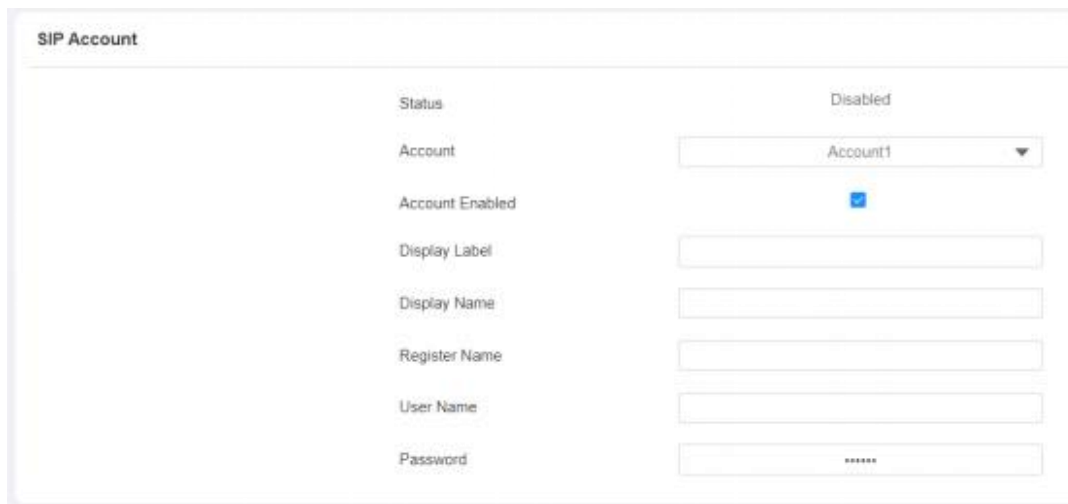
### Parameter Set-up:

- **Display Name:** configure the name, for example, the device's name to be shown on the device being called to.
- **Register Name:** enter the SIP account register Name obtained from the SIP account administrator.
- **User Name:** enter the user name obtained from the SIP account administrator.
- **Password:** enter the password obtained from the SIP account administrator.
- **Server IP:** enter the SIP server address for the SIP account selected.
- **Server port:** enter the SIP server port for communication. The SIP port is **5060** by default.

#### 11.2.1.2 Configure SIP Account on the Web Interface

To configure the configuration on the web **Account > Basic > SIP Account** interface.





The screenshot shows a web interface for configuring a SIP account. The title is "SIP Account". The form contains the following fields and values:

- Status: Disabled
- Account: Account1 (dropdown menu)
- Account Enabled:
- Display Label:
- Display Name:
- Register Name:
- User Name:
- Password:

**Parameter Set-up:**

- **Status:** check whether the SIP account is registered or not.
- **Account Active:** click **Enable or Disable** to activate or deactivate the registered SIP account.
- **Display Name:** configure the name, for example, the device's name to be shown on the device being called to.
- **User Name:** enter the user name obtained from the SIP account administrator.
- **Account:** select the exact account (Account 1&2) to be configured.
- **Display Label:** configure the device label to be shown on the device screen.
- **Register Name:** enter the SIP account register Name obtained from the SIP account administrator.
- **Password:** enter the password obtained from the SIP account administrator.

**11.2.2 SIP Server Configuration**

SIP servers can be set up for devices in order to achieve call sessions through SIP servers between intercom devices. To configure the configuration on the web **Account > Basic > Preferred SIP Server** interface.

| Preferred SIP Server |                                   |               |
|----------------------|-----------------------------------|---------------|
| Server IP            | <input type="text"/>              |               |
| Port                 | <input type="text" value="5060"/> | (1024-65535)  |
| Registration Period  | <input type="text" value="1800"/> | (30-65535Sec) |

| Alternate SIP Server |                                   |               |
|----------------------|-----------------------------------|---------------|
| Server IP            | <input type="text"/>              |               |
| Port                 | <input type="text" value="5060"/> | (1024-65535)  |
| Registration Period  | <input type="text" value="1800"/> | (30-65535Sec) |

**Parameter Set-up:**

- **Preferred SIP Server:** enter the primary server IP address number or its URL.
- **Alternate SIP Server:** enter the backup SIP server IP address or its URL.
- **Port:** set up SIP server port for data transmission.
- **Registration Period:** set up SIP account registration time pan. SIP re-registration will start automatically if the account registration fails during the registration time span. The default registration period is **1800**, ranging from **30-65535s**.

### 11.2.3 SIP Call DND&Return Code Configuration

DND (**Do not disturb**) setting allows you not to be disturbed by any unwanted incoming SIP calls. You can set up DND-related parameters properly on the device web interface to block SIP calls you do not intend to answer. In the meantime, you can also define the code to be sent to the SIP server when you want to reject the call. To configure the configuration on the web **Intercom > Call Feature > DND** interface.

| DND                  |   |
|----------------------|---|
| Enabled              | <input checked="" type="checkbox"/>         |
| Return Code When DND | <input type="text" value="485(Busy Here)"/> |

**Parameter Set-up:**

- **DND:** enable or disable the DND function. DND function is disabled by default.
- **Return Code When DND:** select what code should be sent to the calling device via the SIP server. **404 for Not found; 480 for Temporary unavailable; 486 for Busy Here.**

### 11.2.4 Configure Outbound Proxy Server

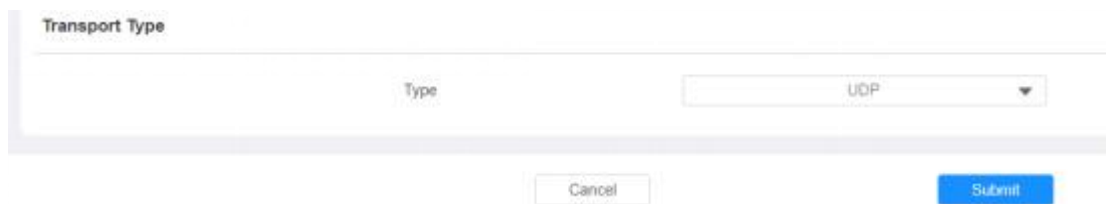
An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server in order to establish a call session via port-based data transmission. To configure the configuration on the web **Account > Basic > Outbound Proxy Server** interface.

#### Parameter Set-up:

- **Enable Outbound:** click **Enable** and **Disable** to turn on or turn off the outbound proxy server.
- **Preferred Server IP:** enter the SIP address of the primary outbound proxy server.
- **Port:** enter the Port number for establishing a call session via the primary outbound proxy server
- **Alternate Server IP:** set up Backup Server IP for the backup outbound proxy server.
- **Port:** enter the Port number for establishing a call session via the backup outbound proxy server.

### 11.2.5 Configure Data Transmission Type

SIP messages can be transmitted in three data transmission protocols: **UDP (User Datagram Protocol)**, **TCP(Transmission Control Protocol)**, **TLS (Transport Layer Security)**, and **DNS-SRV**. In the meantime, you can also identify the server from which the data come. To configure the configuration on the web **Account > Basic > Transport Type** interface.



The screenshot shows a web form titled "Transport Type". It contains a single input field labeled "Type" with a dropdown menu showing "UDP". Below the form are two buttons: "Cancel" and "Submit".

#### Parameter Setup:

- **UDP**: select **UDP** for an unreliable but very efficient transport layer protocol. UDP is the default transport protocol.
- **TCP**: select **TCP** for a reliable but less-efficient transport layer protocol.
- **TLS**: select **TLS** for a secured and reliable transport layer protocol.
- **DNS-SRV**: select **DNS-SRV** to obtain a DNS record for specifying the location of the server. And **SRV** not only records the server address but also the server port. Moreover, SRV can also be used to configure the priority and the weight of the server address.

### Dial Options Configuration

X915 series offers a variety of Dial options that allows you to have a fast dial experience while relieving you of memory burden due to long and complex dial numbers.

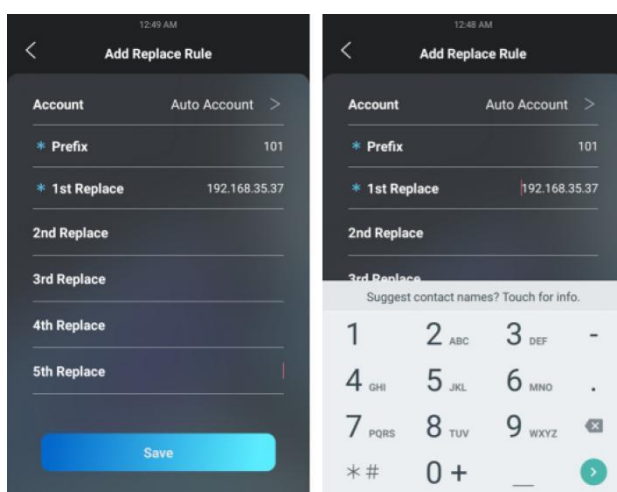
#### 11.2.6 Quick Dial by Number Replacement

If you want to replace the long and complex dial number with a shorter number that can be memorized at greater ease and convenience for making calls, you can configure the dial

number replacement on the device and on the device web interface. You can replace multiple device dial numbers such as IP addresses or SIP numbers with only one short number.

### 11.2.6.1 Quick Dial by Number Replacement on the Device

To configure the language display on the device **Setting > Replace Rule > Add Replace Rule** interface.



#### Parameter Set-up:

- **Account:** select the account to which you want to apply dial number replacement. The account is **Auto** by default (to dial out from the account in which the dial number has been registered). You can select either account 1 or account 2 from which the number can be dialed out. if you have registered the dial number in both Account 1 and Account 2, then the number will be called out from Account 1 by default.
- **Prefix:** enter the short number to replace the dial number you wish to replace.
- **Replace 1/2/3/4/5:** enter the dial number(s) you wish to replace. It supports up to 5 numbers maximum for the replacement of the device configuration. For example, if you replace five original dial numbers with a common short number such as **101** then the five intercom devices with the dial number will be called at the same time when you dial **101**.

### 11.2.6.2 Quick Dial by Number Replacement on the Web Interface

You can not only add a quick dial number separately but also import the quick dial number to the device in batch. Besides, you can edit and delete the numbers if needed. To configure the configuration on the web **Intercom > Dial Plan > Replace Rule** interface.

| Index | Account  | Prefix | 1st Replace    | 2nd Replace    | 3rd Replace    | 4th Replace    | 5th Replace    | Edit                                |
|-------|----------|--------|----------------|----------------|----------------|----------------|----------------|-------------------------------------|
| 1     | Account1 | 101    | 192.168.35.37  | 192.168.35.38  | 192.168.35.39  | 192.168.35.40  | 192.168.35.41  | <input checked="" type="checkbox"/> |
| 2     | Account1 | 102    | 192.168.35.118 | 192.168.35.119 | 192.168.35.200 | 192.168.35.201 | 192.168.35.202 | <input type="checkbox"/>            |

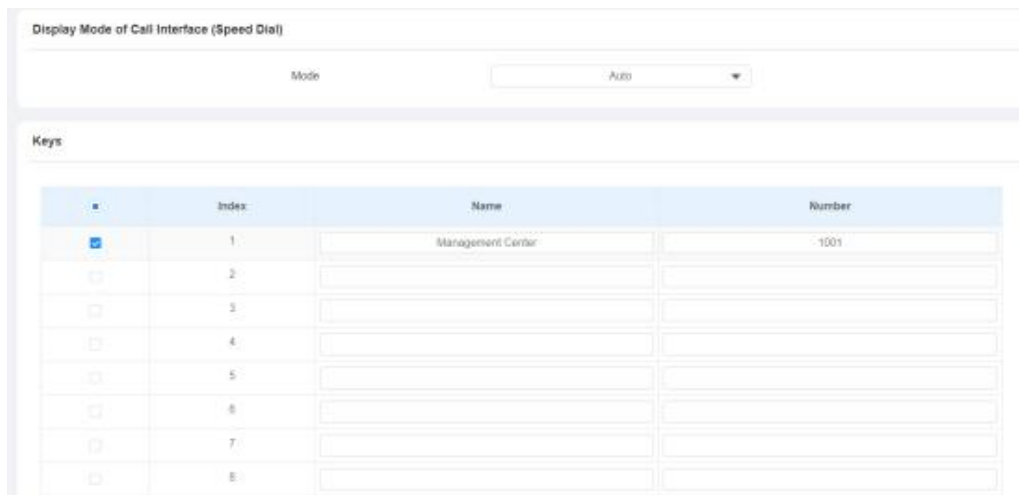
**Note**

- The check box for each line of **Prefix** should be checked before you can see the **Edit** tab, which you click to carry out the modification.

### 11.2.7 Speed Dial

#### 11.2.7.1 Speed Dial in Villa Mode

Speed dial is a function that allows you to create a tab or a combination of organized tabs to be displayed on the device’s dial screen. You can make calls by pressing the specific tabs to make speedy calls without entering any dial numbers. To configure the speed dial on the web **Device > Key Display > Display Mode of Call Interface (Speed Dial)**.



**Parameter Set-up:**

- **Mode:** select the speed dial tab layout among 9 options to your preference. Each option offers you a different layout of dial tabs along with changes to the soft keypad arrangement on the dial screen. The 9 options are explained as follows:
- **Name:** enter the speed dial tab name.
- **Number:** enter the speed dial number.

| Options         | Descriptions  |
|-----------------|---|
| <b>Standard</b> | Select <b>Standard</b> if you want to display the time and keypad only with no dial tabs.   |
| <b>Auto</b>     | Select <b>Auto</b> if you want to select the dial tab layout that does match with any one of the other 8 options. For example, if you want to create 3 dial tabs, 5 dial tabs, or 7 tabs, etc., that does not match with other options. |
| <b>1 Key</b>    | Select <b>1 Key</b> if you display only one dial tab with no keypad.  |

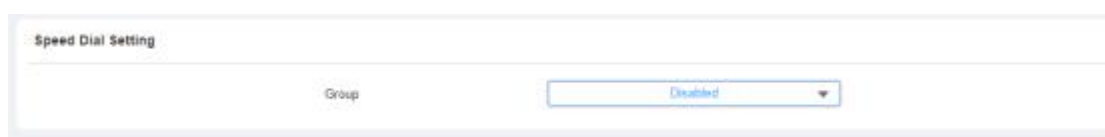
|                       |  |
|-----------------------|--|
| <b>1 Key + Keypad</b> | Select <b>1 Key+Keypad</b> if you want to display one dial tab with the keypad.  |
| <b>2 Keys+ Keypad</b> | Select <b>2 Key+Keypad</b> if you want to display two dial tabs with the keypad. |
| <b>8 Keys</b>         | Select <b>8 Keys</b> if you want to display 8 dial tabs with no keypad.          |
| <b>16 Keys</b>        | Select <b>16 keys</b> if you want to display 16 dial tabs with no keypad.        |

**Note**

- This function cannot be applied in **Building Mode**.
- The keypad will not be displayed if the number of the dial tabs is over 4 tabs.

### 11.2.7.2 Speed Dial in Building Mode

X915 allows you to call a group of people at the same by pressing the **Reception** button. On the web, navigate to **Device > Key/Display > Speed Dial Setting**.



**Parameter Set-up:**

- **Group:** select the contact group to be called by pressing the **Reception** button.



## 11.3 Call Auto-answer Configuration

You can define how quickly the door phone should respond by answering the incoming SIP/IP call automatically by setting up the time-related parameters. In addition, you can also define the mode in which the calls are to be answered (video mode or audio mode). To configure the configuration on the web **Intercom > Call Feature > Auto Answer** interface.

The screenshot shows a web interface titled "Auto Answer". It contains two main configuration fields: "Auto Answer Delay" with a text input field containing the number "0" and a label "(0-5Sec)" to its right, and "Mode" with a dropdown menu currently showing "Video". At the bottom of the form, there are two buttons: "Cancel" and "Submit".

### Parameter Set-up:

- **Auto Answer Delay:** set up the delay time (from 0-5s) before the call can be answered automatically. For example, if you set the delay time as 1 second, then the call will be answered in 1 second automatically.
- **Mode:** set up the video or audio mode you preferred for the automatic call answering.

## 11.4 Sequence Call Configuration

Sequence Call is a function supported by Akuvox SmartPlus which releases a group of sequence call numbers for the application. You can call the targeted group of sequence calls (e.g., your extension numbers in your kitchen, bedroom, etc.) in sequential orders until the call is answered. Sequence call will complete as soon as the call is answered by any of the targeted extension devices. To configure the configuration on the web **Intercom > Basic > Sequence Call** interface.

**Sequence Call**

---

Enabled

Time Out (Sec)

When Refused

**Parameter Set-up:**

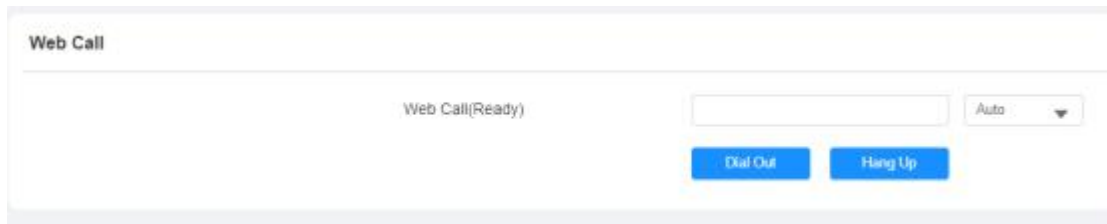
- **Enable** tick the check box if you want to enable the sequence call.
- **Timeout (Sec):** click to select the call time interval in between the sequence call number in a targeted sequence call group. For example, if you set the time interval as 10 seconds, then the call (if not answered in 10 Sec.) will be terminated automatically and be transferred sequentially to the next sequence call number in the targeted sequence call group.
- **When Refused:** if you select **Don Not Call Next** then the sequence call will be terminated if the call is rejected by the called party. If you select **Call Next** then the sequence call will be continued to the next called party if it is rejected by the first called party.

**Note**

- Robin Call function should be supported by **SmartPlus**, please contact Akuvox technical support for more information.

**11.4.1 Web Call**

In addition to making IP/SIP calls directly on the device, you can also make the call on the device web interface without approaching to device physically for testing purposes, etc. You can navigate to **Intercom > Basic > Web Call**.



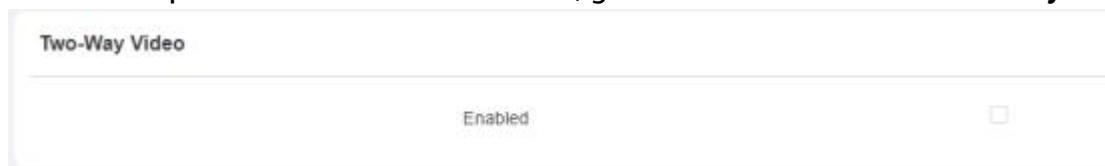
**Parameter Set-up:**

- **Web Call (Ready):** enter the IP/SIP number to dial out.

## 12 Call Settings

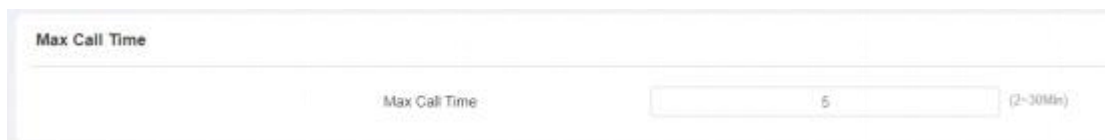
### 12.1 Make Two-way Video Call

You can enable the two-way video feature if you want to see the calling party or the called party on the door phone. To enable the feature, go to **Intercom > Basic > Two-way Video**.



### 12.2 Maximum Call Duration Setting

X915 series door phone allows you to set up the call time duration in receiving the call from the calling device as the caller side might forget to hang up the intercom device. When the call time duration is reached, the door phone will terminate the calling automatically. To configure the configuration on the web **Intercom > Call Feature > Max Call Time** interface.



#### Parameter Set-up:

- **Max Call Time:** enter the call time duration according to your need (Ranging from 2-30 min). The default call time duration is 5 min.

### 12.3 Maximum Dial Duration Setting

Maximum Dial duration consists of the maximum dial-in time duration and the maximum dial-out time. Maximum dial-in time refers to the maximum time duration before the door phone hangs up the call if the call is not answered by the door phone. In contrast, maximum dial-out time refers to the maximum time duration before the door phone hangs

up itself automatically when the call from the door phone is not answered by the intercom device being called to. To configure the configuration on the web **Intercom > Call Feature > Max Dial Time** interface.

The screenshot shows a configuration panel titled "Max Dial Time". It contains two rows of settings:

- Dial In Time:** A text input field containing the value "60" and a range indicator "(30-120Sec)".
- Dial Out Time:** A text input field containing the value "60" and a range indicator "(30-120Sec)".

**Parameter Set-up:**

- **Dial In Time:** enter the dial-in time duration for your door phone (ranging from 30-120S) for example, if you set the dial-in time duration is 60 seconds in your door phone, then the door phone will hang up the incoming call automatically if the call is not answered by the door phone in 60 seconds. 60 seconds is the dial-in time duration by default.
- **Dial Out Time:** enter the dial-in time duration for your door phone (ranging from 5-120 S) for example, if you set the dial-out time duration is 60 seconds in your door phone, then the door phone will hang out the call it dialed out automatically if the call is not answered by the device being called.

## 12.4 Hang Up After Open Door

This feature is used to hang up the call automatically after the door is released during a call. So, a caller or a called party does not need to click the hang-up button to hang up the call. To set the feature, go to **Intercom > Call Feature > Hang Up After Open Door** interface.

The screenshot shows a configuration panel titled "Hang Up After Open Door". It contains three settings:

- Enabled:** A checkbox that is checked.
- Type:** A dropdown menu currently showing "DTMF Or HTTP".
- Time Out:** A text input field containing the value "5" and a range indicator "(0-15Sec)".

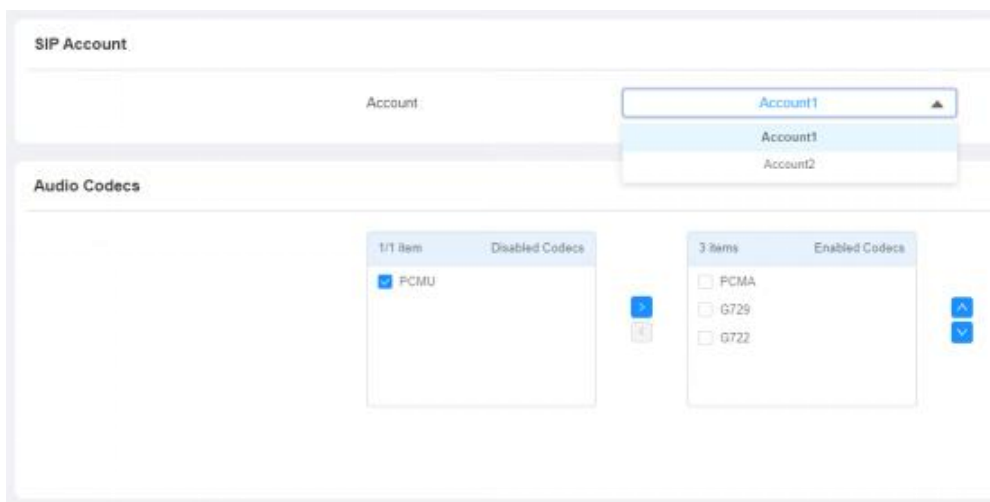
**Parameter Set-up:**

- **Enabled:** the feature is enabled by default.
- **Type:** select the open door type. The door can be unlocked via the **DTMF, HTTP** command, **DTMF Or HTTP**, and **DTMF, HTTP or Input**.
- **Timeout:** set up from 1 second to 15 seconds. 5 seconds is the default. If you set it 5 seconds, then the call will be hung up 5 seconds after the door is opened. If you want to disable the feature, set the timeout as 0.

## 12.5 Audio & Video Codec Configuration for SIP Calls

### 12.5.1 Audio Codec Configuration

X915 series supports four types of Codec (PCMU, PCMA, G729, and G722) for encoding and decoding the audio data during the call session. Each type of Codec varies in terms of sound quality. You can select the specific codec with different bandwidths and sample rates flexibly according to the actual network environment. To configure the configuration on the web **Account > Advanced > SIP Account** interface.



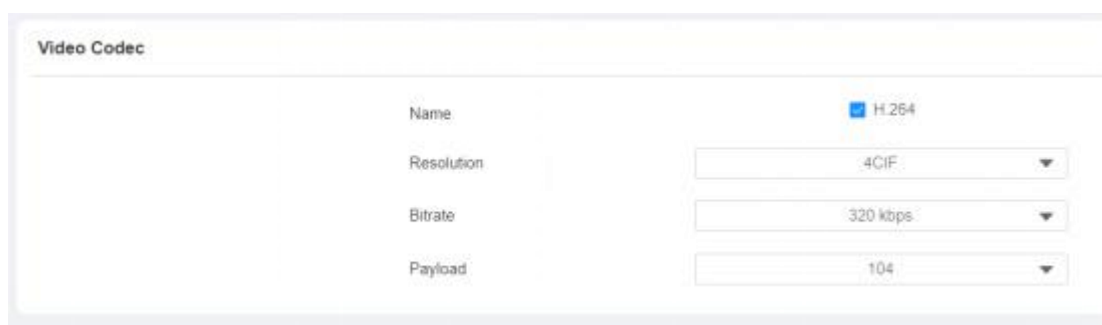
Please refer to the bandwidth consumption and sample rate for the four codecs types below:

| Codec Type | Bandwidth Consumption | Sample Rate |
|------------|-----------------------|-------------|
|------------|-----------------------|-------------|

|      |           |       |
|------|-----------|-------|
| PCMA | 64 kbit/s | 8kHz  |
| PCMU | 64 kbit/s | 8kHz  |
| G729 | 8 kbit/s  | 8kHz  |
| G722 | 64 kbit/s | 16kHz |

### 12.5.2 Video Codec Configuration

X915 series support the H264 codec that provides a better video quality at a much lower bit rate with different video quality and payload. To configure the configuration on the web **Account > Advanced > Video Codec** interface.



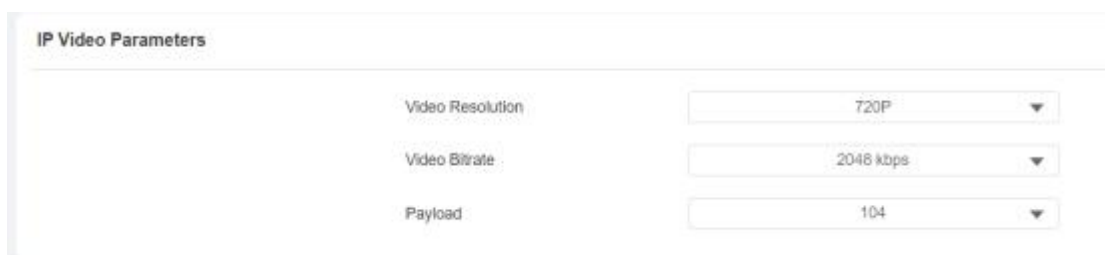
**Parameter Set-up:**

- **Name:** check to select the H264 video codec format for the door phone video H264 is the video codec by default.
- **Resolution:** select the code resolution for the video quality among four options: **QCIF, CIF, VGA, 4CIF, and 720P** according to your actual network environment. The default code resolution is 4CIF.
- **Bitrate:** select the video stream bit rate (Ranging from 320-2048). The greater the bitrate, the data transmitted every second is greater in amount therefore the video will be clearer. While the default code bitrate is 2048.

- **Payload:** select the payload type (ranging from 90-118) to configure the audio/video configuration file. The default payload is 104.

## 12.6 Video Codec Configuration for IP Direct Calls

You can select the IP call video quality by selecting the proper codec resolution according to your actual network condition. To do so, you can go to **Intercom > Call Feature > IP Video Parameters**.



| IP Video Parameters |           |
|---------------------|-----------|
| Video Resolution    | 720P      |
| Video Bitrate       | 2048 kbps |
| Payload             | 104       |

### Parameter Set-up:

- **Video Resolution:** select the code resolution for the video quality among four options: **CIF, VGA, 4CIF, and 720P**. The default code resolution is 4CIF.
- **Video Bitrate:** select video bit-rate among six options: **64 kbps, 256kbps, 512 kbps, 1024 kbps, and 2048 kbps** according to your network environment. The default video bit rate is **2048 kbps**.
- **Video Payload:** select the payload type (ranging from 90-118) to configure the audio/video configuration file. The default payload is 104.

## 12.7 Configure DTMF Data Transmission

In order to achieve door access via DTMF code or some other applications, you are required to properly configure DTMF in order to establish a DTMF-based data transmission between the door phone and other intercom devices for the third-party integration. To configure the configuration on the web **Account > Advanced > DTMF** interface.



| DTMF               |              |
|--------------------|--------------|
| Type               | RFC2833      |
| How To Notify DTMF | Disabled     |
| Payload            | 101 (96-127) |

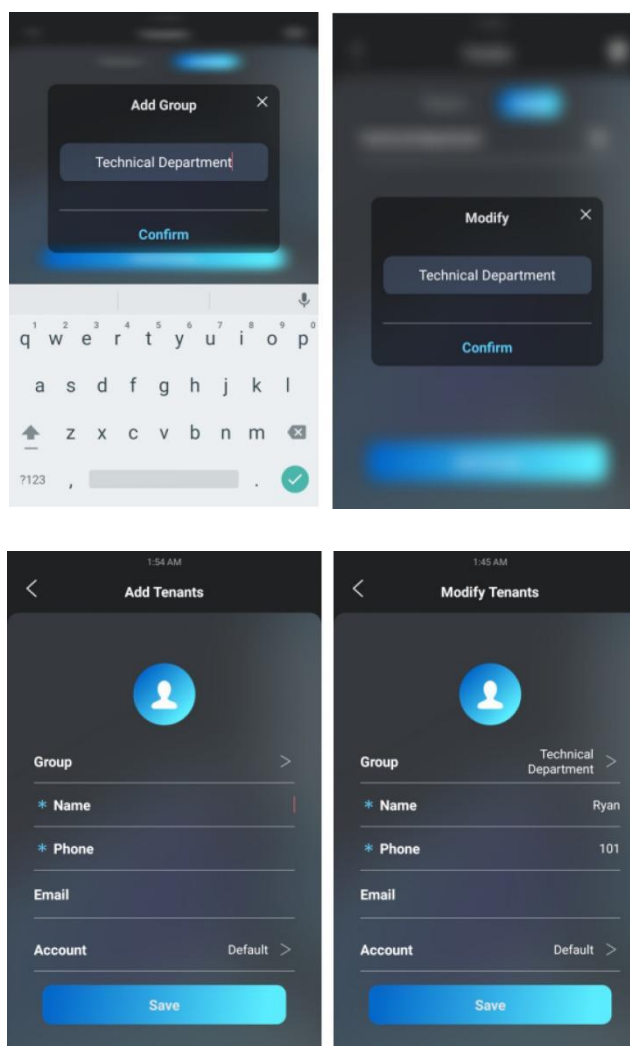
**Parameter Set-up:**

- **Mode:** select DTMF mode among five options: **Inband**, **RFC2833**, **Info+Inband**, and **Info+RFC2833** based on the specific DTMF transmission type of the third-party device to be matched with as the party for receiving signal data.
- **How to Notify DTMF:** select among four types: **Disable**, **DTMF**, **DTMF-Relay**, and **Telephone-Event** according to the specific type adopted by the third party device. You are required to set it up only when the third-party device to be matched with adopts **Info** mode.
- **Payload:** set the payload according to the specific data transmission payload agreed on between the sender and receiver during the data transmission.

## 13 Phone Book Configuration

### 13.1 Phone Book Configuration on the Device

You can configure the contacts list in terms of adding and modifying contact groups or contacts on the device directly. To configure the phone book on the device **Setting > Tenants** interface.



Parameter Set-up:

- **Group:** click the **green tab** to select the group name you have created. You cannot select the group name if no group name has been created.
- **Name:** enter the contact's name, which is required
- **Phone:** enter the phone number of the contact, which is required.
- **Email:** enter the contact's Email, which is optional.
- **Account:** select and assign the group name to an account. If you select the default option, then the contact number will be called out from SIP account 1 if the contact number is set up in both SIP Account 1 and 2.

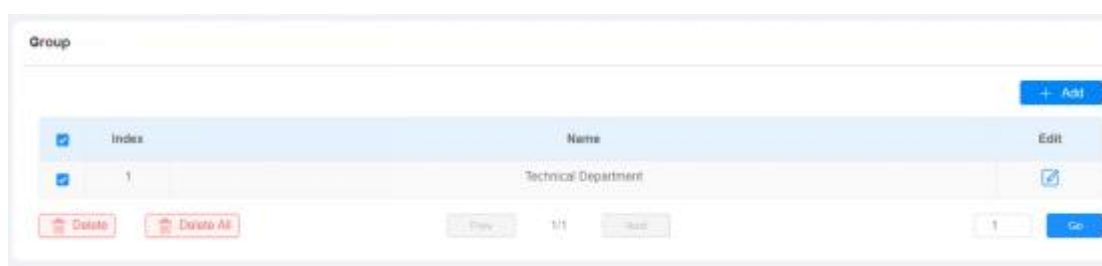
**Note**

- Only the SIP numbers of the contacts can be called out through the SIP account. IP numbers are not valid for this application.
- A group must be created first before you can select or change the Group.

## 13.2 Phone Book Configuration on the Web Interface

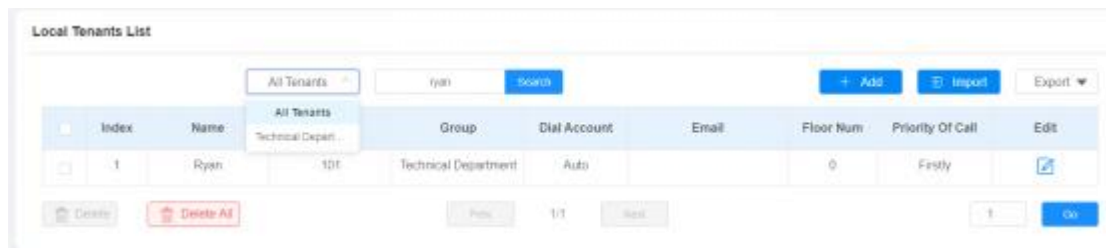
### 13.2.1 Manage Contact Groups on the Web Interface

You can configure contact and contact groups by adding and editing them on the web **Directory > Tenants List > Group** interface.



### 13.2.2 Contact List Configuration on the Web Interface

Contact can also be configured on the web interface where you can also upload the contact pictures if needed. To configure the configuration on the web **Directory > Tenants List > Local Tenants List** interface.



**Parameter Set-up:**

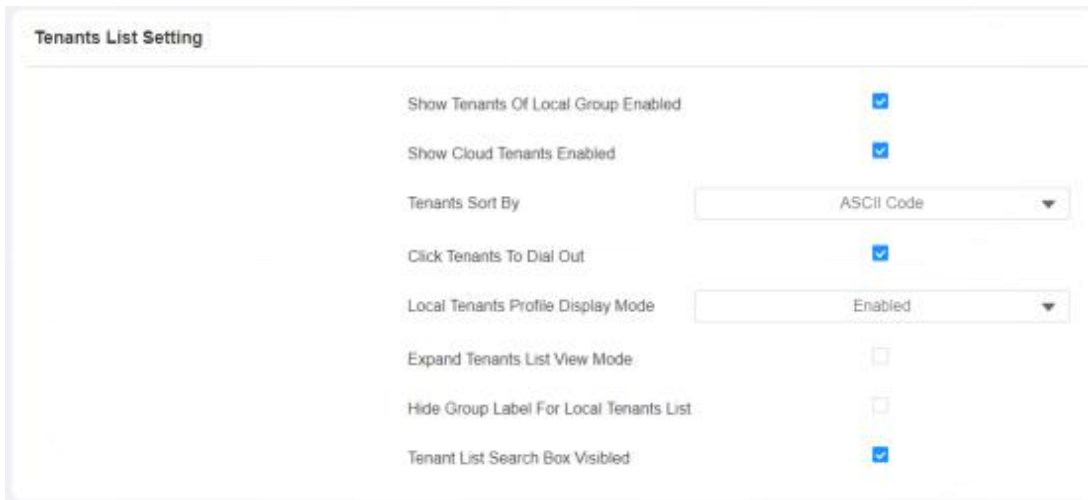
- **Priority of Call:** set the priority of the call among four options: **Null**, **Firstly**, **Secondary**, and **Lastly**. This feature is mainly applicable to the contacts in a specific contact group. For example, if you set the priority of call for one of the contacts in a specific contact group as **Firstly** then the contact will be the first to be called to among all the contacts in the same contact group when someone press on the contact group for making a group call.

**Note**

- Priority of Call of a contact cannot be set when the contact does belong to any contact group.
- The contact file format for import should be in .vcf, .csv or .xml format while the contact file format for export should be .vcf format only. And the maximum contact import size is 3000.

**13.2.2.1 Contact List Display Setting**

If you want to customize your contact list display it to your desired visual preference. You can go to the web interface to do the configuration. To configure the configuration on the web **Tenants > Tenants List > Tenants List Setting** interface.



**Parameter Set-up:**

- **Show Tenants of Local Group Enabled:** tick or untick the check box to control the display of the group label. If you untick the check box, then only the group tab will be displayed while the contact tab will be concealed and viceversa.
- **Show Cloud Tenants Enabled:** tick the check box to show the cloud tenants in the tenants' list. And when you untick the check box, the cloud tenants will be concealed.
- **Tenants Sort By:** select **ASCII Code** or **Room No. or Import**. When you select ASCII Code, the tenants will be listed by their names in the sequence of the ASCII code. When you select Room No., the tenants will be sorted according to their room numbers.
- **Click Tenants to Dial Out:** tick the check box to enable the dial-out by pressing the contact tab. When this function is enabled, you can press anywhere on the contact tab to dial out. This function will be disabled when you untick the check box, and when it is disabled, you need to press the **Call icon** in the middle of the tab to dial out.
- **Local Tenants Profile Display Mode:** select **Enable** or **Disabled** or **Auto**. When the function is enabled, if the tenant has its uploaded contact profile picture, the picture will be displayed next to the name; if not, the default contact icon will be displayed next to the name. When disabled, the picture or the icon will not be displayed. When the function is set as Auto, if the tenant has its uploaded contact profile picture, the

picture will be displayed next to the name; if not, there won't be an icon next to the name.

- **Expand Contact List View Mode:** tick the check box to control contact tab size. For example, if you tick the check box then the contact tab will be widened. And the tab will turn to normal size when you untick the check box.
- **Hide Group Label for Contact List:** tick or untick the check box to control the display of the group label. If you untick the check box, then only the contact tab will be displayed while the group tab will be concealed and vice versa.
- **Contact List Search Box Visible:** tick or untick the check box to control the display of the **Tap here to search field** on the top of the screen. If you untick the check box, then the **Tap here to search field** will be concealed.

## 14 Relay Setting

### 14.1 Relay Switch Setting

You can configure the relay switch(es) and DTMF for the door access on the web **Access Control > Relay** interface.

The screenshot shows the 'Relay' configuration page with the following settings:

| Parameter          | RelayA       | RelayB      | RelayC      |
|--------------------|--------------|-------------|-------------|
| Relay ID           | RelayA       | RelayB      | RelayC      |
| Trigger Delay(Sec) | 0            | 0           | 0           |
| Hold Delay(Sec)    | 5            | 5           | 5           |
| DTMF Mode          | 1 Digit DTMF |             |             |
| 1 Digit DTMF       | 0            | 1           | 2           |
| 2-4 Digits DTMF    | 010          | 012         | 013         |
| Relay Status       | RelayA: Low  | RelayB: Low | RelayC: Low |
| Relay Name         | RelayA       | RelayB      | RelayC      |

#### Parameter Set-up:

- **Trigger Delay (Sec):** set the relay trigger delay timing (Ranging from 1-10 Sec). For example, if you set the delay time as **5 Sec**. Then the relay will not be triggered until 5 seconds after you press **unlock** tab.
- **Hold Delay (Sec):** set the relay hold delay timing (Ranging from 1-10 Sec). For example, if you set the hold delay time as **5 Sec**. Then the relay will be delayed for 5 seconds after the door is unlocked.
- **DTMF Mode:** select the number of DTMF digits for the door access control (**Ranging from 1-4 digits**) For example, you can select 1-digit DTMF code or a 2-digit DTMF code, etc., according to your need.
- **1-digit DTMF:** set the 1-digit DTMF code within range from **(0-9, \*, and #)**.
- **2~4 Digits DTMF:** set the DTMF code according to the **DMTP Option**. For example, you are required to set the 3-digits DTMF code if **DTMF Mode** is set as 3-digits.

- **Relay Status:** relay status is low by default which means normally closed (NC) If the relay status is high, then it is in Normally Open status (NO).
- **Relay Name:** name the relay switch according to your need. For example, you can name the relay switch according to where the relay switch is located for convenience.

**Note**

- Only the external devices connected to the relay switch need to be powered by powered adapters as the relay switch does not supply power.
- If DTMF mode is set as **1 Digit DTMF**, you cannot edit DTMF code in **2~4 Digits DTMF**. And if you set DTMF mode from 2-4 in **2~4 Digits DTMF** field, you cannot edit DTMF code in **1 Digit DTMF** field.

## 14.2 Web Relay Setting

In addition to the relay that is connected to the door phone, you can also control the door access using the network-based web relay on the device and on the device web interface.

### 14.2.1 Configure Web Relay on the Web Interface

Web relay needs to be set up on the web interface where you are required to fill in such information as relay IP address, password, web relay action, etc. Before you can achieve door access via web relay.

To configure the configuration on the web **Access Control > Web Relay** interface.



| Action ID    | Web Relay Action | Web Relay Key | Web Relay Extension |
|--------------|------------------|---------------|---------------------|
| Action ID 01 |                  |               |                     |
| Action ID 02 |                  |               |                     |
| Action ID 03 |                  |               |                     |

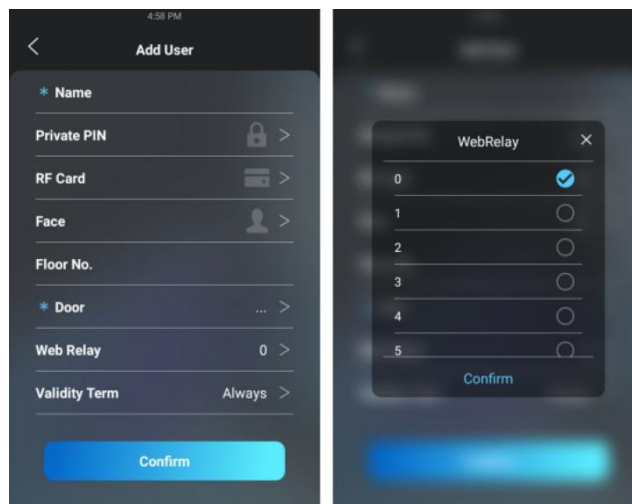
**Parameter Set-up:**

- **Type:** select among three options **Disabled**, **WebRelay**, and **Both**. Select **WebRelay** to enable the web relay. Select **Disable** to disable the web relay. Select **Both** to enable both local relay and web relay.
- **IP Address:** enter the web relay IP address provided by the web relay manufacturer.
- **User Name:** enter the User name provided by the web relay manufacturer.
- **Password:** enter the password provided by the web relay manufacturer. The password is authenticated via HTTP and you can define the passwords using **http get** in Action.
- **Web Relay Action:** enter the specific web relay action command provided by the web manufacturer for different actions by the web relay.
- **Web Relay Key:** enter the configured DTMF code, when the door is unlocked via the DTMF code, the action command will be sent to the web relay automatically.

To configure the configuration on the web **Access Control > User** interface.

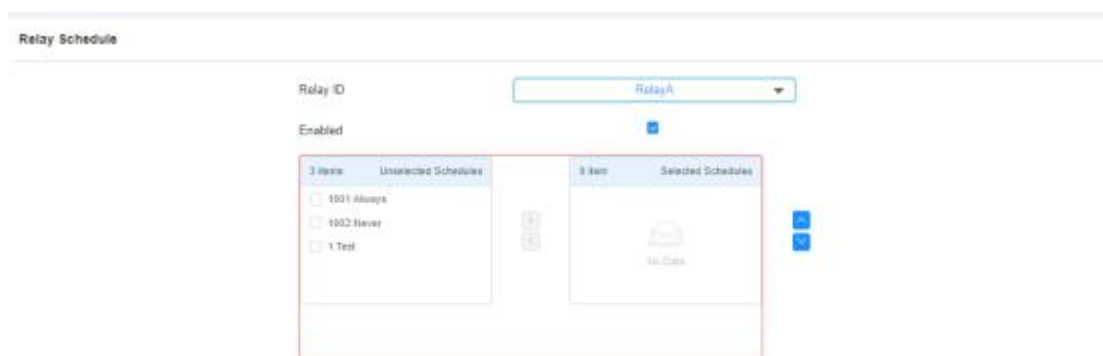
### 14.2.2 Configure Web Relay Configuration on the Device

You can also assign a specific web relay to a resident for the door access based on the order of the web relay set up on the web **Setting > User > Add** interface.



### 14.3 Relay Schedule

Set the corresponding relay always open at a specific time. This feature is designed for some specific scenarios, for example, the time after school, or for morning work time. To do the configuration, navigate to **Access Control > Relay > Relay Schedule** interface.



**Parameter Set-up:**

- **Relay ID:** choose the relay you need to set up.

- **Schedule Enabled:** it is disabled by default. Only choose to enable it, and you can select the schedule. For creating the schedule, please refer to the door access schedule configuration.

**Note**

- You can refer to chapter 15.1.1 **Create Door Access Schedule** for the relay schedule setting as the configuration of the relay schedule is identical to the door access schedule.

## 15 Door Access Schedule Management

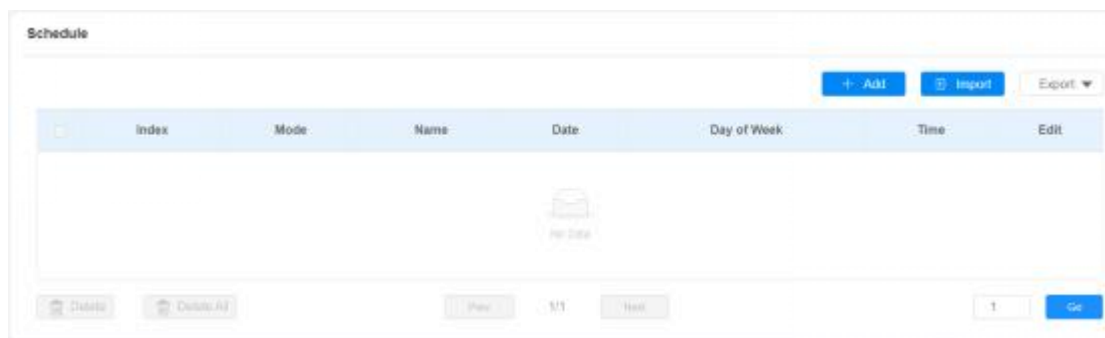
You are required to configure and make a schedule for the user-based door access via RF card, Private PIN, and Facial recognition.

### 15.1 Configure Door Access Schedule

You can create door access schedules so that they can be later conveniently applied to the door access control intended for the individual users or a group of users created. Moreover, you can edit your door access schedule if needed.

#### 15.1.1 Create Door Access Schedule

You can create the door access schedule on a daily or monthly basis, and you can also create a schedule that allows you to plan for a longer period of time in addition to running the door access schedule on a daily or monthly basis. To configure the configuration on the web **Setting > Schedule** interface.



To create a daily schedule, you can do as follows:

The screenshot shows a dialog box titled "Add Schedule" with a close button (X) in the top right corner. It contains three input fields: "Mode" is a dropdown menu set to "Daily"; "Name" is an empty text box; and "Start Time - End Time" consists of two time pickers, both set to "00:00". At the bottom right, there are "Cancel" and "Submit" buttons.

**Parameter Set-up:**

- **Mode:** select daily schedule.
- **Name:** enter the daily schedule name.
- **Start Time-End Time:** set up the time schedule for the validity of the door access during the day.

**To create a weekly schedule:**

The screenshot shows the "Add Schedule" dialog box with "Weekly" selected in the "Mode" dropdown. The "Name" field is empty. The "Day" section has checkboxes for "Mon", "Tue", "Wed", "Thur", "Fri", "Sat", and "Sun", all of which are checked. There is also an unchecked "CheckAll" checkbox. "Cancel" and "Submit" buttons are at the bottom right.

**Parameter Set-up:**

- **Mode:** select daily schedule.
- **Name:** enter the daily schedule name.
- **Day:** select the day (s) on which door access can be valid on a weekly basis.

- **Start Time-End Time:** set up the time schedule for the validity of the door access during the day.

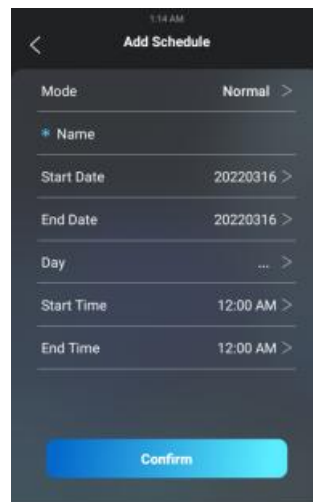
To create a longer period schedule:

**Parameter Set-up:**

- **Mode:** select daily schedule.
- **Name:** enter the daily schedule name.
- **Start Date- End Date:** set the date range of the validity of the door access.
- **Day:** select the day (s) on which door access can be valid on a weekly.
- **Start Time-End Time:** set up the time schedule for the validity of the door access during the day.

**15.1.2 Create Door Access Schedule on the Device.**

You can also create a door access schedule on the device. Path: **Schedule > Add Schedule.**



### 15.1.3 Import and Export Door Access Schedule

In addition to creating door access a schedule separately, you can also conveniently import or export the schedules in order to maximize your door access schedule management efficiency. To configure the configuration on the web **Setting > Schedule**.



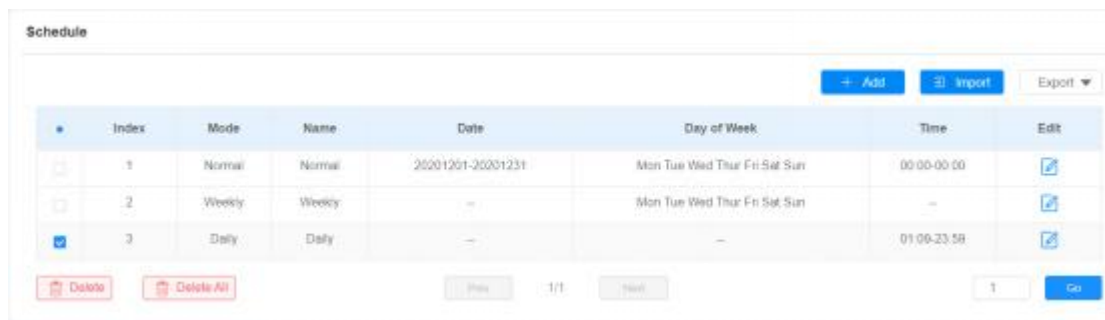
#### Note

- It only supports a .xml format file for importing and exporting the schedule.

## 15.1.4 Edit the Door Access Schedule

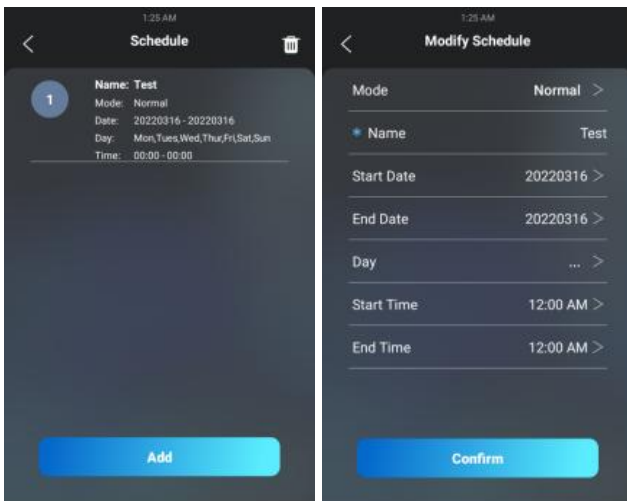
### 15.1.4.1 Edit the Door Access Schedule on the Web Interface

If you want to edit or delete the door access schedule you created, you can edit or delete the configured schedule separately or in batch on the web **Setting > Schedule** interface.



### 15.1.4.2 Edit the Door Access Schedule on the Device

You can also edit or delete the door access schedule on the device. Path: **Schedule > Schedule**.



You are required to configure and make a schedule for the user-based door access via RF card, Private PIN, and Facial recognition.



## 16 Door Unlock Configuration

X915 series door phone offers you three types of door access via PIN code, RF card, and Facial recognition. You can configure them on the device and web interface. Moreover, you can import or export the configured files to maximize your RF card configuration efficiency.

### 16.1 Access Authentication

You can set up multiple access authentication modes, and set up authentication security as needed.

On the web, navigate to **Access Control > Relay > Access Authentication Mode of The Building Theme**.

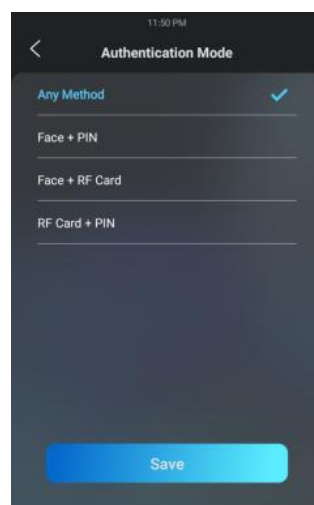
| Parameter              | Value      |
|------------------------|------------|
| Authentication Mode    | Any Method |
| Inactivity (Sec)       | 10         |
| Blocked Duration (Sec) | 30         |
| Number of Attempts     | 3          |

#### Parameter Set-up:

- **Authentication Mode:** select any method if you allow all the access methods to unlock the door. Select Face + PIN if you want to apply dual access methods (Face + PIN) for the door unlock. Select Face + RF Card if you want to apply dual access methods (Face+ RF Card) for the door unlock.
- **Inactivity (Sec):** set the authentication timeout for the second authentication. For example, in **Face+PIN** authentication, if you set the authentication timeout as 10 seconds, then you have to enter the PIN code ten seconds after you passed the face recognition, otherwise, the screen will return to the home screen.

- **Blocked Duration (Sec):** set the block time for the first authentication. For example, if you set the number of attempts as 3, and you failed to pass the second authentication three times, then you will be temporarily blocked from the first authentication according to the block time you defined.
- **Number of Attempts:** send the number of attempts you are allowed for the second authentication.

To set up authentication mode on the device, go to **Security > Authentication Mode**.

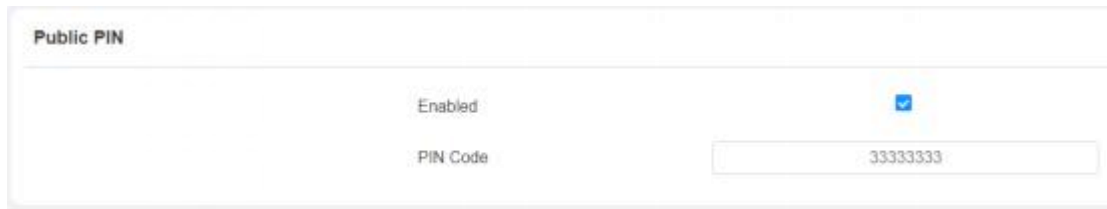


## 16.2 Configure PIN Code for Door Unlock

You can create and modify both the Public PIN code and the private PIN code for door access on X915 series door phones.

### 16.2.1 Configure Public PIN code

You can configure and modify a total of 3 sets of separate PIN codes on the device web **Access > Control > PIN Setting > Public PIN** interface.



Public PIN

Enabled

PIN Code

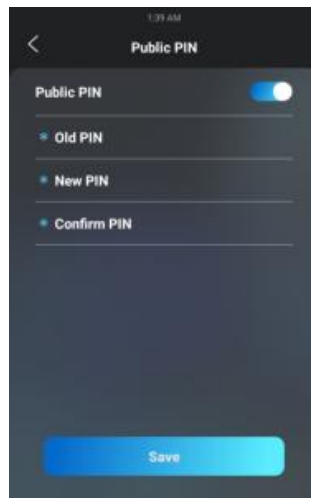
**Note**

- The public PIN code will not be valid until the function is turned on.

**Parameter Set-up:**

- **Enabled:** tick the checkbox to enable the Public PIN code application.
- **PIN Code:** set the PIN code with a digit limit ranging from **4-8**.

To configure it on the web device, go to **Security > Public PIN**.

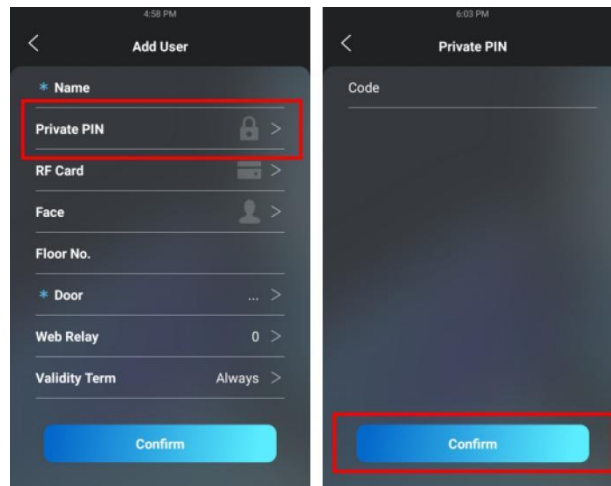


**Note**

- The public PIN code will not be valid until the function is turned on.

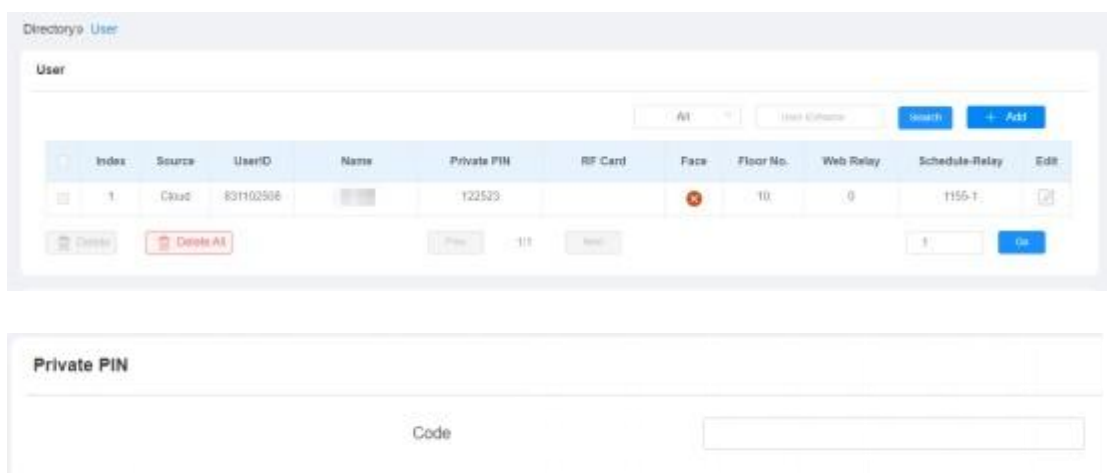
### 16.2.2 Configure Private PIN Code on the Device

You can configure door access by Private PIN code on the device by entering the user's name and the PIN code for the door access. To configure the language display on the device **Setting > User > Add** interface.

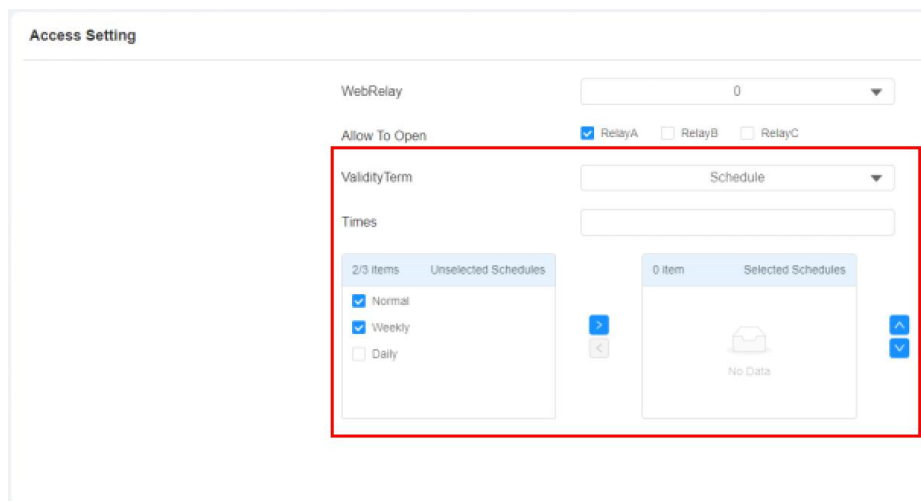


### 16.2.3 Configure Private PIN Code on the Web Interface

On the web interface, you can not only set up the PIN code but also set and select the door access schedule that you created for the validity of the PIN Code access during a certain time span you scheduled. In addition, you can set the limit for the total number of valid PIN code door access. To configure the configuration on the web **Directory > User** interface.



Select door access schedule for Private PIN Code door access:



**Parameter Set-up:**

- **Allow To Open Relay:** select the relay for the door unlock for the user.
- **Web relay:** select the specific number of web relay action commands you have set up on the web interface.
- **Building:** enter the build name.
- **Floor NO:** enter the resident's floor number.
- **Schedule:** select from the created door access schedule on the right box and move the one to be applied to the user(s)-specific PIN code door access to the box on the right side.

**Note**

- This step is applicable to door access by RF card and Facial recognition as they are identical in configuration.

**16.2.4 Configure Private PIN Access Mode**

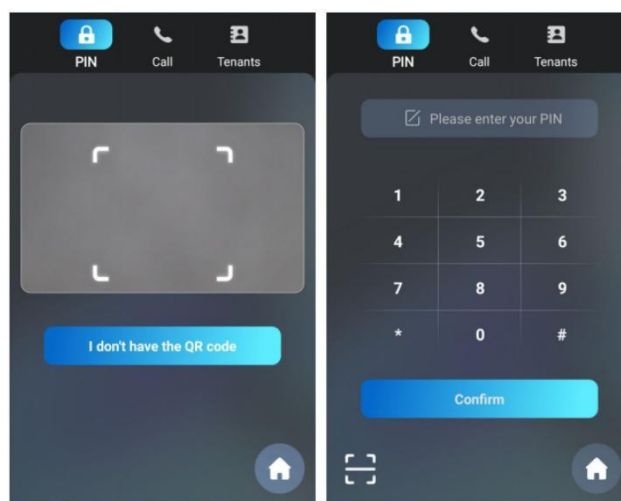
X915 series door phone offers you two types of access modes for private PIN code access, namely **PIN** and **APT#+PIN**". To configure the configuration on the web **Access Control > PIN Setting > Private PIN** interface.

Private PIN

|              |          |
|--------------|----------|
| Display Mode | Keyboard |
| PIN Mode     | PIN      |

**Parameter Set-up:**

- **Display Mode:** select access mode between QR Code and Keyboard.



**Note**

- **QR Code** can only be applicable when the device is added to the Akuvox SmartPlus.

To configure the Display Mode and PIN Mode:

Private PIN

|              |          |
|--------------|----------|
| Display Mode | Keyboard |
| PIN Mode     | PIN      |

**Parameter Set-up:**

- **PINMode:** select access mode between **PIN** and **APT#+PIN**. if you select **PIN** then you are only required to enter the PIN code directly for the door access, while if you select **APT#+PIN**, then you are required to enter the Apartment Number first before entering your PIN code for the door access.

**Note**

- **APT#+PIN** can only be applicable when the device is added to the Akuvox SmartPlus.

## 16.3 Configure RF Card for Door Unlock

### 16.3.1 Configure RF Card on the Web Interface

To configure the configuration on the web **Access Control > User > RF Card** interface.

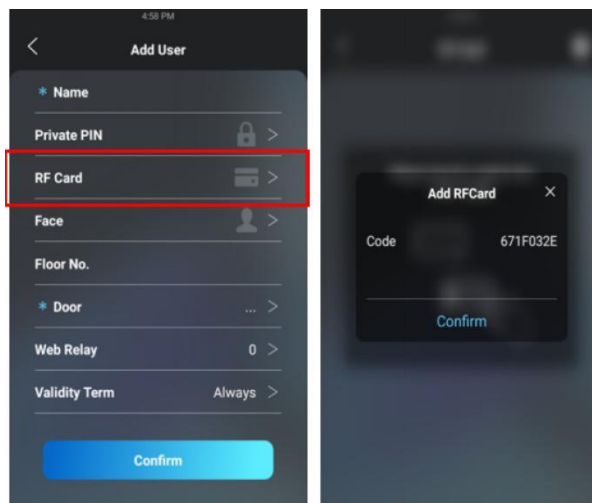
The screenshot shows the 'RF Card' configuration page. It includes a 'Reader Status' dropdown menu currently set to 'Normal', a text input field for 'Code', and two blue buttons labeled 'Obtain' and 'Add'.

**Note**

- Please refer to PIN code access schedule selection for the RF card user(s)-specific door access.
- RFcard with 13.56 MHz and 125 KHz can be applicable to the door phone for door access.

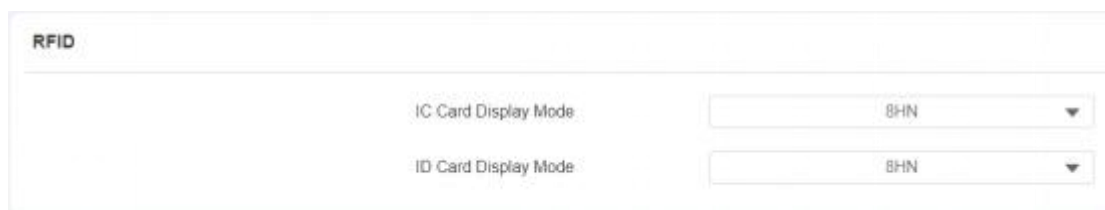
### 16.3.2 Configure RF Card on the device

You can configure the RF card directly on the device for the door access while setting up the time schedule for the validity of the RF card access along with the web relay that can be triggered with RF card etc. To configure the language display on the device **Setting > User > Add** interface.



### 16.3.3 Configure RF Card Code Format

If you want to integrate with the third-party intercom system in terms of RF card door access, you can change the RF card code format to be identical to that applied in the third-party system. To configure the configuration on the web **Access Control > Card Setting** interface.



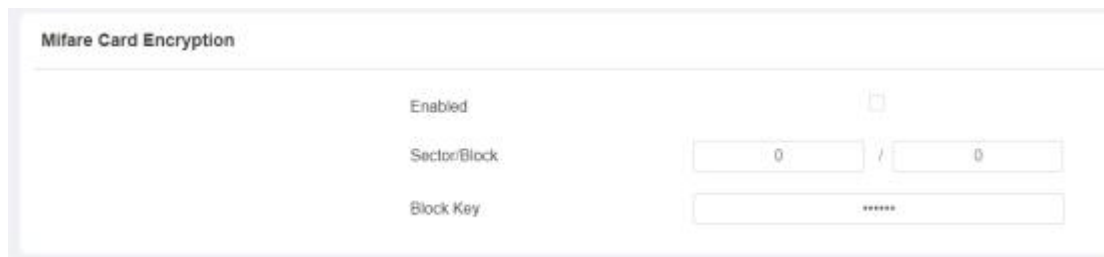
**Parameter Set-up:**

- **IC-Card Display Mode:** select the card format for the **ID Card** for the door access among five format options: **8H10D, 6H3D5D(W26), 6H8D, 8HN, and 8HR**. The card code format is 8HN by default.

## 16.4 Mifare card Encryption

X915 can read the encrypted Mifare card for greater security. To do so you can navigate to **Access Control > Card setting > Mifare Card Encryption**.





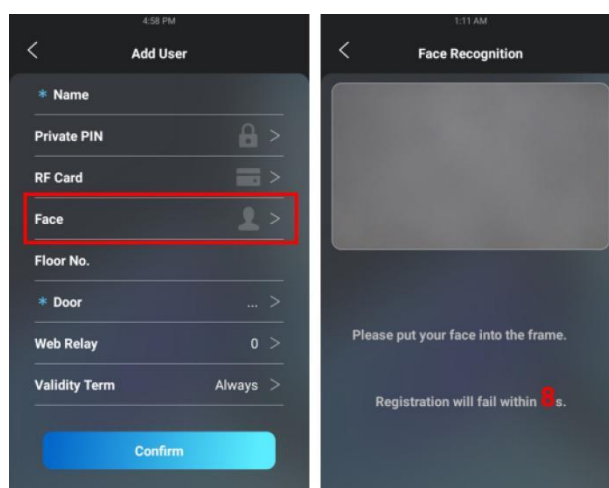
**Parameter Set-up:**

- **Enabled:** enable the Mifare/Defire Card Encryption.
- **Sector/Block:** enter the sector and block in which the card number is located in the Mifare/Defire Card. For example, the card number can be in sector 3 and block 3 in the card.
- **Block Key:** enter the block password for access.

## 16.5 Configure Facial Recognition for Door Unlock

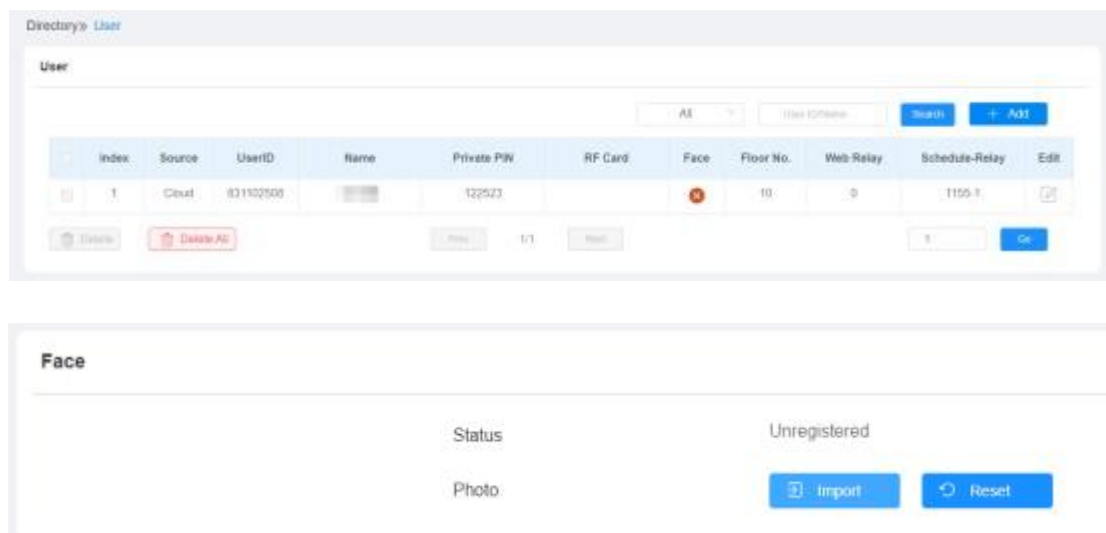
### 16.5.1 Enroll Face Data on the Device

You can enroll face data on the device by entering the user's name and registering your facial ID on the device for door access. To do it on the device, go to **Setting > User > face** interface.



## 16.5.2 Upload Face Data on the Web Interface

You can upload the face data to the device on the web interface. To do so, go to **Directory > User**, then click **+Add**. After that, you can upload the face photo.

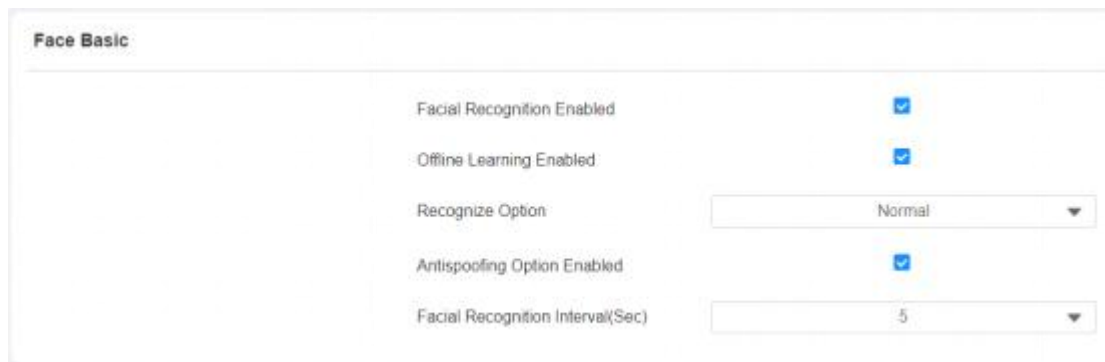


### Note

- Pictures to be uploaded should be in jpg or png format.

## 16.6 Configure Facial Recognition on Web Interface

X915 series door phone allows you to adjust facial recognition accuracy, and recognition intervals according to your actual need. And you can also improve the recognition quality and user experience through the basic facial recognition setting. To configure the configuration on the web **Access Control > Face Setting** interface.

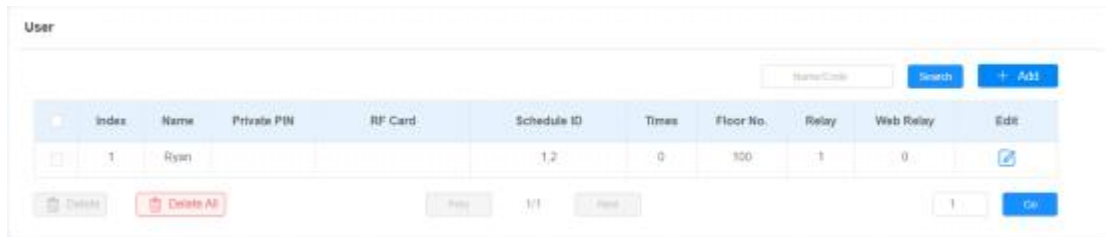


**Parameter Set-up:**

- **Face Recognition:** click on **Enable** to turn on the facial recognition function. Facial recognition is enabled by default.
- **Offline Learning:** select **Enable** if you want to improve the device recognizing capability, focusing on the major facial characteristics while sidelining the minor changes that occurred to your face. Facial recognition accuracy improves as the number of facial recognition increases.
- **Recognize Option:** click to select the facial recognition accuracy level among four options: **Low, Normal, High, and Highest**. For example, if you select **Highest** then there will be the least possibility that someone else will be mistaken for you by mistake or in another way round in the facial recognition.
- **Antispoofing Option:** select the Anti-spoofing level among four options: **Low, Normal, High, and Highest**. For example, if you select **Highest** then there will be the least possibility that the device will be fooled by digital images or pictures of any kind.
- **Facial Recognition Interval:** select a time interval between every two facial recognitions from 1-8 minutes. For example, if you select **5"** then you have to wait for 5 min. before you are allowed to perform the facial recognition again.

## 16.7 Edit the User-specific door access data

You can search user(s)-specific door access and edit the door access data on the web **Access Control > User** interface.



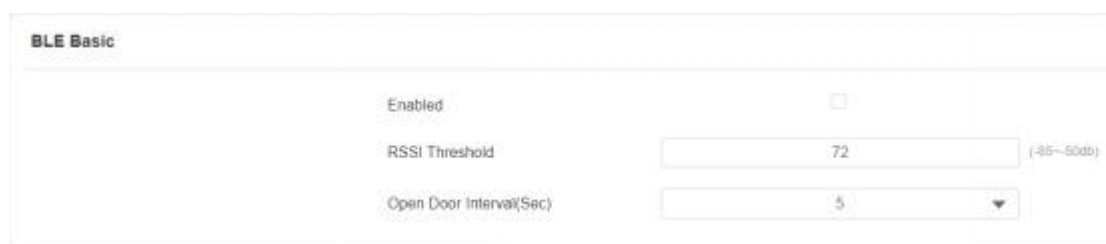
## 16.8 Import and Export User Data of Access Control

X915 series support User Data of access control to be shared among Akuvox X915 series door phones through import and export while you can also export the facial data out of the door phone and then import to a third-party device. To configure the configuration on the web **Access Control > User > Import/Export User** interface.



## 16.9 Configure Bluetooth for Door Unlock

You can also gain the door access by mobile phone with Bluetooth which is used together with Akuvox SmartPlus. You can shake the mobile phone closer to the door phone for door access. To configure the configuration on the web **Access Control > BLE Basic** interface.



### Parameter Set-up:

- **BLE Enable:** enable or disable the Bluetooth function. Bluetooth is turned off by default.

- **RSSI Threshold:** select the signal receiving strength from -85~-50db in absolute terms, The higher value it is, the greater strength it has. The default value is 72db in absolute terms.
- **Open Door Interval (Sec):** select the time interval between every two Bluetooth door accesses.

## 16.10 Configure Open Relay via HTTP for Door Unlock

You can unlock the door remotely without approaching the device physically for the door access by typing in the created HTTP command (URL) on the web browser to trigger the relay when you are not available by the door for the door access. To configure the configuration on the web **Access Control > Relay > Open Relay via HTTP** interface.

The screenshot shows a web interface titled "Open Relay via HTTP". It contains three main elements: a toggle switch labeled "Enabled" which is currently turned on, a text input field labeled "User Name", and a password input field labeled "Password" with masked characters (\*\*\*\*\*).

### Parameter Set-up:

- **Enable:** enable the HTTP command unlock function by clicking on **Enable**
- **UserName:** enter the user name of the device web interface, for example, **Admin**.
- **Password:** enter the password for the HTTP command. For example, **12345**.

Please refer to the following example:

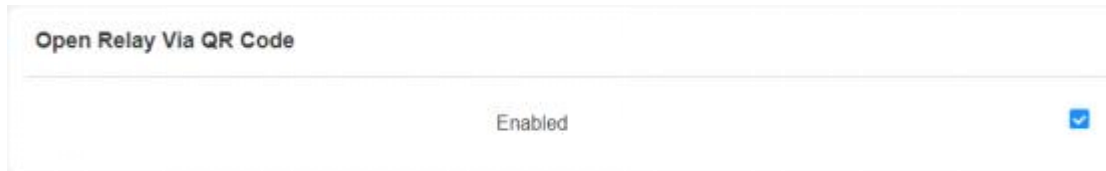
[http://192.168.35.127/fcgi/do?  
action=OpenDoor&UserName=admin&Password=12345&DoorNum=1](http://192.168.35.127/fcgi/do?action=OpenDoor&UserName=admin&Password=12345&DoorNum=1)

### Note

- **DoorNum** in the HTTP command above refers to the relay number #1 to be triggered for the door access.

## 16.11 Unlock by QR Code

QR code is another option for door access. If you want to apply for QR code access, you need to enable the QR code function. To configure the configuration on the web **Access Control > Relay > Open Relay via QR Code** interface.

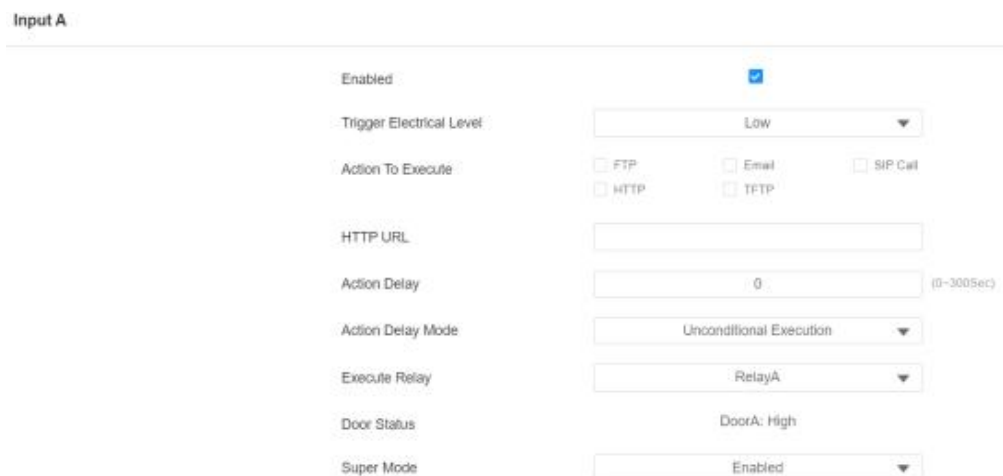


### Note

- The function should work with Akuvox SmartPlus. For more information, please contact Akuvox technical support.

## 16.12 Configure Exit Button for Door Unlock

When you need to open the door from inside using the Exit button installed by the door, you can configure the door phone Input to trigger the relay for the door access. To configure the configuration on the web **Access Control > Input > Input** interface.



**Parameter Set-up:**

- **Enabled:** it is enabled by default.
- **Trigger Electrical Level:** select the trigger electrical level options between **High** and **Low** according to the actual operation on the exit button.
- **Action to Execute:** select the method to carry out the action among four options: **FTP, Email, HTTP, and TFTP.**
- **HTTP URL:** enter the URL if you select the HTTP to carry out the action.
- **Action Delay:** set up the delay time when the action is carried out. For example, if you set the action delay time at 5 seconds, then the corresponding actions will be carried out 5 minutes after you press the button(input is triggered).
- **Action Delay Mode:** if you select **Unconditional Execution**, then action will be carried out when the input is triggered. If you select **Execute If Input Still Triggered**, then the action will be carried out if the input stays triggered. For example, if the door stays open after triggering input, an action such as an email will be sent to notify the receiver.
- **Execute Relay:** set up relays to be triggered by the input.
- **Door Status:** display the status of the input signal.
- **Super Mode:** if you enable the super mode, the administrator will be able to open the door using an RF card even when the door phone breaks down or become malfunctioned.

## 16.13 Configure Reception Tab for Door Unlock

On the device's home screen, the X915 series door phone provides residents and visitors quick door access by pressing the **Reception** tab at the bottom of the home screen. To configure the configuration on the web **Device > Key/Display > Speed Dial Action In Building Theme** interface.

**Speed Dial Action In Building Theme**

|                   |                          |
|-------------------|--------------------------|
| Account           | Auto                     |
| Open Relay        | None                     |
| Action To Execute | <input type="checkbox"/> |
| HTTP URL          |                          |

**Parameter Set-up:**

- **Open Relay:** select the relay(s) to be triggered by pressing the Reception Icon.
- **Action To Execute:** tick the check box to enable the HTTP option.
- **HTTP URL:** enter the URL command to be sent for door access. For example, <http://192.168.35.127/fcgi/do?action=OpenDoor&UserName=admin&Password=12345&DoorNum=1>

## 16.14 Unlock by DTMF Code

DTMF codes can be configured on the door phone web interface and set up identical DTMF codes on the corresponding intercom devices such as the indoor monitor, which allows residents to enter the DTMF code on the soft keypad or press the DTMF code attached to unlock tab on the screen to unlock the door for visitors etc., during a call. To configure the configuration on the web **Account > Advanced > DTMF** interface.

**DTMF**

|                    |              |
|--------------------|--------------|
| Type               | RFC2833      |
| How To Notify DTMF | Disabled     |
| Payload            | 101 (96-127) |

**Parameter Set-up:**

- **Type:** select DTMF types: **Inband, RFC2833, Info, Info+Inband and Info+RFC2833, Info+Inband+RFC2833** according to your need.



- **How to Notify DTMF:** select among four options: **Disable**, **DTMF**, **DTMF-Relay**, and **Telephone-Event** according to your need.
- **DTMF Payload:** select the payload 96-127 for data transmission identification.

**Note**

- Please refer to the chapter **Configuring DTMF Data Transmission** for the specific DTMF code setting.
- Intercom devices involved must be consistent in the DTMF type otherwise DTMF code cannot be applied.

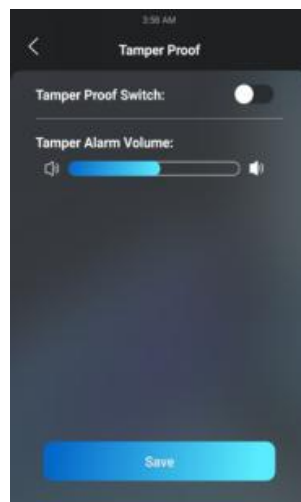
## 17 Security

### 17.1 Tamper Alarm Setting

The tamper alarm function serves as a protection against any unauthorized removal of the devices by triggering off the temper alarm while sending out calls to the designated location. Tamper alarm will be triggered off when the door phone changes its gravity value as opposed to its original gravity value set up when the device is installed.

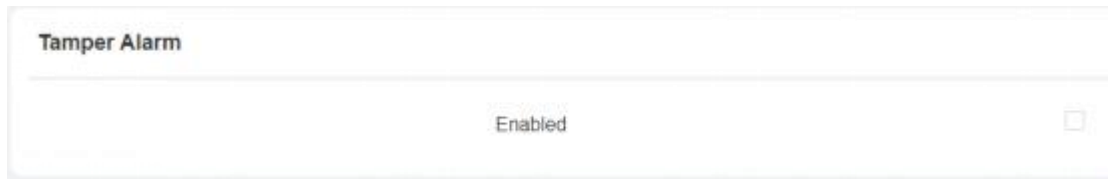
#### 17.1.1 Configure Tamper Alarm on the Device

Tamper alarm can be conveniently set up and adjusted directly on the door phone. You can set up the gravity value as well as adjust the gravity sensor sensitivity according to your actual need. To configure the tamper alarm, go to **System > Security > Tamper Alarm**.



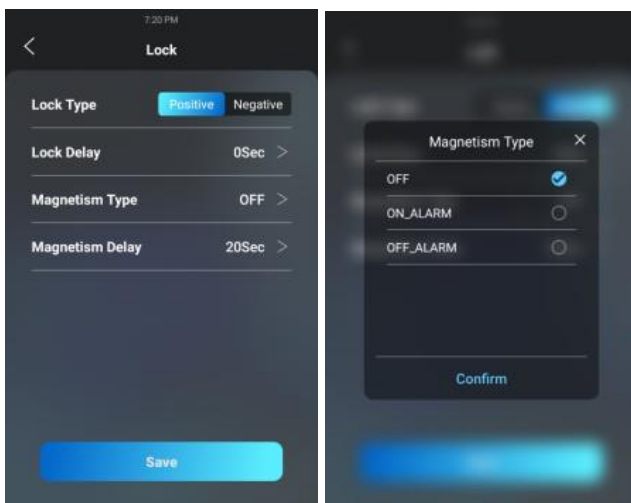
#### 17.1.2 Configure Tamper Alarm on the Web Interface

You can also set up the temper alarm function in terms of switching on the function and setting up the gravity sensor sensitivity to suit your need. To configure the configuration on the web **Security > Basic > Tamper Alarm** interface.



## 17.2 Lock Security

X915 can be connected with third-party door locks and door sensors to ensure lock security. When the door sensor detects the door is not closed or is left ajar, it will immediately trigger the alarm for notification. On the device, go to **Security > Lock** for the setting.



### Parameter Set-up:

- **Lock Type:** select **Positive** for the lock that unlocks when the power is on and select **Negative** for the lock that unlocks when the power is off.
- **Lock Delay:** select door unlocks delay time after you are granted door access. The delay time range is from 0-10 seconds.
- **Magnetism Type:** select **OFF** if you want to disable the door sensor and alarm. To set the alarm trigger type, you must select **ON-ALARM** and **OFF\_ALARM** according to the type of lock you applied. Select **ON\_ALARM** for a positive lock, while select **OFF\_ALARM** alarm for a negative lock.

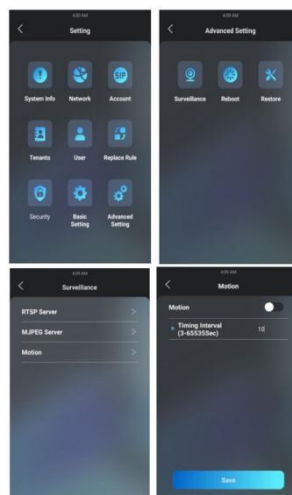
- **Magnetism Type:** select the alarm delay time after its being triggered. The delay range is from 10-120 seconds.

## 17.3 Motion Detection

Motion Detection is often used for unattended surveillance video and automatic alarms. The images collected by the camera at different frame rates will be calculated and compared by the CPU according to a certain algorithm. When the picture changes, if someone walks by, the lens is moved, the number obtained by the calculation and comparison result will exceed the threshold and indicate that the system can the corresponding processing is made automatically.

### 17.3.1 Configure Motion Detection on the Device

You can turn on the motion detection and set up the motion detection interval on the device **Advanced Setting > Surveillance > Motion** screen.



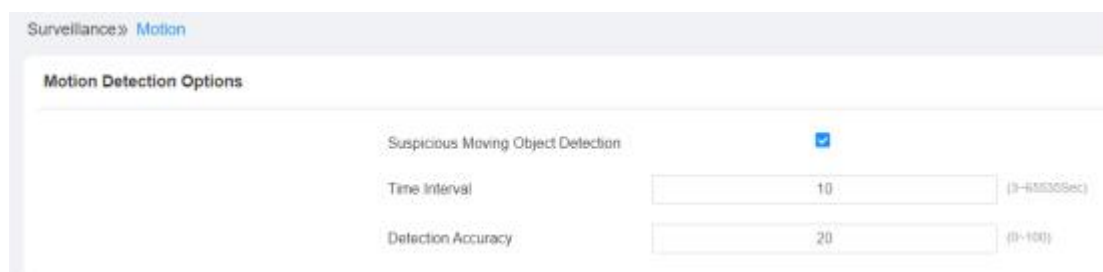
#### Parameter Set-up:

- **Interval:** the absolute triggering interval is 3 seconds. If you select a number greater than 3 seconds, then it requires a second triggering interval to trigger the alarm. For example, if you select 3 seconds, then the alarm will be triggered when a moving object is detected one time from 0 to 3 seconds (triggered any time from 0 to 3 seconds). However, for example, if you select 5 seconds (greater than 3), then the

alarm will not be triggered until a moving object is detected for the second time from 3 to 5 seconds (triggered any time from 3 to 5 seconds). The default interval is 10 seconds.

### 17.3.2 Configure Motion Detection on the Web Interface

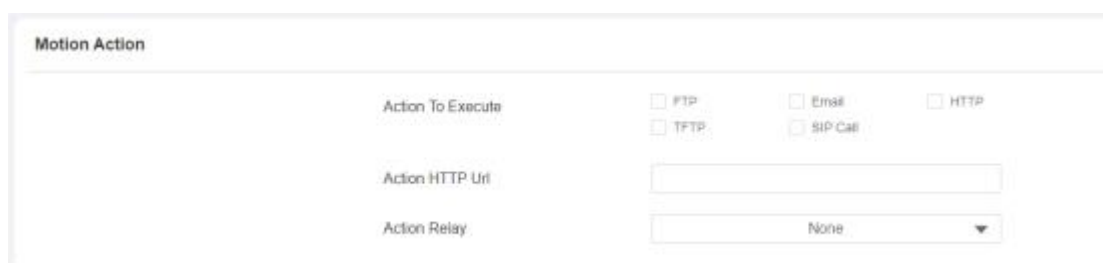
On the device web interface, you can not only configure the time interval but also the motion detection sensitivity and notification type when the motion detection action is triggered. To configure the configuration on the web **Surveillance > Motion > Motion Detection Options** interface.



**Parameter Set-up:**

- **Suspicious Moving Object Detection:** tick the check box to enable the motion detection function.
- **Time Interval:** set the time interval in the same way as you do on the device.
- **Detection Accuracy:** set the detection accuracy for the detection sensitivity. The smaller value, the greater sensitivity. The default detection accuracy value is **20**.

After you set up the interval, you can set up the action you need.



**Parameter Set-up:**

- **Action To execute:** select the method to carry out the action: FTP, Email, HTTP, TFTP, SIP Call. For example, if you select **Email**, then an Email will be sent to you after the motion detection alarm is triggered.
- **Action HTTP URL:** enter the HTTP command that will be sent to a third-party server to carry out the predefined action.
- **Action Relay:** select one of the door phone relays to carry the predefined action.

Scroll down the page, you can also set the motion detection time schedule.

## 17.4 Security Notification Setting

### 17.4.1 Email Notification Setting

If you want to receive the security notification via email, you can configure the Email notification on the web **Setting > Action > Email Notification** interface properly.

**Parameter Set-up:**

- **Sender's email address:** enter the sender's email address from which the email notification will be sent out.
- **Email SendName:** enter the name of the email sender.
- **Receiver's Email Address:** enter the receiver's email address.
- **Receiver's Email Name:** enter the name of the email receiver.
- **SMTP Server Address:** enter the SMTP server address of the sender.
- **SMTP User Name:** enter the SMTP user name, which is usually the same as the sender's email address.
- **SMTP Password:** configure the password of the SMTP service, which is the same as the sender's email address.
- **Email Subject:** enter the subject of the email.
- **Email Content:** compile the contents of the email according to your need.

### 17.4.2 FTP Notification Setting

If you want to receive the security notification via FTP, you can configure the FTP notification on the web **Setting > Action > FTP Notification** interface properly.

| FTP Notification |  |
|------------------|--|
| FTP Server       | <input type="text"/>                   |
| FTP User Name    | <input type="text"/>                   |
| FTP Password     | <input type="password" value="*****"/> |
| FTP Path         | <input type="text"/>                   |

**Parameter Set-up:**

- **FTP Server:** enter the address (URL) of the FTP server for the FTP notification.
- **FTP User Name:** enter the FTP server user name.

- **FTP Password:** enter the FTP server password.
- **FTP Path:** enter the folder name you created in the FTP server.

### 17.4.3 TFTP Notification Setting

If you want to receive the security notification via TFTP, you can configure the TFTP notification on the web **Setting > Action > TFTP Notification** interface properly.



#### Parameter set-up:

- **TFTP server:** enter the address (URL) of the TFTP server for the TFTP notification.

## 17.5 Web Interface Automatic Log-out

You can set up the web interface automatic log-out timing, requiring re-login by entering the user name and the passwords for security purposes or for the convenience of operation. To configure the configuration on the web **System > Security > Session Time Out** interface.



#### Parameter Set-up:

- **Session Time Out Value:** set the automatic web interface log-out timing ranging from 60 seconds to 14400 seconds. The default value is 300.



## 17.6 Action URL

X915 allows you to set up specific HTTP URL command that will be sent to the HTTP server for the predefined actions. Relevant actions will be initiated if there occur any changes in the relay status, input status, PIN code, and RF card access for security purposes. You can navigate to **Setting > Actions URL**.

### Note

- Action URL and format are provided by third-party manufacturers, Akuvox door phone only sends the URL to third-party devices.

The screenshot shows the 'Action URL' configuration page. At the top, there is a breadcrumb 'Setting > Action' and a title 'Action URL'. Below the title, there is a table with two columns: 'Action' and 'URL'. The 'Enabled' checkbox is checked. The actions listed are: Make Call, Hang Up, RelayA Triggered, RelayB Triggered, RelayA Closed, RelayB Closed, InputA Triggered, InputB Triggered, InputC Triggered, InputA Closed, InputB Closed, InputC Closed, Valid Code Entered, Invalid Code Entered, Valid Card Entered, and Invalid Card Entered. Each action has a corresponding text input field for the URL.

| Action               | URL                                 |
|----------------------|-------------------------------------|
| Enabled              | <input checked="" type="checkbox"/> |
| Make Call            | <input type="text"/>                |
| Hang Up              | <input type="text"/>                |
| RelayA Triggered     | <input type="text"/>                |
| RelayB Triggered     | <input type="text"/>                |
| RelayA Closed        | <input type="text"/>                |
| RelayB Closed        | <input type="text"/>                |
| InputA Triggered     | <input type="text"/>                |
| InputB Triggered     | <input type="text"/>                |
| InputC Triggered     | <input type="text"/>                |
| InputA Closed        | <input type="text"/>                |
| InputB Closed        | <input type="text"/>                |
| InputC Closed        | <input type="text"/>                |
| Valid Code Entered   | <input type="text"/>                |
| Invalid Code Entered | <input type="text"/>                |
| Valid Card Entered   | <input type="text"/>                |
| Invalid Card Entered | <input type="text"/>                |

## 17.7 Client Certificate Setting

Certificates can ensure communication integrity and privacy when deploying the Akuvox door phones. So, when the user needs to establish the SSL protocol, it is necessary to upload corresponding certificates for verification.

**Web Server Certificate:** it is the certificate that sends to the client for authentication when the client requires an SSL connection with the Akuvox door phone. Currently, the format of the certificate that can be accepted by Akuvox door phone is \*.PEM file.

Client Certificate: when Akuvox door phone Phone required an SSL connection with the server, the phone must verify the server to make sure it can be trusted. and the server will send its certificate to the Akuvox door phone. Then the door phone will verify this certificate according to the client certificate list.

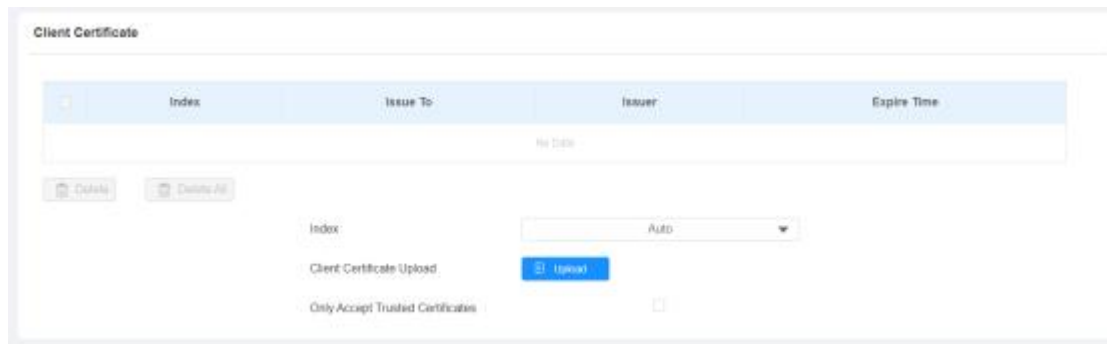
### 17.7.1 Web Server Certificate

To upload a Web Server certificate on the device web **System > Certificate > Web Server Certificate**.



### 17.7.2 Client Certificate

To upload and configure client certificates on the same page.



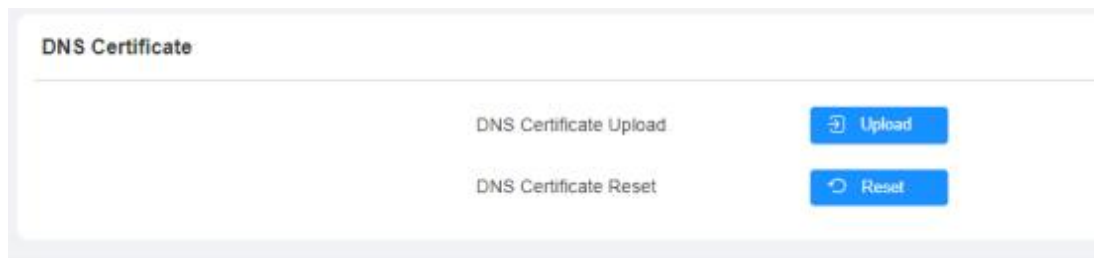
**Parameter Set-up:**

- **Index:** select the desired value from the drop-down list of Index. If you select **Auto** value, the uploaded certificate will be displayed in numeric order. If you select the value from **1** to **10**, the uploaded certificate will be displayed according to the value that the user selected.
- **Client Certificate Upload:** locate and upload the desired certificate (\*.pem only).

- **Only Accept Trusted certificates:** if you select **Enabled**, as long as the authentication success, the phone will verify the server certificate based on the client certificate list. If you select **Disabled**, the phone will not verify the server certificate no matter whether the certificate is valid or not.

## 17.8 Upload TLS Certificate for SIP Account Registration

You need to provide a TLS certificate when applying for a SIP account from a SIP server or from a DNS server using TLS protocol. So, before you apply for the SIP account, you need to upload the TLS certificate for the authentication from the servers. To upload the TLS certificate, go to **System > Security > DNS Certificate**.



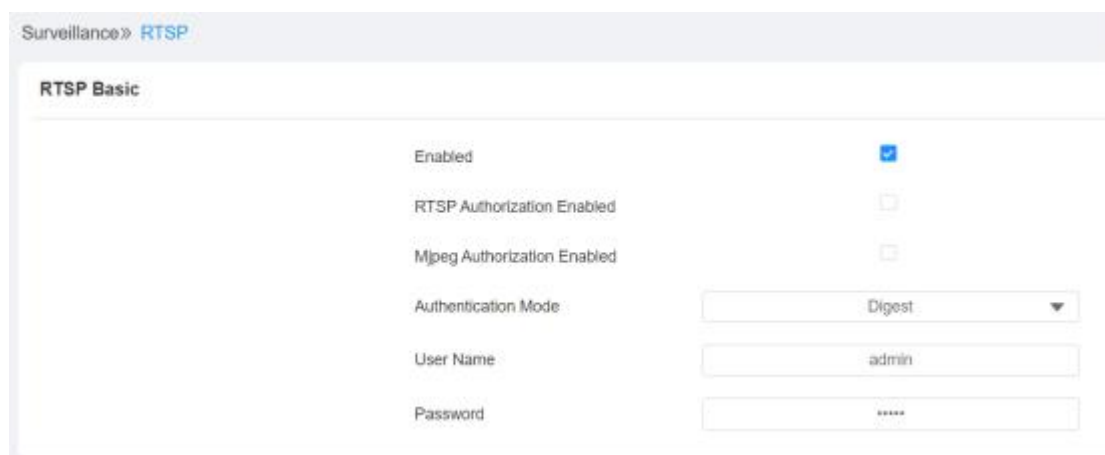
## 18 Monitor and Image

### 18.1 RTSP Stream Monitoring

X915 series door phones support RTSP stream that allows intercom devices such as an indoor monitor or the monitoring unit from the third party to monitor or obtain the real-time audio/ video (RTSP stream) from the door phone using the correct URL.

#### 18.1.1 RTSP Basic Setting

To configure the configuration on the web **Surveillance > RTSP > RTSP Basic**.



Surveillance » RTSP

RTSP Basic

|                             |  |
|-----------------------------|--|
| Enabled                     | <input checked="" type="checkbox"/>    |
| RTSP Authorization Enabled  | <input type="checkbox"/>               |
| Mjpeg Authorization Enabled | <input type="checkbox"/>               |
| Authentication Mode         | <input type="text" value="Digest"/>    |
| User Name                   | <input type="text" value="admin"/>     |
| Password                    | <input type="password" value="*****"/> |

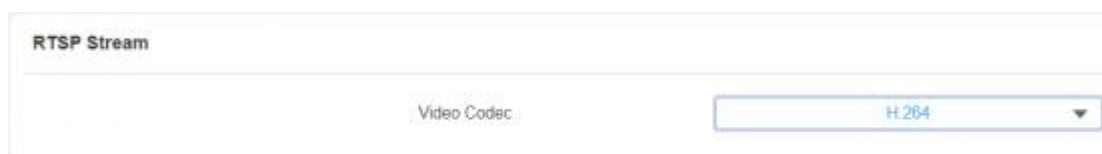
#### Parameter Set-up:

- **Enabled:** tick the check box to turn on or turn off the RTSP function.
- **RTSP Authorization Enabled:** enable the RTSP authorization. If you enable the RTSP Authorization, you are required to enter RTSP Authentication Type, RTSP Username, and RTSP Password on the intercom device such as an indoor monitor for authorization.
- **Authentication Mode:** select RTSP authentication type between Basic and Digest. Basic is the default authentication type.
- **User Name:** enter the username for the RTSP authentication.

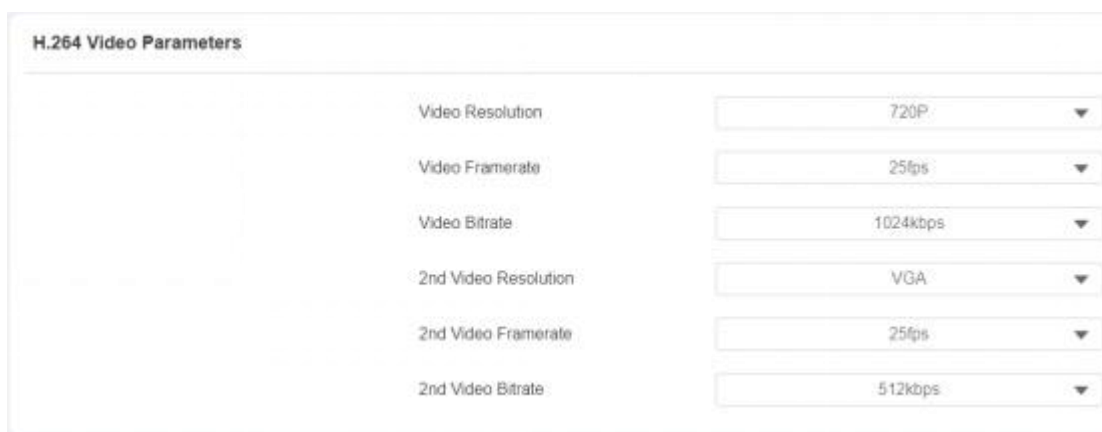
- **Password:** enter the username for the RTSP authentication.

### 18.1.2 RTSP Stream Setting

You can select the video codec for the RTSP stream. You can also configure video resolution and bitrate etc. for H.264 codec based on your actual network environment on the web **Surveillance > RTSP > RTSP Stream** interface.



To configure the parameters for H.264 codec on the web **Surveillance > RTSP > H.264 Video Parameters** interface.



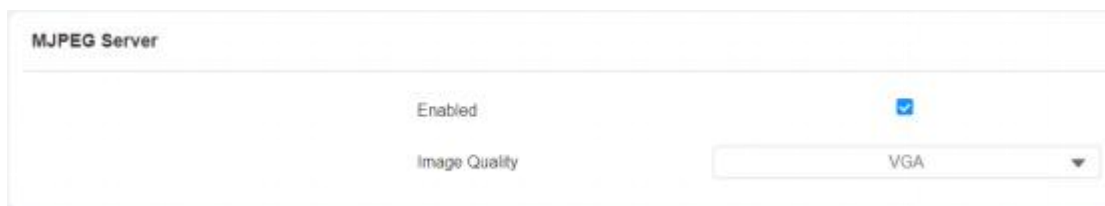
#### Parameter Set-up:

- **Video Resolution:** select video resolutions among seven options: **QCIF, QVGA, CIF, VGA, 4CIF, 720P,** and **1080P**. The default video resolution is that the video from the door phone might not be able to be shown on the indoor monitor if the resolution is set higher than **720P**.
- **Video Framerate:** **25fps** is the video frame rate by default.
- **Video Bitrate:** select video bitrate among six options: **128 kbps, 256kbps, 512 kbps, 1024 kbps, 2048 kbps, 4096 kbps** according to your network environment. The default video bitrate is **2048 kbps**.

- **2nd Video Resolution2:** select video resolution for the second video stream channel. While the default video solution is **VGA**.
- **2nd Video Framerate:** select the video framerate for the second video stream channel. **25fps** is the default video frame rate for the second video stream channel.
- **2nd Video Bitrate:** select video bitrate among the six options for the second video stream channel. While the second video stream channel is **512 kbps** by default.

## 18.2 MJPEG Image Capturing

X915 series allows you to capture the Mjpeg format monitoring image if needed. You can enable the MJPEG function and set the image quality on the web **Surveillance > MJPEG** interface.



### Parameter Set-up:

- **Enabled:** tick the check box to enable the Mjpeg service.
- **Image Quality:** select the quality for the image capturing among seven options: **QCIF, QVGA, CIF, VGA, 4CIF, 720P, 1080P**

After the MJPEG service is enabled, you can capture the image from the door phone using the following three types of URL format:

- `http:// device ip:8080/picture.cgi`
- `http://deviceip:8080/picture.jpg`
- `http://deviceip:8080/jpeg.cgi`

For example, if you want to capture the JPG format image of a door phone with the IP address: 192.168.1.104, you can enter "http://192.168.1.104:8080/picture.jpg" on the web browser.

## 18.3 ONVIF

Real-time video from the X915 series door phone camera can be searched and obtained by the Akuvox indoor monitor or by third-party devices such as NVR (**Network Video Recorder**) you can configure the ONVIF function in the door phone so that other devices will be able to see the video from the door phone. To configure the configuration on the web **Surveillance > ONVIF** interface.



The screenshot shows the 'Basic Setting' interface for ONVIF configuration. It includes a 'Discoverable' checkbox which is checked, a 'User Name' input field containing 'admin', and a 'Password' input field with masked characters (asterisks).

### Parameter Set-up:

- **Discoverable:** tick the check box to enable the DiscoverableONVIF mode. If you select **Discoverable** then the video from the door phone camera can be searched by other devices.
- **UserName:** enter the user name. The user name is **admin** by default.
- **Password:** enter the password. The password is **admin** by default.

After the setting is complete, you can enter the ONVIF URL on the third-party device to view the video stream.

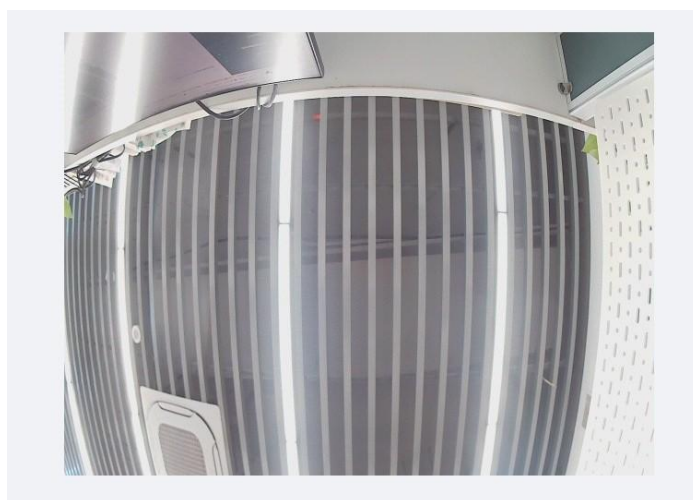
For example: **http://IP address:80/onvif/device\_service**

### Note

- Fill in the specific IP address of the door phone in the URL.

## 18.4 Live Stream

If you want to check the real-time video from the X915 series door phone, you can go to the device web interface to obtain the real-time video or you can also enter the correct URL on the web browser to obtain it directly. To view the real-time video on the web **Surveillance > Live Stream** interface. You can also enter the correct URL (**[http://IP\\_address:8080/video.cgi](http://IP_address:8080/video.cgi)**) on the web browser if you want to obtain the real-time video directly by going to the web interface.

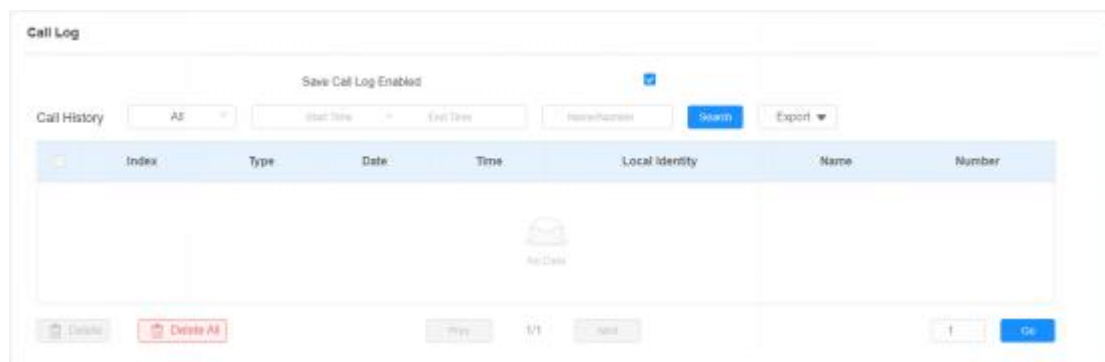




## 19 Logs

### 19.1 Call Logs

If you want to check on the calls inclusive of the dial-out calls, received calls, and missed calls in a certain period of time, you can check and search the call log on the device web interface and export the call log from the device if needed. To check the call log on the web **Status > Call Log**.

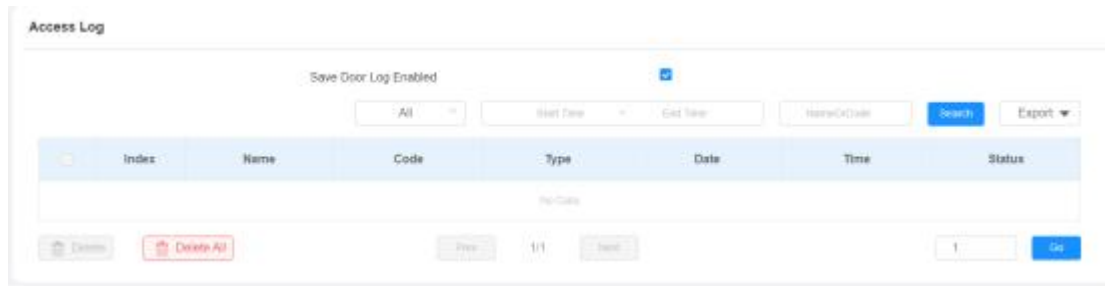


#### Parameter Set-up:

- **Save Call Log Enabled:** tick the check box to enable the call log function.
- **Call History:** select call history among four options: **All**, **Dialed**, **Received**, and **Missed** for the specific type of call log to be displayed.
- **Start Time- End Time:** select the specific time span of the call logs you want to search, check, or export.
- **Name/Number:** select the **Name** and **Number** options to search call log by the name or by the SIP or IP number.

### 19.2 Door Logs

If you want to search and check on the various types of door access history, you can search and check the door logs on the device's web **Status > AccessLog**.

**Parameter Set-up:**

- **Save Door Log Enabled:** tick the check box to enable the door log function.
- **Status:** select between **Success and Failed** options to search for successful door accesses or Failed door accesses.
- **Start Time~ End Time:** select the specific time span of the door logs you want to search, check, or export.
- **Name/Code:** select the **Name** and **Code** options to search door log by the name or by the PIN code.

## 20 Debug

### 20.1 System Log for Debugging

System logs can be used for debugging purposes. If you want to export the system out to a local PC or to a remote server for debugging, you can set up the function on the web **System > Maintenance > System Log interface**.

The screenshot shows the 'System Log' configuration page. It includes the following elements:

- Log Level:** A dropdown menu currently showing '3'.
- Export Log:** A blue button labeled 'Export'.
- Export Debug Log:** A blue button labeled 'Export'.
- Remote System Log Enabled:** A checkbox that is currently unchecked.
- Remote System Server:** A text input field.

#### Parameter Set-up:

- **Log Level:** select log levels from 1 to 7 levels. You will be instructed by Akuvox technical staff about the specific log level to be entered for debugging purposes. The default log level is **3**. The higher the level is, the more complete the log is.
- **Export Log:** click the **Export** tab to export a temporary debug log file to a local PC.
- **Export Debug Log:** click the **Export** tab to export debug log file to a local PC.
- **Remote System Log:** select **Enable** or **Disable** if you want to enable or disable the remote system log.
- **Remote System Server:** enter the remote server address to receive the device. And the remote server address will be provided by Akuvox technical support.

## 20.2 PCAP for Debugging

PCAP in X915 series door phone is used to capture the data package going in and out of the devices for debugging and troubleshooting purposes. You can set up the PCAP on the device web **System > Maintenance > PCAP** interface properly before using it.

### Parameter Set-up:

- **Specific Port:** select the specific ports from 1-65535 so that only the data packet from the specific port can be captured. You can leave the field blank by default.
- **PCAP:** click the **Start** tab and **Stop** tab to capture a certain range of data packets before clicking the **Export** tab to export the data packets to your Local PC.
- **PCAP Auto Refresh:** select **Enable** or **Disable** to turn on or turn off the PCAP auto refresh function. If you set it as Enabled then the PCAP will continue to capture data packets even after the data packets reached 1M maximum in capacity. If you set it as **Disable**, the PCAP will stop data packet capturing when the data packet captured reached the maximum capturing capacity of 1MB.

## 20.3 Remote Debug Server

When the device is having a problem, you can use the remote debug server to access the device log remotely for debugging purposes. On the web, navigate to **System > Maintenance**.

| Remote Debug Server |               |
|---------------------|---------------|
| Server              | Enabled ▼     |
| Connect Status      | Connected     |
| IP                  | 47.241.17.214 |

**Parameter Set-up:**

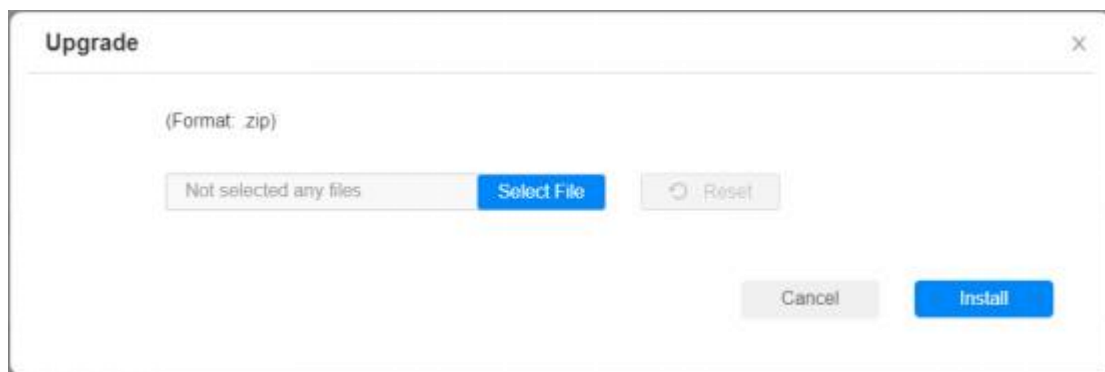
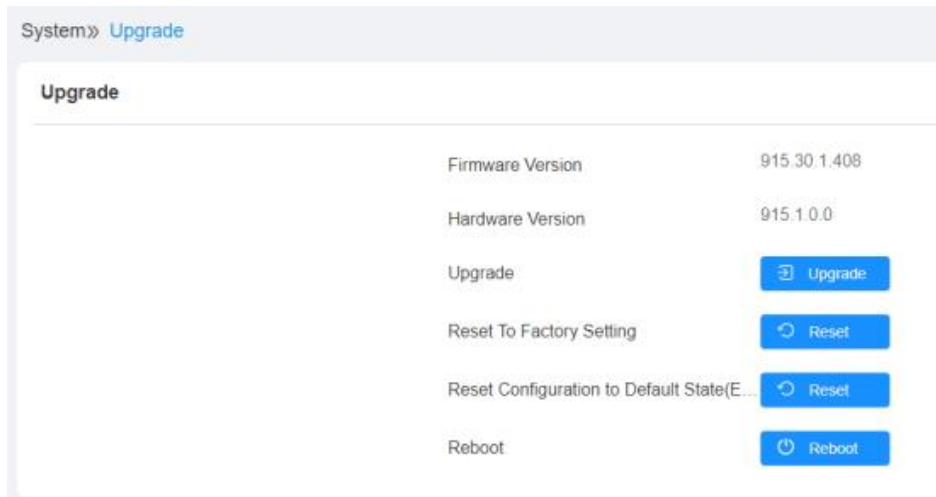
- **Server:** disable or enable the remote debug server.
- **Connect Status:** displays the remote debug server connection status.
- **IP:** enter the remote debug server IP address. Please ask Akuvox technical team for the server IP address.

**Note**

- You are required to send the door phone's MAC address to the Akuvox technical team.

## 21 Firmware Upgrade

X915 series door phones can be upgraded on the device web interface. You can go to **System> Upgrade**.



### Note

- Firmware files should be in **.zip** format for the upgrade.

## 22 Backup

If you want to import or export encrypted configuration files to your Local PC, go to **System > Maintenance > Others**.

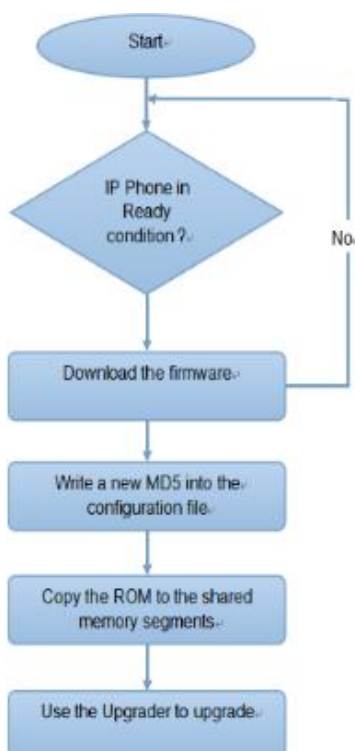


## 23 Auto-provisioning via Configuration File

Configurations and upgrading on the X915 series door phone can be done on the web interface via one-time auto-provisioning and scheduled auto-provisioning via configuration files, thus saving you from setting up configurations needed one by one manually on the door phone.

### 23.1 Provisioning Principle

Auto-provisioning is a feature used to configure or upgrade devices in batch via third-party servers. **DHCP, PNP, TFTP, FTP, and HTTPS** are the protocols used by the Akuvox intercom devices to access the URL of the address of the third-party server which stores configuration files and firmware, which will then be used to update the firmware and the corresponding parameters on the door phone.





## 23.2 Configuration Files for Auto-provisioning

Configuration files have two formats for auto-provisioning. One is the general configuration files used for the general provisioning and the other one is the MAC-based configuration provisioning.

The difference between the two types of configuration files is shown below:

- **General configuration provisioning:** a general file is stored in a server from which all the related devices will be able to download the same configuration file to update parameters on the devices, such as cfg.
- **MAC-based configuration provisioning:** MAC-based configuration files are used for auto-provisioning on a specific device as distinguished by its unique MAC number. And the configuration files named with the device MAC number will be matched automatically with the device MAC number before being downloaded for the provisioning on the specific device.

### Note

- If a server has these two types of configuration files, then IP devices will first access the general configuration files before accessing the MAC-based configuration files.

## 23.3 AutoP Schedule

Akuvox provides you with different AutoP methods that enable the door phone to perform provisioning for itself at a specific time according to your schedule.

To configure the configuration on the web **System > Auto Provisioning** interface.

**Parameter Set-up:**

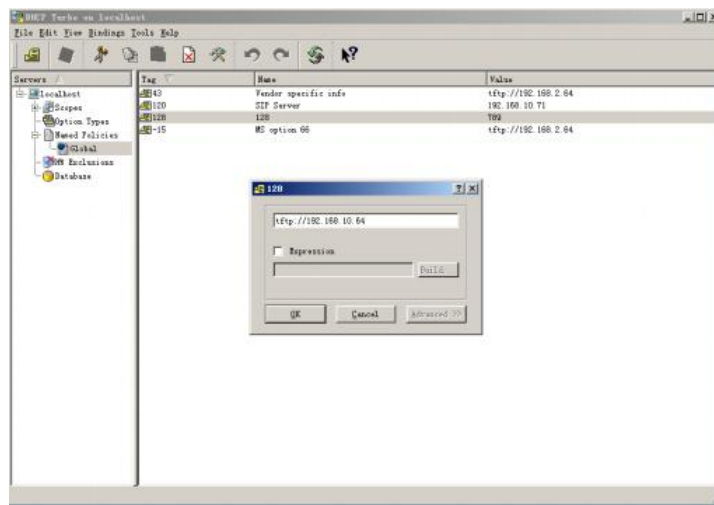
- **Mode:** Select **Power on**, **Repeatedly**, **Power On + Repeatedly**, and **Hourly Repeat** as your AutoP schedule.
  - Select **Power on** if you want the device to perform AutoP every time it boots up.
  - Select **Repeatedly**, if you want the device to perform AutoP according to the schedule you set up.
  - Select **Power On + Repeatedly** if you want to combine **Power On Mode** and **Repeatedly mode**, it would enable the device to perform AutoP every time it boots up or according to the schedule you set up.
  - Select **Hourly Repeat** if you want the device to perform AutoP every hour.

## 23.4 PNP Configuration

Plug and Play (PNP) is a combination of hardware and software support that enables a computer system to recognize and adapt to hardware configuration changes with little or no intervention by a user. To configure the configuration on the web **Upgrade > Advanced > PNP Option** interface.

## 23.5 DHCP Provisioning Configuration

Auto-provisioning URL can also be obtained using the DHCP option which allows the device to send a request to a DHCP server for a specific DHCP option code. If you want to use **Custom Option** as defined by users with option code ranging from 128-255), you are required to configure DHCP Custom Option on the web interface.



### Note

- The custom Option type must be a The value is the URL of the TFTP server.

DHCP Option

Custom Option  (128-254)

(DHCP option 66/43 is enabled by default)

### Parameter Set-up:

- **Custom Option:** enter the DHCP code that matched the corresponding URL so that the device will find the configuration file server for the configuration or upgrading.
- **DHCP Option 66:** If none of the above is set, the device will automatically use DHCP Option 66 for getting the upgrade server URL. This is done within the software and

the user does not need to specify this. To make it work, you need to configure the DHCP server for option 66 with the updated server URL in it.

- **DHCP Option 43:** If the device does not get an URL from DHCP Option 66, it will automatically use DHCP Option 43. This is done within the software and the user does not need to specify this. To make it work, you need to configure the DHCP server for option 43 with the updated server URL in it.

**Note**

- The general configuration file for the in-batch provisioning is with the format **r000000000xx.cfg**. Taking X915 as an example **r000000000915.cfg** (**10 zeros** in total while the MAC-based configuration file for the specific device provisioning is with the format MAC Address of the device.cfg, for example, **0C110504AE5B.cfg**).

**Note**

- You can upload the screen saver by AutoP.

## 23.6 Static Provisioning Configuration

You can manually set up a specific server URL for downloading the firmware or configuration file. If an autoP schedule is set up, the door phone will perform the auto-provisioning at a specific time according to autoP schedule you set up. In addition, TFTP, FTP, HTTP, and HTTPS are the protocols that can be used for upgrading the device firmware and configuration. To download the AutoP template on **System > Auto Provisioning > Automatic Autop**, and set up AutoP server on **System > Auto Provisioning > Manual Autop** interface.

### Automatic Autop

---

Mode Power On ▾

Schedule Sunday ▾

Hour(0~23)
  Min(0~59)

Clear MD5 Submit

Export Autop Template
Export

**Manual Autop**

URL

User Name

Password

Common AES Key

AES Key(MAC)

Autop Immediately

**Parameter Set-up:**

- **URL:** set up TFTP, HTTP, HTTPS, FTP server addresses for the provisioning
- **User Name:** set up a user name the server needs a user name to be accessed otherwise leave it
- **Password:** set up a password if the server needs a password to be accessed otherwise leave it
- **Common AES Key:** set up AES code for the intercom to decipher the general Auto Provisioning configuration files.

- **AES Key (MAC):** set up AES code for the intercom to decipher the MAC-based auto provisioning configuration file.

**Note**

- AES is one type of encryption, it should be configured only when the config file is encrypted with AES, otherwise leave the field blank.

**Note****Server Address format:**

- TFTP: tftp://192.168.0.19/
- FTP: ftp://192.168.0.19/ (allows anonymous login)
- ftp://username:password@192.168.0.19/(requires a user name and password)
- HTTP: http://192.168.0.19/ (use the default port 80)
- http://192.168.0.19:8080/ (use other ports, such as 8080)
- HTTPS: https://192.168.0.19/ (use the default port 443)

**Note**

- Akuvox does not provide user specified server.
- Please prepare TFTP/FTP/HTTP/HTTPS server by yourself.

Configurations and upgrading on the X915 series door phone can be done on the web interface via one-time auto-provisioning and scheduled auto-provisioning via configuration files, thus saving you from setting up configurations needed one by one manually on the door phone.

## 24 Integration with Third Party Device

### 24.1 Integration via Wiegand

If you want to integrate the X915 series door phone with the third-party devices via Wiegand. To configure the configuration on the web **Device > Wiegand** interface.

The screenshot shows the 'Wiegand' configuration page. It contains the following settings:

- Wiegand Display Mode: 8HN
- Wiegand Card Reader Mode: Wiegand-26
- Wiegand Transfer Mode: Convert To Card No. Output
- Wiegand Input Data Order: Normal
- Wiegand Output Basic Data Order: Normal
- Wiegand Output Data Order: Normal
- Wiegand Output CRC:

#### Parameter Set-up:

- **Wiegand Display Mode:** select Wiegand Card code format among **8H10D; 6H3D5D; 6H8D; 8HN; 8HR**.
- **Wiegand Card Reader Mode:** set the Wiegand data transmission format among three options: **Wiegand 26, Wiegand 34, Wiegand 58**. The transmission format should be identical between the door phone and the device to be integrated.
- **Wiegand Transfer Mode:** set the Transfer mode between **Input** or **Output** if the door phone is used as a receiver, then set it as **Input** for the door phone and vice versa.
- **Wiegand Input Data Order:** set the Wiegand input data sequence between **Normal** and **Reversed** if you select **Reversed** then the input card number will be reversed and vice versa.

- **Wiegand Output Basic Data Order:** select **Normal** if you want Wiegand output data to be displayed in a normal state. Select **Reversed** if you want to reverse the output data, for example from 0x110x220x330x44 to 0x440x330x220x11.
- **Wiegand Output Data Order:** set the Wiegand output data sequence between **Normal and Reversed** if you select **Reversed** then the input card number will be reversed and vice versa.
- **Wiegand Output CRC:** This function is used for Wiegand data inspection. It is turned on by default. If it is not turned on, you might not be able to integrate the device with third-party devices.

## 24.2 Integration via HTTP API

HTTP API is designed to achieve a network-based integration between the third-party device with the Akuvox intercom device. You can configure the HTTP API function on the web **Security > HTTP API** interface for the integration.

### Parameter set-up:

- **Enabled:** enable or disable the HPTT API function for the third-party integration. For example, if the function is disabled any request to initiate the integration will be denied and be returned HTTP 403 forbidden status.
- **Authorization Mode:** select among four options: **None, WhiteList, Basic, and Digest** for authorization type, which will be explained in detail in the following chart.



- **User Name:** enter the user name when **Basic** and **Digest** authorization mode is selected. The default user name is Admin.
- **Password:** enter the password when **Basic** and **Digest** authorization mode is selected. The default user name is Admin.
- **1st IP-5th IP:** enter the IP address of the third-party devices when the WhiteList authorization is selected for the integration.

## 24.3 Power Output Control

X915 can serve as a power supply for the external relays. You can go to **Access Control > Relay > 12V Power Output**.

The screenshot shows a configuration window titled "12V Power Output". It contains two rows of settings:

|                  |          |
|------------------|----------|
| 12V Power Output | Disabled |
| Time Out (Sec)   | 3        |

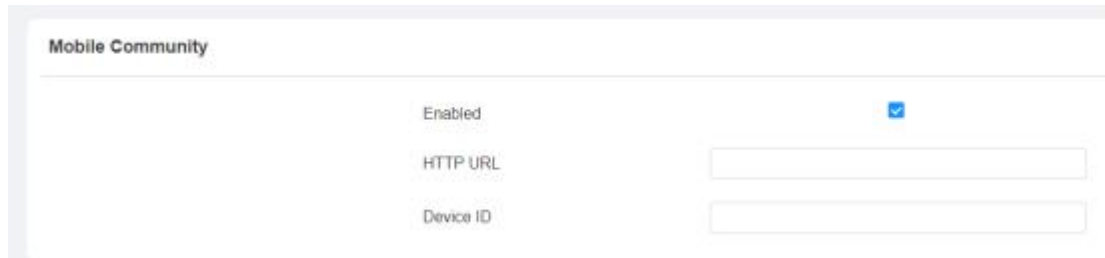
### Parameter Set-up:

- **12V Power Output:** select **Disabled** to disable the power output function; select **Always** to enable the access controller to provide continuous power to the third-party device. Select **Triggered By Open Relay** if you want the X915 to provide power to the third party device via 12 output and GND interface during the timeout when the status of relays is shifted from low to high.
- **Time Out (Sec):** select the power supply time duration after the relay is triggered. Three options: 3, 5, 10. It is 3 seconds by default. The power output is 12V, and the maximum output amperage is 0.8A.

## 24.4 Mobile Community

You can connect the door phone to the third-party QR code server for QR code verification. When you access the door using a QR code, the QR code will be sent to the QR code server for verification before granting you access permission. This feature is applied to the

devices not deployed in the SmartPlus platform for the QR code door access. You can navigate to **Access Control > Relay > Mobile Community**.



The screenshot shows the 'Mobile Community' settings page. It features a table with three rows: 'Enabled', 'HTTP URL', and 'Device ID'. The 'Enabled' row has a checked checkbox. The 'HTTP URL' and 'Device ID' rows have empty text input fields.

| Mobile Community |                                     |
|------------------|-------------------------------------|
| Enabled          | <input checked="" type="checkbox"/> |
| HTTP URL         | <input type="text"/>                |
| Device ID        | <input type="text"/>                |

## 24.5 Integration with Milestone

If you want the door phone to be monitored by Milestone or any third-party devices that have been integrated with Milestone, you need to enable the feature. To do so, go to **Surveillance > ONVIF > Advanced Setting**.

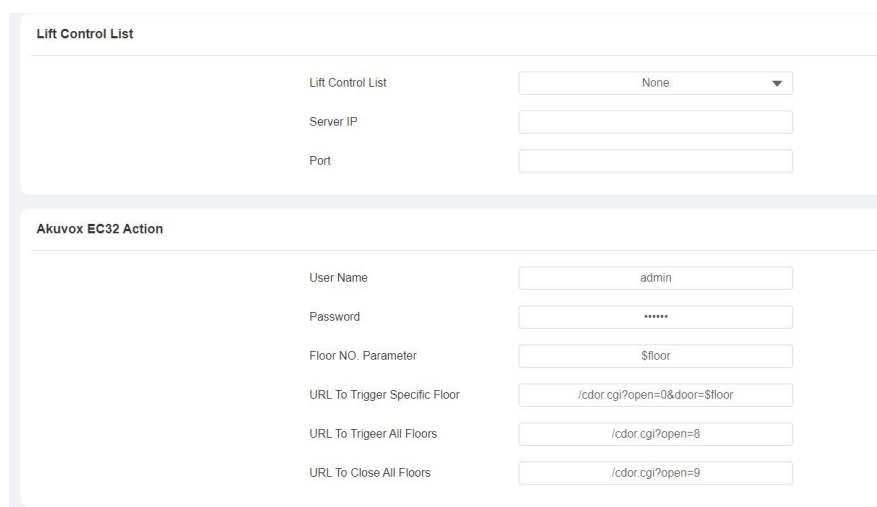


The screenshot shows the 'Advanced Setting' page. It features a table with one row: 'Milestone'. The 'Milestone' row has an unchecked checkbox.

| Advanced Setting |                          |
|------------------|--------------------------|
| Milestone        | <input type="checkbox"/> |

## 25 Lift Control

X915 door phones can be connected to the Akuvox EC32 lift controller for the lift control. You can summon the lift to go down to the ground floor when you are granted through various types of access methods on the door phone. To set up the lift control, navigate to **Device > Lift Control**.



| Lift Control List |      |
|-------------------|------|
| Lift Control List | None |
| Server IP         |      |
| Port              |      |

| Akuvox EC32 Action            |                               |
|-------------------------------|-------------------------------|
| User Name                     | admin                         |
| Password                      | *****                         |
| Floor NO. Parameter           | \$floor                       |
| URL To Trigger Specific Floor | /cdor.cgi?open=0&door=\$floor |
| URL To Trigeer All Floors     | /cdor.cgi?open=8              |
| URL To Close All Floors       | /cdor.cgi?open=9              |

### Parameter Set-up:

- **Lift Control List:** select **None** to disable the function, and select the Akuvox E32 to integrate the door phone with the Akuvox EC32 controller.
- **Server IP:** enter the IP address of the Akuvox EC32 controller server.
- **Server Port:** enter the Sever port of the Akuvox EC32 controller server.
- **User Name:** enter the user's name of the lift controller for the authentication.
- **Password:** enter the password of the lift controller for the authentication.
- **Floor NO. Parameter:** enter the Floor number parameter provided by Akuvox. The default parameter string is "**\$floor**". You can define your own parameter string if needed.
- **URL To Trigger Specific Floor:** enter the Akuvox life control URL for triggering a specific floor. The URL is "**/cdor.cgi?open=0&door=\$floor**", but the string "**\$floor**" at the end must be identical to the parameter string you defined.

- **URL To Trigger All Floors:** enter the Akuvox URL for triggering all floors.
- **URL To Close All Floors:** enter the Akuvox URL used for closing all floors, meaning all the buttons that are triggered for the corresponding floors will become invalid.

## 26 Password Modification

### 26.1 Modifying Device Web Interface Password

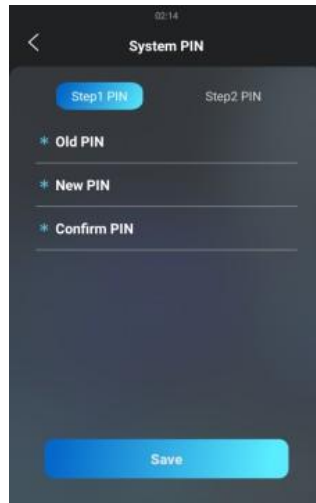
To change the default web password on web **System > Security > Web Password Modify** interface. Select **admin** for the administrator account and **User** for the User Account. Click the **Change Password** tab to change the password.

The image shows two parts of the web interface. The top part is the 'Web Password Modify' page, which has a breadcrumb 'Security > Basic'. It features a form with an 'Account' dropdown menu currently set to 'admin' and a blue 'Change Password' button. Below this is an 'Account Status' section with two rows: 'admin Enabled' with a checked checkbox and 'user Enabled' with an unchecked checkbox. The bottom part is a 'Change Password' modal dialog box. It contains a password strength requirement: 'The password must be at least eight characters long containing one uppercase letter, one lowercase letter and one digit at least.' The 'User Name' field is pre-filled with 'admin'. There are three input fields for 'Old Password', 'New Password', and 'Confirm Password'. At the bottom right of the dialog are 'Cancel' and 'Change' buttons.

### 26.2 Modifying System Password

System PIN code is used to access the device system. You can modify the system PIN code on the device and web interface.

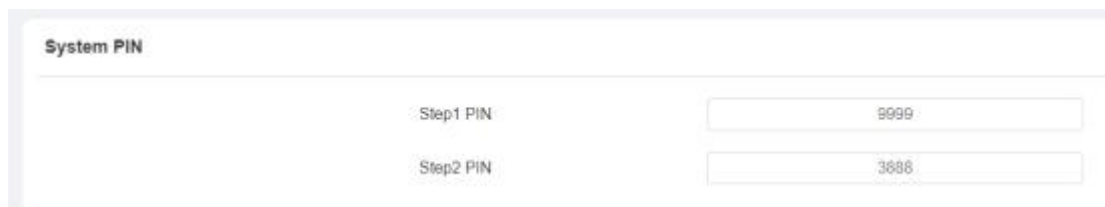
To set the system pin code on the device, go to **Security > System PIN**, then select **Step1 PIN**.



#### Parameter Set-up:

- **User Name:** modify the Admin or user password if needed.
- **User:** Enable the user account if needed.

To set up a system PIN on the web interface, navigate to **System > Security > System PIN**.



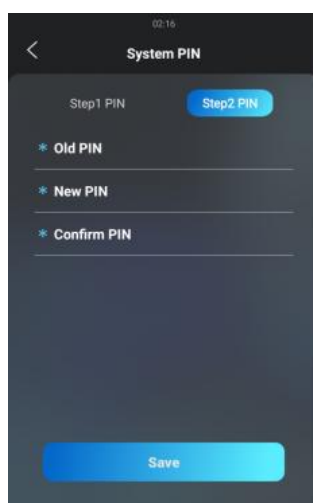
#### Note

- The default system entry password is 9999 and the system setting password is 3888.

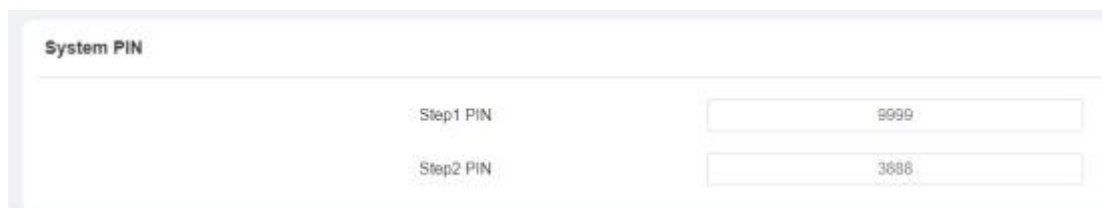
## 26.3 Modifying Setting Password

Setting PIN code is used to access the device setting. You can modify the system PIN code on the device and web interface.

To set the system pin code on the device, go to **Security > System PIN**, then select **Step2 PIN**.



To set up the Setting password on the web interface, navigate to **System > Security > System PIN**.



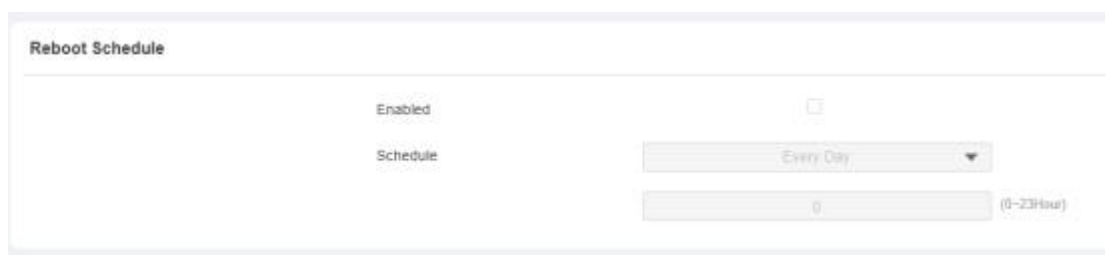
### Note

- The default system entry password is 9999 and the system setting password is 3888.

## 27 System Reboot&Reset

### 27.1 Reboot

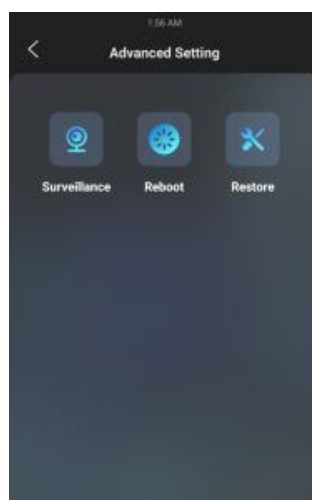
If you want to restart the device system, you can operate it on the device web interface as well. Moreover, you can set up a schedule for the device to be restarted. To restart the system setting on the web **System > Upgrade** interface.



#### Parameter Set-up:

- **Enabled:** enable the reboot mode, or choose **Schedule** mode for setting the reboot time regularly.
- **Schedule:** if you choose schedule mode, also need to set up the reboot schedule. From Monday to Sunday and 00: 00 to 24: 00.

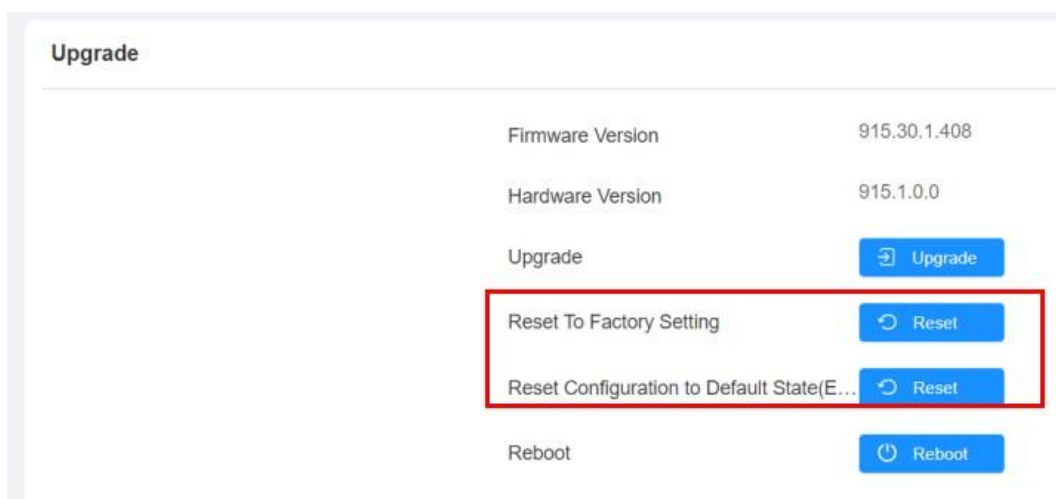
To reboot the device, go to **Advanced Setting > Reboot**.



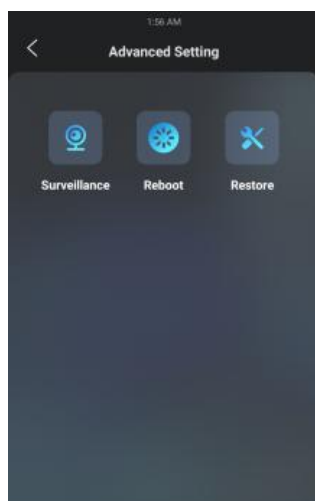


## 27.2 Reset

You can select **Reset To Factory Setting** if you want to reset the device (deleting both configuration data and user data such as RF cards, face data, and so on). Or, select **Reset Configuration to Default State (Except Data) Reset**, if you want to reset the device (retaining the user data). To reset the device, go to **System > Upgrade**.



To reset the device to the factory setting on the device, go to **Advanced Setting > Restore**.



## 28 Abbreviations

**ACS:** Auto Configuration Server

**Auto:** Automatically

**AEC:** Configurable Acoustic and Line Echo Cancelers

**ACD:** Automatic Call Distribution

**Autop:** Automatic Provisioning

**AES:** Advanced Encryption Standard

**BLF:** Busy Lamp Field

**COM:** Common

**CPE:** Customer Premise Equipment

**CWMP:** CPE WAN Management Protocol

**DTMF:** Dual Tone Multi-Frequency

**DHCP:** Dynamic Host Configuration Protocol

**DNS:** Domain Name System

**DND:** Do Not Disturb

**DNS-SRV:** Service record in the Domain Name System

**FTP:** File Transfer Protocol

**GND:** Ground

**HTTP:** Hypertext Transfer Protocol

**HTTPS:** Hypertext Transfer Protocol Secure Socket Layer

**IP:** Internet Protocol

**ID:** Identification

**IR:** Infrared

**LCD:** Liquid Crystal Display

**LED:** Light Emitting Diode

**MAX:** Maximum

**POE:** Power Over Ethernet

**PCMA:** Pulse Code

**PCMA:** Pulse Code Modulation A-Law

**PCMU:** Pulse Code Modulation  $\mu$ -Law

**PCAP:** Packet Capture

**PNP:** Plug and Play

**RFID:** Radio Frequency Identification

**RTP:** Real-time Transport Protocol

**RTSP:** Real Time Streaming Protocol

**MPEG:** Moving Picture Experts Group

**MWI:** Message Waiting Indicator

**NO:** Normal Opened

**NC:** Normal Connected

**NTP:** Network Time Protocol

**NAT:** Network Address Translation

**NVR:** Network Video Recorder

**ONVIF:** Open Network Video Interface Forum

**SIP:** Session Initiation Protocol

**SNMP:** Simple Network Management Protocol

**STUN:** Session Traversal Utilities for NAT

**SMTP:** Simple Mail Transfer Protocol

**SDMC:** SIP Devices Management Center

**TR069:** Technical Report069

**TCP:** Transmission Control Protocol

**TLS:** Transport Layer Security

**TFTP:** Trivial File Transfer Protocol

**UDP:** User Datagram Protocol

**URL:** Uniform Resource Locator

**VLAN:** Virtual Local Area Network

**WG:** Wiegand

## 29 FAQ

Q1: How to obtain the IP address of R2X

A1: ✓ For devices with a single button - E21/ R20/ R23/ R26:

While E21/ R20/ R23/ R26 power up normally, hold the call button for 5 seconds after the statue LED turns blue and it will enter IP announcement mode. In announcement mode, the IP address will be announced repeatedly. Press the **call button** again to quit the announcement mode.

✓ For devices with multiple numeric keyboards - R27:

While R27 power up normally, press **\*2396#** to enter the home screen and press **1** to go to the **System Information** screen to check the IP address.

✓ For devices with touch screen - X915:

While X915 power up normally, in the dial interface, press **9999**, **Dial key**, **3888**, and **OK** to enter the system setting screen. Go to the **Info** screen to check the IP address.

✓ Common method:

Using Akuvox IP Scanner to search Akuvox devices in the same LAN network.

Q2: Do Akuvox devices support opus codec?

A2: For now, only Akuvox Android video IP phone R48G can support Opus audio codec.

Q3: What is the supported temperature range for the Akuvox door phone?

A3: R20/E21/R26/R23/Standard R27/Standard X915 -- 14° to 112°F (-10° to 45°C)  
R27/X915 with heating supporting --- 40 degrees  
R28 -- (-40°C~55°C)

Indoor Monitor -- 14° to 112°F (-10° to 45°C)

IP Phone -- 32°~104°F(0~40°C)

Q4: Do Akuvox devices support Modbus protocol?

A4: No.

Q5: Failure in importing the X915 face data to another X915 using the exported face data.

A5: Please confirm the following steps:

The import format is zip.

1. After you export, you need to unzip the .tgz folder, then make the unzipped folder into .zip again.

Q6: Which version of ONVIF do R20 and X915 support?

A6: Onvif 18.04 profiles

Q7: Do door phones support these card types? Prox, Legacy iClass, iClassSE, HID Mifare, HID DESFire, and HID SEOS

A7: Sorry, they are not supported. They need to be implemented via hardware modifications.

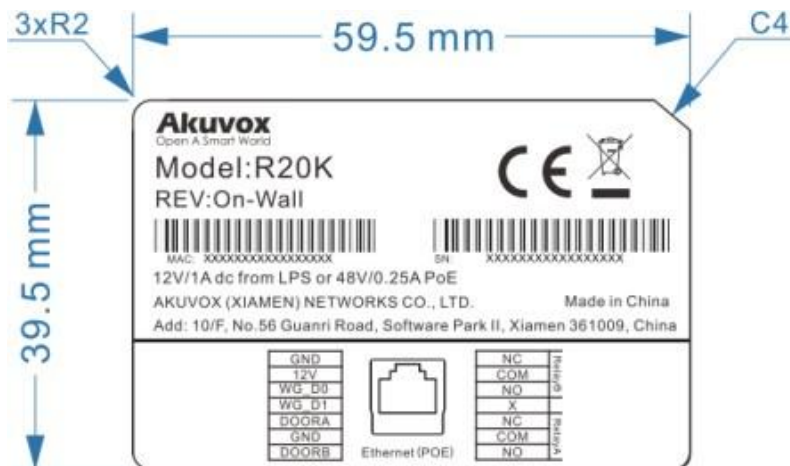
Q8: How to confirm whether my device is hardware version 1 or hardware version 2?

## A8: 1. Label

- Hardware version 1



- Hardware version 2



- Firmware Version

The firmware is different between the hardware version1 and hardware version 2.

Go to **Web > Status > Firmware Version**.

20.X.X.X is hardware version 1.

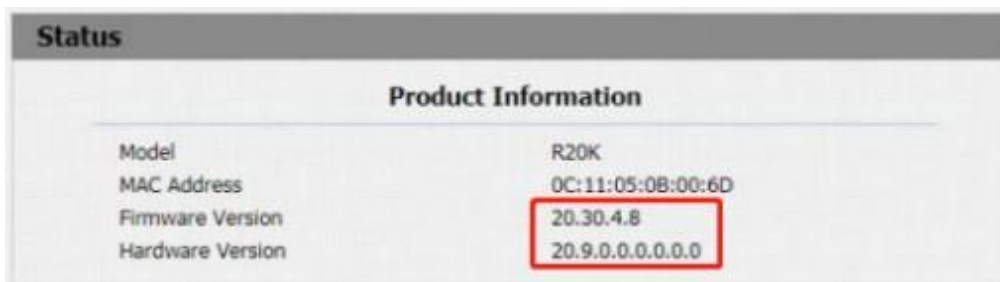
220.X.X.X is hardware version 2.

- **Hardware version**

The firmware is different between the hardware version 1 and hardware version 2.

Go to **Web > Status > Firmware Version**.

If the hardware version is 220.x, then the device is hardware version 2.



| Status              |                   |
|---------------------|-------------------|
| Product Information |                   |
| Model               | R20K              |
| MAC Address         | 0C:11:05:0B:00:6D |
| Firmware Version    | 20.30.4.8         |
| Hardware Version    | 20.9.0.0.0.0.0.0  |



## 30 Contact us

For more information about the product, please visit us at [www.akuvox.com](http://www.akuvox.com) or feel free to contact us by

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We highly appreciate your feedback about our products.

