# **Access Standalone**

# **User's Manual**



V1.0.1

# Foreword

### General

This manual introduces the functions and operations of the Access Standalone. Read carefully before using the device, and keep the manual safe for future reference.

### Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning	
ANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.	
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.	
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.	
©— <sup></sup> TIPS	Provides methods to help you solve a problem or save time.	
NOTE NOTE	Provides additional information as a supplement to the text.	

#### **Revision History**

Version	Revision Content	Release Time
V1.0.1	Revised network communication.	August 2024
V1.0.0	First release.	October 2022

#### **Privacy Protection Notice**

As the device user or data controller, you might collect the personal data of others such as their face, audio, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

### About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.

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- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

# **Important Safeguards and Warnings**

This section introduces content covering the proper handling of the Access Standalone, hazard prevention, and prevention of property damage. Read carefully before using the Access Standalone, and comply with the guidelines when using it.

### **Transportation Requirement**



Transport, use and store the Access Standalone under allowed humidity and temperature conditions.

#### Storage Requirement



Store the Access Standalone under allowed humidity and temperature conditions.

#### Installation Requirements

### 

- Do not connect the power adapter to the Access Standalone while the adapter is powered on.
- Strictly comply with the local electric safety code and standards. Make sure the ambient voltage is stable and meets the power supply requirements of the Access Standalone.
- Do not connect the Access Standalone to two or more kinds of power supplies, to avoid damage to the Access Standalone.
- Improper use of the battery might result in a fire or explosion.



- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not place the Access Standalone in a place exposed to sunlight or near heat sources.
- Keep the Access Standalone away from dampness, dust, and soot.
- Install the Access Standalone on a stable surface to prevent it from falling.
- Install the Access Standalone in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- Use the power cords that are recommended for the region and conform to the rated power specifications.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Please note that the power supply requirements are subject to the Access Standalone label.
- The Access Standalone is a class I electrical appliance. Make sure that the power supply of the Access Standalone is connected to a power socket with protective earthing.

### **Operation Requirements**



- Check whether the power supply is correct before use.
- Do not unplug the power cord on the side of the Access Standalone while the adapter is powered on.
- Operate the Access Standalone within the rated range of power input and output.
- Use the Access Standalone under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the Access Standalone, and make sure that there is no object filled with liquid on the Access Standalone to prevent liquid from flowing into it.
- Do not disassemble the Access Standalone without professional instruction.
- This product is professional equipment.
- The Access Standalone is not suitable for use in locations where children are likely to be present.

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# **1 Product Overview**

### **1.1 Introduction**

Integrated with a powerful processor and a deep-learning algorithm, the can identify fingerprints instantly and accurately. The device also supports unlocking the door by cards, passwords, fingerprints, or their combinations. To meet different needs, it also works with a management software to perform more functions.

The fingerprint function is available on select models.

### **1.2 Application**

The device is applicable to a variety of scenarios, such as office buildings, schools, industrial parks, apartment complexes, factories, public stadiums, and business centers.

 $\square$ 

The diagram below is for reference only, and might differ from the actual product.

### Figure 1-1 Network diagram



# 2 Local Configuration

# 2.1 Configuration Process



2.2 Keypad Functions



Keypad	Description	
Number or letter	Enter information or select menus.	
$\wedge$	Lies the arrest keys to passign to the meanur	
$\vee$	Use the arrow keys to navigate the menus.	
Esc	Cancel the selection or go back to the previous screen.	
ОК	Go to the selected screen or confirm the changes.	
88	Go to the main menu screen.	
$\!$	Backspace.	
<u>ு β</u>	Ring the bell, turn to the next page, or change the input method.	
	The doorbell can function only when the Access Standalone is on the standby screen.	

## 2.3 Standby Screen

You can unlock the door on the standby screen with your card, password, or fingerprint.

#### $\square$

- The Access Standalone goes back to the standby screen if there is no operation in 30 seconds.
- The Access Standalone turns off the screen if it stays on the standby screen for 30 seconds.
- The screen below is for reference only, and might differ from the actual product.



#### Figure 2-2 Standby screen

#### Table 2-2 Standby screen description

No.	ltem	Description
1	Status	Displays the status of Wi-Fi, wired network (if any), and USB drive.
2	Date & Time	Time and date.
3	Unlock the door with password	Enter the user ID and password, or enter the administrator password to unlock the door.
4	Unlocking methods	Displays the unlocking methods available on the Access Standalone.
5	Main menu	Tap 📧 to enter the main menu. Only Admin account and users with the administrator permission can access the main menu screen. For details, see "2.5 Logging in".

### 2.4 Initialization

For the first-time use or after restoring factory defaults, you need to set the password and email address for the admin account. You can use the admin account to log in to the main menu of the Access Standalone and its webpage.

#### Figure 2-3 Initialization

	Device Initia	lization	$\checkmark$
Admin			admin
PWD			
PWD Confi	rm		
E-mail			
Time Zone		< GMT+(	08:00 🔉

 $\square$ 

- If you forget the administrator password, send a reset request to your associated e-mail address.
- The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: Upper case, lower case, numbers, and special characters (excluding ' ";: &). Set a high-security password by following the password strength prompt.

# 2.5 Logging in

Log in to the main menu to configure the Access Standalone. Only admin account and administrator account can enter the main menu of the Access Standalone. For the first-time use, use the admin account to enter the main menu screen and then you can create the other administrator accounts.

#### **Background Information**

- Admin account: Can log in to the main menu screen of the Access Standalone, but has no door access permission.
- Administrator account: Can log in to the main menu of the Access Standalone and has door access permissions.

### Procedure

<u>Step 1</u> On the standby screen, tap  $\wedge$  and  $\vee$  to select  $\mathbb{B}$ , and then tap **OK**.

<u>Step 2</u> Select a verification method to enter the main menu.

 $\square$ 

Verification methods might differ depending on the models of the Access Standalone.

- Card: Enter the main menu by swiping card.
- FP: Enter the main menu through the fingerprint.
- PWD: Enter the user ID and password of the administrator account.
- Admin: Enter the Admin password to enter the main menu.
- <u>Step 3</u> On the main menu, tap  $\land$  or  $\lor$  to navigate the menus, and then tap **OK** to configure the parameters.

<u>\_~r</u>

Use the shortcuts to select the menus by simply tapping 1–6.

• To configure user management, tap 1.

- To configure access control, tap 2.
- To configure communication, tap 3.
- To configure system, tap 4.
- To configure USB, tap 5.
- To view system information, tap 6.





## 2.6 Network Communication

Configure the network, serial port and Wiegand port parameters to connect the Device to the network or other devices.

# 2.6.1 Configuring IP

Set IP address for the Access Standalone to connect it to the network. After that, you can log in to the webpage and the management platform to manage the Access Standalone.

### Procedure

- <u>Step 1</u> On the main menu, select **Comm IP Address** , and then tap**OK**.
- <u>Step 2</u> Select **IP Address** and tap **OK** to configure parameters.



Figure 2-5 Configure IP

#### Table 2-3 Description of network parameters

Parameter	Description	
IP Address/ Subnet Mas/ Gateway IP	The IP address, subnet mask, and gateway IP address must be on the same network segment.	
DHCP	It stands for Dynamic Host Configuration Protocol. When DHCP is turned on, the Access Standalone will automatically be assigned with IP address, subnet mask, and gateway.	
Р2Р	P2P (peer-to-peer) technology enables users to manage devices without applying for DDNS, setting port mapping or deploying transit server.	

# 2.6.2 Configuring Wi-Fi

Connect the Access Standalone to a wireless network. Wi-Fi is only available on select models. Procedure

<u>Step 1</u> On the main menu, select **Comm Wi-Fi**, and then tap **OK**.

Figure 2-6 Wi-Fi

WiFi
Wifi Search
SSID
IP Address
Subnet Mask
Gate way

- <u>Step 2</u> Select **Wifi** > **Wifi Search**, and then tap **OK**.
- <u>Step 3</u> Select the Wi-Fi, and then tap **OK** to enable the Wi-Fi function.

The Access Standalone will search for and display all available wireless networks.

 $\square$ 

Tap 🖾 or 🕰 to go to the previous or next page.

<u>Step 4</u> Select a wireless network, tap **OK**, and enter the password.

## 2.6.3 Configuring Wiegand

Configure Wiegand input or output to connect a card reader or Access Standalone.

On the main menu, select **Comm** > **Wiegand**, and then tap **OK**.

• Select **Wiegand Input** when you connect an external card reader to the Access Standalone.

• Select **Wiegand Output** when the Access Standalone functions as a card reader, and you need to connect it to a controller or another access terminal.

Parameter	Description	
	Select a Wiegand format to read card numbers or ID numbers.	
Output Type	<ul> <li>Wiegand26: Reads 3 bytes or 6 digits.</li> <li>Wiegand34: Reads 4 bytes or 8 digits.</li> <li>Wiegand66: Reads 8 bytes or 16 digits.</li> </ul>	
Pulse Width		
Pulse Interval	Enter the pulse width and pulse interval of Wiegand output.	
	Select the type of output data.	
Output Data Type	<ul> <li>User ID : Outputs data based on user ID.</li> <li>Card No. : Outputs data based on user's first card number, and the data format is hexadecimal or decimal.</li> </ul>	

Table 2-4 Description of Wiegand parameters

### 2.6.4 Configuring Serial Port

On the main menu, select Comm Serial Port, and then tap OK.

- Select **Serial Input** when the Access Standalone connects to a card reader.
- Select **Serial Output** when the Access Standalone functions as a card reader, and the Access Standalone will send data to the Access Standalone to control door access.
  - **UserID** : Outputs data based on the ID of the user.
  - **Card No.** : Outputs data based on card number when users swipe card to unlock door.
- Select OSDP Input when the Access Standalone is connected to a card reader based on OSDP protocol.

### 2.6.5 Configuring Modes

Set the Access Standalone to card reader mode or controller mode.

Procedure

- <u>Step 1</u> On the main menu, select **Comm** > **Mode Setting**, and then tap **OK**.
- <u>Step 2</u> Select the mode.
  - Select **Controller** when it connects to a card reader.
  - Select **Card Reader** when the Access Standalone functions as a card reader, and you need to connect it to a controller or another access terminal. In this mode, Wiegand is not supported.

#### $\square$

In the **Card Reader** mode, you cannot set the serial input. DOOR\_COM and DOOR\_NC connect to the CASE and GND of the external Access Standalone for anti-tampering alarm.

<u>Step 3</u> Select **Baud Rate Setting** to set the baud rate.

- In the **Card Reader** mode, the baud rate automatically adjust according to the Access Standalone.
- In the **Controller** mode, you can set the baud rate. The baud of the Access Standalone must be the same to the external device for successful communication.

### 2.7 User Management

You can add new users, view user/admin list and edit user information.

### 2.7.1 Adding Users

### Procedure

- <u>Step 1</u> Tap  $\land$  or  $\lor$  to select B on the standby screen, and then tap **OK**.
- <u>Step 2</u> Log in with the administrator account, and then select **User** > **New User**.

 $\square$ 

The screens in this manual are only for reference, and might differ from the actual product.



Figure 2-7 Add a new user

<u>Step 3</u> Configure the parameters.

Parameter	Description
ID	Each user ID is unique. It can be 18 characters of numbers, letters, or their combination.
Name	Enter the name ( a maximum of 32 characters, including numbers, symbols, and letters).
	Each user can add up to 3 fingerprints. Follow the on-screen instructions and voice prompts to add fingerprints.
	You can enable the duress fingerprint function under each fingerprint. After the duress alarm function is enabled, an alarm will be triggered if the door is unlocked by the duress fingerprint.
Fingerprint	
	<ul> <li>We do not recommend you set the first fingerprint as the duress fingerprint.</li> <li>Only Access Standalone of fingerprint model supports the fingerprint function.</li> </ul>
Card	You can register 5 cards for each user. On the card registration page, swipe your card on the card reader, and then the card information will be read by the Device.
	You can enable the duress card function on the card registration page. After the duress alarm function is enabled, an alarm will be triggered if the door is unlocked by the duress card.
PWD	Enter the user password. The maximum length of the password is 8 digits. The duress password is adding 1 based on the last digit of the unlock password. For example, if the user password is 12345, the duress password will be 12346; if the user password is 789, and then the duress password is 780. A duress alarm will be triggered when a duress password is used to unlock the door.
	You can select a user permission for the new user.
Permission	<ul> <li>Normal users only have door unlock permissions.</li> <li>Administrators can configure the Access Standalone and unlock the door.</li> </ul>
Period	A user can only have door access within the defined period. The default value is 255, which means no period is configured.
Holiday Plan	A user can only have door access within the scheduled holidays. The default value is 255, which means no holiday plan is configured.
Valid Date	Define a period during which the user has door access permissions.

Parameter	Description				
User Type	<ul> <li>General : General users can unlock the door normally.</li> <li>Block list: When users in the blocklist unlock the door, service personnel receive a notification.</li> <li>Guest : Guests can unlock the door within a defined period or for a certain number of times. After the defined period expires or the unlocking times runs out, they cannot unlock the door.</li> <li>Patrol : Paroling users can have their attendance tracked, but they have no unlocking permissions.</li> <li>VIP : When VIP unlock the door, service personnel will receive a notification. The VIP user is not restricted by unlock modes, such as Multi-card and Time Section.</li> <li>Others : When they unlock the door, the door will stay unlocked for 5 more seconds.</li> <li>Custom User 1/2 : Same as General.</li> </ul>				

Step 4After you have configured all the parameters, tap Esc.Step 5Tap OK to save the changes.

# 2.7.2 Viewing User information

You can view and search all the general users and admin users, and edit user information.

On the main menu, select **User** > **User List/Admin List**, all added users are displayed.



Figure 2-8 User list

Figure 2-9 Admin list



- 📓: Fingerprint
- 🖃: Card
- 📾: Password

### Edit User information

- 1. Select the user and then tap **OK**.
- 2. Edit the user information.
- 3. Tap **Esc**, and then tap **OK** to save changes.

### Search for users

- 1. Select **Q**, and then tap **OK**.
- 2. Enter the ID of the user, swipe the card or place the finger on the fingerprint scanner to search for the user.

### **Delete users**

- 1. Select the user, and then tap **OK**.
- 2. Select **t** to delete the user.

# 2.7.3 Setting Administrator Password

You can unlock the door by only entering the admin password. Admin password is not limited by user types. Only one admin password is allowed for the device, but you can set 100 admin passwords through the platform.

#### Procedure

- <u>Step 1</u> On the main menu, Select **User** > **Administrator PWD**.
- <u>Step 2</u> Enter the administrator password, and then tap **OK**.

#### Figure 2-10 Administrator password





### 2.8 Access Control Management

Configure the unlocking mode and the unlocking duration.

Figure 2-11 Access control management



# 2.8.1 Configuring Unlocking Modes

Configure the unlocking combinations. Use card, fingerprint, password, or their combinations to unlock the door. The unlocking methods might differ depending on the models of the Access Standalone.

#### Procedure

<u>Step 1</u> On the main menu, select **Access** > **Unlock Mode**, and then tap **OK**.

<u>Step 2</u> Tap **OK** to configure the unlocking combinations.

- And : You have to verify all the selected unlocking methods to open the door.
- **Or** : You can verify one of the selected unlocking methods to open the door.

#### Figure 2-12 Element (multiple choice)



<u>Step 3</u> Tap **Esc**.

<u>Step 4</u> Tap **OK** to save changes.

## 2.8.2 Configuring the Lock Holding Time

The door will remain unlocked for the defined period for people to pass through.

### Procedure

- <u>Step 1</u> On the main menu, select **Access** > **Lock Holding**.
- <u>Step 2</u> Tap **OK**, and then enter the time.
  - $\square$

Tap P to change the input method.

## 2.9 Unlocking the Door

## 2.9.1 Unlocking by Cards

Swipe your card to unlock the door.

# 2.9.2 Unlocking by Fingerprint

Place your finger on the fingerprint scanner to unlock the door.

## 2.9.3 Unlocking by User Password

Enter the user ID and password to unlock the door. Unlocking procedure might differ depending on the series of the Access Standalone.

### ASI22XXH series

1. On the standby screen, tap  $\land$  and  $\lor$  to select  $\blacksquare$ , and then tap **OK**.

- 2. Select **PWD**, and then tap **OK**.
- 3. Enter the user ID, and then tap **OK**.

You can tap 🕰 to change the input method.

- 4. Select **PWD**, enter the password, and then tap **OK**.
- 5. Select **OK** , and then tap **OK**.

#### ASI22XXJ series

- 1. On the standby screen, tap  $\land$  and  $\lor$  to select  $\blacksquare$ , and then tap **OK**.
- 2. Select **PWD** , and then tap **OK**.
- 3. Enter the user ID, and then tap **OK**.
  - You can tap 🔯 to change the input method.
  - You can tap 🖾 to delete.
- 4. Enter the password, and then tap **OK**.
- 5. Tap **OK**.

### 2.9.4 Unlocking by Administrator Password

#### **Background Information**

After you set your administrator password and enable it, you can unlock the door by simply entering the administrator password. Using administrator password to unlock the door without being subject to user levels, unlock modes, periods, holiday plans, and anti-passback except for normally closed door.

 $\square$ 

To use the administrator password for door access, you need to turn on the function. For details, See "2.7.3 Setting Administrator Password".

#### Procedure

- <u>Step 1</u> Select  $\widehat{\square}$  on the standby screen.
- <u>Step 2</u> Select **Admin PWD**, and then tap **OK**.
- <u>Step 3</u> Enter the administrator password.
- <u>Step 4</u> Select **OK**, and then tap **OK**.

The door is unlocked.

## 2.10 Configuring the System

### 2.10.1 Configuring Time

Configure the time of the Access Standalone, such as date, time, and date format. Procedure

<u>Step 1</u> On the main menu, select **System** > **Time**, and then tap **OK**.

<u>Step 2</u> Select a parameter, and then tap **OK** to edit it.

#### Figure 2-13 Time settings



Table 2-6 Description of time parameters

Parameter	Description
24-hour System	Enable 24-hour format.
Date Setting	Set up the date.
Time	Set up the time.
Date Format	Select a date format.
Time Zone	Select a time zone.

## 2.10.2 Setting the Volume

Adjust the volume of the voice prompt.

### Procedure

- <u>Step 1</u> On the main menu, select **System** > **Volume**, and then tap **OK**.
- <u>Step 2</u> Tap the up arrow or down arrow to adjust the volume.

### 2.10.3 Restoring Factory Defaults

#### Procedure

<u>Step 1</u> On the main menu, select **System** > **Restore Factory**, and then tap **OK**.

<u>Step 2</u> Select an option, and then tap **OK**.

### $\wedge$

Restoring factory defaults might will cause data loss. Please be advised.

- **Default** : Restores factory defaults and deletes all data, including users, device information, and logs.
- **Default (Save user&log)** : Restores factory defaults and deletes all data except user information and logs.

#### Figure 2-14 Restore to default settings



### 2.10.4 Restarting the Device

On the main menu, select **System** > **Reboot**, and then tap **OK** to restart the device.

### 2.11 USB Management

- Make sure that a USB flash drive is inserted to the before exporting user information or updating system. To avoid failure, do not pull out the USB flash drive or perform any operation during the process.
- If you want to import data from one to another, you must export the data to a USB flash drive first.

You can use a USB flash drive to update the Access Standalone, and export or import user information.

## 2.11.1 Exporting to USB

Export data from the Device to a USB flash drive. The exported data is encrypted and cannot be edited.

Procedure

- <u>Step 1</u> On the main menu, select **USB USB Export**, and then tap **OK**.
- <u>Step 2</u> Select the type of data you want to export, and then tap **OK**.

Figure 2-15 Export data to the USB drive



Step 3 Tap OK.

The selected data is exported to the USB flash drive.

# 2.11.2 Importing from USB

You can import data from USB to the Device.

### Procedure

- <u>Step 1</u> On the main menu, select **USB** > **USB Import**, and then tap **OK**.
- <u>Step 2</u> Select the type of data you want to import, and then tap **OK**.

Figure 2-16 Import data from the USB flash drive



<u>Step 3</u> Tap **OK**.

The selected data is imported to the Device.

# 2.11.3 Updating System

You can use a USB flash drive to update the system of the Device.

Procedure

- <u>Step 1</u> Rename the update file to "update.bin", put it in the root directory of the USB flash drive, and then insert the USB flash drive to the Device.
- <u>Step 2</u> On the main menu, select **USB USB Update**.
- Step 3 Tap OK.

The Device will restart when update is complete.

# 2.11.4 Exporting Unlocking Records

Export unlocking records to a USB flash drive.

### Procedure

- <u>Step 1</u> On the main menu, select **USB** > **Export Records**, and then tap **OK**.
- <u>Step 2</u> Select the time.

Figure 2-17 Export unlocking records

Export Records						
Start Date	2021-05-01					
End Date	2021-05-31					
USB	3 Export					

<u>Step 3</u> Select **USB Export** , and then tap **OK**.

The unlocking records are exported to the USB flash drive.

# 2.11.5 Exporting/Importing User Information

You can import or export user information, including cards and fingerprints.

### Procedure

- <u>Step 1</u> On the main menu, select **USB** > **One-click Operation**, and then tap **OK**.
- <u>Step 2</u> Select **Import** or **Export**, and then tap **OK**.
  - Import: Import user information, including cards and fingerprints.
  - **Export**: Export user information, including cards and fingerprints.

#### Figure 2-18 Import/export user information



### 2.12 System Information

On the main menu, select **Info**, and then tap **OK**. You can view data capacity and system information of the Device.

- **Data Capacity**: Displays the number of general users, admin users, cards, fingerprints, unlocking records, and alarm records that have been stored, and the storage capacity.
- **Device Version** : Displays software and hardware information of the Device.

# **3 Web Configurations**

Open the web browser on your computer or phone. Log in to the webpage to configure and update the Device.

# 3.1 Web on Computer

# 3.1.1 Initialization

You need to set a password and link an email address before logging in to the web for the first time. **Procedure** 

<u>Step 1</u> Enter the IP address (192.168.1.108 by default) of the Device in the browser.

 $\square$ 

Make sure the computer is on the same LAN as the Device.



Boot Wizard	
① Device Initialization	Auto Check
Username	admin
New Password	Low Medium High
Confirm Password	Password shall be at least 8 digits, and shall at least include two types, including number, letter and common character
🔲 Bind Email	(It will be used to reset password. Please fill in or complete it timely)
Ctore 2	Next



 $\square$ 

- The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: Upper case, lower case, numbers, and special characters (excluding ' ";: &). Set a high-security password by following the password strength prompt.
- Keep the password properly after initialization and change the password regularly to improve security.
- When you need to reset the administrator password by scanning the QR code, you need the associated email address to receive the security code.

Figure 3-2 Auto check



- Step 5 Click Next.
- Step 6 Click Complete.

## 3.1.2 Logging In

### Procedure

<u>Step 1</u> Enter the IP address (192.168.1.108 by default) of the Access Standalone in the browser, and press the Enter key.

 $\square$ 

Make sure that the computer is on the same LAN as the Access Standalone.

WEB SERVICE	
Username:	
Password:	
	Forget Password?
Login	

Figure 3-3 Login

<u>Step 2</u> Enter the user name and password.

#### 

- The default administrator name is admin, and the password is the one you set during initialization. We recommend you to change the administrator password regularly to increase security.
- If you forgot the administrator password, click **Forget Password?** to reset it. For details, see "3.1.3 Resetting the Password".
- Step 3 Click Login.

### 3.1.3 Resetting the Password

When resetting the password of the admin account, your email address is required.

Procedure

- <u>Step 1</u> On the login page, click **Forgot Password**.
- <u>Step 2</u> Read the prompt carefully and click **OK**.

Figure 3-4 Reset prompt





- A maximum of two security codes will be generated by scanning the same QR code. If security codes become invalid, refresh the QR code and scan again.
  - After you scanned the QR code, send the content that you received to the designated email address, and then you will receive a security code.
  - Use the security code within 24 hours after you receive it. Otherwise, it will become invalid. If wrong security codes are entered for consecutive five times, the administrator will be frozen for five minutes.

Figure 3-5 Reset Password



The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: Upper case, lower case, numbers, and special characters (excluding '";: &). Set a high-security password by following the password strength prompt.

<u>Step 7</u> Click **OK** to complete resetting.

# 3.1.4 Configuring Door Parameter

Configure the access control parameters.

### Procedure

- <u>Step 1</u> Log in to the webpage.
- Step 2 Select Door Parameter.



Door Parame	ter			
Name State	Door1		Duress Alarm Door Sensor	
Opening Method Combination Element (Multiple	Unlock Mode	▼ ▼ ▼	Intrusion Alarm Overtime Alarm Anti-passback Alarm	
Choice) Hold Time (Sec.) Normally Open Time Normally Close Time Timeout (Sec.)		(0.2-600) (0.2-600) (1-9999)		
Open time with remote verification Remote Verification	Disable	Default		

### Table 3-1 Description of door parameters

Parameter	Description		
Name	Enter a name for the door that the Device controls.		
State	Select <b>NC</b> for normally closed, or <b>NO</b> for normally open. If either is selected, the defined opening method will not be effective.		
Opening Method	<ul> <li>Time Section : Set different unlock method for defined periods.</li> <li>Multi-card : The user can unlock the door when multiple users and multiple user groups grant access.</li> <li>Unlock mode : set unlock combinations.</li> </ul>		
Hold Time (Sec.)	Unlock duration. The door will be locked again after the duration. It ranges from 0.2 to 600 seconds.		
Normally Open Time	The door remains open or closed during the defined period.		
Normally Close Time			
Timeout (Sec.)	A timeout alarm will be triggered if the door remains unlocked for longer time than this value.		
Remote Verification	Set the remote verification door opening period. For details, see "3.1.6.1 Configuring Time Sections". When opening a doo is authorized on the device, it needs to be confirmed on the platform before it can be opened.		
Duress Alarm	An alarm will be triggered when a duress card or duress password is used to open the door.		
Door Sensor	Intrusion and overtime alarms can be triggered only after <b>Door Sensor</b> is enabled.		

Parameter	Description			
Intrusion Alarm	<ul> <li>When <b>Door Sensor</b> is enabled, an intrusion alarm will be triggered if the door is opened abnormally.</li> <li>A timeout alarm will be triggered if the door remains unlocked for longer time than the <b>Timeout(Sec)</b>, which ranges from 1 to 9999 seconds.</li> <li>If enabled, users need to verify identities both for entry and exit; otherwise an alarm will be triggered.</li> <li>If a person enters with verification and exits without verification, an alarm will be triggered when they attempt to unlock again, and access is denied at the same time.</li> </ul>			
Overtime Alarm	<ul> <li>A timeout alarm will be triggered if the door remains unlocked for longer time than the <b>Timeout(Sec)</b>, which ranges from 1 to 2999 seconds.</li> <li>If enabled, users need to verify identities both for entry and exit; otherwise an alarm will be triggered.</li> <li>If a person enters with verification and exits without verification, an alarm will be triggered when they attempt</li> </ul>			
	If enabled, users need to verify identities both for entry and exit; otherwise an alarm will be triggered.			
Anti-passback Alarm	<b>3331</b>			

<u>Step 3</u> Configure unlock method.

- Time section
- 1. In the **Opening Method** list, select **Time Section**, and then click

Modify								×
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
	🔽 Enable	Time Section	00:00:00	- 0 23:59:59	Opening Method	Card/Fingerpri	int/Face Recc 💌	
	Enable	Time Section	00:00:00	- () 00:00:00	Opening Method	Card/Fingerpri	nt/Face Recc 🔻	
	Enable	Time Section	00:00:00	- () 00:00:00	Opening Method	Card/Fingerpri	nt/Face Recc 🔻	
	Enable <sup>·</sup>	Time Section	00:00:00	- (\$ 00:00:00	Opening Method	Card/Fingerpri	int/Face Recc 🔻	
	Apply to	the whole week						
							OK Ca	ncel

- 2. Configure the time and opening method for a time section. You can configure up to four time sections for a single day.
- 3. (Optional) Select **Apply to the whole week** to copy the configuration to the rest of days.
- 4. Click **OK**.
- Multi-card
- 1. Click Add.
- 2. Select an unlocking method in the **Opening Method** list., and enter a number for the valid user.
#### Figure 3-8 Multi-card parameter

Add				e dan ee Stande e	×
Opening Method User List	Card	• • • • • • • • • • • • • • • • • • •	Valid User	1	
1. Add User			2.		
				ок	Cancel

- 3. In the **User List** area, enter user ID. For details, see "2.7.1 Adding New User".
  - VIP, patrol, and blocklist users cannot be added.
  - All the users in different groups must all verify their identities in the group order to unlock the door.
- Unlock mode
- 1. In the Combination list, select Or or And.
  - And means you must use all the selected methods to open the door.
  - **Or** means you can open the door with any of the selected methods.
- 2. In the **Element** list, select the unlock method.
- <u>Step 4</u> Configure other parameters.
- Step 5 Click OK.

## 3.1.5 Alarm Linkage

### 3.1.5.1 Setting Alarm Linkages

Alarm input devices can be connected to the Device, and you can modify the alarm linkage parameters.

#### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Alarm Linkage** > **Alarm Linkage**.

Figure 3-9 Alarm linkage

Alarm Linkage				
Refresh				
Alarm Input	Name	Alarm Input Type	Alarm Output Channel	Modify
	Zone1	NO		1
2	Zone2	NO	1	1

<u>Step 3</u> Click do configure alarm linkage.

5.4 PC				~	
Modify				×	
Alarm Input	1				
Name	Zone1				
Alarm Input Type	NO	•			
Fire Link Enable					
Alarm Output Enable					
Duration (Sec.)	30		(1~300)		
Alarm Output Channel	<b>V</b> 1				
Access Link Enable					
Channel Type	NO	•			
			ОК	Cancel	
Fire Link Enable Alarm Output Enable Duration (Sec.) Alarm Output Channel Access Link Enable	30 ✓ 1			Cancel	

Figure 3-10 Modify linkage parameters

### Table 3-2 Description of alarm linkage parameters

Parameter	Description
Alarm Input	You cannot modify the value. Keep it default.
Name	Enter a zone name.
	Select the type according to the alarm device.
Alarm Input Type	<ul> <li>NO : The circuit of the alarm device is normally open, and it closes when an alarm is triggered.</li> <li>NC : The circuit of the alarm device is normally closed, and it opens when an alarm is triggered.</li> </ul>
Fire Link Enable	If fire linkage is enabled, the device will generate fire alarms when being triggered. The alarm messages are displayed in the alarm log.
	If fire link is enabled, alarm output and access linkage are NO by default.
Alarm Output Enable	If alarm output is enabled, the relay can generate alarm messages.

Parameter	Description
Duration (Sec.)	Alarm duration. It ranges from 1 s through 300 s.
Alarm Output Channel	The Device has only one output channel. Select the output channel according to your alarm device.
Access Link Enable	If access linkage is enabled, the Device will be normally on or normally closed when there are input alarm signals.
Channel Type	There are two options: NO and NC.

<u>Step 4</u> Click **OK** to save changes.

 $\square$ 

The configurations on the web will be synchronized with the software client if the Device is added to the client.

### 3.1.5.2 Viewing Alarm Logs

### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Alarm Linkage > Alarm Log.
- <u>Step 3</u> Select a time range and alarm type, and then click **Query**.

Figure 3-11 Query results

	Alarm Log		
	Time Range Type	○ 2018-12-03 00:00:00         2018-12-04 00:00:           All         ▼         Query	00 Find <b>1</b> Log Time <b>2018-12-03 00:00:00 2018-12-04 00:00:00</b>
	No.	Event Code	Time
	1	ChassisIntruded Alarm	2018-12-03 12:03:54
L			⊮ ∢ 1/1 ⊳ ⊮ Go to ÷

# 3.1.6 Time Sections

Configure time sections and holiday plans, and then you can define when a user has the permissions to unlock doors.

### **3.1.6.1 Configuring Time Sections**

You can configure up to 128 groups (from No.0 through No.127) of time section. In each group, you need to configure door access schedules for a whole week. A user can only unlock the door during the scheduled time.

#### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Time Section** > **Time Section**.
- Step 3 Click Add.



Add				×
No.	0	Time Section Name		
Period Config				
Sunday	Monday	Tuesday Wednesday	Thursday Friday	Saturday
🗹 Enable	Time Section:	00:00:00	- © 23:59:59	
Enable	Time Section:	© 00:00:00	- (\$ 00:00:00	
Enable	Time Section:	00:00:00	- 🕓 00:00:00	
Enable	Time Section:	00:00:00	- (0:00:00)	
Apply	to the whole week	c		
			C	OK Cancel

<u>Step 4</u> Enter No. and name for the time section.

- **No.** : Enter a section number It ranges from 0 through 127.
- **Time Section Name** : Enter a name for each time section. You can enter a maximum of 32 characters (contain number, special characters and English characters).
- <u>Step 5</u> Configure time sections for each day.
- <u>Step 6</u> You can configure up to four time sections for a single day.
- <u>Step 7</u> (Optional) Click **Apply to the whole week** to copy the configuration to the rest of days.
- Step 8 Click **OK** to save the changes.

### 3.1.6.2 Configuring Holiday Groups

Set time sections for different holiday groups. You can configure up to 128 holiday groups (from No.0 through No.127). and up to 16 time sections for a single holiday group. Users can unlock doors in the defined time sections.

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Time Section** > **Holiday Group** > **Config**.
- Step 3 Click Add.

- <u>Step 4</u> Enter a number and a name for the holiday group.
  - **No.**: Enter a section number. It ranges from 0 through 127.
  - **Time Section Name** : Enter a name for each time section. You can enter a maximum of 32 characters (contain numbers, special characters and English characters).
- Step 5 Click Add.
- <u>Step 6</u> Enter a name in the **Time Section Name** box, select the start date and end date, and then click **OK**.

 $\square$ 

You can add multiple holidays for one holiday group.

Figure 3-13 Add a holiday

Add								×
Time Section Name								
Time Section		2021-04-30		2021-05-01				
Haliklay Group Na	ne · · ·	Starting	i Time T	· · Ending 1	Oł	(	Cancel	



### 3.1.6.3 Configuring Holiday Plans

Assign the configured holiday groups to the holiday plan. Users can only unlock the door in the defined time in the holiday plan.

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Time Section** > **Holiday Plan** > **Config**.
- Step 3 Click Add.



Add				×
No.	0	Time Section Na	ime	
Holiday Group N	o. Select	▼		
Holiday Period				
🛃 Enab	le Time Section:	© 00:00:00	- 🕓 23:59:59	
Enab	le Time Section:	00:00:00	- () 00:00:00	
Enab	le Time Section:	00:00:00	- () 00:00:00	
Enab	le Time Section:	© 00:00:00	- (3) 00:00:00	
				OK Cancel
Step 4 Enter a	number and name	e for the holiday plan.		
• Tim 32 (	e Section Name : characters (contain	numbers, special cha	0 through 127. I time section. You can racters and English cha ay group that you have	aracters).

Select **255** if you do not want to select a holiday group.

- <u>Step 6</u> In the **Holiday Period** area, configure time sections in the holiday group. You can configure up to four time sections.
- Step 7 Click OK.

## 3.1.7 Data Capacity

View data capacity such as users, cards, and fingerprints that the Device can store.

Procedure

- <u>Step 1</u> Log in to the webpage.
- Step 2 Select **Data Capacity**.

## 3.1.8 Setting Volume

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Click **Volume Setting**, and adjust the volume.
- Step 3 Click OK.

# **3.1.9 Configuring Network**

### 3.1.9.1 Configuring TCP/IP

You need to configure IP address and DNS server so that the Device can communicate with other devices.

#### Prerequisites

Make sure that the Device is connected to the network.

#### Procedure

<u>Step 1</u> Log in to the webpage.

<u>Step 2</u> Select Network Setting > TCP/IP.

### **3.1.9.2 Configuring Port**

You can limit access to the Access Standalone at the same time through the webpage, desktop client and more.

#### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Network Setting** > **Port**.
- <u>Step 3</u> Configure the port number.

 $\square$ 

Except **Max Connection** and **RTSP Port**, you need to restart the Access Standalone to make the configurations effective after you change other parameters.

Parameter	Description
Max Connection	You can set the maximum number of clients (such as the webpage, desktop client) that can access the Access Standalone at the same time.
TCP Port	Default value is 37777.
HTTP Port	Default value is 80. If you want to change the port number, add the new port number after the IP address when you log in to the webpage.
HTTPS Port	Default value is 443.
RTSP Port	Default value is 554.

<u>Step 4</u> Click **OK** to complete the setting.

### 3.1.9.3 Configuring Automatic Registration

The Access Standalone reports its address to the designated server so that you can get access to the Access Standalone through the management platform.

### Procedure

<u>Step 1</u> Log in to the webpage.

<u>Step 2</u> Select **Network Setting** > **Auto Register**.

<u>Step 3</u> Select **Enable**, and enter host IP, port, and sub device ID.

Table 3-4 Auto	register description	
Table 5-4 Auto	register description	

Parameter	Description	
Host IP	The IP address or the domain name of the server.	
Port The port of the server used for automatic registration.		
	Enter the sub-device ID (user defined).	
Sub-Device ID	When you add the Access Standalone to the management platform, the sub-device ID on the management platform must conform to the defined sub-device ID on the Access Standalone.	

Step 4 Click **OK**.

### 3.1.9.4 Configuring P2P

Peer-to-peer computing or networking is a distributed application architecture that partitions tasks or workloads between peers. Users can download mobile application by scanning QR code, and then register an account. You can manage multiple devices on the mobile application. Dynamic domain name, port mapping, and transit server are not required.

#### Procedure

<u>Step 1</u> Log in to the webpage.

<u>Step 2</u> Select **Network Setting** > **P2P**.



P	2P	
	Enable	
	State	Offline
	S.N.	5G080D4YAZ62874
		To assist you in remotely managing your device, we need to collect device info such as IP address, device name, device SN, etc. All collected info is used only for the pruposes of remote access. If you do not agree to enable the function above, please cancel the tick.
		OK Refresh
	lf you want to u function cannot	se P2P, you must connect the Device to the Internet; otherwise this work properly.
<u>Step 3</u> Step 4	Select <b>Enable</b> t Click <b>OK</b> .	o enable the P2P function.
	Scan the QR coo	de on your webpage to get the serial number of the Device.

# 3.1.10 Setting Date

- <u>Step 1</u> Log in to the webpage.
- Step 2 Click Date Setting.

Date Setting								
Time Zone	GMT+08:00	▼						
System Time	2021-05-27		16 :	42 :	20	Sync v	vith PC	
DST	🔵 Enable 💿 Close							
Date Setting	Date Week							
Starting Time	January	▼	1		•	00	: 00	
Ending Time	January	▼	2		•	00	: 00	
NTP Setting								
Server	r ng							
Port	128							
Update Cycle	10	N	/lin.					
	OK Refre	sh	Defa	ault				

Figure 3-16 Date setting

Table 3-5 Data setting description

Parameter	Description
Time Zone	Configure the time zone.
System Time	Configure system time. Click <b>Sync with PC</b> , and the system time changes to the PC time.
DST	<ol> <li>(Optional) Enable DST.</li> <li>Select <b>Date</b> or <b>Week</b> in <b>Sate Setting</b>.</li> <li>Configure start time and end time.</li> </ol>
	<ol> <li>Select the NTP Setting checkbox.</li> <li>Configure parameters.</li> </ol>
NTP Setting	<ul> <li>Server : Enter the domain of a NTP server, and the Device will automatically sync time with NTP server.</li> <li>Port : Enter the port of the NTP server.</li> <li>Update Cycle : Enter time synchronization interval.</li> </ul>

Step 3 Click **OK**.

# 3.1.11 Safety Management

### **3.1.11.1 Configuring IP Authority**

### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Click Safety Mgmt.IP Authority .



IP Authority	/
Туре	Network Access
Enable	
Default Refresh	Network Access
Delauit Reffesti	Prohibit PING
	Anti Half Connection

<u>Step 3</u> Select a cybersecurity mode in the **Type** list.

- **Network Access** : Set allowlist and blocklist to control access to the Device.
- **Prohibit PING** : Enable **PING prohibited** function, and the Device will not respond to the Ping request.
- Anti Half Connection : Enable Anti Half Connection function, and the Device can still function properly under half connection attack.

### 3.1.11.1.1 Network Access

- <u>Step 1</u> Select **Network Access** in the **Type** list.
- <u>Step 2</u> Select the **Enable** checkbox.

IP Author	rity				_
Туре	Network Access				
Enable					
Mode	Allow List     Block List				
Allow List	Block List				
	IP Address	MAC Address	Port	Modify	Delete
		No data			
		NO dala			
Add					
<u> </u>					
Default Ref	resh OK				

Figure 3-18 Network access

Step 3 Select Allow List or Block List.

Step 4 Click Add.

Add	Network Acce	ss		×
Туре	IP Address	Block List 🚽		
IP Version	IPv4	•		
IPv4	1.0.0.1			
All Ports				
Device Start Port	1			
Device End Port	1			
		Save	Cancel	

Figure 3-19 Add IP

<u>Step 5</u> Configure parameters.

#### Table 3-6 Description of adding IP parameters

Parameter	Description
Туре	Select the address type in the <b>Type</b> list.
IP Version	IPv4 by default.
All Ports	Select <b>All Ports</b> checkbox, and your settings will apply to all ports.
Device Start Port	If you clear <b>All Ports</b> checkbox, set the device start port and device
Device End Port	end port.

<u>Step 6</u> Click **Save** , and the **IP Authority** window is displayed.

Step 7 Click **OK**.

### **Related Operations**

- Click **Z** to edit the allowlist or blocklist.
- Click to delete the allowlist or blocklist.

#### 3.1.11.1.2 Prohibit PING

### Procedure

<u>Step 1</u> Select **Prohibit PING** in the **Type** list.

<u>Step 2</u> Select the **Enable** checkbox.

IP Authori	ty	
Туре	Prohibit PING	•
Enable		
Default Refre	esh OK	

Figure 3-20 Prohibit PING

Step 3 Click **OK**.

### 3.1.11.1.3 Anti Half Connection

#### Procedure

- <u>Step 1</u> Select the **Anti Half Connection** in the **Type** list.
- <u>Step 2</u> Select the **Enable** checkbox.

Figure 3-21 Network access

IP Authorit	IP Authority			
Туре	Anti Half Connection	▼		
Enable	<			
Default Refre	sh OK			

Step 3 Click OK.

### 3.1.11.2 Configuring System

### 3.1.11.2.1 System Service

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select Safety Mgmt. > System Service.
- <u>Step 3</u> Enable or disable the system services.

System Service	
SSH	
🗹 PWD Reset Enable	
CGI	
☑ ONVIF	
HTTPS	
Compatible with TLSv1.1 and earlier versions	
Emergency Maintenance	
Auth Method  Security Mode (Recommended)  Compatible Mode	
Create Server Certificate Download Root Certificate	
Details Delete	
OK Refresh Default	

Figure 3-22 System service

Table 3-7 Description of system service

Parameter	Description	
SSH	Secure Shell (SSH) is a cryptographic network protocol for operating network services securely over an unsecured network. When SSH is enabled, SSH provides cryptographic service for the data transmission.	
PWD Reset Enable	If enabled, you can reset the password. This function is enabled by default.	
CGI	Common Gateway Interface (CGI) offers a standard protocol for web servers to execute programs similarly to console applications running on a server that dynamically generates webpages.	
	When CGI is enabled, CGI commands can be used. The CGI is enabled by default.	
ONVIF Enable other devices to pull video stream of the VTO thro ONVIF protocol.		

Parameter	Description
нттрѕ	Hypertext Transfer Protocol Secure (HTTPS) is a protocol for secure communication over a computer network. When HTTPS is enabled, HTTPS will be used to access CGI
	commands; otherwise HTTP will be used.
Compatible with TLSv1.1 and earlier versions	Enable this function if your browser is using TLS V1.1 or earlier versions.
Emergency Maintenance	Enable it for faults analysis and maintenance.
Auth Method	<ul> <li>Security Mode (recommended) : Supports logging in with Digest authentication.</li> <li>Compatible Mode : Compatible with the login method of old devices.</li> </ul>

### 3.1.11.2.2 Creating Server Certificate

### Procedure

### <u>Step 1</u> On the **System Service** page, click **Create Server Certificate**.

<u>Step 2</u> Enter information and click **OK**, and then the Device will restart.

Figure 3-23 Create server certificate

Create Server Certific	cate		×
Region	хх		
Province	хх		
Location	xx		
Oragnization	xx		
Oragnization Unit	хх		
IP or Domain Name			
		ОК	Cancel

### 3.1.11.2.3 Downloading Root Certificate

### Procedure

- <u>Step 1</u> On the **System Service** page, click **Download Root Certificate**.
- <u>Step 2</u> Double-click the file that you have downloaded, and then click **Open**.

Figure 3-24 File download

Open File	Open File - Security Warning						
Do you	want to open	this file?					
		Unknown Publisher Security Certificate Open Cancel					
🗹 Alwa	ys ask before o	opening this file					
۲	harm your c	om the Internet can be useful, this file type can potentially omputer. If you do not trust the source, do not open this nat's the risk?	,				

Step 3 Click Install Certificate.

### Figure 3-25 Certificate information

<u> C</u> erti	ficate		×
General	Details C	ertification Path	
8	Certific	ate Information	_
inst		ertificate is not trusted. To enable trust, tificate in the Trusted Root Certification ore.	
	Issued to	: 192.168.1.108	_
	Issued by	<b>:</b> 192.168.1.108	
	Valid from	n 3/7/2017 to 3/6/2027	
		Install Certificate Issuer Statemer	nt
		O	(

<u>Step 4</u> Select **Current User** or **Local Machine**, and then click **Next**.

÷	Certificate Import Wizard	×
	Welcome to the Certificate Import Wizard	
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
	Store Location	
	Current User	
	O Local Machine	
	To continue, click Next.	
	Next Cance	I

- **Current User** : Applies to the user that has logged in to the PC.
- Local Machine : Applies to all users that have logged in to the PC.

<u>Step 5</u> Select the appropriate storage location.

1. Select Place all certificates in the following store.

Cer	tificate Store				
	Certificate stores	are system area	as where certifica	tes are kept.	
	Windows can auto the certificate.	matically select	a certificate stor	e, or you can spe	cify a location for
	Automatical	ly select the cer	tificate store bas	ed on the type o	fcertificate
	O Place all cer	tificates in the f	ollowing store		
	Certificate	store:			
					Browse

2. Click **Browse** to import the certificate to the **Trusted Root Certification Authorities** store, and then click **Next**.

Figure 3-28 Certificate store

Certificate Store				
Certificate st	tores are system are	as where certificat	tes are kept.	
Windows can the certificat		t a certificate store	e, or you can specify	a location fo
Autom	natically select the ce	rtificate store bas	ed on the type of cer	tificate
O Place a	all certificates in the	following store		
Certifi	icate store:			
				Browse

Step 6 Click **Finish**.

## 3.1.12 User Management

You can add and delete users, change user passwords, and link your email address for resetting the password when you forget password.

 $\square$ 

User refers to the user who logs in to the webpage.

### 3.1.12.1 Adding Users

You can add new users and then they can log in to the webpage of the Access Standalone. **Procedure** 

Step 1 Log in to the webpage.

<u>Step 2</u> Select **User Mgmt.** > **User Mgmt**.

Step 3 Click Add.

Figure 3-29 Add user

Add	ime			Remark	×
admi					
Username					
Password					
	Low	Medium	High		
Confirm Password					
Comment Password					
Remark					
				OK	Cancel

Step 4Enter username, password, confirm password, and remark.Step 5Click **OK**.

### 3.1.12.2 Adding ONVIF Users

### **Background Information**

Open Network Video Interface Forum (ONVIF), a global and open industry forum that is established for the development of a global open standard for the interface of physical IP-based security products, which allows the compatibility from different manufactures. ONVIF users have their identities verified through ONVIF protocol. The default ONVIF user is admin.

- <u>Step 1</u> On the home page, select **User Mgmt.** > **Onvif User**.
- <u>Step 2</u> Click **Add** and then configure parameters.

Add	1e			Group	×
Username					
Password					
rassword					
	Low	Medium	High		
Confirm Password					
Group			▼		
				ОК	Cancel

Figure 3-30 Add ONVIF user

Table 3-8 ONVIF user description

Parameter	Description
Username	The username cannot be the same with existing account. The username consists of up to 31 characters and only allows for numbers, letters, underscores, midlines, dots, or @.
Password	The password must consist of 8 to 32 non-blank characters and contain at least two types of the following characters: Upper case, lower case, numbers, and special characters (excluding ' " ; : &).
	There are three permission groups which represents different permission levels.
Group	<ul> <li>admin: You can view and manage other user accounts on the ONVIF Device Manager.</li> </ul>
	<ul> <li>Operator: You cannot view or manage other user accounts on the ONVIF Device Manager.</li> </ul>
	<ul> <li>User: You cannot view or manage other user accounts and system logs on the ONVIF Device Manager.</li> </ul>



## 3.1.13 Maintenance

You can regularly restart the Device during idle time to improve its performance.

Procedure

- <u>Step 1</u> Log in to the webpage.
- Step 2 Select Maintenance.



Maint	enance						
Auto	Reboot	Tuesday		▼	02:00	▼	
F	Reboot De	vice					
C	ЭK	Refresh					
- 14	-						
Self	Test						
_							
	Test						
<u> </u>	<u> </u>						
<u>Step 3</u>	Set the til	me, and then cl	ick <b>UK</b> .				
	The Devic	ce will restart at	the defined t	the tim	e.		

It is **Never** by default.

<u>Step 4</u> (Optional) Click **Reboot Device**, and the Device will restart immediately.

## 3.1.14 Configuration Management

When more than one device needs the same configurations, you can configure parameters for them by importing or exporting configuration files.

### 3.1.14.1 Exporting Configuration File

You can export the configuration file of the Device for backup.

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Config Mgmt** > **Config Mgmt**.

Co	nfig Mgmt.					
Import co	nfiguration file				Browse	Import configuration
Export	configuration					
	User	▼	USB Import			
	User	▼	USB Export	l		

#### Figure 3-32 Configuration management

- <u>Step 3</u> Click **Export configuration** to save the configuration file locally.

IP information of the Device will not be exported.

### 3.1.14.2 Importing Configuration File

You can export the configuration file from the Device to another one with the same device model. **Procedure** 

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Config Mgmt** > **Config Mgmt**.
- Step 3Click Browse to select the configuration file, and then click Import configuration.The Device will restart after importing configuration file.

### 3.1.14.3 Setting Features

### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Config Mgmt** > **Config Mgmt**.
- <u>Step 3</u> In the **Features** area, set the features.

Figure 3-33 Features

Features	
Card No. Reverse	Enable 💿 Close
Security Module	Enable OClose
Door Sensor Type	
Baud Rate	9600 115200
I	OK Refresh Default

Parameter	Description
Card No. Reverse	Enable <b>Card No. Reverse</b> function, if you set Wiegand output and connect an external device, but the order of the received card number is in consistent with that of the actual number.
Security Module	If <b>Security Module</b> is enabled, door exit button, lock and fire linkage are invalid.
Door Sensor Type	Set door sensor type: • NC : Normally closed. • NO : Normally open.
Baud Rate	Select baud rate according to the external device.

Step 4 Click **OK**.

### 3.1.14.4 Setting Fingerprint

You can set the fingerprint identity level to adjust recognition accuracy rate.

### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **Config Mgmt** > **Config Mgmt**.
- <u>Step 3</u> In the **Fingerprint** area, set the identity level.

The higher identity level means higher recognition accuracy and higher recognition threshold.

Figure 3-34	Fingerprint	identity level

Fingerprint				
Identify Level	3		(1-10)	
	ОК	Refresh	Default	



### 3.1.14.5 Restoring Factory Defaults

<u>Step 1</u>	Log in to the webpage.
<u>Step 2</u>	Select Config Mgmt. > Default.

#### Figure 3-35 Default

Default	
Restore Factory	Default(Save user&log)

<u>Step 3</u> Restore factory defaults if necessary.

- **Restore Factory:** Resets configurations of the Access Standalone and deletes all data.
- **Restore Factory (Save user & log)**: Resets configurations of the Access Standalone and deletes all data except for user information and logs.

### **3.1.14.6 Configuring Port Functions**

Some wires can be used for different purposes. Please use wires based on your needs. For details, see the Quick Start Guide of the Access Standalone.

#### Procedure

Interface Config				
Function Interface1	O Alarm Input	ReaderRemove		
Function Alarm Output Interface2		Doorbell		
	OK Refresh	Default		

Figure 3-36 Configure port functions (ASI2221J/ASI2212J-D)

Figure 3-37 Configure port functions (ASI2212J-DPW/ ASI2212J-PW)

Inter	face Config		°¥°
Function Interface1	Alarm Input		Reader Light
Function Alarm Output Interface2			
	OK Refresh	Default	

<sup>&</sup>lt;u>Step 1</u> On the webpage of the Access Standalone, select **Config Mgmt.** > Interface Config.

<u>Step 2</u> Select the function of the port.

Model	Wiring	Description
	Alarm input/ alarm output	<ol> <li>Connects the alarm input device to WG_LED/ALM_IN/ CASE and GND.</li> <li>Connects the alarm output device to ALM_COM/BELL + and ALM_NO/BELL</li> <li>Select Alarm Input from Function Interface1, and then select Alarm Output from Function Interface2.</li> </ol>
ASI2221J/ ASI2212J-D	Reader anti- tampering alarm	<ol> <li>Connect the CASE wire of the card reader to WG_LED/ ALM_IN/CASE.</li> <li>Select ReaderRemove from Function Interface1, and then select any option from Function Interface2.</li> </ol>
	Reader LED	<ol> <li>Connect the LED wire of the card reader to WG_LED/ ALM_IN/CASE.</li> <li>Select Reader Light from Function Interface1, and then select any option from Function Interface2.</li> </ol>
	Doorbell	<ol> <li>Connect the doorbell to ALM_COM/BELL+ and ALM_NO/BELL+.</li> <li>Select any option from Function Interface1, and then select Doorbell from Function Interface2.</li> </ol>
	Alarm input/ alarm output	<ol> <li>Connects the alarm input device to ALARM1/CASE.</li> <li>Connects the alarm output device to ALMRM1_COM/ BELL+ and ALMARM1_NO/BELL</li> <li>Select Alarm Input from Function Interface1, and then select Alarm Output from Function Interface2.</li> </ol>
ASI2212J-DPW/ ASI2212J-PW	Reader anti- tampering alarm	<ol> <li>Connect the CASE wire of the card reader to ALARM1/ CASE.</li> <li>Select ReaderRemove from Function Interface1, and then select any option from Function Interface2.</li> </ol>
	Doorbell	<ol> <li>Connect the doorbell to ALARM1_COM/BELL+ and ALARM1_NO/BELL+.</li> <li>Select any option from Function Interface1, and then select Doorbell from Function Interface2.</li> </ol>

Table 3-10 Ports function descriptions

# 3.1.15 Updating the System

## $\wedge$

- Use the correct update file. Make sure you get the correct update file from the technical support.
- Do not disconnect the power supply or network, or restart or shut down the Access Standalone during the update.

### 3.1.15.1 File Update

### Procedure

- <u>Step 1</u> On the home page, select **Upgrade**.
- <u>Step 2</u> In the **File Upgrade** area, click **Browse**, and then upload the update file.

The upgrade file should be a .bin file.

Step 3 Click Update.

The Access Standalone will restart after update completes.

### 3.1.15.2 Online Update

### Procedure

<u>Step 1</u> On the home page, select **Upgrade**.

<u>Step 2</u> In the **Online Upgrade** area, select an update method.

- Select **Auto Check**, the Access Standalone will automatically check whether the its latest version is available.
- Select **Manual Check**, and you can immediately check whether the latest version is available.
- <u>Step 3</u> Update the Access Standalone when the latest version is available.

## **3.1.16 Version Information**

View information including MAC address, serial number and more.

### Procedure

<u>Step 1</u> Log in to the webpage.

<u>Step 2</u> Select **Version Info** to view version information.

# 3.1.17 Viewing Online Users

You can view online users who log in to webpage, including their username, IP address, and login time.

### Procedure

<u>Step 1</u> Log in to the webpage.

Step 2 Select Online User.

## 3.1.18 Viewing System Logs

View and back up system logs, admin logs, and unlock records.

### 3.1.18.1 System Logs

View and search for system logs.

### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **System Log** > **System Log**.
- <u>Step 3</u> Select the time range and the log type, and then click **Query**.

 $\square$ 

Click **Backup** to download the results.

Figure 3-38 Search for logs

System Lo	og		
Time Range 🕔	2020-06-04 00:00:00 - 2020-06-05 00:00:00		
Type Se		e 2020-06-04 07:58:48 2020-06-04 04:36:20	
No.	Log Time	Username	Log Type
	2020-06-04 04:36:20	admin	Save Config
	2020-06-04 04:36:20	admin	Save Config
	2020-06-04 03:57:37	admin	Save Config
	2020-06-04 03:57:35	admin	Save Config
	2020-06-04 03:57:19	admin	Save Config
	2020-06-04 03:57:18	admin	Restore
	2020-06-04 03:37:41	System	Save Config 🛛 💙
Time:			
Username:			
Type: Content:			
Backup			⊮ ∢ 1/1 ⊳ ⊮ Go to →
Васкир			

### 3.1.18.2 Admin Logs

#### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **System Log** > **Admin Log**.
- <u>Step 3</u> Enter the admin ID, and then click **Query**.

Figure 3-39 Admin log

	Admin Log			
Admin ID	1 Que	ary		
No.		Name	Time	Admin ID
		Edit User Info	2020-05-28 16:32:20	1
				⊮ ∢ 1/1 ⊳ ⊨ Go to 🛛 ⇒

### 3.1.18.3 Unlock Records

### Procedure

- <u>Step 1</u> Log in to the webpage.
- <u>Step 2</u> Select **System Log** > **Search Records**.
- <u>Step 3</u> Select the time range and the log type, and then click **Query**.
- <u>Step 4</u> Click **Export Data** to download the results.

## 3.1.19 Logging Out

Click Click

## 3.2 Web on Phone

### **Background Information**

Make sure the Access Standalone is on the same LAN as your phone. Connect the Access Standalone to your phone hotspot or connect it and your phone to the same router.

Only certain parameters can be configured on the web portal if you log in on a phone.

### Procedure

<u>Step 1</u> Go to the IP address (192.168.1.108 by default) of the Access Standalone in the browser.

<u>Step 2</u> Enter the user name and password.

 $\square$ 

The default administrator name is admin, and the password is the one you set during initialization. We recommend you to change the administrator password regularly to increase security.

Step 3 Click Login.

# **4 Smart PSS Lite Configuration**

This section introduces how to manage and configure the device through Smart PSS Lite. For details, see the user's manual of Smart PSS Lite.

# 4.1 Installing and Logging In

Install and log in to Smart PSS Lite. For details, see the user manual of Smart PSS Lite.

### Procedure

- <u>Step 1</u> Get the software package of the Smart PSS Lite from the technical support, and then install and run the software according to instructions.
- <u>Step 2</u> Initialize Smart PSS Lite when you log in for the first time, including setting password and security questions.

 $\square$ 

Set the password is for the first-time use, and then set security questions to reset your password when you forgot it.

<u>Step 3</u> Enter your username and password to log in to Smart PSS Lite.

## 4.2 Adding Devices

You need to add the device to Smart PSS Lite. You can add them in batches or individually.

## 4.2.1 Adding One By One

You can add device one by one through entering their IP addresses or domain names.

- <u>Step 1</u> Log in to Smart PSS Lite.
- <u>Step 2</u> Click **Device Manager** and click **Add**.
- <u>Step 3</u> Enter the device information.

#### Figure 4-1 Device information

Device Name:	Method to add:
* Access Terminal	IP 💌
IP:	Port:
* 110 10 12413 125	* 37777
User Name:	Password:
* admin	* ••••••
	Add and Continue Add Cancel

Table 4-1 Device parameters Description

Parameter	Description
Device Name	Enter a name of the device. We recommend you name it after its installation area.
Method to add	Select IP to add the device by entering its IP Address.
IP	Enter IP address of the device.
Port	The port number is 37777 by default.
User Name/Password	Enter the username and password of the device.

Step 4 Click Add.

The added device displays on the **Devices** page. You can click **Add and Continue** to add more devices.

## 4.2.2 Adding in Batches

We recommend you use the auto-search function when you add want to devices in batches. Make sure the devices you add must be on the same network segment.

- <u>Step 1</u> Log in to Smart PSS Lite.
- <u>Step 2</u> Click **Device Manager** and search for devices.
  - Click **Auto Search**, to search for devices on the same LAN.
  - Enter the network segment range, and then click **Search**.

O Auto Se	arch Dev	ice Segment:	- 10 0		5 Search
D Modify I	IP 🚯 Initializat	ion		Search De	vice Number: 1
No.	IP 🔺	Device Type	MAC Address	Port	Initialization Status
1	10.04.00.00	DSS V8	2cit0.5d he a7.0c	443	<ul> <li>Initialized</li> </ul>

Figure 4-2 Auto search

A device list will be displayed.

Select a device, and then click **Modify IP** to modify its IP address.

- <u>Step 3</u> Select the device that you want to add to Smart PSS Lite, and then click **Add**.
- <u>Step 4</u> Enter the username and the password of the device.

You can view the added device on the **Devices** page.

```
\square
```

The device automatically logs in to Smart PSS Lite after being added. **Online** is displayed after successful login.

## 4.3 User Management

Add users, assign cards to them, and configure their access permissions.

# 4.3.1 Configuring Card Type

Set the card type before you assign cards to users. For example, if the assigned card is an ID card, set card type to ID card.

Procedure

- Step 1 Log in to Smart PSS Lite.
- <u>Step 2</u> Click Access Solution > Personnel Manager > User.

<u>Step 3</u> On the **Card Issuing Type** and then select a card type.

 $\square$ 

Make sure that the card type is same to the actually assigned card; otherwise, the card number cannot be read.

Step 4 Click **OK**.

# 4.3.2 Adding Users

### 4.3.2.1 Adding One by One

You can add users one by one.

- Procedure
  - Step 1 Log in to Smart PSS Lite.
  - <u>Step 2</u> Click Access Solution > Personnel Manger > User > Add.
  - <u>Step 3</u> Click **Basic Info** tab, and enter the basic information of the user, and then import the face image.

Basic Info	Certification	Perm	nission configuration		
User ID:	*				Next
Name:	*				
Department:	Default Company	•			
User Type:	General	•			
Valid Time:	2022/6/9 0:00:00	.::			
	2032/6/9 23:59:59		3654 Days	Take Snapshot Upload Picture	
Number of use:	Limitless			Image Size:0 ~ 100KB	_
Details					
Candan	Male	ala	ID Type:	ID	•
Title:	Mr	•	ID No.:		
DOB:	1985/3/15	\$	Company:		
Tel:			Occupation:		
Email:			Entry Time:	2022/6/8 20:18:31	.::
Mailing Address:			Resign Time:	2031/6/9 20:18:31	
Administrator:					
<b>D</b>					
Remark:					

#### Figure 4-3 Add basic information

<u>Step 4</u> Click the **Certification** tab to add certification information of the user.

- Configure password: The password must consist of 1–8 digits.
- Configure card: The card number can be read automatically or entered manually. To read the card number automatically, select a card reader, and then place the card on the card reader.
  - 1. On the **Card** area, click and select **Card issuer**, and then click **OK**.
2. Click **Add**, swipe a card on the card reader.

The card number is displayed.

- 3. Click **OK**.
- Configure fingerprint.
  - 1. On the **Fingerprint** area, click and select **Fingerprint Scanner**, and then click **OK**.
  - 2. Click Add Fingerprint, press your finger on the scanner three times in a row.

```
Figure 4-4 Add certifications
```

Add User	×
Basic Info Certification	Permission configuration
Password Add I password.	cess controller, it is the personnel password; otherwise it is card
Card Add U The card number must be adde	ed if not the 2nd generation access controller is used.
Fingerprint	0
🖶 Add 📋 Delete	
Fingerprint Name	Operation
	Continue Finish Cancel

<u>Step 5</u> Configure permissions for the user. For details, see "4.3.3 Assigning Access Permission". <u>Step 6</u> Click **Finish**.

# 4.3.2.2 Adding in Batches

You can add users in batches.

## Procedure

Step 1 Log in to Smart PSS Lite.

## <u>Step 2</u> Click **Personnel Manger** > **User** > **Batch Add**.

<u>Step 3</u> Select **Card issuer** from the **Device** list, and then configure the parameters.

Device Card issuer	· •		Issue
		<b>0</b>	
Start No.:		Quantity:	
* 1		* 30	
Department:			
Default Con	npany 🔻		
Effective Time	5.	Expired Time:	
2022/4/1 0:0	00:00	2032/4/1 23:59:59	
Issue Card		Card No.	
ID		Caru No.	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
		O	Cancel

Figure 4-5 Add users in batches

#### Table 4-2 Add users in batches parameters

Parameter	Description
Start No.	The user ID starts with the number you defined.
Quantity	The number of users you want to add.
Department	Select the department that the user belongs to.

Parameter	Description
Effective Time/Expired Time	The users can unlock the door within the defined period.

Step 4 Click Issue.

The card number will be read automatically.

- Step 5 Click OK.
- <u>Step 6</u> On the **User** page, click  $\square$  to complete user information.

# 4.3.3 Assigning Access Permission

Create a permission group that is a collection of door access permissions, and then associate users with the group so that users can unlock corresponding doors.

# Procedure

- <u>Step 1</u> Log in to the Smart PSS Lite.
- <u>Step 2</u> Click Access Solution > Personnel Manger > Permission configuration.
- <u>Step 3</u> Click +.
- <u>Step 4</u> Enter the group name, remarks (optional), and select a time template.
- <u>Step 5</u> Select the access control device.
- Step 6 Click **OK**.

### Figure 4-6 Create a permission group

Add Access Group	×
Basic Info	
Group Name: Rei Permission Group3	mark:
Time Template: All Day Time Template	2
All Device	Selected (0)
ßearchQ	
▼ 🔲 🚠 Default Group	
▼ □ ■ 1 ■ 3	
🗌 🔳 Door 1	3
	OK Cancel

- <u>Step 7</u> Click <sup>III</sup> of the permission group you added.
- <u>Step 8</u> Select users to associate them with the permission group.

Add Person			>
Permission Group2			
Person list	0	Selected (1)	•
Search.	q	ID	VT Name
<ul> <li>Company(10)</li> <li>A DepartmentA(6)</li> <li>A DepartmentB(3)</li> <li>A 10</li> </ul>		10	10





Users in the permission group can unlock the door after valid identity verification.

# 4.4 Access Management

# 4.4.1 Remotely Opening and Closing Door

You can remotely monitor and control door through Smart PSS Lite. For example, you can remotely open or close the door.

### Procedure

- <u>Step 1</u> Click **Access Solution** > **Access Manager** on the Home page.
- <u>Step 2</u> Remotely control the door.
  - Select the door, right click and select **Open** or **Close**.

Figure 4-8 Open door

Search	Q
🕶 🔳 🚠 Dei	fault Group
▼ 2	17235.058
	Door 1
time and the second	
	Open
	Open Close

• Click <sup>1</sup> or <sup>1</sup> to open or close the door.

### **Related Operations**

- Event filtering: Select the event type in the **Event Info**, and the event list displays the selected event type, such as alarm events and abnormal events.
- Event refresh locking: Click 
   <sup>1</sup> to lock the event list, and then event list will stop refreshing. Click
   <sup>1</sup> to unlock.
- Event deleting: Click 🔟 to clear all events in the event list.

# 4.4.2 Setting Always Open and Always Close

After setting always open or always close, the door remains open or closed all the time.

# Procedure

- <u>Step 1</u> Click **Access Solution** > **Access Manager** on the home page.
- <u>Step 2</u> Click **Always Open** or **Always Close** to open or close the door.

Figure 4-9 Always open or close

Organizations	Always	O Normal
Search Q	Door 1	
▼ 🗹 🖳		

The door will remain open or closed all the time. You can click **Normal** to restore the access control to normal status, and then the door will be open or closed based on the configured verification methods.

# 4.4.3 Monitoring Door Status

# Procedure

- <u>Step 1</u> Click **Access Solution** > **Access Manager** on the home page.
- <u>Step 2</u> Select the device in the device tree, and right click the device and then select **Start Realtime Event Monitoring**.

Real-time access control events will display in the event list.

Click **Stop Monitor**, real-time access control events will not display.

Organizations	<ul> <li>Always Close</li> </ul>	Always Open	ONormal				
Search	Event Monitoring						
L			~	3			
L	Event Info A	All 💌 Alarm	Abnormal 🖉 Normal	3 Event History	Event Configu	ration	61
	Event Info A Time	NI <mark>≤</mark> Alarm Event					c î
			Abnormal 🛛 Normal		IP:	10.01.011.009	
	Time	Event	Abnormal Vormal	Event History	IP: Device Type:	Access Standalone	
	Time 2022-04-08 17:37:36	Event 111/Door 1	Abnormal 📽 Normal Description Door is locked	Event History	IP:	10.01.011.009	

Figure 4-10 Monitor door status

# **Related Operations**

- Show All Door: Displays all doors controlled by the device.
- Reboot: Restart the device.
- Details: View the device details, such as IP address, model, and status.

# Appendix 1 Important Points of Fingerprint Registration Instructions

When you register the fingerprint, pay attention to the following points:

- Make sure that your fingers and the scanner surface are clean and dry.
- Press your finger on the center of the fingerprint scanner.
- Do not put the fingerprint sensor in a place with intense light, high temperature, and high humidity.
- If your fingerprints are unclear, use other unlocking methods.

# **Fingers Recommended**

Forefingers, middle fingers, and ring fingers are recommended. Thumbs and little fingers cannot be put at the recording center easily.

Appendix Figure 1-1 Recommended fingers



# How to Press Your Fingerprint on the Scanner



Appendix Figure 1-2 Correct placement

# **Appendix 2 Security Recommendation**

## Account Management

#### 1. Use complex passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters;
- Include at least two types of characters: upper and lower case letters, numbers and symbols;
- Do not contain the account name or the account name in reverse order;
- Do not use continuous characters, such as 123, abc, etc.;
- Do not use repeating characters, such as 111, aaa, etc.

#### 2. Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

#### 3. Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users.

#### 4. Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

#### 5. Set and update password reset information in a timely manner

The device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.

### Service Configuration

#### 1. Enable HTTPS

It is recommended that you enable HTTPS to access web services through secure channels.

#### 2. Encrypted transmission of audio and video

If your audio and video data contents are very important or sensitive, it is recommended to use encrypted transmission function in order to reduce the risk of your audio and video data being eavesdropped during transmission.

#### 3. Turn off non-essential services and use safe mode

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

If necessary, it is highly recommended to choose safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up complex passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up complex passwords.

#### 4. Change HTTP and other default service ports

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

# Network Configuration

#### 1. Enable Allow list

It is recommended that you turn on the allow list function, and only allow IP in the allow list to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allow list.

#### 2. MAC address binding

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

#### 3. Build a secure network environment

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;
- According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation;
- Stablish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

# Security Auditing

#### 1. Check online users

It is recommended to check online users regularly to identify illegal users.

#### 2. Check device log

By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users.

#### 3. Configure network log

Due to the limited storage capacity of devices, the stored log is limited. If you need to save the log for a long time, it is recommended to enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

# Software Security

#### 1. Update firmware in time

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.

#### 2. Update client software in time

It is recommended to download and use the latest client software.

### **Physical Protection**

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control

and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).