

About This Manual



WWW.AKUVOX.COM



AKUVOX A02 ACCESS CONTROL

Administrator Guide


Thank you for choosing the Akuvox A02 access control terminal. This manual is intended for the administrators who need to properly configure the access control terminal. This manual is written based on firmware version: 101.30.10.49, and it provides all the configurations for the functions and features of the A02 access control terminal. Please visit the Akuvox forum or consult technical support for any new information or the latest firmware.

Product Overview

Akuvox Access control terminals A02 incorporate a door controller and an RFID reader in one standalone device, thus saving your solution costs. It is equipped with a card reader (125kHz and 13.5MHz) which is currently capable of handling a majority of cards in wide use. A0X is designed to provide you with greater flexibility and security than traditional access control systems. A02 access control terminal applies to residential buildings, office buildings, and their complex.



Model Specification

Model & Feature	A02
	
Housing Material	Front panel: Toughened Glass Frame: Aluminum Alloy
Relay Out	1
Input	2
Wiegand	√
PoE	√
RAM	64MB
ROM	64MB
Card Reader	13.56MHz&125KHz
Wi-Fi	X
Bluetooth	X
IP Rating	IP65

LTE	X
USB	X
External SD Card	X
Wall Mounting	√
Flush Mounting	√
Desk Mounting	X

Introduction to Configuration Menu

- **Status:** This section gives you basic information such as product information, network information, and access log management.
- **Network:** This section covers LAN port settings.
- **Access Control:** This section covers relay, input, web relay, card settings, keypad settings, etc.
- **Directory:** This section includes access schedule management and user management.
- **Device:** This section includes light, Wiegand, lift control, and audio settings.
- **Setting:** This section deals with relay schedule, security notification settings, web relay, time, action, and HTTP API settings.
- **System:** This section covers firmware upgrade, device reset, reboot, configuration file auto-provisioning, system log and PCAP, password modification as well as device backup.

Akuvox
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A02



Homepage



Status



Network



Access Control



Directory



Device



Setting

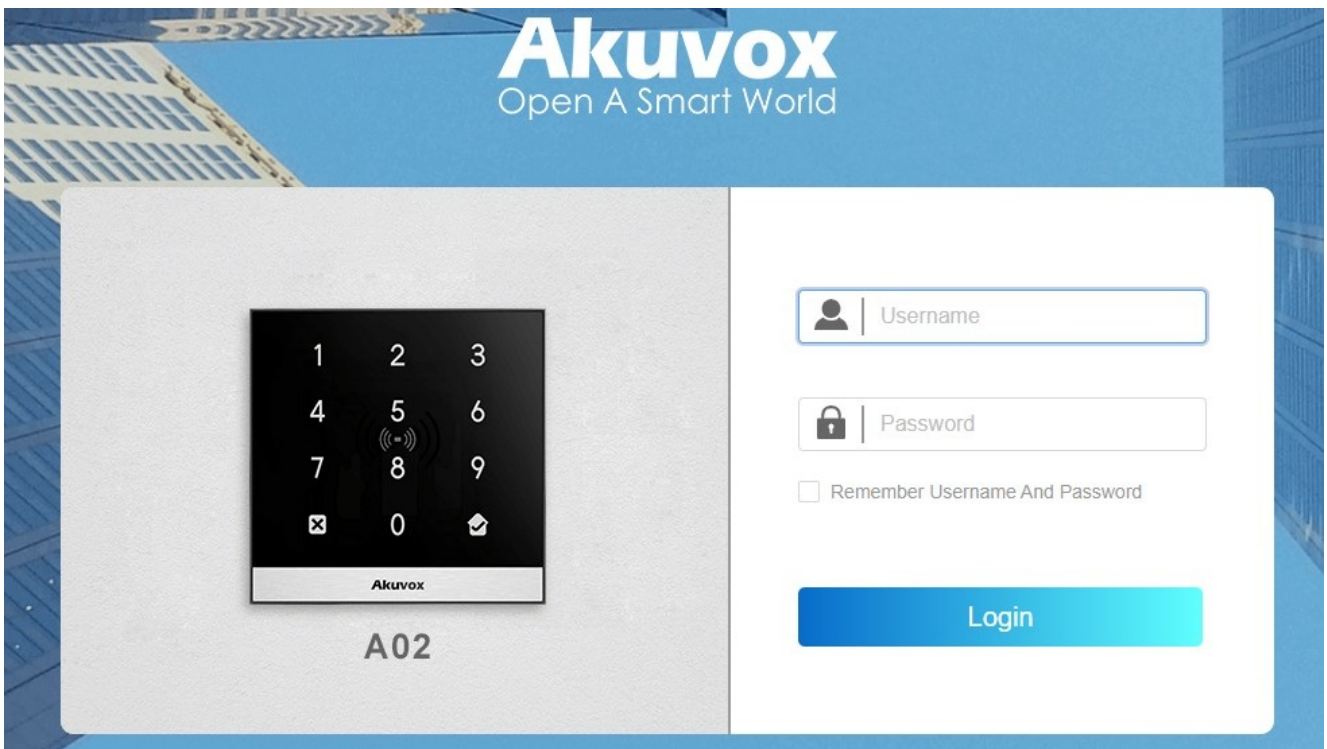


System



Access the Device

Before configuring Akuvox A02, please make sure the device is installed correctly and connects 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 log in to the web browser by user name and password **admin** and **admin**.

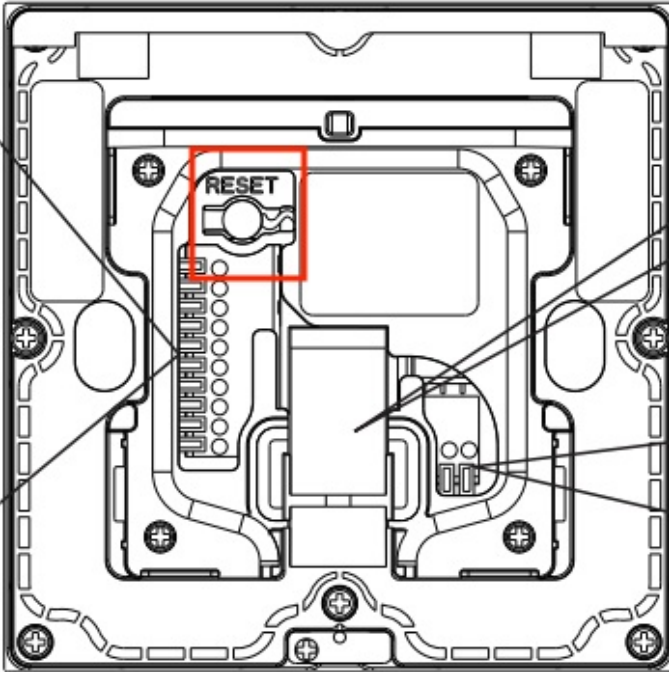


Note

- Download IP scanner:
<https://knowledge.akuvox.com/docs/akuvox-ip-scanner?highlight=IP>
- See detailed guide:
<https://knowledge.akuvox.com/v1/docs/en/how-to-obtain-ip-address-via-ip-scanner?highlight=IP%20Scanner>
- Google Chrome browser is strongly recommended.
- Please be case-sensitive to the user names and passwords entered.

You can also obtain the IP by pressing the **Reset** button on the device's back. The device will announce the IP address.

You can set up the IP announcement loop times on the **Device > Audio** interface.



IP Announcement

Loop Times

1



Time and Language

Time

Time settings on the web interface allows you to set up the NTP server address that you obtained to automatically synchronize your time and date. When a time zone is selected, the device will automatically notify the NTP server of the time zone so that the NTP server can synchronize the time zone setting in your device.

Set up time on the **Setting > Time** interface.

NTP

Automatic Date&Time Enabled	<input checked="" type="checkbox"/>
Time Zone	GMT+0:00 London ▼
Preferred Server	0.pool.ntp.org
Alternate Server	1.pool.ntp.org
Update Interval	3600 (>= 3600Sec)
Current Time	03:48:15

- **Automatic Date&Time Enabled:** If enabled, the device will update the time automatically via the NTP server (**Network Time Protocol**). Disable it if you want to set up the time manually.
- **Date/Time:** Set the date and time for the device manually when you disable the automatic date and time service.
- **Time Zone:** Select the specific time zone based on where the device is used. The default time zone is GMT+0:00.
- **Preferred Server:** Enter the primary NTP server address you want to update the time with. The default NPT server address is 0.pool.ntp.org
- **Alternate Server:** Enter the NPT server address for backup.
- **Update Interval:** Set the time update interval. For example, if you set it as 3600s, the device will send a request to the NPT server for the time update once every 3600 seconds.
- **Current Time:** Display the current device time.

Language

You can switch the web language by selecting the language in the upper right corner.

The following languages are supported: English, Simplified Chinese, Dutch, French, and German.



LED Setting

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 electrical power consumption.

To set it up, go to **Device > Light** interface.

Light Of Swiping Card Area

Backlight Intensity	<input style="width: 80%;" type="text" value="1"/>	(1-5)
Backlight Enabled	<input checked="" type="checkbox"/>	
Start Time - End Time(Hour)	<input style="width: 40%;" type="text" value="18"/> - <input style="width: 40%;" type="text" value="6"/>	(0~23)

- **Backlight Intensity:** Adjust the backlight intensity, the bigger the value, the brighter the backlight.
- **Start Time - End Time (Hour):** Select the time span for the LED lighting to be valid, e.g., if the time span is from 18-22, it means the LED light will stay on during the time span from 6:00 pm to 10:00 pm in one day (24 hours).

Keypad Light

When the keypad light is enabled, the keypad light flashes every time users press on the keypad.

To set it up, go to **Device > Light > Keypad Light** interface.

Keypad Light

Press Feedback	<input type="checkbox"/>
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Volume and Tone Configuration

Volume and tone configuration include tamper alarm and prompt volume. Besides, you can upload door-opening ringtones.

To set it up, go to **Device > Audio** interface.

Volume Control	
Tamper Alarm Volume	<input type="text" value="8"/> (1~15)
Prompt Volume	<input type="text" value="8"/> (0~15)
Keypad Volume	<input type="text" value="8"/> (1~15)

- **Tamper Alarm:** Set the volume when the tamper alarm is triggered. The default volume is 8.
- **Prompt Volume:** Set the voice prompt volume. The default volume is 8.
- **Keypad Volume:** Set the volume when pressing the keypad. The default volume is 8.

Upload Open Door Tone

You can upload the tone for open door failure and success on the device web interface.

To upload the tones, go to **Device > Audio > Open Door Tone Setting** interface. Enable the open door tone before uploading the file.

Open Door Tone Setting	
Open Door Tone Enabled	<input checked="" type="checkbox"/>
Open Door Succeed Tone Upload	<input type="button" value="Import"/> <input type="button" value="Reset"/>
Open Door Failed Tone Upload	<input type="button" value="Import"/> <input type="button" value="Reset"/>

Note

File Format: wav, size: < 200KB, pcm(sample rate: 16000, bits: 16, mono)/pcma/pcmu

Network Setting

To ensure normal functioning, make sure that the device has its IP address set correctly or obtained automatically from the DHCP server.

To set it up, go to **Network > Basic** interface.

LAN Port

Type	<input type="radio"/> DHCP <input checked="" type="radio"/> Static IP
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Preferred DNS Server	<input type="text"/>
Alternate DNS Server	<input type="text"/>

- **DHCP:** DHCP mode is the default network connection. If the DHCP mode is selected, the access control terminal will be assigned by the DHCP server with IP address, subnet mask, default gateway, and DNS server address automatically.
- **Static IP:** When static IP mode is selected, the IP address, subnet mask, default gateway, and DNS server address should be configured according to the network environment.
- **IP Address:** Set up the IP address when the static IP mode is selected.
- **Subnet Mask:** Set up the subnet mask according to the actual network environment.
- **Default Gateway:** Set up the correct gateway according to the IP address.
- **Preferred/Alternate DNS Server:** Set up the preferred or alternate Domain Name Server(DNS) server according to the actual network environment. The preferred DNS server is the primary server while the alternate DNS server is the secondary one. The secondary server is for backup.

SNMP Setting

Simple Network Management Protocol(**SNMP**) is a protocol for managing IP network devices. It allows network administrators to monitor devices and receive alerts for attention-worthy conditions. SNMP provides variables describing system configuration, organized in hierarchies and described by Management Information Bases (MIBs).

To set it up, go to **Network > Advanced** interface.

SNMP	
Enabled	<input type="checkbox"/>
Port	<input type="text" value=""/> (1024-65535)
Trusted IP	<input type="text" value=""/>

- **Port:** Set a specific port for the data transmission from 1024-65535.
- **Trusted IP:** Enter the third-party IP address.

Relay Setting

You can configure the relay switch(es) for door access on the web interface.

Relay Switch

To set up the relay, go to **Access Control > Relay > Relay** interface.

Relay

Mode	<input type="text" value="Monostable"/>	▼
Trigger Delay(Sec)	<input type="text" value="0"/>	▼
Hold Delay(Sec)	<input type="text" value="5"/>	▼
Action To Execute	<input type="checkbox"/> Email <input type="checkbox"/> HTTP	
HTTP URL	<input style="background-color: #f0f0f0;" type="text"/>	
Type	<input type="text" value="Default State"/>	▼
Relay Status	Low	
Relay Name	<input type="text" value="Relay"/>	

- **Mode:** Specify the conditions for automatically resetting the relay status.
 - **Monostable:** The relay status resets automatically within the relay delay time after activation.
 - **Bistable:** The relay status resets upon triggering the relay again.
- **Trigger Delay(Sec):** Set the delay time before the relay triggers. For example, if set to 5 seconds, the relay activates 5 seconds after pressing the Unlock button.
- **Hold Delay(Sec):** Determine how long the relay stays activated. For example, if set to 5 seconds, the relay remains to be opened for 5 seconds before closing.
- **Action to Execute:** Check the action to be executed when the relay is triggered.
 - **HTTP:** When triggered, the HTTP message can be captured and displayed in the corresponding packets. To utilize this feature, enable the HTTP server and enter the message content in the designated box below.

- **Email:** Send a screenshot to the preconfigured Email address.
- **HTTP URL:** Enter the HTTP message if selecting HTTP as the action to execute. The format is http://HTTP server's IP/Message content.
- **Type:** Determine the interpretation of the Relay Status regarding the state of the door:
 - **Default State:** A “Low” status in the Relay Status field indicates that the door is closed, while “High” indicates that it is opened.
 - **Invert State:** A “Low” status in the Relay Status field indicates an opened door, while “High” indicates a closed one.
- **Relay Status:** Indicate the states of the relay, which are normally opened and closed. By default, it shows low for normally closed(NC) and high for Normally Open(NO).
- **Relay Name:** Assign a distinct name for identification purposes.

Note

External devices connected to the relay require separate power adapters.

Security Relay

The Security Relay, known as Akuvox SR01, is a product designed to bolster access security by preventing unauthorized forced entry attempts. Installed inside the door, it directly governs the door opening mechanism, ensuring that the door remains secure even in the event of damage to the device.



To set it up, go to **Access Control > Relay > Security Relay** interface.

Security Relay

Relay ID	Security Relay A
Connect Type	Relay A Power Output
Trigger Delay(Sec)	<input style="width: 100%;" type="text" value="0"/>
Relay Name	<input style="width: 100%;" type="text" value="Security Relay A"/>
Enabled	<input type="checkbox"/>

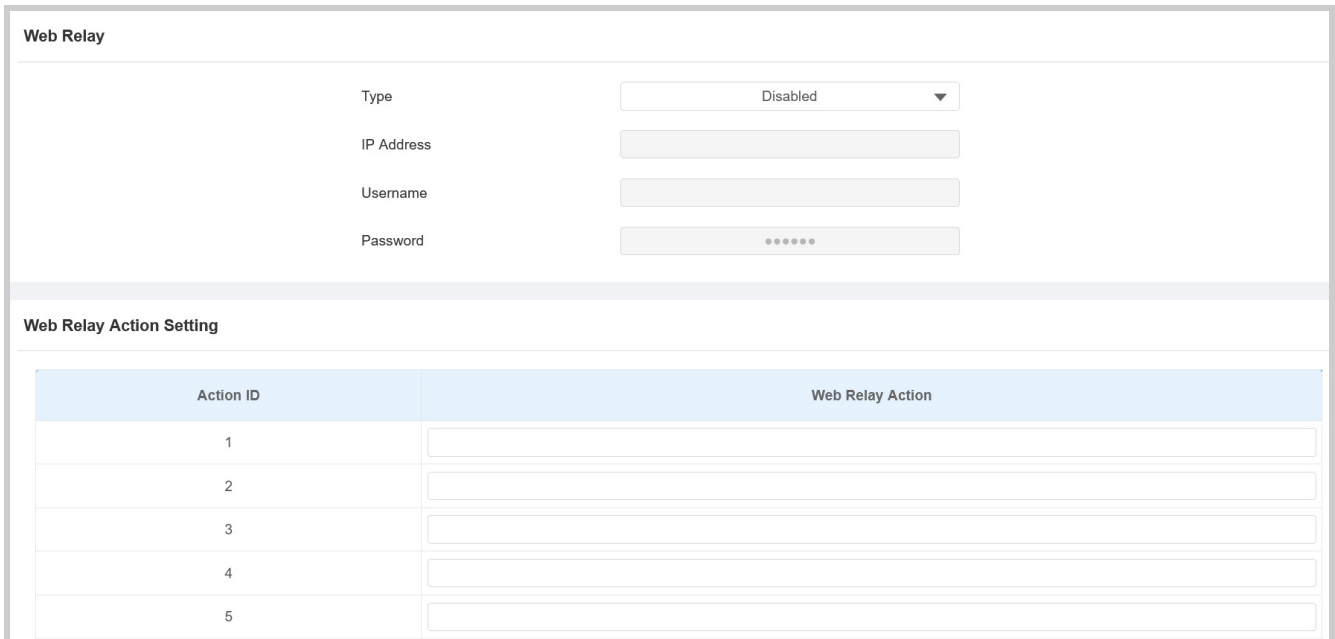
- **Relay ID:** The specific relay for door access.
- **Connect Type:** The security relay connects to the device using Power Output by default.
- **Trigger Delay(Sec):** Set the delay time before the relay triggers. For example, if set to 5 seconds, the relay activates 5 seconds after pressing the Unlock button.
- **Relay Name:** Name the security relay. The name can be displayed in door opening logs. When connecting to the SmartPlus Cloud, the Cloud server will automatically assign the relay name.

Web Relay

A web relay has a built-in web server and can be controlled via the Internet or a local network. The device can use a web relay to either control a local relay, or a remote relay somewhere else on the network.



To set it up, go to **Access Control > Web Relay** interface.



Web Relay	
Type	Disabled ▼
IP Address	<input type="text"/>
Username	<input type="text"/>
Password	<input type="password"/>

Web Relay Action Setting	
Action ID	Web Relay Action
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>

- **Type:** Determine the type of relay activated when employing door access methods for entry.
 - **Disabled:** Only activate the local relay.
 - **Web Relay:** Only activate the web relay.
 - **Local Relay+Web Relay:** Activate both the local relay and web relay. Typically, the local relay is triggered first, followed by the web relay to execute their pre-configured actions.
- **IP Address:** The web relay IP address provided by the web relay manufacturer.
- **Username:** The user name provided by the web relay manufacturer.
- **Password:** The manufacturer-provided authentication key for the web relay. Authentication occurs via HTTP. Leaving the Password field blank indicates non-use of HTTP authentication. You can define the password using HTTP GET in the Web Relay Action field.
- **Web Relay Action:** Configure the actions to be performed by the web relay upon triggering. Enter the manufacturer-provided URLs for various actions, with up to 50 commands.

NOTE

If the URL includes full HTTP content (e.g., `http://admin:admin@192.168.1.2/state.xml?relayState=2`), it doesn't rely on the IP address that you entered above. However, if the URL is simpler (e.g., `"state.xml?relayState=2"`), the relay uses the entered IP address.

Door Access Schedule Management

Door Access Schedule

A door access schedule lets you decide who can open the door and when. It applies to both individuals and groups, ensuring that users within the schedule can only open the door using the authorized method during designated time periods.

Create Door Access Schedule

To create a door access schedule, go to the **Setting > Schedule** interface.

Index	Schedule ID	Source	Mode	Name	Date	Day Of Week	Time	Edit
1	1001	Local	Daily	Always			00:00-23:59	
2	1002	Local	Daily	Never			00:00-00:00	

Click **+Add** to create a schedule.

Add Schedule

Name:

Mode: Normal

Date Range: 2024-05-20 - 2024-05-21

Day Of Week: Monday Tuesday Wednesday
 Thursday Friday Saturday
 Sunday Check All

Date Time: 00:00 - 23:59

Cancel Submit

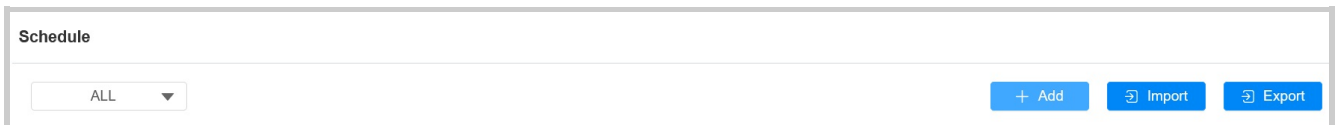
- **Name:** Name the schedule.
- **Mode:**
 - **Normal:** Set the schedule based on the month, week, and day. It is used for a long period schedule.

- **Weekly:** Set the schedule based on the week.
- **Daily:** Set the schedule based on 24 hours a day.

Import and Export Door Access Schedule

You can create door access schedules one by one or in bulk. You can export the current schedule file, edit it or add more schedules following the format, and import the new file to the desired devices. This helps you manage your door access schedules easily.

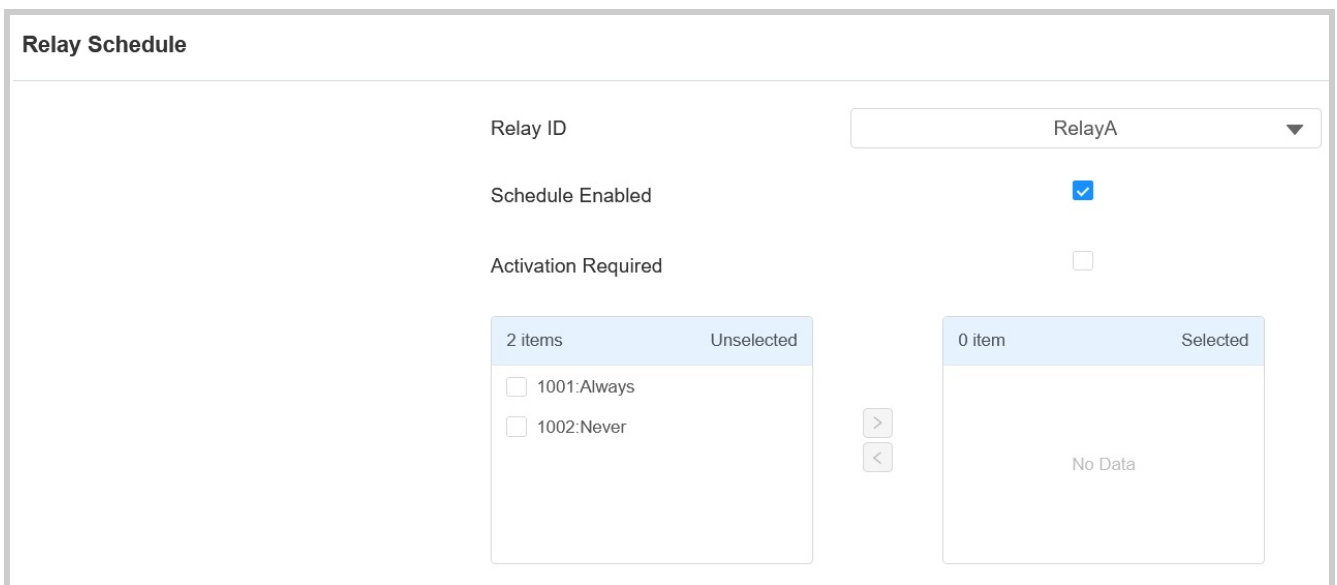
To set it up, go to the **Setting > Schedule** interface. The export file is in TGZ format. The import file should be in XML format.



Relay Schedule

The relay schedule allows you to set a specific relay to always open at a certain time. This is helpful for situations like keeping the gate open after school or keeping the door open during work hours.

To set it up, go to **Access Control > Relay > Relay Schedule** interface.



- **Relay ID:** Specify the relay you need to set up.
- **Activation Required:** It means only after the relay is triggered successfully for the first time, can it be triggered by device-supported access methods later.

- **Schedule:** Assign particular door access schedules to the chosen relay. Simply move them to the Selected Schedules box.

For instructions on creating schedules, kindly consult the [Create Door Access Schedule](#) section.

Configure Door Access Schedule for Holidays

You can create a door access schedule for holidays. On these days, users cannot open the door.

To configure it on the web **Setting > Holiday** interface. Click **+Add** to add a holiday and click **+Clear** to clear the selection of all dates.

Holiday

ALL ▾
[+ Add](#)
[Import](#)
[Export](#)

Index	Source	Holiday Name	Repeat By Year	Operation
No Data				

Selected: 0/0
[Delete](#)
[Delete All](#)
Total: 0
[Prev](#)
1/1
[Next](#)
Go To Page [Go](#)

Calendar

Holiday Name

Repeat By Year

Year ▾

Working Hours

[Clear](#)

January	February	March	April	May	June																																																																																																																																																																																																																																
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You can also import and export schedule files on the same interface. The file exported is in TGZ format. The imported file should be in XML format.

Holiday

ALL ▾
[+ Add](#)
[Import](#)
[Export](#)

Door Unlock Configuration

Public PIN Code for Door Unlock

There are two types of PIN codes for door access: public and private. A private PIN is unique to each user, while the public one is shared by residents in the same building or complex. You can create and modify both the public and private PIN codes.

To set up the public PIN code, go to **Access Control > Relay > Public PIN** interface.

Public PIN

Enabled

PIN Code

- **PIN Code:** Set a 3-8 digit PIN code accessible for universal use.

User-specific Access Methods

The private PIN code and RF card should be assigned to a particular user for door opening.

When adding a user, you can also customize settings such as defining the door access schedule to determine when the code is valid and specifying which relay to open.

To add a user, go to **Directory > User** interface and Click **+Add**.

User

ALL ▾
🔍 Search
🔄 Reset
+ Add
📄 Import
📄 Export

<input type="checkbox"/>	Index	Source	User ID	Name	PIN	RF Card	Floor No.	Web Relay	Schedule-Relay	Edit
<input type="checkbox"/>	1	Local	1	iris		3CF83AC1	None	0	1001-1	✎
<input type="checkbox"/>	2	Local	2	Judy		FFB59828	None	0	1001-1	✎

Selected:0/2
🗑 Delete
🗑 Delete All
Total:2
⏪ Prev
1/1
Next ⏩
Go To Page Go

User Info

User ID

Name

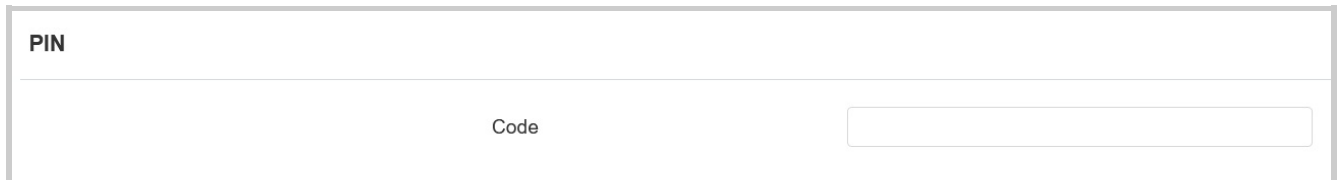
- **User ID:** The unique identification number assigned to the user.

- **Name:** The name of this user.

Unlock by Private PIN Code

Users can open doors by entering their private PINs on the keypad.

On the **Directory > User > +Add** interface, scroll to the **PIN** section.



PIN

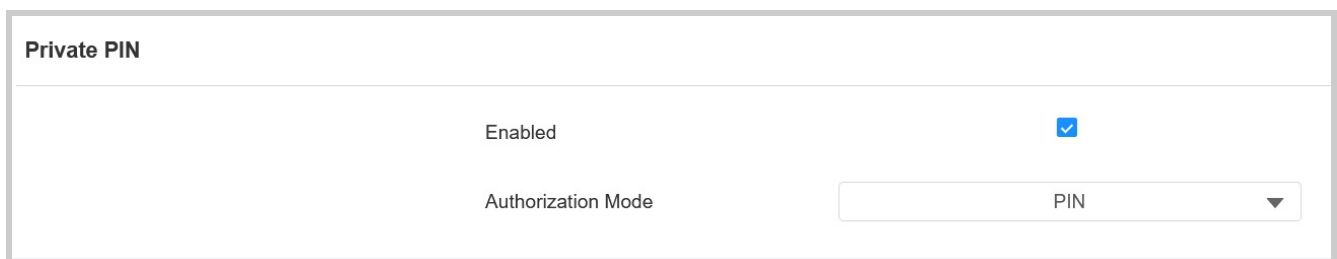
Code

- **Code:** Set a 2-8 digit PIN code solely for the use of this user. Each user can only be assigned a single PIN code.

Private PIN Access Mode

The device provides two authentication methods for private PIN code access: PIN and APT# + PIN. The latter requires users to input their apartment number followed by their private PIN to unlock the door.

To set up the authorization mode, go to the **Access Control > Keypad > Private PIN** interface.



Private PIN

Enabled

Authorization Mode

- **Authorization Mode:** Set the authentication mode for door access, including two-factor authentication for enhanced security.
 - PIN: Users are only required to enter their PIN code.
 - APT#+PIN: Users must first enter the Apartment Number, followed by their PIN code.

Unlock by RF Card

On the **Directory > User > +Add** interface, scroll to the **RF Card** section.

RF Card

Code

+ Obtain

Add

- **Code:** The card number that the card reader reads.

Note:

- Each user can have a maximum of 5 cards added.
- The device allows to add 20,000 users.
- RF cards operating at 13.56 MHz and 125 KHz frequencies are compatible with the device for access.

You can enable or disable the use of RF cards on the **Access Control > Card Setting** interface.

Card Type Support

IC Card Enabled	<input checked="" type="checkbox"/>
ID Card Enabled	<input checked="" type="checkbox"/>

RF Card Code Format

To integrate the RF card door access with the third-party intercom system, you need to match the RF card code format with the one used by the third-party system.

To set it up, go to **Access Control > Card Setting > RFID** interface.

RFID

IC Card Display Mode	<div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;"> 8HN ▼ </div>
ID Card Display Mode	<div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;"> 8HN ▼ </div>

- **IC/ID Card Display Mode:** Set the card number format from the provided options. The default format in the device is 8HN.

Access Setting

You can customize access settings such as defining the door access schedule to determine when the code is valid and specifying which relay to open.

On the **Directory > User > +Add** interface, scroll to the **Access Setting** section.

The screenshot shows the 'Access Setting' configuration page. It includes the following elements:

- Relay:** A checkbox labeled 'RelayA' is checked.
- Security Relay:** A checkbox labeled 'Security Relay A' is unchecked.
- Floor No.:** A text input field containing 'None' with a close button (x).
- Web Relay:** A dropdown menu showing the value '0'.
- Schedule:** Two list boxes. The left box is titled 'Unselected' and contains one item: '1002:Never'. The right box is titled 'Selected' and contains one item: '1001:Always'. Navigation arrows (> and <) are positioned between the two boxes.

- **Relay:** Specify the relay(s) to be unlocked using the door opening methods assigned to the user.
- **Security Relay:** Select the security relay that you've configured on the [Security Relay](#) interface.
- **Floor No. :** Specify the accessible floor(s) to the user via the [elevator](#).
- **Web Relay:** Specify the ID of web relay action commands that you've configured on the [Web Relay](#) interface. A default value of 0 indicates that the web relay will not be triggered.
- **Schedule:** Grant the user access to open designated doors during preset periods by relocating the desired schedule(s) from the left box to the right one. Besides custom schedules, there are 2 default options:
 - **Always:** Allows door opening without limitations on door open counts during the valid period.
 - **Never:** Prohibits door opening.

Access Authentication Mode

The device allows dual authentication for door access, using a combination of PIN code and RF card. When the mode is set up, users must unlock the door in the order of the chosen methods.

To set it up, go to **Access Control > Relay > Access Authentication Mode** interface.

Access Authentication Mode

Authentication Mode

- **Authentication Mode:** Determine how to unlock the door using different methods. Please note that the order of the two-factor authentication matters.
 - **Any Method:** Allow all access methods.
 - **PIN + RF Card:** Enter the PIN code first, then swipe the RF card.
 - **RF Card + PIN:** Swipe the RF card first, then enter the PIN code.

NFC and Felica Card Setting

Set the device to support NFC and Felica cards on the device before they can be used.

To set it up, go to **Access Control > Card Setting > Contactless Smart Card** interface.

Contactless Smart Card

Enabled

- **Enabled:** Select NFC or Felica from the list.

Note

The NFC feature is not available on iPhones.

Mifare Card

The device can encrypt Mifare cards for greater security. When this feature is enabled, it reads the data in the cards' designated sectors and blocks, not the UID.

To set it up, go to **Access Control > Card Setting > Contactless Smart Card** interface.

Contactless Smart Card

Enabled

Sector/Block /

Block Key

- **Sector/Block:** Specify the location where encrypted card data is stored. A Mifare card has 16 sectors (numbered 0 to 15), and each sector has 4 blocks (numbered 0 to 3).
- **Block Key:** Set a password to access the data stored in the predefined sector/block.

Unlock by HTTP Command

You can unlock the door remotely without approaching the device physically for door entry 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 door entry.

To set it up, go to **Access Control > Relay > Open Relay Via HTTP** interface.

Open Relay Via HTTP

Enabled

Username

Password

- **Username:** Set a username for authentication in HTTP command URLs.
- **Password:** Set a password for authentication in HTTP command URLs.

Tip:

Here is an HTTP command URL example for relay triggering.

```

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

```

ID of Relay to be triggered

Unlock by Exit Button

When users need to open the door from inside by pressing the Exit button, you need to set up the Input terminal that matches the Exit button to activate the relay for the door access.

To set it up, go to **Access Control > Input** interface.

Input A

Enabled	<input checked="" type="checkbox"/>
Trigger Electrical Level	Low ▼
Action To Execute	<input type="checkbox"/> Email <input type="checkbox"/> HTTP
HTTP URL	<input style="background-color: #f0f0f0;" type="text"/>
Action Delay	<input type="text" value="0"/> (0~300Sec)
Action Delay Mode	Unconditional Execution ▼
Execute Relay	None ▼
Alarm Door Opened	<input type="checkbox"/>
Break-in Intrusion	<input type="checkbox"/>
Door Status	High

- **Enabled:** To use a specific input interface.
- **Trigger Electrical Level:** Set the input interface to trigger at low or high electrical level.
- **Action To Execute:** Set the desired actions that occur when the specific Input interface is triggered.
 - **Email:** Send a screenshot to the preconfigured [Email address](#).
 - **HTTP:** When triggered, the HTTP message can be captured and displayed in the corresponding packets. To utilize this feature, enable the HTTP server and enter the message content in the designated box below.
- **HTTP URL:** Enter the HTTP message if selecting HTTP as the action to execute. The format is [http://HTTP server's IP/Message content](#).
- **Action Delay:** Specify how many seconds to delay executing the preconfigured actions.
- **Action Delay Mode:**
 - **Unconditional Execution:** The action will be carried out when the input is triggered.
 - **Execute If Input Still Triggered:** The action will be carried out when 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.

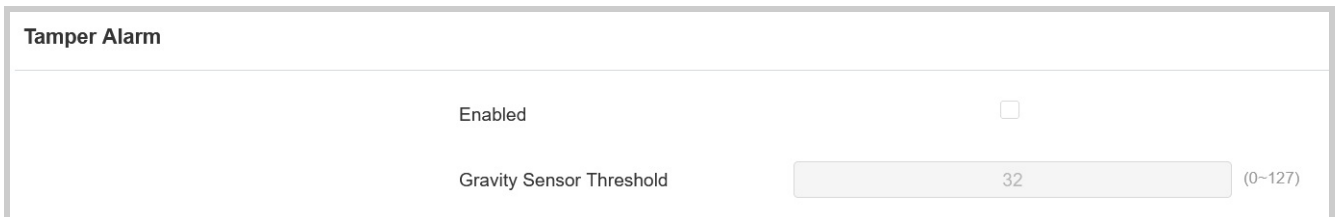
- **Execute Relay:** Specify the relay to be triggered by the actions.
- **Alarm Door Opened:** Decide whether to enable Door Opened Timeout.
- **Door Opened Timeout:** Set the time limit for the door to stay open.
- **Break-in Intrusion:** Activate an alarm when the door is forcibly or illegally opened. Only by checking off this option, can the alarm be turned off once triggered.
- **Door Status:** Display the status of the input signal.

Security

Tamper Alarm

The tamper alarm function prevents anyone from removing the devices without permission. It does this by setting off the tamper alarm and making calls to a designated location when the device detects a change in its gravity value from the original one.

To set it up, go to **System > Security > Tamper Alarm** interface.



The screenshot shows the 'Tamper Alarm' settings interface. It contains two main settings:

- Enabled:** A toggle switch that is currently turned off.
- Gravity Sensor Threshold:** A numeric input field with the value '32' and a range '(0-127)' to its right.

- **Gravity Sensor Threshold:** The threshold for gravity sensory sensitivity. The lower the value is, the more sensitive the sensor will be. It is 32 by default.

Security Notification

Email Notification

Set up email notifications to receive screenshots of unusual motion from the device.

Go to **Setting > Action > Email Notification** interface.

Email Notification

Sender's Email Address	<input type="text"/>
Sender's Email Name	<input type="text"/>
Receiver's Email Address	<input type="text"/>
Receiver's Email Name	<input type="text"/>
SMTP Server Address	<input type="text"/>
Port	<input type="text"/>
SMTP User Name	<input type="text"/>
SMTP Password	<input type="password"/>
Email Subject	<input type="text"/>
Email Content	<input type="text"/>
Email Test	<input type="button" value="Test Email"/>

Action URL

You can use the device to send specific HTTP URL commands to the HTTP server for certain actions. These actions will be triggered when the relay status, input status, PIN code, or RF card access changes.

Akuvox Action URL:

No	Event	Parameter format	Example
1	Relay Triggered	\$relay1status	Http://server ip/ relaytrigger=\$relay1 status
2	Relay Closed	\$relay1status	Http://server ip/relayclose=\$relay1 status
3	Input Triggered	\$input1status	Http://server ip/inputtrigger=\$input1 status
4	Input Closed	\$input1status	Http://server ip/inputclose=\$input1 status
5	Valid Code Entered	\$code	Http://server ip/validcode=\$code
6	Invalid Code Entered	\$code	Http://server ip/invalidcode=\$code
7	Valid Card Entered	\$card_sn	Http://server ip/validcard=\$card_sn
8	Invalid Card Entered	\$card_sn	Http://server ip/invalidcard=\$card_sn
9	Tamper Alarm Triggered	\$alarm status	Http://server ip/tampertrigger=\$alarm status

For example: [http://192.168.16.118/help.xml?](http://192.168.16.118/help.xml?mac=$mac:ip=$ip:model=$model:firmware=$firmware:card_sn=$card_sn)

[mac=\\$mac:ip=\\$ip:model=\\$model:firmware=\\$firmware:card_sn=\\$card_sn](http://192.168.16.118/help.xml?mac=$mac:ip=$ip:model=$model:firmware=$firmware:card_sn=$card_sn)

To set it up, go to **Setting > Action URL** interface.

Action URL	
Enabled	<input type="checkbox"/>
Relay Triggered	<input type="text"/>
Relay Closed	<input type="text"/>
InputA Triggered	<input type="text"/>
InputB Triggered	<input type="text"/>
InputA Closed	<input type="text"/>
InputB 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"/>
Tamper Alarm Triggered	<input type="text"/>

Real-Time Monitoring

When the device is connected to SmartPlus Cloud or ACMS, the door status can be displayed on the SmartPlus platform or ACMS.

To set it up, go to **System > Security > Real-Time Monitoring** interface.

Real-Time Monitoring	
Apply Setting To	<input type="text" value="None"/>

- **Apply Setting To:**
 - **None:** Not display door status.
 - **Input:** the door is opened by triggering input.
 - **Relay:** the door is opened by triggering the relay.

Note

Click [here](#) to see the detailed configuration steps.

Emergency Action

This feature works with Akuvox SmartPlus Cloud. It keeps the door open when an emergency happens.

To set it up, go to **System > Security > Emergency Action** interface.

Emergency Action

Apply Setting To Input A Input B

Web Interface Automatic Log-out

You can set up the web interface's 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 set it up, go to **System > Security > Session Time Out** interface.

Session Time Out

Session Time Out Value (60~14400Sec)

High Security Mode

High security mode is designed to enhance the security. It employs encryption across various facets, including the communication process, door opening commands, password storage methods, and more.

To enable the mode, go to **System > Security > High Security Mode** interface.

High Security Mode

Enabled

High security mode is designed to enhance the security. It employs encryption across various facets, including the communication process, door opening commands, password storage methods, and more.

Logs

Access Log

You can search and check door logs on the device web **Status > Access Log** interface.

Access Log

Save Access Log Enable

Remote Door Log Enabled

Remote Server

Authorization Mode

All -

<input type="checkbox"/>	Index	User ID	Name	Code	Door ID	Type	Date	Time	Mode	Status
<input type="checkbox"/>	1	xxx yyy	Administrator	-	A	Server	2024-01-30	11:32:32	Normal	Success
<input type="checkbox"/>	2	-	Visitor	7		PIN	2024-01-29	07:28:24	Normal	Failed

Selected:0/2 Total:2 1/1 Go To Page

- **Save Access Log Enable:** Decide whether to save the door-opening records.
- **Remote Door Log Enabled:** Decide whether to send the door log to a third-party server.
- **Remote Server:** Enter the remote server address.
- **Authorization Mode:** Select from the **None**, **Basic**, **Digest**, and **Token**.
 - **Basic:** You are required to enter the username and password for authentication.
 - **Token:** You are required to enter the token URL, username, and password for authentication.
- **Status:** **Success** and **Failed** options represent successful door accesses and failed door accesses respectively.
- **Time:** Select the specific period of the door logs you want to search, check, or export.
- **Name/Code:** Search the log by the username or the PIN code.
- **Door ID:** Display the door name.
- **Type:** Display the access type such as Card.

Debug

System Log for Debugging

System logs can be used for debugging purposes.

To set it up, go to **System > Maintenance > System Log** interface.

The screenshot shows the 'System Log' configuration page. It features four settings: 'Log Level' is a dropdown menu set to '3'; 'Export Log' is a blue button with a document icon and the text 'Export'; 'Remote System Log Enabled' is a checkbox that is currently unchecked; and 'Remote System Server' is a text input field.

- **Log Level:** Log levels range from 1 to 7. 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 the temporary debug log file to a local PC.
- **Remote System Server:** Set the remote server address to receive the device log. The remote server address will be provided by Akuvox technical support.

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.

To set it up, go to **System > Maintenance > Remote Debug Server** interface.

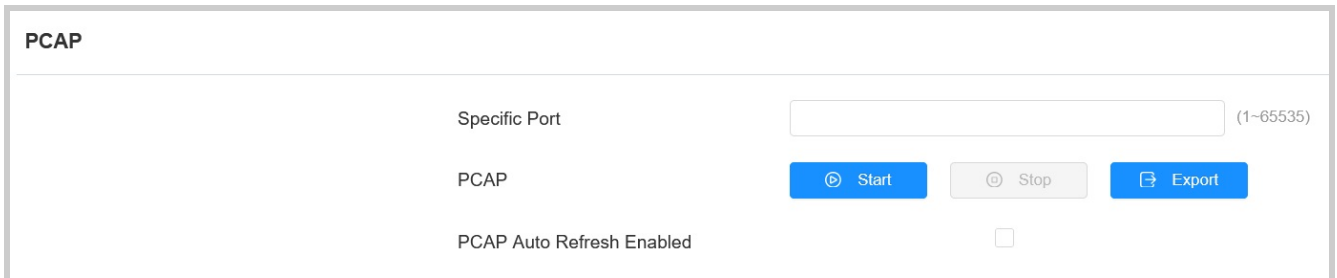
The screenshot shows the 'Remote Debug Server' configuration page. It features four settings: 'Enabled' is a checkbox that is currently unchecked; 'Connect Status' is a text label showing 'Disconnected'; 'IP Address' is a text input field; and 'Port' is a text input field with a placeholder '(1024-65535)'.

- **Connect Status:** Display the remote debug server connection status.
- **IP Address:** Set the remote debug server IP address. Please ask the Akuvox technical team for the server IP address.
- **Port:** Set the remote debug server port.

PCAP for Debugging

PCAP is used to capture the data package going in and out of the devices for debugging and troubleshooting purposes.

To set it up, go to **System > Maintenance > PCAP** interface.



PCAP

Specific Port (1~65535)

PCAP

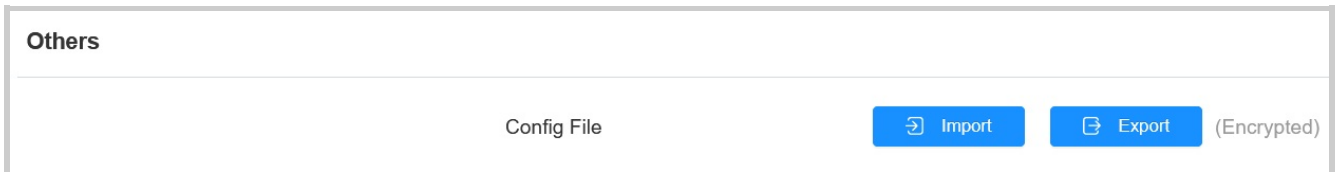
PCAP Auto Refresh Enabled

- **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 Enabled:** When enabled, the PCAP will continue to capture data packets even after the data packets reach their 50M maximum in capacity. When disabled, the PCAP will stop data packet capturing when the data packets captured reach the maximum capturing capacity of 1MB.

Backup

You can import or export encrypted configuration files to your Local PC for backup.



Go to **System > Maintenance > Others** interface.



Firmware Upgrade

Akuvox devices can be upgraded on the device web interface.

To upgrade the device, go to **System > Upgrade** interface.

Basic	
Firmware Version	101.30.10.49
Hardware Version	101.0.11.0.0.0.0.0
Upgrade	 Import
Reset Configuration to Default State(Except Data)	 Reset
Reset To Factory Setting	 Reset
Reboot	 Reboot

Note

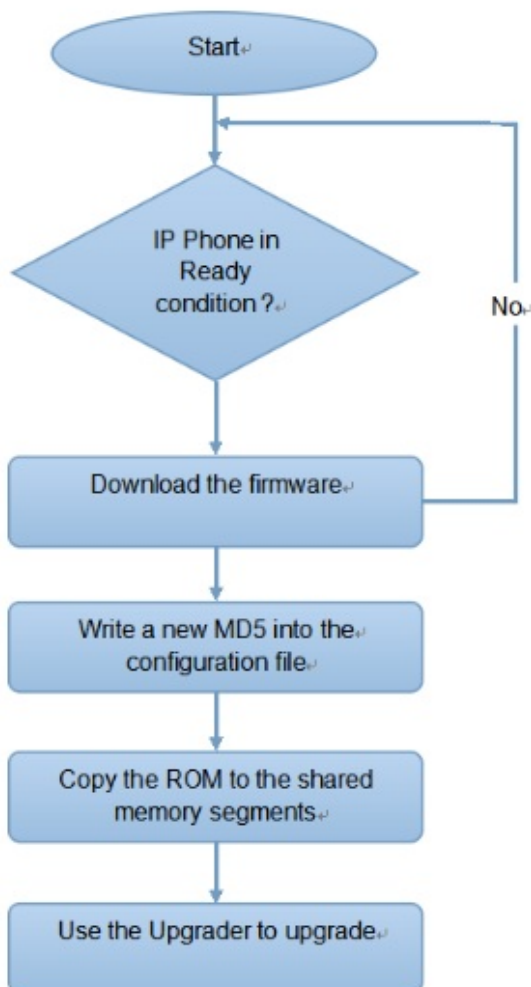
The file should be in .rom format.

Auto-provisioning

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 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 device.

Please see the flow chart below:



Introduction to the 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 another one is the MAC-based configuration provisioning.

The difference between the two types of configuration files:

- **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. For example, 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. The configuration files named with the device MAC number will be matched automatically with the device MAC number before being downloaded for provisioning on the specific device.

Note

- The configuration file should be in CFG format.
- The general configuration file for the in-batch provisioning varies by model.
- The MAC-based configuration file for the specific device provisioning is named by its MAC address.
- If a server has these two types of configuration files, devices will first access the general configuration files before accessing the MAC-based configuration files.

You may click [here](#) to see the detailed format and steps.

Autop Schedule

Akuvox provides you with different Autop methods that enable the device to perform provisioning for itself according to the schedule.

To set it up, go to **System > Auto Provisioning > Automatic Autop** interface.

Automatic Autop

Mode	<input type="text" value="Power On"/>	
Schedule	<input type="text" value="Sunday"/>	
	<input type="text" value="22"/>	(0~23Hour)
	<input type="text" value="0"/>	(0~59Min)
Clear MD5	<input type="button" value="Clear"/>	
Export Autop Template	<input type="button" value="Export"/>	

• **Mode:**

- **Power On:** The device will perform Autop every time it boots up.
- **Repeatedly:** The device will perform Autop according to the schedule you set up.
- **Power On + Repeatedly:** Combine **Power On** mode and **Repeatedly** mode that will enable the device to perform Autop every time it boots up or according to the schedule you set up.
- **Hourly Repeat:** The device will perform Autop every hour.

Static Provisioning

You can manually set up a specific server URL for downloading the firmware or configuration file. If an auto-provision schedule is set up, the device will perform the auto-provisioning at a specific time according to the auto provision 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 set it up, download the template on **System > Auto Provisioning > Automatic Autop** first.

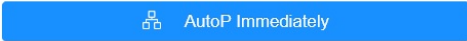
Automatic Autop

Mode	<input type="text" value="Power On"/>	
Schedule	<input type="text" value="Sunday"/>	
	<input type="text" value="22"/>	(0~23Hour)
	<input type="text" value="0"/>	(0~59Min)
Clear MD5	<input type="button" value="Clear"/>	
Export Autop Template	<input type="button" value="Export"/>	

Set up the Autop server on **System > Auto Provisioning > Manual Autop** interface.

Manual Autop

URL	<input type="text"/>
Username	<input type="text"/>
Password	<input type="password"/>
Common AES Key	<input type="password"/>
AES Key(MAC)	<input type="password"/>



- **URL:** Specify the TFTP, HTTP, HTTPS, or FTP server address for the provisioning.
- **Username:** Enter the username if the server needs a username to be accessed.
- **Password:** Enter the password if the server needs a password to be accessed.
- **Common AES Key:** It is used for the device to decipher general Autop configuration files.
- **AES Key (MAC):** It is used for the device to decipher the MAC-based Autop configuration file.

Note

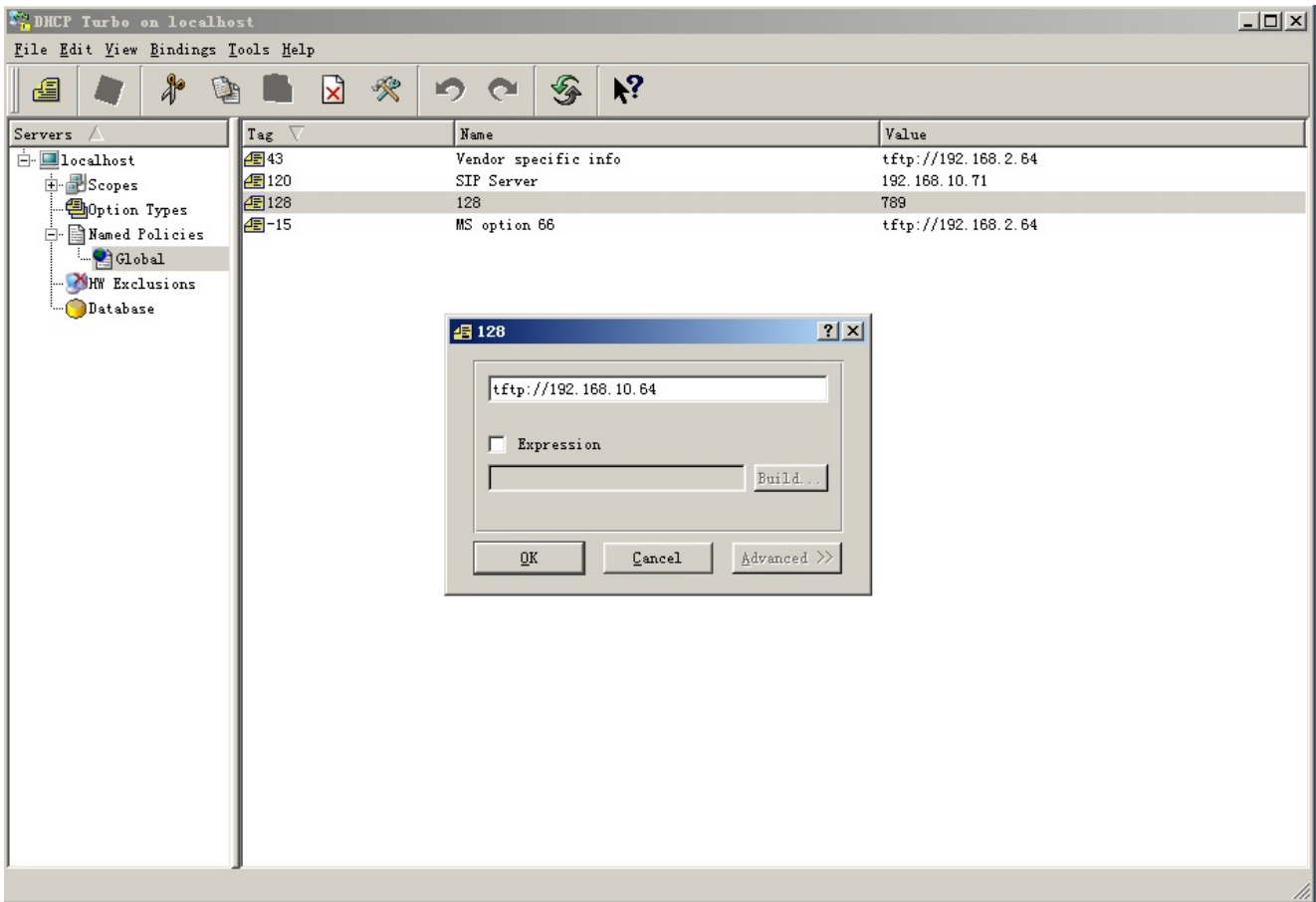
- AES as one type of encryption should be configured only when the config file is encrypted with AES.
- Server Address Format:
 - TFTP: `tftp://192.168.0.19/`
 - FTP: `ftp://192.168.0.19/`(allows anonymous login)
`ftp://username:password@192.168.0.19/`(requires a user name and password)
 - HTTP: `http://192.168.0.19/`(use 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)

Tip

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

DHCP Provisioning

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 codes ranging from 128-255), you are required to configure DHCP Custom Option on the web interface.



Note

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

To set up DHCP Autop with **Power On** mode, go to the web **System > Auto Provisioning > Automatic Autop** interface.

Automatic Autop ?

Mode	<input style="width: 90%;" type="text" value="Power On"/>	?
Schedule	<input style="width: 90%;" type="text" value="Sunday"/>	?
	<input style="width: 90%;" type="text" value="22"/>	(0~23Hour)
	<input style="width: 90%;" type="text" value="0"/>	(0~59Min)
Export Autop Template	<input style="width: 90%;" type="button" value="Export"/>	?
Clear MD5	<input style="width: 90%;" type="button" value="Clear"/>	?

To set up the DHCP Option, scroll to the **DHCP Option** section.

DHCP Option

Custom Option	<input style="width: 90%;" type="text"/>	(128~254)
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(DHCP option 66/43 is enabled by default.)

- **Custom Option:** Enter the DHCP code that matches the corresponding URL so that the device will find the configuration file server for the configuration or upgrading.

- **DHCP Option 43:** If the device does not get a 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 upgrade server URL in it.

- **DHCP Option 66:** If none of the above is set, the device will automatically use DHCP Option 66 to get 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 upgrade server URL in it.

Integration with Third Party Device

Integration via Wiegand

The access control terminal can be integrated with third-party devices via Wiegand.

To set it up, go to **Device > Wiegand** interface.

Wiegand

Wiegand Display Mode	8HN
Wiegand Card Reader Mode	Wiegand-26
Wiegand Transfer Mode	Input
Wiegand Input Clear Time	5
Wiegand Input Data Order	Normal
Wiegand Output Data Order	Normal
Wiegand Output CRC Enable	<input checked="" type="checkbox"/>

- **Wiegand Display Mode:** Select the Wiegand card code format from the provided options.
- **Wiegand Card Reader Mode:** The transmission format should be identical between the access control terminal and the third-party device. It is automatically configured.
- **Wiegand Transfer Mode:**
 - **Input:** The device serves as a receiver.
 - **Output:** The device serves as a sender.
- **Wiegand Input Clear Time:** When the interval of entering passwords exceeds the time. All entered passwords will be cleared.
- **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.
- **Wiegand Output Data Order:** Determine the sequence of the card number.
 - **Normal:** The card number is displayed as received.

- **Reversed:** The order of the card number is reversed.
- **Wiegand Output CRC Enable:** It is enabled by default for Wiegand data inspection. Disabling it may lead to integration failure with third-party devices.

Note

Click [here](#) to see detailed configuration steps.

Lift Control

The device can be connected to the Akuvox lift controller for the lift control. You can summon the lift to go down to the ground floor when you are granted access through access methods.

To set up the lift control, go to **Device > Lift Control** interface.

Lift Control List

Lift Control List	<input style="width: 90%; border: 1px solid #ccc;" type="text" value="Akuvox EC32"/>
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Akuvox EC32 Advance Setting

Lift Mode	<input style="width: 95%; border: 1px solid #ccc;" type="text" value="Choose Floor"/>	
Server1 IP	<input style="width: 95%; border: 1px solid #ccc;" type="text"/>	
Port	<input style="width: 95%; border: 1px solid #ccc;" type="text"/>	(1-65535)

Akuvox EC32 Action

User Name	<input style="width: 95%; border: 1px solid #ccc;" type="text"/>	
Password	<input style="width: 95%; border: 1px solid #ccc;" type="password" value="••••••"/>	
Floor No. Parameter	<input style="width: 95%; border: 1px solid #ccc;" type="text" value="\$floor"/>	
URL To Trigger Specific Floor	<input style="width: 95%; border: 1px solid #ccc;" type="text" value="/cdor.cgi?open=0&door=\$floor"/>	
URL To Trigger All Floors	<input style="width: 95%; border: 1px solid #ccc;" type="text" value="/cdor.cgi?open=8"/>	
URL To Close All Floors	<input style="width: 95%; border: 1px solid #ccc;" type="text" value="/cdor.cgi?open=9"/>	

- **Lift Control List:** Select Akuvox EC32 for integration with the Akuvox lift controller.
- **Server IP:** Enter the IP address of the Akuvox lift controller server.
- **Port:** Enter the port of the Akuvox lift controller server.

- **User Name:** Enter the user name of the lift controller for authentication.
- **Password:** Enter the password of the lift controller for authentication.
- **Floor NO. Parameter:** Enter the Floor number parameter provided by Akuvox.
- **URL To Trigger Specific Floor:** Enter the URL for triggering a specific floor.
- **URL To Trigger All Floors:** Enter the URL for triggering all floors.
- **URL To Close All Floors:** Enter the URL used for closing all floors.

Integration via HTTP API

HTTP API is designed to achieve a network-based integration between the third-party device and the Akuvox intercom device.

To set it up, go to **Setting > HTTP API** interface.

HTTP API

HTTP API Enable	<input checked="" type="checkbox"/>
Authorization Mode	Allowlist ▼
Username	admin
Password	••••••
1st IP	
2nd IP	
3rd IP	
4th IP	
5th IP	

- **Enabled:** Enable or disable the HTTP API function for third-party integration. If the function is disabled, any request to initiate the integration will be denied and return HTTP 403 forbidden status.
- **Authorization Mode:** Select among the following options: None, Allowlist, Basic, Digest, and Token for authorization type, which will be explained in detail in the following chart.
- **Username:** Enter the user name when **Basic** or **Digest** authorization mode is selected. The default username is admin.

- **Password**: Enter the password when **Basic** or **Digest** authorization mode is selected. The default password is admin.
- **1st IP-5th IP**: Enter the IP address of the third-party devices when the **Allowlist** authorization is selected for the integration.

Please refer to the following description for the Authentication mode:

NO.	Authorization Mode	Description
1	None	No authentication is required for HTTP API as it is only used for demo testing.
2	Allowlist	If this mode is selected, you are only required to fill in the IP address of the third-party device for the authentication. The allowlist is suitable for operation in the LAN.
3	Basic	If this mode is selected, you are required to fill in the username and password for the authentication. In the Authorization field of the HTTP request header, use the Base64 encode method to encode of the username and password.
4	Digest	The password encryption method only supports MD5. MD5(Message-Digest Algorithm) In the Authorization field of HTTP request header: WWW-Authenticate: Digest realm="HTTPAPI",qop="auth,auth-int",nonce="xx", opaque="xx".
5	Token	This mode is used by Akuvox developers only.

Third-Party Integration

The device supports reading QR codes and transmitting them to a third-party server. The generation and validation of the QR codes are handled on the third-party server.

To set it up, go to **Access Control > Relay > Third Party Integration** interface.

Third Party Integration

Enabled

Note: Multi-factor authentication will be disabled.

HTTP URL

Device ID

- **HTTP URL:** The URL sent to the third-party server. The URL formats are as follows:
 - http://server_address/api/vistor/scan?codeKey={QRCode}&deviceId={DeviceID}
 - https://server_address/api/vistor/scan?codeKey={QRCode}&deviceId={DeviceID}
- **Device ID:** As part of the HTTP URL, it is provided by the service provider of the third-party server.

Power Output Control

The device can serve as a power supply for the external relays.

To set it up, go to **Access Control > Relay** interface.

12V Power Output

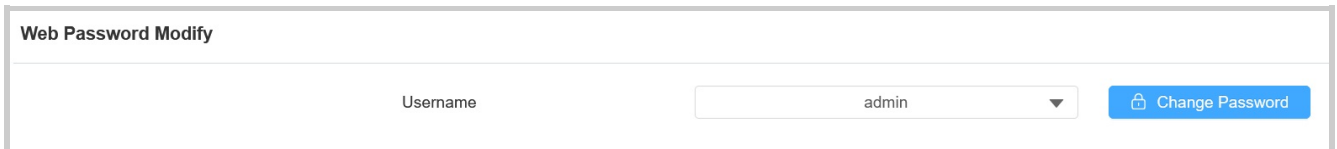
Relay ID	RelayA
12v Power Output Enabled	Disabled ▼

- **12v Power Output Enabled:**
 - **Always:** The device can provide continuous power to the third-party device.
 - **Security Relay A:** The device can work with the security relay.
-

Password Modification

You can modify the device web password for both the administrator account and the user account.

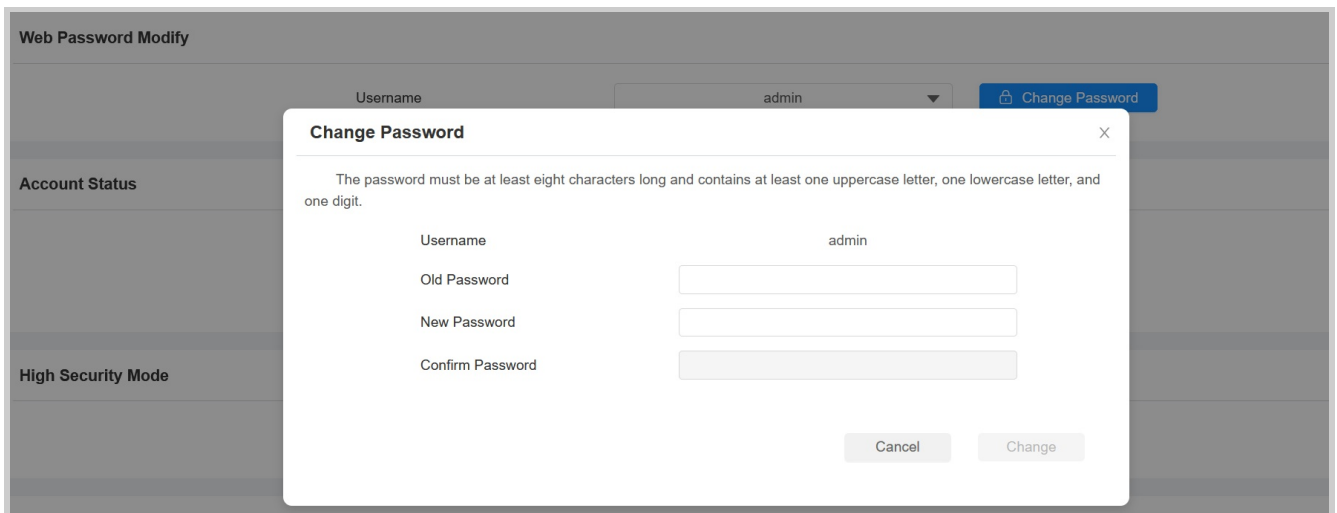
To set it up, go to **System > Security > Web Password Modify** interface.



Web Password Modify

Username [Change Password](#)

Click **Change Password** to modify the password.



Web Password Modify

Username [Change Password](#)

Change Password

The password must be at least eight characters long and contains at least one uppercase letter, one lowercase letter, and one digit.

Username

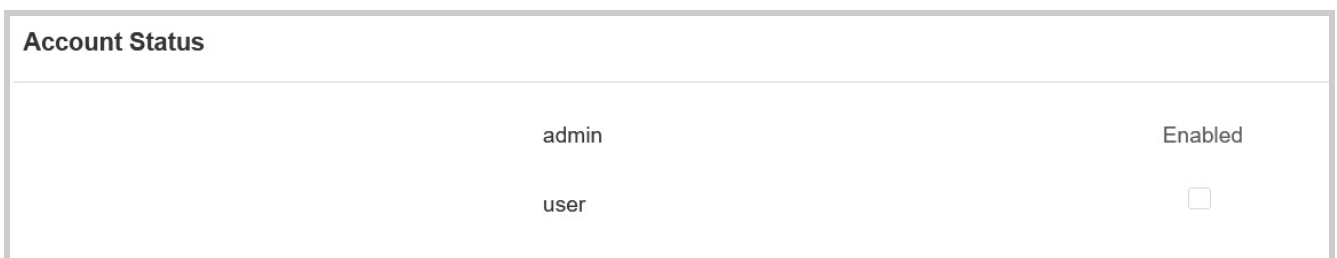
Old Password

New Password

Confirm Password

[Cancel](#) [Change](#)

To enable or disable the user account, scroll to the **Account Status** section.



Account Status

Username	Enabled
admin	<input checked="" type="checkbox"/>
user	<input type="checkbox"/>

System Reboot and Reset

Reboot

Reboot the device on the web **System > Upgrade** interface.

The screenshot shows the 'Basic' configuration page. It lists the following information and actions:

Firmware Version	101.30.10.49
Hardware Version	101.0.11.0.0.0.0.0
Upgrade	<input type="button" value="Import"/>
Reset Configuration to Default State(Except Data)	<input type="button" value="Reset"/>
Reset To Factory Setting	<input type="button" value="Reset"/>
Reboot	<input type="button" value="Reboot"/>

To set up the device restart schedule, go to **System > Auto Provisioning > Reboot Schedule** interface.

The screenshot shows the 'Reboot Schedule' configuration page. It includes the following settings:

Mode	<input type="checkbox"/>
Schedule	Every Day <input type="button" value="v"/> 0 (0-23Hour)

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).

Reset the device on **System > Upgrade** interface.

Basic

Firmware Version	101.30.10.49
Hardware Version	101.0.11.0.0.0.0.0
Upgrade	<input type="button" value="Import"/>
Reset Configuration to Default State(Except Data)	<input type="button" value="Reset"/>
Reset To Factory Setting	<input type="button" value="Reset"/>
Reboot	<input type="button" value="Reboot"/>

You can also reset the device by holding the **Reset** button on the back of the device.

