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A092 SERIES ACCESS CONTROLLER Administrator Guide

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About This Manual

Thank you for choosing Akuvox A092 series access controller. This manual is intended for the administrators who need to properly configure the access controller. This manual applies to the version 92.30.1.6, and it provides all the configurations for the functions and features of Akuvox access control. Please visit Akuvox forum or consult technical support for any new information or latest firmwares.

Introduction of Icons and Symbols

Warning:

• Always abide by this information in order to prevent the persons from injury.

Caution:

• Always abide by this information in order to prevent the damages to the device.

) Note:

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

) Tip:

• Useful information for the quick and efficient use of the device.

LED Indicator Light Status

| No | Icons | Indicator Light | Light status | Description |
|----|-------|----------------------------|---------------------|---|
| 1 | 4 | Power | On | The light turns on when the device is powered on |
| | | indicator | Off | The light turns off when the device is powered off |
| | | | Permanently on | The orange light will stay on when the device failed to obtain the IP address |
| 2 | (!) | () Warning Indicator | Off | The light will be off when the device is in normal status |
| | | | Flashing slowly | The light will be flashing slowly when the device upgrade failed |
| | | | | The light will be flashing slowly during the upgrading process. |
| | | | Flashing quickly | The light will be flashing slowly when the device is restarted after the upgrad e failure |

Table of Contents

| 1. Product Overview | 1 |
|--|----|
| 2. Access the Device | 2 |
| 2.1. Obtain Device IP Address | 2 |
| 2.2. Access the Device Web Interface | 2 |
| 3. Language and Time Setting | 4 |
| 3.1. Language Setting | 4 |
| 3.2. Time Setting | 4 |
| 4. Network Configuration | 6 |
| 4.1. Network Status | 6 |
| 4.2. Device Network Configuration | 6 |
| 4.3. Configure Web Server | 7 |
| 4.4. TR069 | 8 |
| 4.5. SNMP | 9 |
| 5. Relay Setting | 11 |
| 5.1. Configure Built-in Relay | 11 |
| 5.2. Configure Web relay | 12 |
| 6. Door Access Schedule Management | 14 |
| 6.1. Configure Door Access Schedule | 14 |
| 6.1.1. Create Door Access Schedule | 14 |
| 6.2. Import and Export Door Access Schedule | 16 |
| 6.3. Edit the Door Access Schedule | 16 |
| 7. Door Unlock Configuration | 18 |
| 7.1. Configure Access Card Format | 18 |
| 7.2. Configure Access Card for Door Unlock | 18 |
| 7.3. Edit/Delete Access card Control schedule | 21 |
| 7.4. Configure open relay via HTTP for door unlock | 22 |
| 7.5. Configure Exit Button for Door Unlock | 23 |
| 8. Security | 25 |
| 8.1. Security Notification Setting | 25 |
| 8.1.1. Email Notification Setting | 25 |
| 8.1.2. FTP Notification Setting | 26 |
| 9. Call Log | 28 |
| 10. Debug | 30 |
| 10.1. Configure Debug Server | 30 |
| 10.2. System Log for Debugging | 30 |
| 10.3. PCAP for Debugging | 31 |
| 11. Firmware Upgrade | 33 |
| 12. Backup | 34 |
| 13. Auto-Provisioning via configuration File | 35 |

| 13.1. Provisioning Principle | 35 |
|--|----|
| 13.2. Configuration Files for Auto-provisioning | |
| 13.3. AutoP Schedule | |
| 13.4. Static Provisioning Configuration | |
| 14. Integration with Third Party Device | 40 |
| 14.1. Integration via Wiegand | |
| 14.2. Integration via RS485 | |
| 14.3. Configure HTTP API for the Third-party Integration | 41 |
| 14.4. Power Output Control | 43 |
| 15. Account & Password | 44 |
| 16. System Reboot&Reset | 45 |
| 16.1. Reboot | 45 |
| 16.2. Reset | |
| 17. Abbreviations | |
| 18. FAQ | |
| 19. Contact us | |



1. Product Overview

Akuvox A092 series access controller is Android-based. It has multiple ports, such as RS485 and Wiegand ports that can be used to easily integrate with external digital systems, such as card readers, elevator controller and fire alarm detector, helping to create a holistic control of building entrance and its surroundings. With the two in-built relays, A092 is capable of controlling two doors maximum while giving you a great sense of security via card access. A092 is applicable to such applications as commercial buildings, hospital buildings and warehouses.

2. Access the Device

Akuvox A092 access controller system settings can be accessed on the on the device web interface.

2.1. Obtain Device IP Address

To access the device web interface, you need to obtain the device IP address using Akuvox IP scanner. You can just click Search to find the device IP address

| dress Mac A 18.31.3 OC110 | Address N 15000000 7 | Search Nodel Ro | C Refrest | irmware Version | Export |
|------------------------------|--------------------------------|---|--|--|--|
| dress Mac A 88.31.3 0C110 | Address N 15000000 | 1odel Ro | oom Number Fii | irmware Version | |
| 0C110 | 500000 | 4092 | 11111 | 02 30 1 6 | |
| 0.04.0 | | | | 52.50.1.0 | |
| 00110 | 5079598 | R20 | 1.1.1.1.1 | 20.31.4.15 | |
| 8.31.11 0C110 | 510329D | A05 | 1.1.1.1.1 | 105.30.1.118 | |
| 8.31.12 0C110 | 508F0BA | IT83 | 1.1.1.1.1 | 83.30.2.808 | |
| 8.31.14 0C110 | 5092815 | R29 | 1.1.1.1 | 29.30.2.416 | |
| | 8.31.12 0C110 8.31.14 0C110 | 8.31.12 0C110508F0BA 8.31.14 0C1105092815 | 8.31.12 0C110508F0BA IT83 8.31.14 0C1105092815 R29 | 8.31.12 0C110508F0BA IT83 1.1.1.1 8.31.14 0C1105092815 R29 1.1.1.1 | 8.31.12 0C110508F0BA IT83 1.1.1.1 83.30.2.808 8.31.14 0C1105092815 R29 1.1.1.1 29.30.2.416 |

2.2. Access the Device Web Interface

Enter the device IP address on the web browser in order to log in the device web interface where you can configure and adjust parameter etc. The Initial user name and password are "admin" and please be case-sensitive to the user names and passwords entered.

| llser Name | |
|------------|----------------------------|
| User Hame | |
| Password | |
| | Remember Username/Password |
| | Login |

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Note:

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Google Chrome browser is strongly recommended.

3. Language and Time Setting

3.1. Language Setting

When you first set up the device, you might need to set the language to your need or you can do it later if needed. You can go to **Setting>Time/Lang** on the device web interface.

| lime/Lang | |
|-----------|--------------|
| | Web Language |
| Туре | English |
| | English |

Parameter Set-up:

• **Type:** choose a suitable web interface language. Normally, English is default web language.

3.2. Time Setting

You to set up the NTP (Network Time Protocol) 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 in order that the NTP server can synchronize the time zone set-up in your device. You can go to **Setting > Time/Lang > NTP** for the setting.

| | NTP | |
|------------------|----------------|------------|
| Time Zone | GMT+0:00 GMT | ~ |
| Primary Server | 0.pool.ntp.org | |
| Secondary Server | 1.pool.ntp.org | |
| Update Interval | 3600 | (>= 3600s) |
| System Time | 03:15:51 | |

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- **Time Zone**: select the specific time zone depending on where the device is used and then press **Confirm** tab for the confirmation. The default time zone is **GMT GMT+0.00**.
- **Primary/Secondary Server:** the time zone server, normally it will automatically obtain the time when connecting to the network. The secondary server will take effect while the primary server is invalid.
- **Update Interval:** to configure interval between two consecutive NTP requests.
- **System**: system is the current device system time, which is in 24 hour format by default.

4. Network Configuration

4.1. Network Status

To check the network status, you can go to **Status > Network Information** on the device web interface.

| Network Information | | | |
|---------------------|---------------|--|--|
| LAN Port Type | DHCP Auto | | |
| LAN Link Status | Connected | | |
| LAN IP Address | 192.168.31.4 | | |
| LAN Subnet Mask | 255.255.255.0 | | |
| LAN Gateway | 192.168.31.1 | | |
| LAN DNS1 | 192.168.31.1 | | |
| LAN DNS2 | | | |

4.2. Device Network Configuration

You can check for the device's network connection info and configure the default DHCP mode (**Dynamic Host Configuration Protocol**) and static IP connection for the device. To do so , you can go to **Network > Basic** on the device web interface.

| | LAN Port |
|-----------------|---------------|
| O DHCP | |
| O Static IP | |
| IP Address | 192.168.1.100 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | 192.168.1.1 |
| LAN DNS1 | 8.8.8.8 |
| LAN DNS2 | |

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 **AKUVOX** Intercom A092 Access Controller Administrator Guide turned on, then the access controller 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 servers 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.

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- **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.
- LAN DNS1/2: set up preferred or alternate DNS Server (Domain Name Server) according to your actual network environment. Preferred DNS server is the primary DNS server address while the alternate DNS server is the secondary server address and the access controller will connect to the alternate server when the primary DNS server is unavailable.

4.3. Configure Web Server

You can configure the device web server by setting up the http and https protocols as well as the http port for accessing the device web interface. You can go to the **Network > Advanced> Web Server** on the web interface for the setting.

| Web Se | erver | | |
|--------------|---------|---|-----------------|
| Http Enable | Enabled | ~ | |
| Https Enable | Enabled | ~ | |
| Http Port | 80 | | (80,1024~65534) |

Parameter Set-up:

• **Http Enable**: enable it if you allow the device web interface to be accessed via http protocol, or disable it if you want to deny the access

Akuvox Smart Intercom A092 Access Controller Administrator Guide via http. Enabled is the default setting.

- Https Enable: enable it if you allow the device web interface to be accessed via https protocol, or disable it if you want to deny the access via https. Enabled is the default setting.
- Http Port: specify the web server http port for accessing the device web interface via Http/Https.

4.4. TR069

TR-069 (Technical Report 069) is the document number of the technical report, defined by the Broadband Forum, that specifies the "CPE WAN management protocol" or CWMP. It defines an application layer protocol for management of end-user devices. As remote а bidirectional SOAP/HTTP-based protocol, it provides the communication between Customer-Premises Equipment (CPE) and Auto-Configuration Servers (ACS). It includes both a safe auto configuration and the control of other CPE management functions within an integrated framework.

| | TR069 | | | |
|-----------------|-------------------|----------|---|--------------|
| | Active | Disabled | ~ |] |
| | Version | 1.0 | ~ |] |
| ACS | URL | | | |
| | User Name | | | |
| | Password | ••••• | | |
| Periodic Inform | Active | Disabled | ~ |] |
| | Periodic Interval | 1800 | | (3~24×3600s) |
| CPE | URL | | | |
| | User Name | | | |
| | Password | | | |

- Active: enable it when you want to activate the TR069 function on the ACS server side.
- Version: select the TR069 version.

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- ACS URL: enter the URL of the ACS server, for example: "http://192.168.1.47:8080/openacs/acs"
- User Name: enter the ACS server user name for the authentication.
- **Password**: enter the ACS server authentication password.
- Active: enable it if you allow the device to send requests to the ACS server for the automatic configuration and update etc.
- **Periodical Interval**: select the time interval for the device to send the request to the ACS server for the automatic configuration and update etc.
- URL: enter the device URL, for example : http://192.168.1.48:8882/。
- User Name: enter the device authentication user name.
- **Password**: enter the device authentication password.

4.5. SNMP

SNMP (Simple Network Management Protocol) is an Internet-standard protocol for managing devices on IP networks. SNMP is widely used in network management system to monitor network-attached devices for conditions that may draw network administrative attention. SNMP exposes management data in the form of variables on the managed systems, which describe the system configuration. These variables can then be queried by managing applications. These variables accessible via SNMP are organized in hierarchies, which are described by Management Information Bases (MIBs).

| Advanced | | | | |
|----------|------------|----------|---|--------------|
| | SNI | MP | | |
| | Active | Disabled | ~ |] |
| | Port | | | (1024~65535) |
| | Trusted IP | | | |

Parameter Set-up:

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- Active: enable or disable the SNMP function. The default setting is • Disabled.
- **Port**: Specific the port for the data transmission from 1024-65535.
- Trusted IP: enter the third-party IP address.

5. Relay Setting

5.1. Configure Built-in Relay

A092 access controller has two built-in relays that can be connected to the electrical door locks for the door access control. You can go to **Access control > Relay** for the setting.

| | | | Relay | |
|------------------|---------------|-----|---------------|-----|
| Relay ID | RelayA | ~ | RelayB | ~ |
| Relay Type | Default state | • • | Default state | • • |
| Relay Mode | Monostable | ~ | Monostable | ~ |
| Relay Delay(sec) | 3 | ~ | 3 | ~ |
| Relay Status | RelayA: Low | | RelayB: Low | |

- **Relay ID**: you are allowed to set up two relay switches in total for the door access control (Relay A, Relay B)
- **Relay Type**: there are two relay types:default state(high voltage level, NC-normally closed) and inverted state (Low voltage level, NO-normally open). Default state changes from NC-NO, Inverted state is from NO-NC.
- **Relay Mode**: select **Monostable** or **Bistable**. When you select Monostable, the relay will reset after the door opening which means the door will be closed again, however if you select Bistable, then the relay will not reset and you have to for example, swipe the card on the card reader to close the door.
- **Relay Delay**: set the relay 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 5s after the door is unlocked.
- 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).

5.2. Configure Web relay

In addition to the built-in relays, you can also unlock the door that is connected to web relay. You can go to **Access Control > Web Relay/Web Relay Action Setting** to configure the web relay.

| | Web F | Relay | |
|--------------|------------------|---------------|------------------------|
| Туре | | Disabled ~ | |
| IP Address | | | |
| UserName | | | |
| Password | | ••••• | |
| | | | |
| | Web Relay Ac | tion Setting | |
| Action ID | Web Relay Action | Web Relay Key | Web Relay Extension |
| Action ID 01 | | | |
| Action ID 02 | | | |
| Action ID 03 | | | |
| Action ID 04 | | | |
| Action ID 05 | | | |
| Action ID 06 | | | |
| Action ID 07 | | | |
| | | | |
| Action ID 08 | | | |
| Action ID 08 | | | |

- **Type**: 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 passwords 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 Extension: enter the relay extension information, which can be a SIP number of an intercom device such as an indoor monitor, so that the specific action command will be sent when unlock is performed on the intercom device.

6. Door Access Schedule Management

You are required to configure and make schedule for the user-based door access via RF card etc.

Configure Door Access Schedule 6.1.

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

6.1.1.Create Door Access Schedule

You can create the door access schedule on the daily or monthly basis and you can also create schedule that allows you to plan for a longer period of time in addition to running the door access schedule on the daily, weekly basis or longer period. You can go to Access Control > Schedules > Schedule Setting for the setting.

> To create a daily schedule

| Schedule Type | Daily 🗸 |
|---------------|------------------------|
| Schedule Name | |
| Date Time | HH V: MM V- HH V: MM V |

- Schedule Type: select "Daily" Type if you to run the door access control on the daily basis.
- Schedule Name: create a door access schedule name
- Data Time: Set up the time schedule for the validity of the door access • during a day.

> To create a weekly schedule

| | Schedule Setting |
|---------------|-----------------------------|
| Schedule Type | Weekly V |
| Schedule Name | |
| Day of Wook | Mon 🗆 Tue 🗆 Wed 🗆 Thur 🗆 |
| Day of week | Fri 🗆 Sat 🗆 Sun 🗆 Check All |
| Date Time | 22 • : 19 • - 18 • : 20 • |

- Schedule Type: select "Weekly" Type if you to run the door access control on the daily basis.
- Schedule Name: create a door access schedule name.
- Day of week: select the day (s) on which door access can be valid on a weekly basis
- Date Time: Set up the time schedule for the validity of the door access during a day.
- > To create a longer period schedule

| | Schedule Setting |
|---------------|---|
| Schedule Type | Normal V |
| Schedule Name | |
| Date Range | 2021-06-04 - 2021-06-04 |
| Day of Week | Mon 🛛 Tue 🗌 Wed 🗍 Thur 🗌 Fri 🗌 Sat 🗌 Sun 🗍 Check All 🗌 |
| Date Time | 22 • : 19 • - 18 • : 20 • |

• Schedule Type: select "Weekly" Type if you to run the door access control on the daily basis.

- Schedule Name: create a door access schedule name.
- **Date Range**: set the start day and end day of the schedule.
- **Day of week**: select the day (s) on which door access can be valid on a weekly basis
- **Data Time**:Set up the time schedule for the validity of the door access during a day.

6.2. Import and Export Door Access Schedule

In addition to creating door access schedule separately, you can also conveniently import or export the schedules in order to maximize your door access schedule management efficiency. To import and export the schedule You can go to **Access Control > Schedules > Import/Export Schedules(.xml)** on the web interface.

| Schedules | | |
|----------------------------|-----------------|--------|
| Import/Expo | rt Schedules(.x | ml) |
| Choose File No file chosen | Import | Export |

| | Note: |
|---|---|
| • | It only supports .xml format file for importing and exporting the schedule. |

6.3. Edit the Door Access Schedule

If you want to edit or delete your door access schedule you created, you can edit or delete the selected configured schedule separately or in batch on the web interface. To do so, you can go to **Access Control > Schedules Setting/Schedule Manage** on the web interface.

| | | | Schedule | Setting | | |
|---------------------------------------|-------|---------------|------------|-----------------|-------------|---|
| | | Schedule Type | Daily | • | | |
| | | Schedule Name | Day`DShift | | | |
| | | Date Time | 08 🗸 : [| 00 🗸 - 18 🖌 : 0 | 0 ~ | |
| | | Ec | lit | Reset | | |
| | | | | | | |
| | | | Schedule | Manage | | |
| Index | Туре | Name | Date | Day of Week | Time | |
| 1 | Daily | Day`DShift | - | - | 08:00-18:00 | |
| 2 | | | | | | |
| | | | | | | C |
| 3 | | | | | | |
| 3 4 | | | | | | L |
| 3 4 5 | | | | | | |
| 3 4 5 6 | | | | | | |
| 3 4 5 6 7 | | | | | | |
| 3 4 5 6 7 8 | | | | | | |
| 3 4 5 6 7 8 9 | | | | | | |
| 3 4 5 6 7 8 9 10 | | | | | | |

7. Door Unlock Configuration

7.1. Configure Access Card 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 with that applied in the third party system. You can go to **Access Control > Card Setting > RFID** on the web interface.

| | R | FID | |
|----------------------|-----|-----|--|
| WIEGAND Display Mode | 8HN | ~ | |

Parameter Set-up:

• WIEGAND Display Mode: select the card format for the WIEGAND Card for the door access among five format options: 8H10D, 6H3D5D(W26), 6H8D, 8HN; 8HR, 6H3D5D-R(W26), and RAW. The card code format is 8HN by default in the access controller.

7.2. Configure Access Card for Door Unlock

On the device web interface, you can not only configure the RF card one by one manually but also import or export the RF card files to the device in batch in order to maximize card configuration efficiency.

> Configure RF card manually

You can go to **Access Control > Card Setting > RFID** where you can add set up RF card and assign the specific card with a RF card validity schedule for the door access

| | Caru Status | · |
|--|---------------------------------|------|
| Card Status | Card Issuing V | pply |
| | RFID | |
| WIEGAND Display | Mode 8HN | • |
| | CardEvent | |
| Action to execute | FTP 🗆 Email 🗆 HTTP 🗆 | |
| Http URL: | | |
| | Card Setting | |
| | | |
| IC Key DoorNum | RelayA 🗹 RelayB 🗹 | |
| IC Key DoorNum IC Key Tags | RelayA 🗹 RelayB 🗹 | |
| IC Key DoorNum IC Key Tags IC Key WebRelay | RelayA Z RelayB Z Schedule V | |
| IC Key DoorNum IC Key Tags IC Key WebRelay Frequency | RelayA Z RelayB Z Schedule V | |
| IC Key DoorNum IC Key Tags IC Key WebRelay Frequency IC Key Name | RelayA RelayB Schedule | |

- **Card Status**:select **"Car Issuing**" in the field before adding the RFID card and change the status back to **"Normal**" after the card is added.
- IC Key DoorNum:select the relay(s) to which the RFID card is applied to.
- IC Key Tags: Select the frequency of the validity the RFID card for the door access among three options: "Allow" "Schedule" and "Forbidden" For example, if you select "Allowed" then the card is always valid for unlimited door access according to your setting. If you select "Schedule" you are required to set up the number of the RFID card access validity. If you select "Forbidden" then the RFID card will never be valid for the door access.
- IC Key WebRelay: enter the web relay action ID so that so that the web relay can be triggered using RFID card for door access. When 0 is selected, then the web relay will not be triggered and it will trigger the

AKUVOX Smart Intercom A092 Access Controller Administrator Guide built-in relay instead.

- Frequency:set up the number of the RFID card access validity. The maximum number of RF access validity is 65535.
- IC Key Name: enter the RFID card name.
- IC Key Code: RFID card number will appear when the card has been added successfully. You can add 50,000 card maximum.

Note:

• RF card with 13.56 MHz and 125 KHz can be applicable to the access controller for the door access.

After the RF is added, you can assign the RF card with a card validity schedule. You can go to **Access Control> Card Setting > Schedule Management** for the validity schedule assignment.

| Schedule I | Management | |
|----------------------------------|-----------------------------------|--|
| All Schedules 1:Day`ADShift ▲ | Enable Schedules 1:Day`ADShift | |
| | > | |
| | < | |

> Import/Export Card data of access control

A092 access controllers support card data of access control to be shared among Akuvox access controllers through import and export while you can also export the card data out of the access controller and then import to a third party device. You can go to **Access Control> Card Setting > Import/Export Card Data(.xml)** on the web interface.

| Import/Expo | rt Card Data(.x | ml) |
|----------------------------|-----------------|--------|
| Choose File No file chosen | Import | Export |

7.3. Edit/Delete Access card Control schedule

After the RFID card is assigned with an access control schedule, you can edit or delete the the schedule if needed. You can go to **Access Control > Card Setting Door Card Management** to select the specific schedule and go to **Cart Setting** on the same page.

| | Card Se | tting | |
|-----------------|-------------------|--------|------|
| IC Key DoorNum | RelayA 🗹 RelayB 🗹 | | |
| IC Key Tags | Allowed ~ | | |
| IC Key WebRelay | 0 ~ | | |
| IC Key Name | | | |
| IC Key Code | 00FDA9CB | Obtain | Edit |

| | | Do | or Card | Manag | jement | | | |
|-------|------|------|---------|-------|------------|-----------|--------------|--|
| Index | Name | Code | Door | Tags | ScheduleID | Frequency | Web Relay | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| Par | | Drev | N | evt | Delete | Delet | e All | |

7.4. 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 the HTTP command (URL) on the web browser to trigger the relay when you are not available by the door for the door access. You can go to **Access Control > Relay > Open Relay via HTTP** for the setting.

| | 0 | pen Rela | ay via H1 | ТР | |
|--------------|----------|----------|-----------|----|--|
| Switch | Enabled | ~ | | | |
| SessionCheck | Disabled | ~ | | | |
| UserName | | | | | |
| Password | | | | | |

Parameter Set-up:

- Switch: enable the HTTP command unlock function by clicking on Enable field. It is enabled by default.
- SessionCheck: enable it so that the door can be unlocked via HTTP command even if the device web interface is not logged in successfully. When it is disabled, door can not be unlocked via HTTP command.
- User Name: enter the user name of the device web interface for authentication purpose, for example "Admin".
- **Password**: enter the password for the HTTP command for authentication purpose. For example : "**12345**".

Please refer to the following example:

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

7.5. 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 access controller Input to trigger the relay for the door access on web interface: **Access Control > Input**.

| nput | | |
|-------------------|----------------------|--|
| | InputA | |
| Input Service | Disabled | |
| Trigger Option | Low 🗸 | |
| Action to execute | FTP 🗆 Email 🗆 HTTP 🗆 | |
| Http URL: | | |
| Action Delay | 0 (0~300 Sec) | |
| Open Relay | None 🗸 | |
| Door Status | DoorA: High | |

- Input service: Select " Enable " to be able to use the Input function. It is disabled by default.
- **Trigger Option:** Select the trigger options according the actual operation on the exit button. It is low by default.
- Action To Execute: select the method to carry out the action among four options: FTP, Email, HTTP, 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 your press the button.
- Open Relay: set up relays to be triggered by the input. It is None by AKUVOX SMART INTERCOM www.akuvox.com 23

• **Door Status:** display the status of input signal. It is **High** by default.

8. Security

Tamper alarm function serves as a protection against any unauthorized removal of the devices by triggering off the temper alarm on the device. You can go to **Security > Basic > Tamper Alarm** for the setting.

| Tamper Alarm | Disabled 🗸 Disarm |
|--------------|-------------------|
| Key Status | High |

Parameter Set-up:

- **Enable**: tick the check box to enable the temper alarm function. When the temper alarm goes off , you can press the **Disarm** tab beside the check box to clear the alarm.
- **Key Status**: temper alarm will not be triggered unless the key status is shifted from "Low" to " High" status. The normal status is low.

) Note:

• **Disarm** tab will turn gray when the temper alarm is cleared.

8.1. Security Notification Setting

8.1.1.Email Notification Setting

If you want to receive the security notification via email after door unlock , you can configure the Email notification on the web interface: **Setting > Action > Email Notification**. The email notification contains the captured images.

| Action | | |
|-------------------------|--------------------|--|
| | Email Notification | |
| Sender's email address | | |
| Receiver's email addres | 5 | |
| SMTP server address | | |
| SMTP user name | | |
| SMTP password | ••••• | |
| Email subject | | |
| Email content | | |
| Email Test | Test Email | |

Parameter Set-up:

- Sender's email address: enter the sender's email address from which the email notification will be sent out.
- Receiver's Email Address: enter the receiver's email address.
- **SMTP Server Address:**enter the SMTP server address of the sender. For example: smtps:// smtp.gmail.com
- **SMTP User Name:** enter the SMTP user name, which is usually the same with sender's email address.
- **SMTP Password:**configure the password of SMTP service, which is same with sender's email address.
- **Email Subject:** enter the subject of the email.
- Email Content: compile the emails contents according to your need
- Email Test: click on Test email to check if the information are correct.

8.1.2.FTP Notification Setting

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

| | FTP Notification | |
|---------------|------------------|--|
| FTP Server | | |
| FTP User Name | | |
| FTP Password | ••••• | |
| FTP Test | Test FTP | |

- **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 FTP server.

9. Door Log

If you want to check door logs and import and export the various types of door access history, you can go to web **Access Control > Door Log/Import/Export Door Log(.xml)**.

| | | | Do | or Log | | | |
|-------|-------|----------|--------|--------------|----------|------------|--------------|
| | | | | | | | |
| Index | Name | Code | Туре | Date | Time | Status | |
| 1 | admin | OpenDoor | Http | 2021-06-07 | 08:06:05 | Success | \checkmark |
| 2 | admin | OpenDoor | Http | 2021-06-07 | 08:05:35 | Success | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| Page: | 1 ~ | Prev | Next | Dele | te | Delete All | |
| Page: | 1 ~ | Prev | Next | Dele | ite | Delete All | |
| | | Impor | t/Expo | rt Door Log(| .xml) | | |
| | | | | | | | |

- Name: displays the card name of the RF card used for the door unlock. It the door in unlocked by unknown cards, then the card name will not be displayed as unknown.
- **Code:** codes includes three types of door access. If the door is unlocked by a card, then the card number will be displayed. If the door is unlocked by Exit button, then it will be display low or high depending on voltage level applied. If the door is unlocked by the HTTP command, then the

AKUVOX Smart ACCESS Controller Administrator Guide open door action will be displayed.

- **Type**: displays card, HTTP and Input depending on what method is used for the door unlock
- **Date**: display the door unlock date.
- **Time**: displays the door unlock time.
- Status: displays door unlock result.
- Choose File: choose the log file from your local PC.
- **Import**: imported the log file you selected.
- **Export**: export the existing log file to your local PC.

10. Debug

10.1.Configure Debug Server

If you want to obtain the log for debugging purpose, you can enable the remote debug to collect logs from the device. To set up the debug sever, you can go to **Upgrade > Advanced > Remote Debug Server**.

| R | emote Debug Server | |
|----------------|--------------------|--------------|
| Service | Disabled 🗸 | |
| Connect Status | DisConnected | |
| IP | | |
| Port | 9500 | (1024~65535) |

Parameter Set-up:

- **Service:** enable or disable the remote debug server according to your need. It is disabled by default.
- **Connect Status:**displays the remote debug server connection status.
- **IP**: fill in the remote debug server IP address.
- **Port:** fill in the remoter debug server port (1024-65535). The Akuvox test remote debug server port is 9500. leave the field blank by default.

10.2.System Log for Debugging

System log in A092 access controller can be used for debugging purpose. If you want to export the system out to a local PC or to a remote server for debugging. To con figure system log, you can go to

| | System Log |
|----------------------|------------|
| LogLevel | 3 ~ |
| Export Log | Export |
| Remote System Log | Disabled 🗸 |
| Remote System Server | |

Parameter Set-up:

- LogLevel: 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 purpose. 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 temporary debug log file to a local PC.
- **Remote System Server**: enter the remote server address to receive the the device **log**. And the remote server address will be provide by Akuvox technical support.

10.3.PCAP for Debugging

PCAP is used to capture the data package going in and out of the devices for debugging and troubleshooting purpose. To set up the PCAP, you can go to **Upgrade > Advanced > PCAP**.

| | PCAP | | |
|-------------------|------------|------|-----------|
| Specific Port | | | (1~65535) |
| PCAP | Start | Stop | Export |
| PCAP Auto Refresh | Disabled 🗸 | | |

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- **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 **Start** tab and **Stop** tab to capture the a certain range of data packets before clicking **Export** tab to export the data packets to you Local PC.
- PCAP Auto Refresh: select "Enable" or " Disable" to turn on or turn off the PCAP auto fresh function. If you set it as " Enable" then the PCAP will continue to capture data packet even after the data packets reached its 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.

11. Firmware Upgrade

Firmwares for A092 access controller can be upgraded on the device web interface, you can go to **Upgrade > Basic** to upgrade the firmware.

| Firmware Version | 92.30.1.6 |
|--------------------------|----------------------------|
| Hardware Version | 92.0.0.0.0.0.0 |
| Upgrade | Choose File No file chosen |
| | Reset: |
| | Submit Cancel |
| Reset To Factory Setting | Submit |
| Reboot | Submit |

Parameter Set-up:

• **Upgrade:** Choose .rom firmware from your PC, then click **Submit** to update.

12. Backup

Configuration files can be imported to or exported out of the device to your local PC. To do so , you can go to **Upgrade > Advanced > Others** interface if needed.

| | Others |
|------------------------|----------------------------|
| Config File(.tgz/.cfg) | Choose File No file chosen |
| | Export (Encrypted) |
| | Import Cancel |

- **Choose File**: choose the configuration file to be imported from your Local PC.
- **Import**: import the new configuration file to the device.
- **Export**: export the encrypted existing config file from your device to your PC.

13. Auto-Provisioning via configuration File

Configurations and upgrading on A092 access controller 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 configuration needed one by one manually on the access controller.

13.1. Provisioning Principle

Auto-provisioning is a feature used to configure or upgrade the devices in batch via third party servers. **DHCP, PNP, TFTP, FTP, 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 firmwares, which will then be used to to update the firmware and the corresponding parameters on the access controller.



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13.2.Configuration Files for Auto-provisioning

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

The difference between the two types of configuration files is shown as 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. For example : r00000000092.cfg.
- MAC-based configuration provisioning: MAC-based configuration files is used for the auto-provisioning on a specific device as distinguished by its unique MAC number. And the configuration files named with device MAC number will be matched automatically with the device MAC number before being downloaded for the provisioning on the specific device.

To get the Autop configuration file template, you can go to **Upgrade >** Advanced > Automatic Autop on the web interface.

| Mode | Power On 🗸 | |
|-----------|------------|------------|
| Schedule | Sunday | ~ |
| | 22 | Hour(0~23) |
| | 0 | Min(0~59) |
| Clear MD5 | Sub | omit |

++



13.3.AutoP Schedule

Akuvox provides you with different Autop methods that enable the access controller to perform provisioning for itself in a specific time according to your schedule. You can go to **Upgrade > Advanced > Automatic Autop** for the setting.

| Au | tomatic Autop | |
|-----------------------|---------------|---|
| Mode | Power On | ~ |
| Schedules | Every Day | ~ |
| | 23 | Hour(0~23) |
| | 59 | Min(0~59) |
| Clear MD5 | Submi | t |
| Export Autop Template | Export | t i i i i i i i i i i i i i i i i i i i |

- **Power On:** select "**Power on**", if you want the device to perform Autop every time it boots up.
- **Repeatedly:** select "**Repeatedly**", if you want the device to perform autop according to the schedule you set up.
- **Power On + Repeatedly:** select "**Power On + Repeatedly**" if you want to 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: select "Hourly Repeat" if you want the device to perform Autop every hour.

13.4. 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 access controller will perform the auto provisioning on a specific timing 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.

| JRL | |
|----------------|--------|
| Jser Name | |
| Password | ••••• |
| Common AES Key | •••••• |
| AES Key(MAC) | ••••• |

Parameter set-up:

- URL: set up tftp, http, https, ftp server address for the provisioning
- User Name: set up a user name if the server needs an user name to be accessed to otherwise leave it blank.
- **Password**: set up a password if the server needs a password to be accessed to otherwise leave it blank.
- **Common AES Key**: set up AES code for the intercom to decipher general Auto Provisioning configuration file.
- **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)

Tip:

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

14. Integration with Third Party Device

14.1. Integration via Wiegand

A092 access controller can be connected with the third party card readers and door strike etc via Wiegand for the door access control. You can go to **Device > Wiegand A/B/C/D** for the Wiegand setting on the web interface.

| egand Setting | |
|----------------------|--------------|
| | WiegandA |
| WiegandA Type | wiegand-26 🗸 |
| WiegandA Mode | Input 🗸 |
| WiegandA Input Order | Normal 🗸 |

Parameter set-up:

- Wiegand Type: set the wiegand data transmission format among three options: "Wiegand 26", "Wiegand 34", "Wiegand 58". The transmission format should be identical between the access controller and the device to be integrated.
- Wiegand Mode: A092 does not have a built-in card reader module as it only receives the input data from the card reader, therefore the Wiegand mode is invariably Input.
- Wiegand Input Order:select between Normal and Reversed. The card number sequence will be in reversed order if you select Reversed.

14.2.Integration via RS485

RS485 allows you to connect A092 access controller with the third party devices such as lift controller etc to achieve the lift control. You can go to **Device > RS485 > RS485 List** for the setting.

| S485 List | | | |
|-----------------|------|---|--|
| Apply RS485A to | None | ~ | |
| Apply RS485B to | OSDP | ~ | |
| Apply RS485C to | None | ~ | |

Parameter Set-up:

- None: If you select "None" then the RS485 integration will be disabled.
- **OSDP:**If you Select "**OSDP**" Mode, then the integration communication between the A092 access controller and the third party device will be via OSDP protocol. You are required to check for the device integration protocol and make sure if that they use the same integration protocol.

14.3.Configure HTTP API for the Third-party Integration

HTTP API is designed to achieve an network-based integration between the third party device with the A092 access controller. You can go to **Security> HTTP API** for the setting.

| ITTP API | | |
|-----------|----------|--|
| | НТТР АРІ | |
| ΗΤΤΡ ΑΡΙ | Enabled | |
| Auth Mode | Digest 🗸 | |
| User Name | admin | |
| Password | ***** | |
| IP01 | | |
| IP02 | | |
| IP03 | | |
| IP04 | | |
| IP05 | | |

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Parameter set-up:

- **HTTP API:** select "**Enable**" or "**Disable** " to 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.
- Auth Mode: select among four options: "None" "WhiteList" "Basic", "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".
- **IP01-IP05:** enter the IP address of the third party devices when the "WhiteList" authorization is select for the integration.

Please refer to the following description for the Authentication mode

| NO. | Authorization | Description |
|-----|---------------|---|
| | Mode | |
| 1 | None | No authentication is required for HTTP API as it is only used for demo testing. |
| 2 | Normal | This mode is used by Akuvox developer only. |
| 3 | WhiteList | If this mode is selected, you are only required to fill in the IP address of the third party device for the authentication. The whitelist is suitable for operation in the LAN. |
| 4 | Basic | If this mode is selected, you are required to fill in the User name and the password for the authentication.In Authorization field of HTTP request header, use Base64 encode method to encode of username and password. |

| 5 | Digest | Password encryption method, only supports MD5. MD5(Message-Digest Algorithm) In Authorization field of Http request header: WWW-Authenticate:Digest realm="HTTPAPI",qop="auth,auth-int",nonce=" xx", opaque="xx". |
|---|--------|---|
| 6 | Token | This mode is used by Akuvox developer only |

14.4. Power Output Control

A092 access controller can also serve as a power supply for the third party devices such as card reader and door strike etc. To set up power output, you can go to **Access Control > Relay >12V Power Output**.

| | 12V Po | wer Output |
|----------------------|----------|------------|
| 12V Power OutputA | Disabled | ~ |
| 12V Power OutputB | Disabled | ~ |
| Time Out (Sec) | 3 ~ | |

- 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 access controller to provide power to the third party device via 12 output and GND interface during the timeout when the relays status is shifted from low to high.
- **Time Out (Sec)**: select the 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

15. Account & Password

You change the passwords for both **Administrator** account and **User** account, as well as change the user account status. You can on the web interface: **Security>Basic Web Password Modify/Account Status.**

| 2 | |
|-----------|-------------------------|
| | Web Password Modify |
| User Name | admin 🗸 Change Password |
| | Account Status |
| Admin | Enabled V |
| User | Enabled V |

- User Name: select the Admin if want to change the administrator account password.
- **Change password**: click on it to change the password.
- Admin: it is enabled by default and is not modifiable
- **User:** enable or disable the user account according to your need. When the user account is disable, it will invalidate the user account.

16. System Reboot&Reset

16.1.Reboot

A092 access controller can be rebooted manually or with a reboot schedule on the web interface.

> To reboot the system manually

You can go to Upgrade> Basic for the reboot

| sic | |
|--------------------------|----------------------------|
| Firmware Version | 92.30.1.6 |
| Hardware Version | 92.0.0.0.0.0.0 |
| Upgrade | Choose File No file chosen |
| | Reset: 🗆 |
| | Submit Cancel |
| Reset To Factory Setting | Submit |
| Reboot | Submit |

> To set up the device reboot schedule

You can go to **Upgrade > Advanced > Reboot Schedule** for the reboot.

| | RebootSchedule | |
|-----------|----------------|------------|
| Mode | Disabled 🗸 | |
| Schedules | Every Day 🗸 | |
| | 0 | Hour(0~23) |

- Mode: enable or disable the reboot schedule according to your need.
- Schedule: select the time schedule for the reboot.

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16.2.Reset

If you want to reset the device system to the factory setting, you can go to **Upgrade > Basic** on the web interface.

| Basic | |
|--------------------------|----------------------------|
| Firmware Version | 92.30.1.6 |
| Hardware Version | 92.0.0.0.0.0.0 |
| Upgrade | Choose File No file chosen |
| | Reset: |
| | Submit Cancel |
| Reset To Factory Setting | Submit |
| Reboot | Submit |

17. Abbreviations

ACS: Auto Configuration Server Auto: Automatically AEC: Configurable Acoustic and Line Echo Cancelers **ACD:** Automatic Call Distribution Autop: Automatical 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 Modulation A-Law PCMU: Pulse Code Modulation µ-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 **SNMP.** 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 **AKUVOX SMART INTERCOM**

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18. FAQ

Q1: How to obtain IP address of R2X

A1: For devices with 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 into IP announcement mode. In announcement mode, the IP address will be announced repeatedly. Press call button again to quit the announcement mode.

✓ For devices with multiple numeric keyboard - R27:

While R27 power up normally, press "*2396#" to enter home screen and press "1" to go to 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 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 akuvox doorphone? 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) Indoorphone -- 14° to 112°F (-10° to 45°C)

IPPhone -- 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 unziped folrder into .zip again.

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Q55: Which version of ONVIF does R20 and X915 support? A55: Onvif 18.04 profiles

Q6: Do access controllers support these card types? Prox, Legacy iClass, iClass, E, HID Mifare, HID DESFire, HID SEOS

A6: Sorry, they are not supported. They need to be implemented via hardware modifications.

Q7: How to confirm whether my device is hardware version 1 or hardware version 2?

A7: 1.Label



• Hardware version 2



• Firmware Version

The firmware is different between 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 hardware version1 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 | |
|------------------|--------------------|
| Pi | roduct Information |
| Model | R20K |
| MAC Address | 0C:11:05:08:00:6D |
| Firmware Version | 20.30.4.8 |
| Hardware Version | 20.9.0.0.0.0.0 |

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19. Contact us

For more information about the product, please visit us atwww.akuvox.com or feel free to contact us by Sales email: sales@akuvox.com Technical support email: support@akuvox.com Telephone: +86-592-2133061 ext.7694/8162

We highly appreciate your feedback about our products.

