

# User Manual of FDMS

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# 1. Introduction

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## 1.1 Summary

FDMS (Fanvil Device Management System) is a server website used to manage devices deployed in the network. FDMS is deployed at the top of the user's network. Devices in the same network or sub-network receive the unified management of FDMS by registering with FDMS. FDMS has built-in ACS server to perform command management communication with device (CPE) through TR069 protocol. FDMS supports device configuration, troubleshooting, and firmware or configuration file upgrades.

## 1.2 Target Audience

This document is for users who use FDMS management devices.

## 1.3 Terms

Terms	Explanation
ACS	Auto-Configuration Server. This is the component that is responsible for the automatic configuration of customer terminal equipment in the broadband network to achieve advanced services.
CPE	Customer Premise Equipment

## 2. FDMS Login and Start Up

### 2.1 login

Users need to have an account and password assigned by the administrator when using the system for the first time, then log in directly to the FDMS web page address : <http://192.144.136.170/> .Users can go to login page, as shown in Figure 2-1

1)Type the correct username and password and select the appropriate language(Chinese or English)

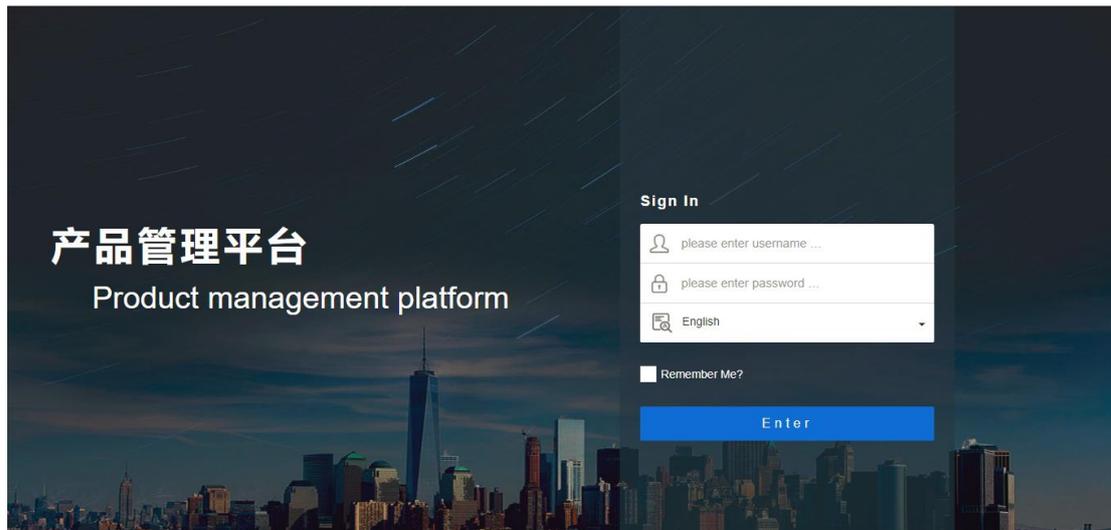


Figure 2-1

2) Click "Enter" to enter FDMS Home, as shown in Figure 2-2

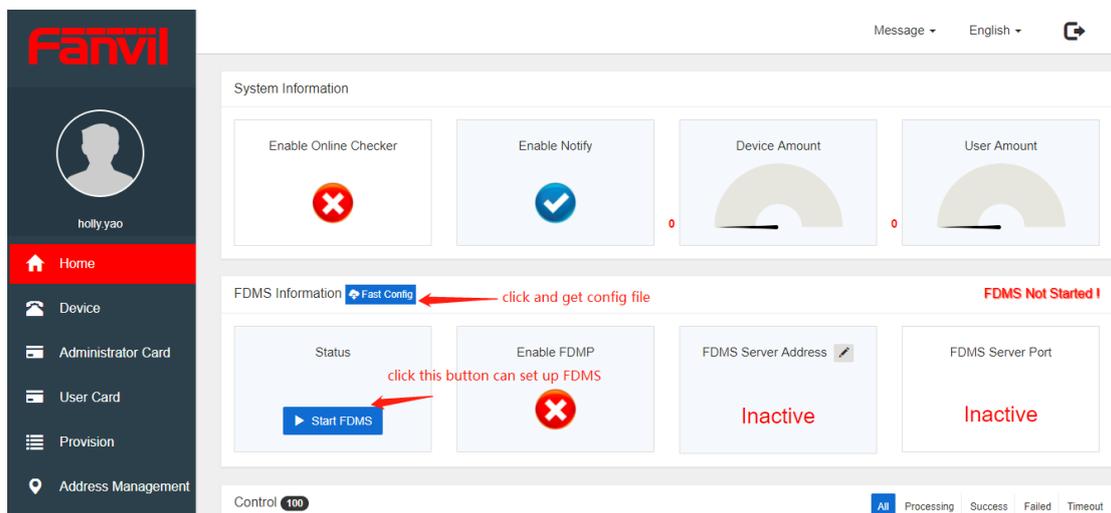


Figure 2-2

## 2.2 Start Up FDMS

In the FDMS-Home-FDMS message, click "Start FDMS" and the interface will show that FDMS started! And FDMS server address and FDMS server port. At this point, the FDMS system started successfully, as shown in Figure 2-3

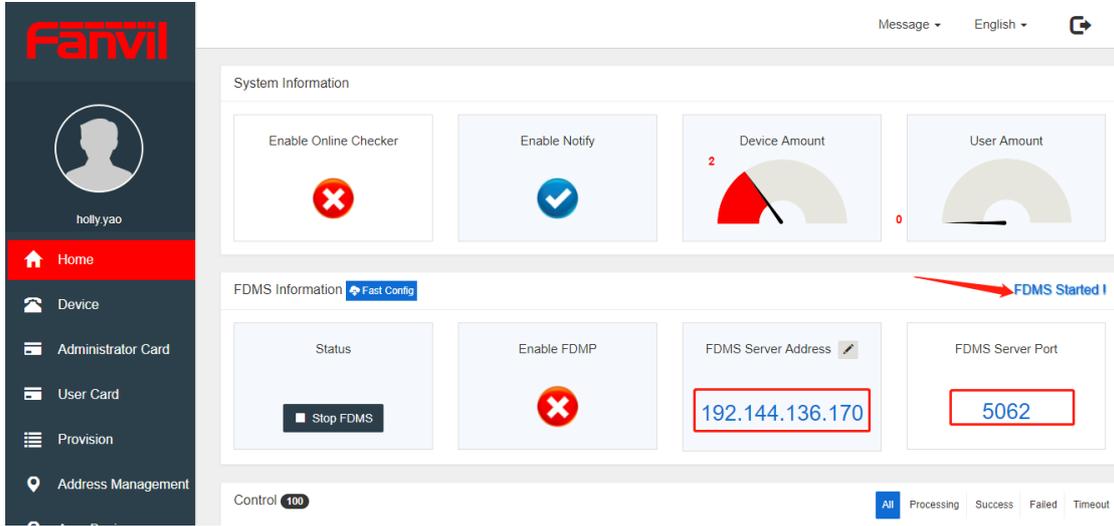


Figure 2-3

### 3. Device Configuration

The precondition for using FDMS to control the device is to configure plug-and-play and TR -069 to the device. This document provides two methods. It is recommended to use the second method.

#### 3.1 Configure Directly On The Device Web Page

Configure the relevant parameters on the device web page, the steps are as follows:

1. Web page for logging in to a device (for example, PA2 device): Configure on the System – Auto Provision
2. Enable Sip PnP, Set the server address to the FDMS server address and the port to the FDMS server port, as shown in Figure 2-3

**Notify:** The address and port of the server filled in here must be the same as the information displayed on the home page of the FDMS system.

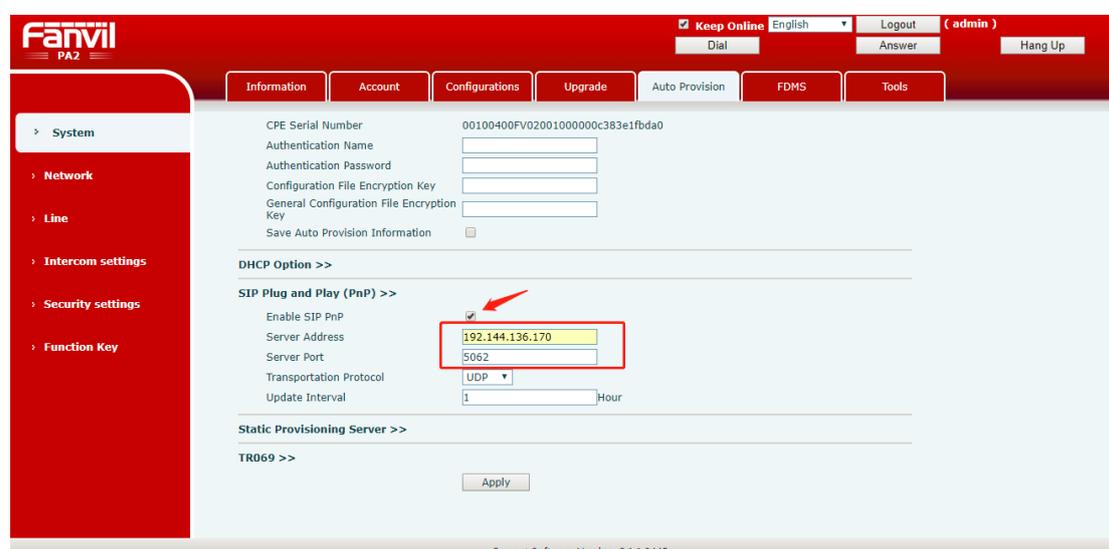


Figure 3-1

3. The related configuration of tr069 is as follows:

Item	Description
Enable TR069	Enable
ACS Server Type	common
ACS Server URL	http://192.144.136.170:80/zh-CN/Acs/Index
ACS User	FDMS login username ( For Example: holly.yao )
ACS Password	FDMS login encryption password
STUN Server Addr	192.144.136.170
STUN Enable	Enable

After completing the information, click "Apply", as shown in Figure 3-2

**Notify:**

1. The encrypted password can be obtained in the quick configuration of the FDMS system home page.
2. Whether stun is enabled depends on the software version of the device. The new software version does not need to be configured with stun.
3. If you fill in the ACS login account and login password, users do not need to configure sip plug and play and connect to the FDMS system.

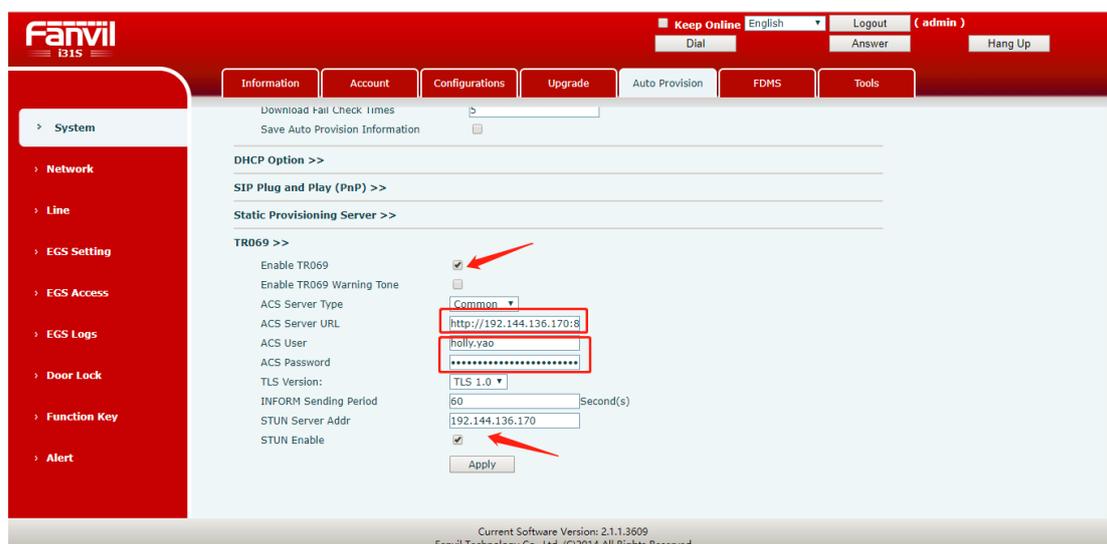


Figure 3-2

## 3.2 Configure By FDMS

After the users login FDMS, click  on the home page FDMS information, users can download the common configuration file under the account. Then only need to import the configuration file on the web side of the device, as shown in Figure 3-3

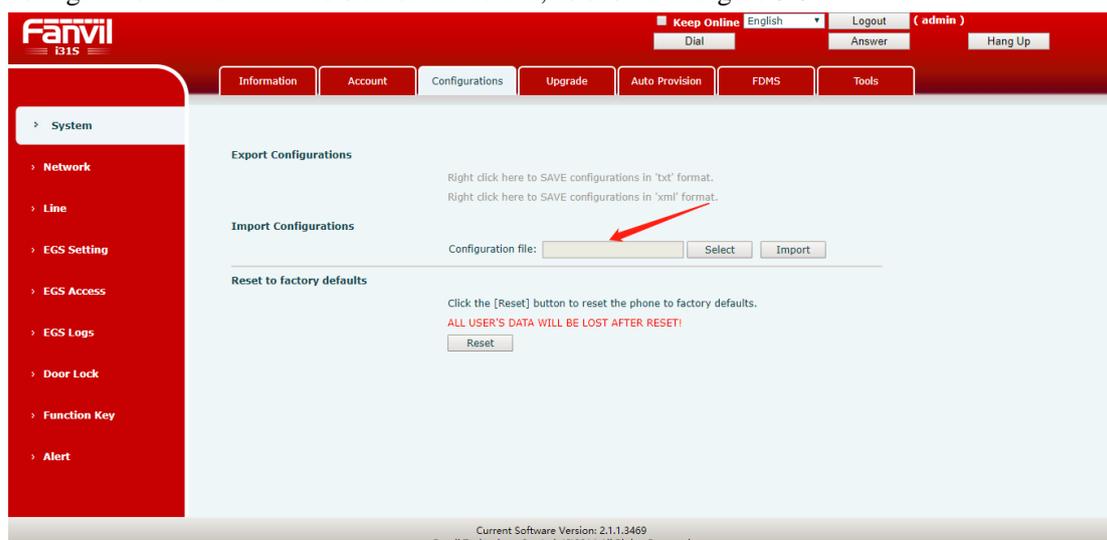


Figure 3-3



## 4 .Using Of FDMS

### 4.1 Device

The main functions of the device module include: displaying the device list, performing corresponding operations on the device, and searching for device, as shown in Figure 4-1

- Device list: display online status, model, name, ip, mac, etc .
- Operating of the device: including search, restart, online check, upgrade, deployment, adding equipment, etc.
- Search: users can quickly search the device that they want to control in the device list

**Notify:** If users want to display more information about the device, they need to check the corresponding information in Settings module of the system

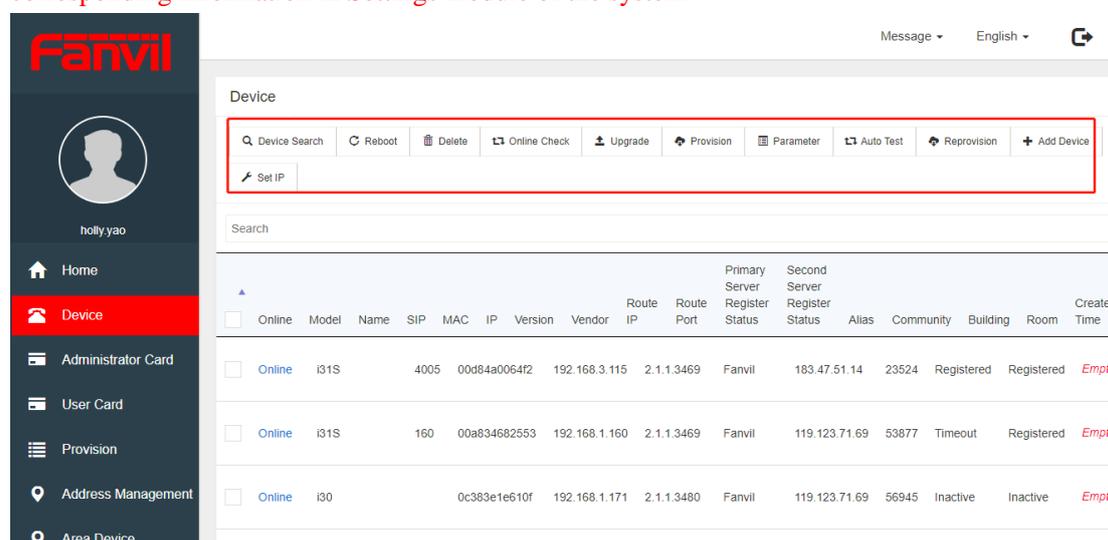


Figure 4-1

#### 4.1.1 Devices Search

Click on "**Devices Search**" to search for devices in the LAN and display them in the device list, as shown in Figure 4-1-1

**Notify:** This function only support servers and devices in the same LAN

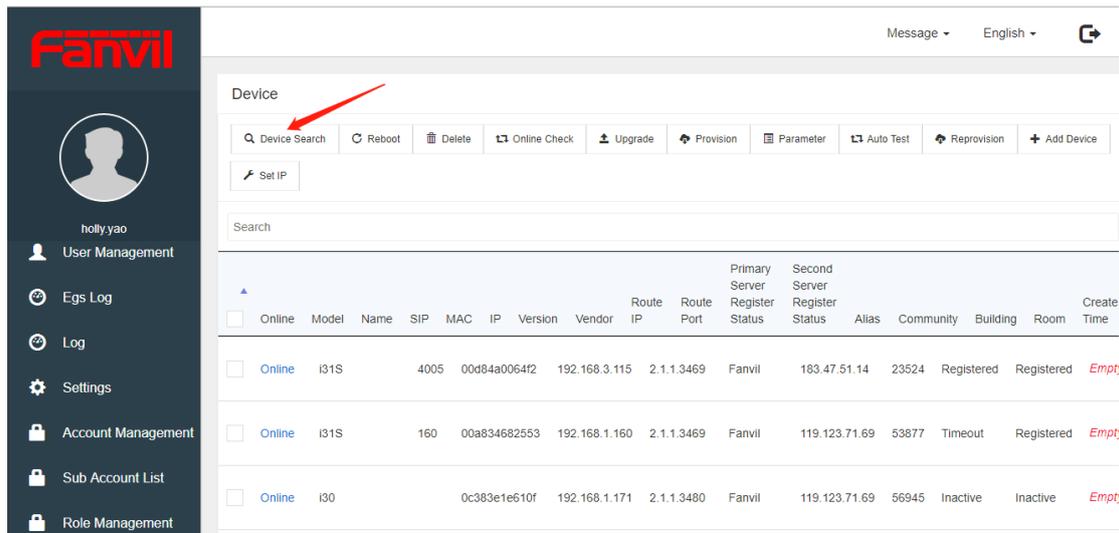


Figure 4-1-1

### 4.1.2 Reboot

Select a device or multiple devices, click the "Reboot" button, the page will pop up "operation is successful", the corresponding device will also reboot, as shown in Figure 4-1-2

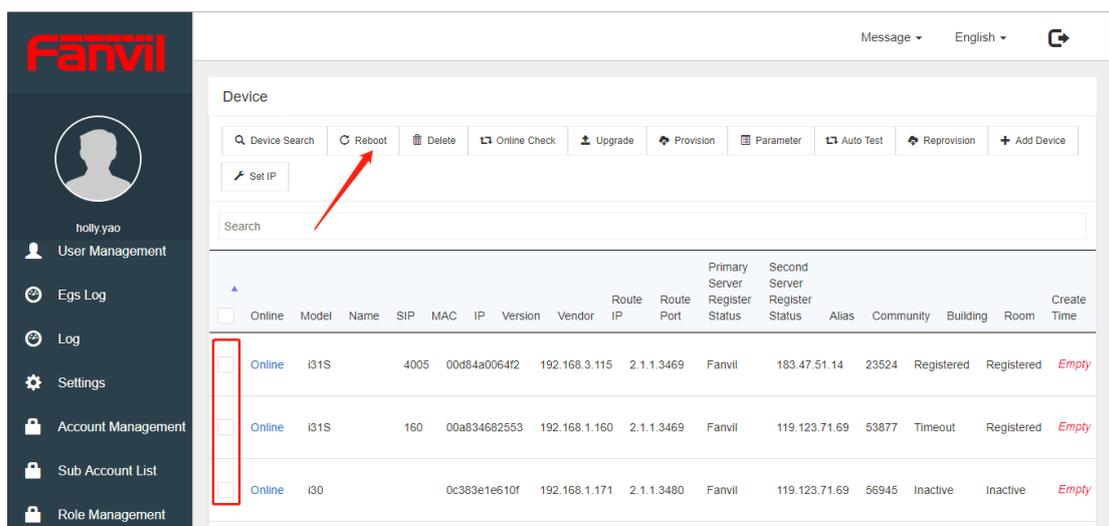


Figure 4-1-2

### 4.1.3 Delete

Delete can delete single or multiple devices.

Select the device to be deleted, click the "Delete" button, the corresponding device will be removed from the device list, as shown in Figure 4-1-3

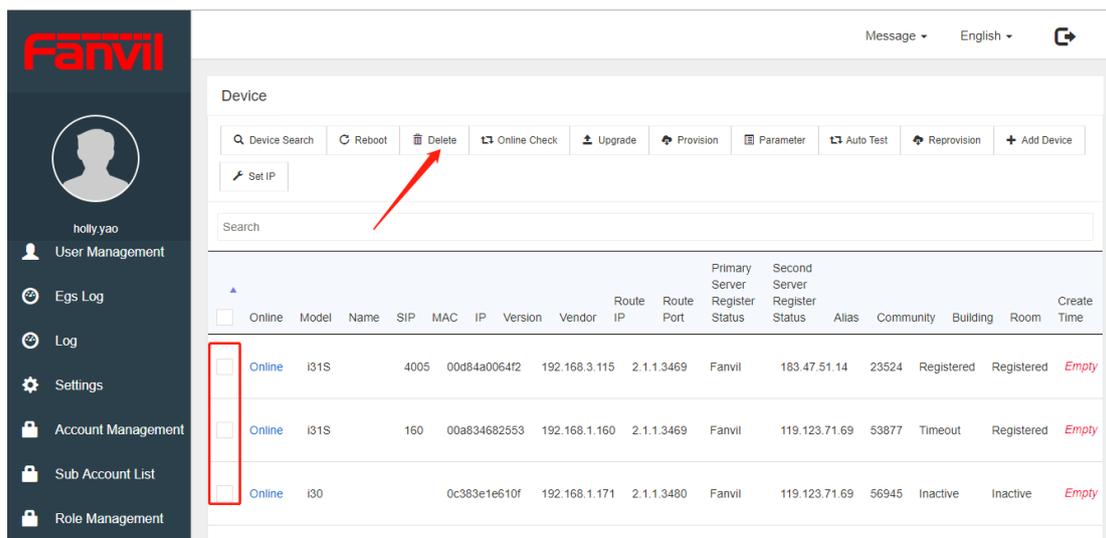


Figure 4-1-3

### 4.1.4 Online Check

Select the device and click "Check Online". If the server detects that the device is online, users need to refresh the page and the status will become online, as shown in Figure 4-1-4

**Notify:** If the device connection is abnormal for about one minute, the device can be detected offline. After the device is connected properly, FDMS can detect the device online.

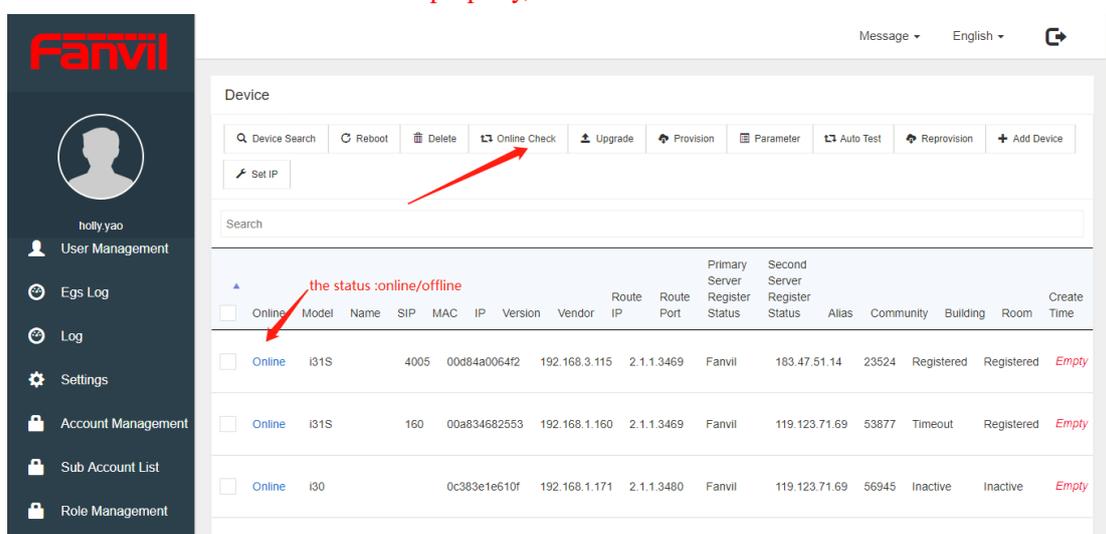


Figure 4-1-4

### 4.1.5 Upgrade

FDMS provides two ways to upgrade the software / configuration /certificate. The way one is recommended.

Method 1: Select the device, click “Upgrade”, in the pop-up upgrade page, directly select the file to be upgraded, click the “Upgrade” button, as shown in Figure: 4-1-5-1

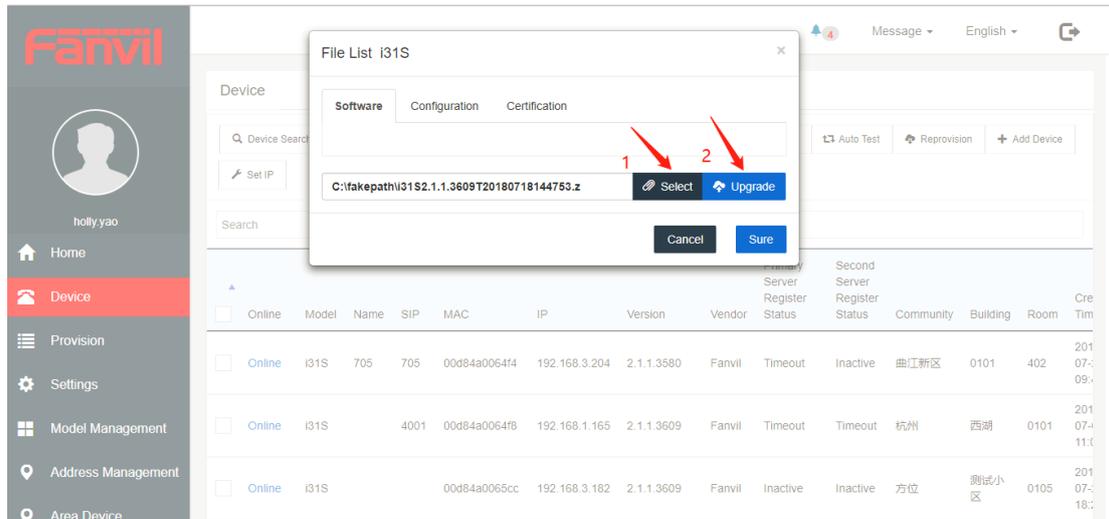


Figure4-1-5-1

Method 2: Need to complete the upgrade in two steps

1. In the "Settings" page, click on the device model in the file management, such as "i30", select the software/configuration/certificate file to be upgraded, and click the "Upload" button, as shown in Figure 4-1-5-2

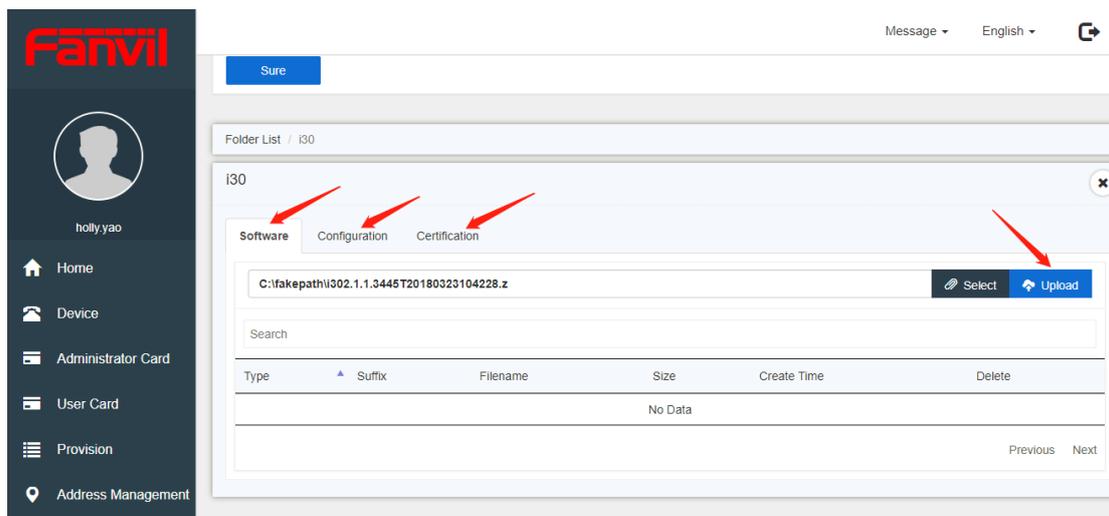


Figure 4-1-5-2

Notify: Uploaded file support format

File Type	Upload Format
software	.z,.bin
configuration	.txt, .xml
certificate	.crt, .key, .ovpn, .pem

2. Select the device in the device module, click "**Upgrade**", enter the upgrade file list interface, select the software/configuration /certificate file to be upgraded, as shown in Figure 4-1-5-3

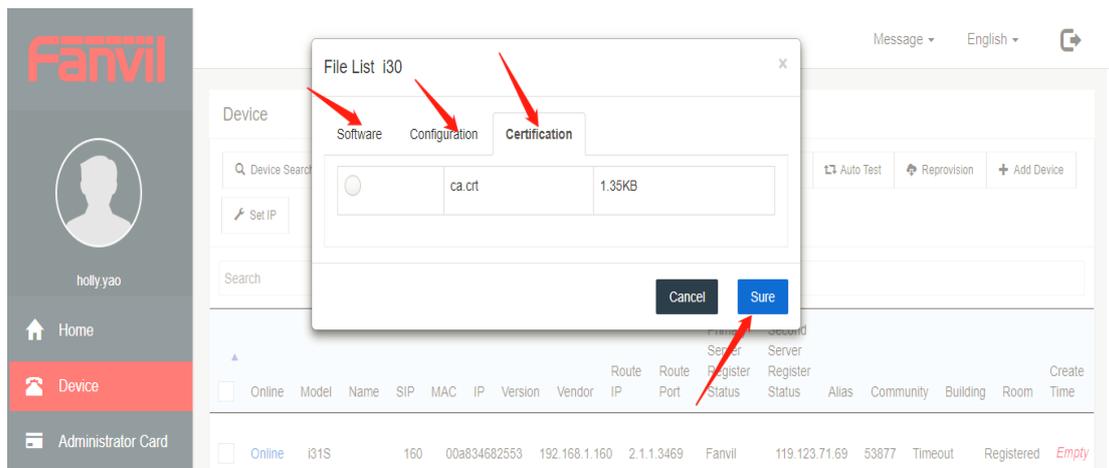


Figure 4-1-5-3

3. After clicking the "**Sure**" button, the corresponding device will upgrade the software/configuration/certificate file. After the upgrade is complete, the device will automatically restart.

**Notify:** Upgrade certificate, the device will not restart

#### 4.1.6 Provision

Select the device and click the "**Provision**" button to set/modify the sip/TR-069/network and click the "**Sure**" button, as shown in Figure 4-1-6.

**Notify:** When the device registers to FDMS for the first time, the FDMS obtains the corresponding value of the configuration item from the device. During the configuration of the device, FDMS records the previous configuration as the initial value of the next configuration. Modifying device configuration item values by other means does not automatically synchronize updates to FDMS.

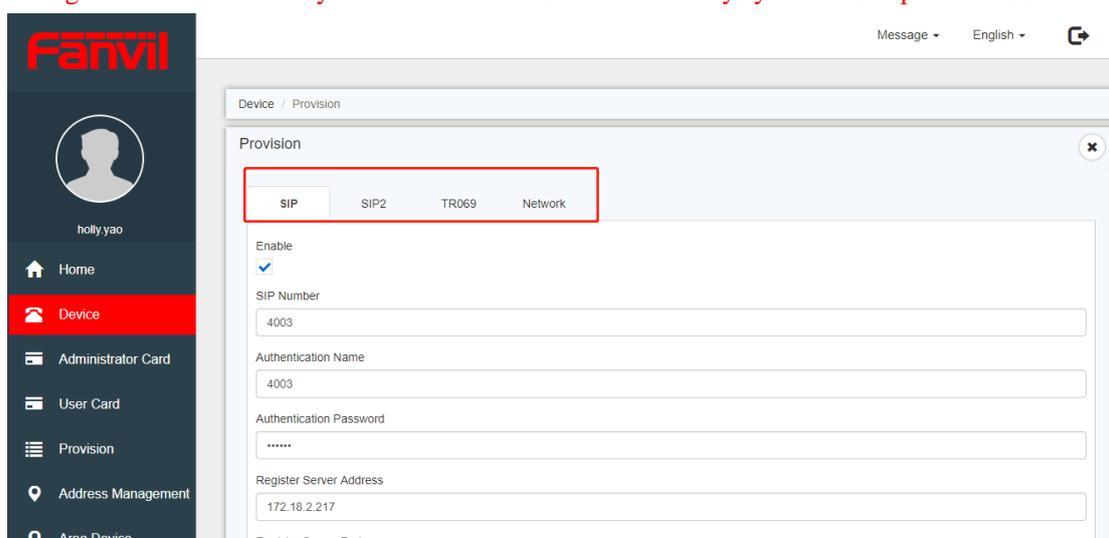


Figure 4-1-6

### 4.1.7 Parameter

Single parameter setting and getting of selected devices, as shown in Figure 4-1-7

- Set: Set parameter name, type, value, select “Set” and click “Set”. After success, the information will display the parameter list
- Get: Get parameters, select “Get” and click “Get”. After success, the information will display the parameter list

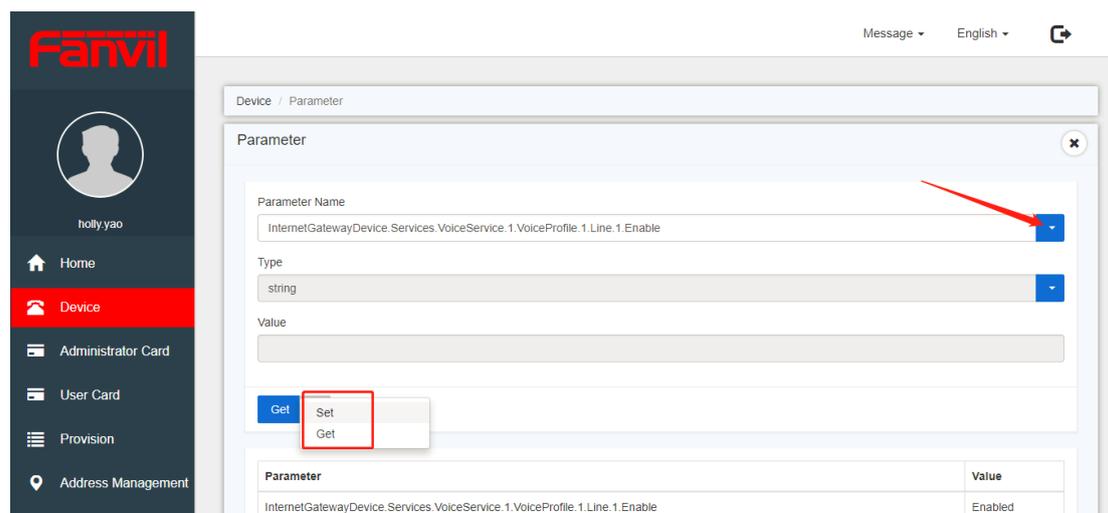


Figure 4-1-7

Notify:” Set” the type and value of the basic parameters as shown in Table 4-1-7.

Parameter Name	Type	Value
SIP Enable	String	Enabled/Disabled
SIP Number	String	Customized
Authentication Name	String	Customized
Authentication Password	String	Customized
Register Server Address	String	Customized
Register Server Port	unsignedInt	Customized
Proxy Server Address	String	Customized
Proxy Server Port	unsignedInt	Customized
Enable Periodic Information	boolean	True/False
Auto-Configuration Server Address	String	http://192.144.136.170:80/en-US/Acs/Index
Authentication Name	String	admin
Authentication Password	String	admin
Periodic Information Interval (s)	unsignedInt	Customized
CPE Username	String	Customized
Connection Type	String	STATIC/DHCP
IP	String	Customized
Subnet Mask	String	Customized
Gateway	String	Customized
DNS	String	Customized

Table 4-1-7

### 4.1.8 Auto Test

Select the device and click “**Auto Test**” to enter the Auto Test page. Click “**Start Test**”. FDMS will return the list of parameters supported by the device. After the test is completed, the test results will be displayed below and the test report will be downloaded, as shown in Figure 4-1-8

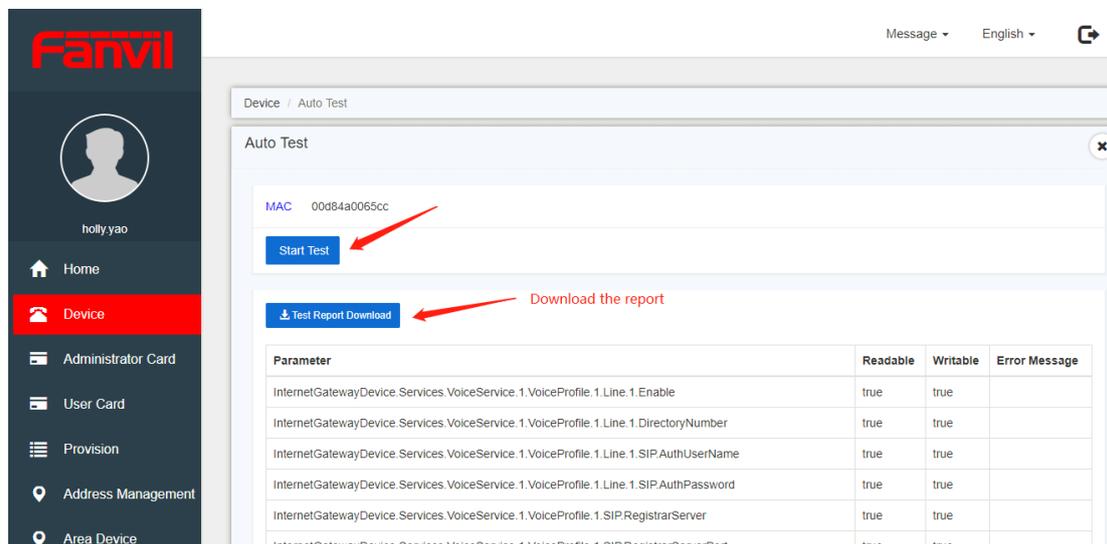


Figure 4-1-8

### 4.1.9 Reprovision

During the use of the device, external factors (such as: modify the configuration of the login device web page, not via FDMS) have been modified to the relevant configuration of the device. Select the device in the FDMS and click the “**Reprovision**” button. FDMS will reconfigure the device configuration to the previous FDMS configuration of the device, as shown in Figure 4-1-9

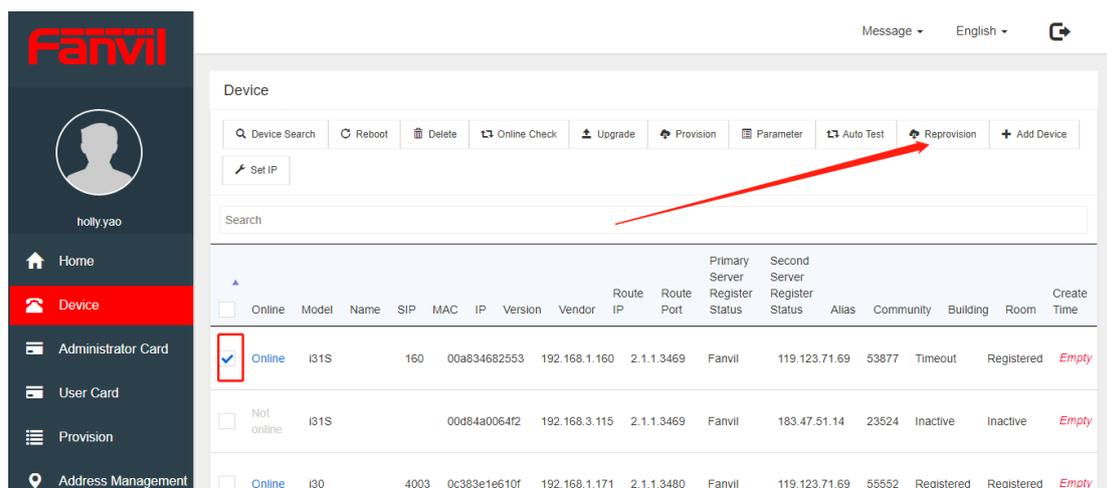


Figure 4-1-9

### 4.1.10 Add Devices

There are three ways to add devices: a single addition, a serial addition, and a messy addition. Default offline after successful addition.

Notify:

1. This function does not currently support direct connection to the device
  2. The MAC's format supports 12-digit hexadecimal numbers
- Single: type the model and mac of the device
  - Serial: type the model and start mac and end mac of the devices
  - Messy: users can choose to import the mac address file, copy and paste the device mac address into the text box, or directly enter the macs in the text box.

Import the devices, as shown in Figure 4-1-10

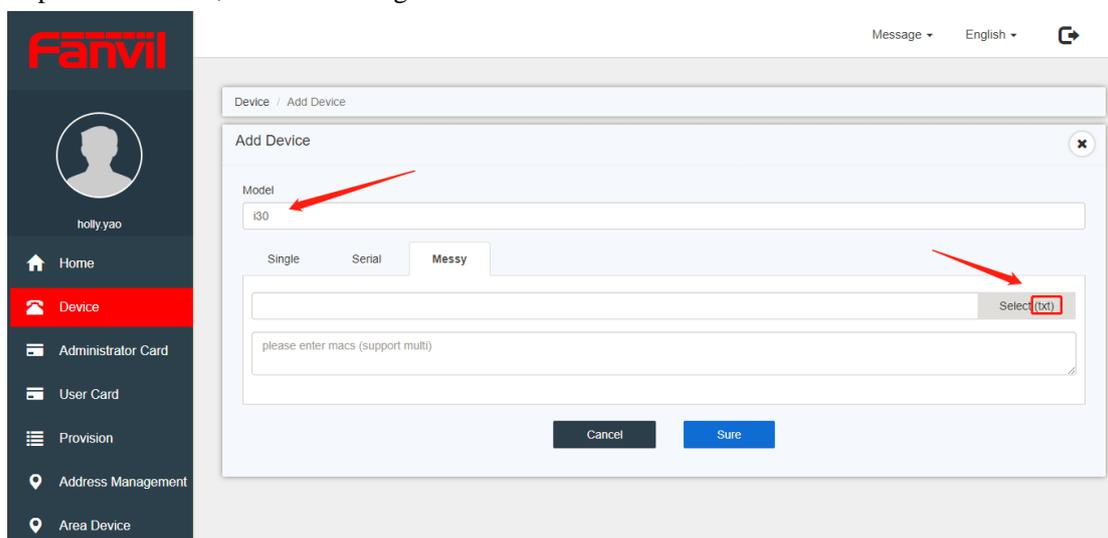


Figure 4-1-10

The imported mac file supports two ways ,as shown in Figure 4-1-11

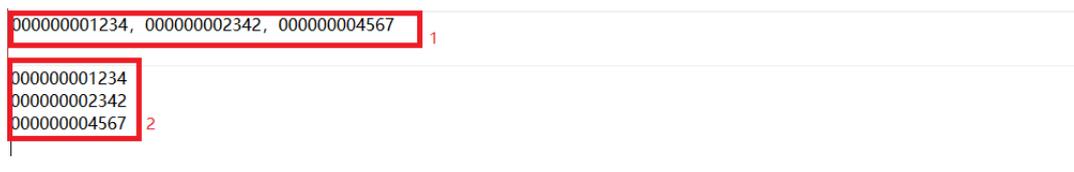


Figure 4-1-11

### 4.1.11 Set ip

This function is not supported currently

### 4.1.12 View Device Details

Click on the device status **Online** to see the device details, as shown in Figure 4-1-12

**Notify:** users can click “refresh” button to see the latest device details

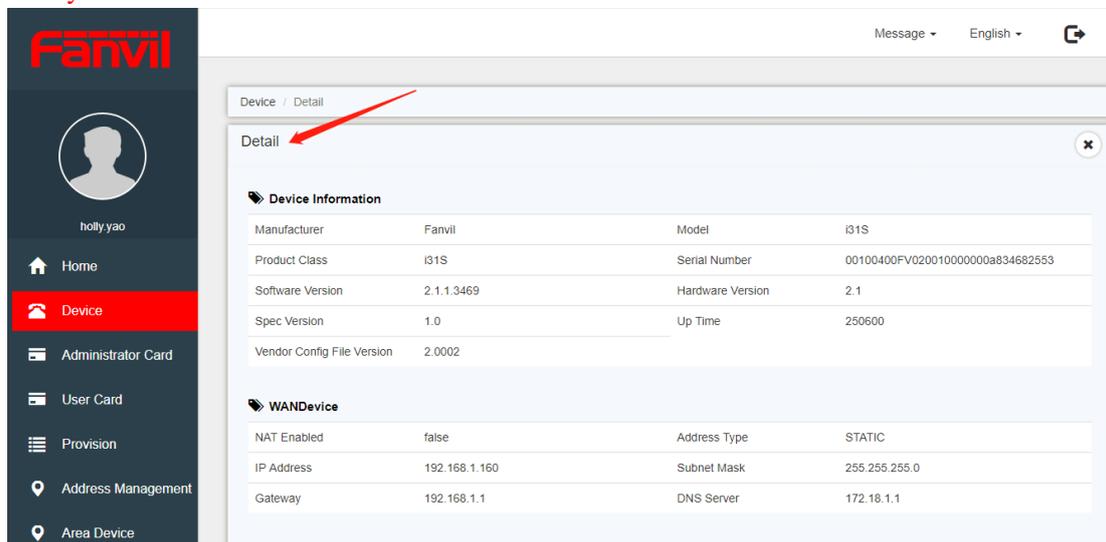


Figure 4-1-12

## 4.2 Model Management

The Model Management page provides different features for administrators and non-admins:

**Administrator:** Admin can add/delete/edit device models, configure the maximum sip line of the device model, whether to open the door and video, upload the corresponding software/configuration file, certificate file.

**Non-admins:** Users can only view the maximum sip line of the corresponding device model, whether it supports opening the door and video, upload the corresponding software/configuration file, certificate file, as shown in Figure 4-2:

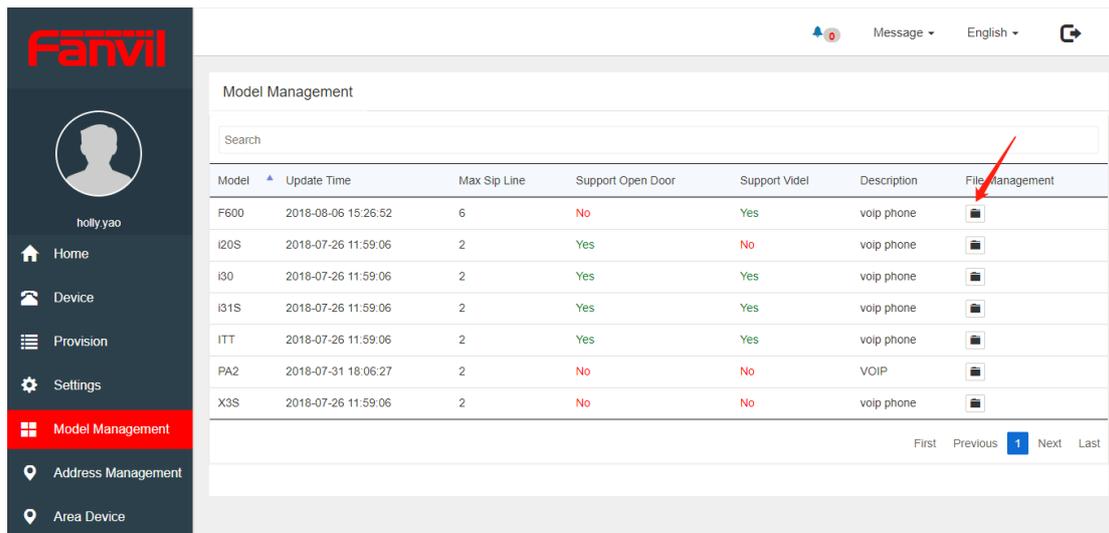


Figure 4-2

### 4.3 Address Management

The main functions of the address management module are: selecting an address, adding an address, an address list, and searching for an address function, as shown in Figure 4-3

- Select address: select address module can use three modes to create address
- Add address: there are two ways to add an address
- Address list: display the number of devices in the address, etc.
- Search for address: users can quickly search for the address you are looking for

**Notify:** The difference between selecting an address and adding an address is that users in the selected address can flexibly use the three addition modes provided to create a specific address. After adding the address, the address is displayed in the address list, and subsequent modules (such as :Add Card) can be linked to this address

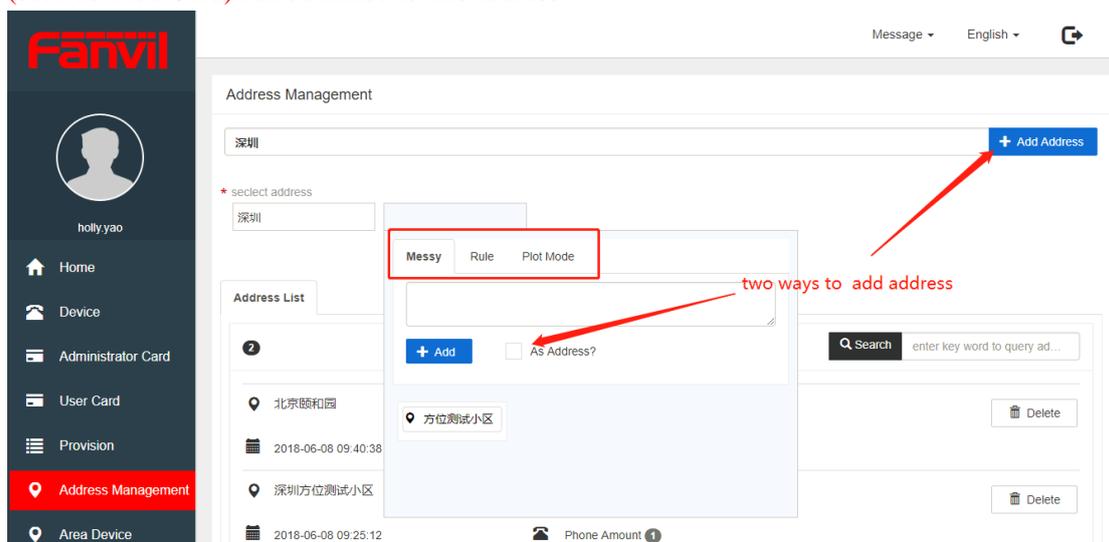


Figure 4-3

### 4.3.1 Select Address

Select address module provides three modes to create addresses: messy, rule and plot mode, users can use the combination of the three added modes to create a specific address. For example, create a plot mode address, as shown in Figure 4-3-1

Notify: when the location information is added, the rule maximum support 100, and the plot mode maximum support 500. The address created in the selection address cannot be deleted. Please add it carefully.

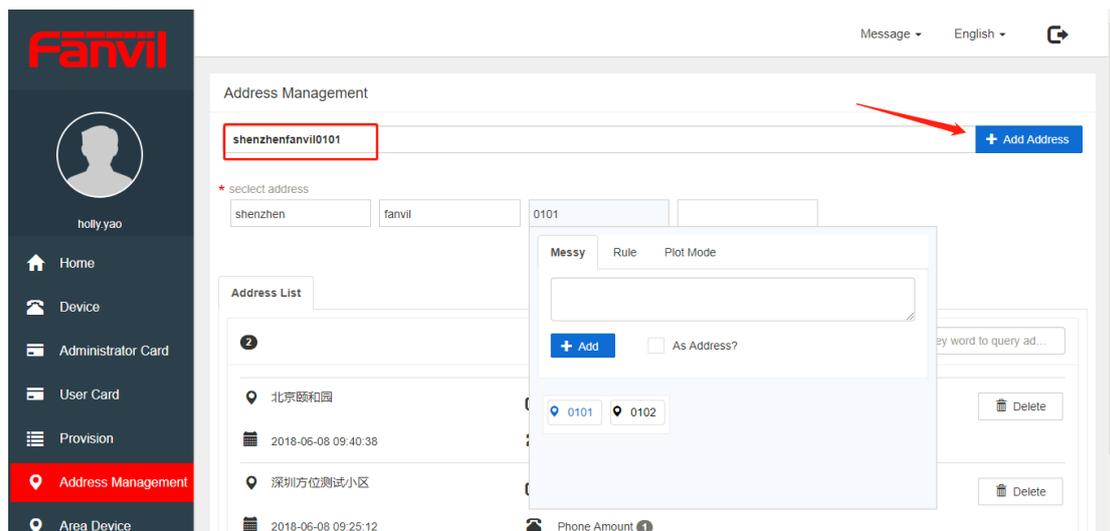


Figure 4-3-1

### 4.3.2 Add Address

After the address is added successfully, the added address will be displayed in the address list. Follow-up module will be associated with the added address. The address is added in two ways.

1. After selecting the address to add, directly check the as Address check box, as shown in Figure 4-3-2

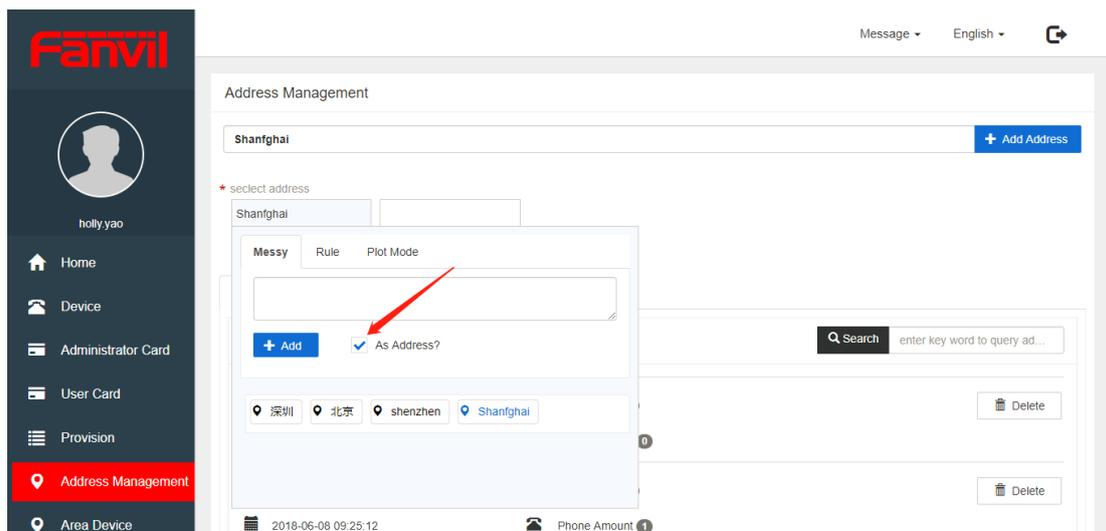


Figure 4-3-2

2. Select the previously added address in the Select Address drop-down list and click the "Add Address" button, as shown in Figure 4-3-3

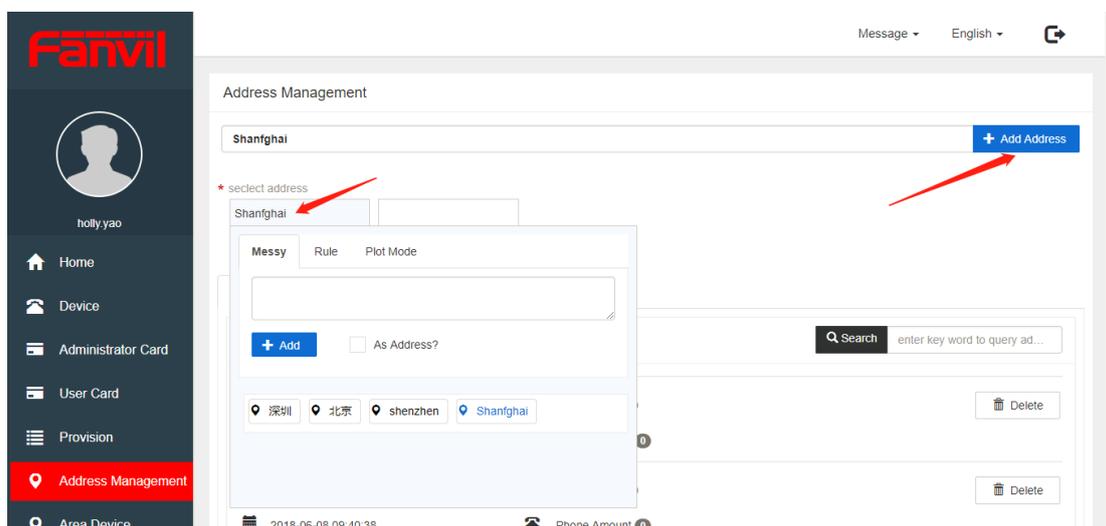


Figure 4-3-3

### 4.3.3 Address List

The address list can display the creation time of the address, the number of Eggs and phones, search and delete the added addresses.

## 4.4 Area Device

The area device module mainly manages and operates the device in a fixed address

### 4.4.1 Egs List

The device in the area is displayed in the Egs list, and the device can be managed and operated

1.Reboot, Delete, Online Check, Upgrade, Provision, Reprovision, operation mode is same as device module

2. Camera Preview

Camera preview of selected control devices

**Notify: This function currently only supports devices and systems in the same LAN**

3. Open Door

Select the device and click “**open door**” button, the corresponding device will open door, as shown in Figure 4-4-2

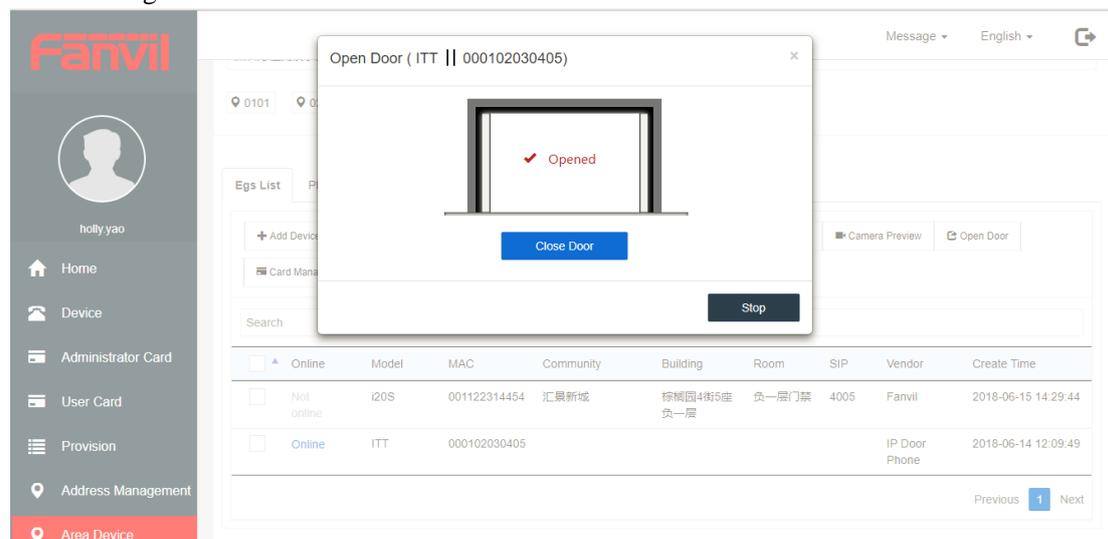


Figure 4-4-2

### 4. Card Manage

Select the device and click “**Card Manage**” to display the user card bound with the Egs. At the same time, user can also add/delete the user card to the Egs, click “**Sync Card**”, and all the cards bound with the Egs will be displayed in the card list., as shown in Figure 4-4-3

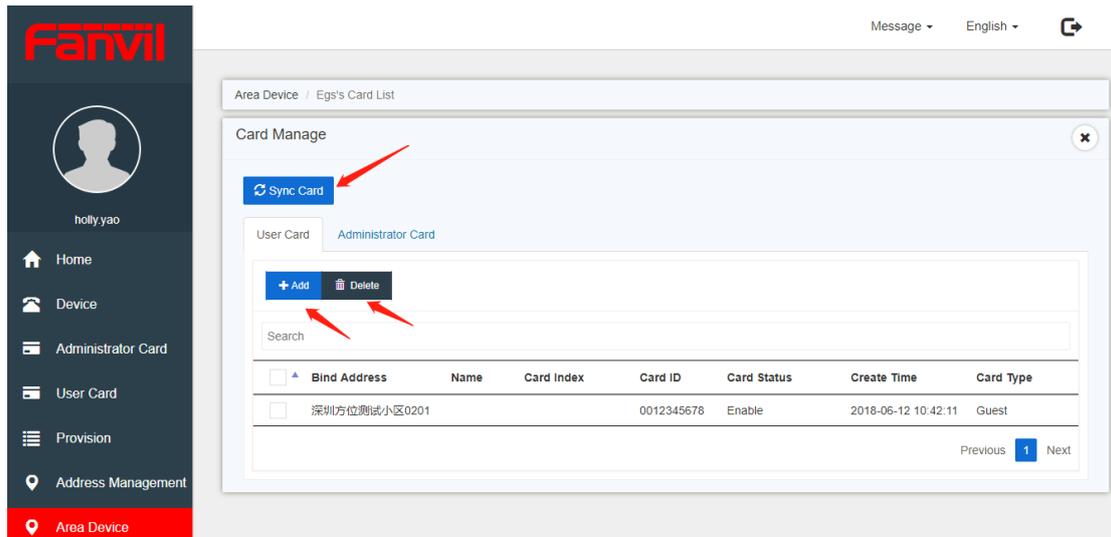


Figure 4-4-3

### 5. Egs log

The Egs log shows the record of the door open event. It can also delete records individually or in batches.

Click "**Log Sync**" to synchronize the record list with the records on the Egs log and the log in the web page of device, as shown in Figure 4-4-4

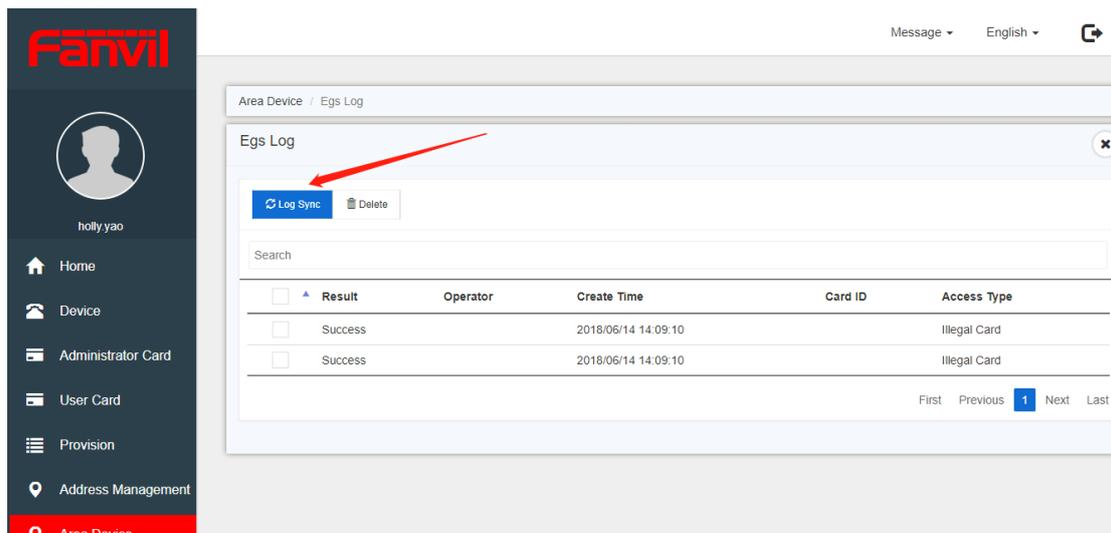


Figure 4-4-4

### 6. Add Device

Click "**Add Device**" to add other Egs devices in the area

## 4.4.2 Phone List

1. Reboot, Delete, Online Check, Upgrade, Provision, Reprovision, operation mode is same as device module
2. Add Device

Click "Add Device" to add other Phone devices in the area

### 4.4.3 Device Preview

The device preview interface graphically displays the ratio of Egs devices and phone devices in the area and the ratio of online devices and offline devices, as shown in Figure 4-4-5

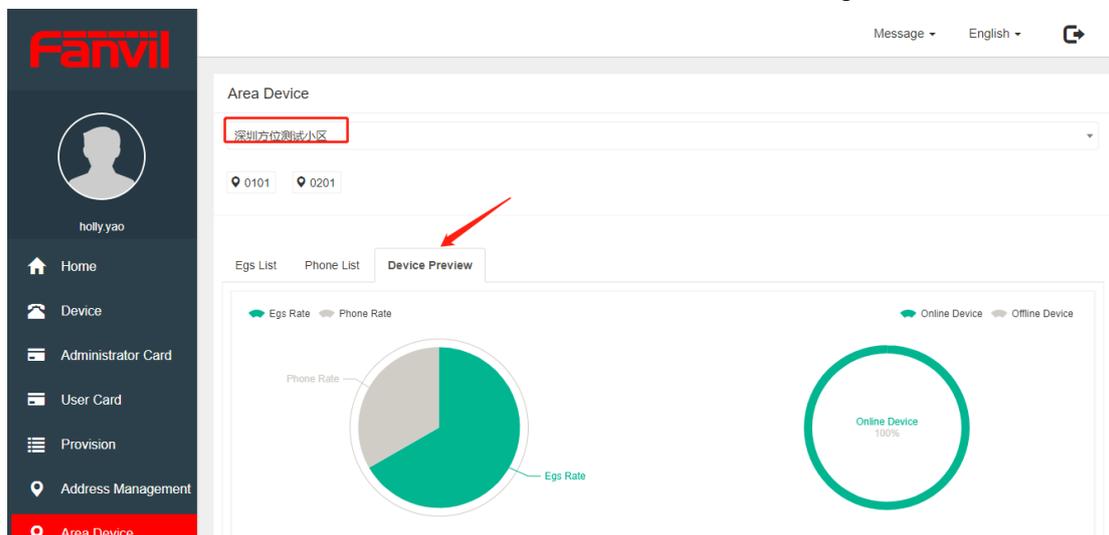


Figure 4-4-5

## 4.5 Alert

The alert page mainly displays the alert information in the abnormal state of the device in the system (including the device offline, control device failure, etc.), and provides the following functions, as shown in Figure 4-5

- Search for alert information based on device mac.
- Search for alert information by date.
- Delete the alert information.
- Unbind the alert information.

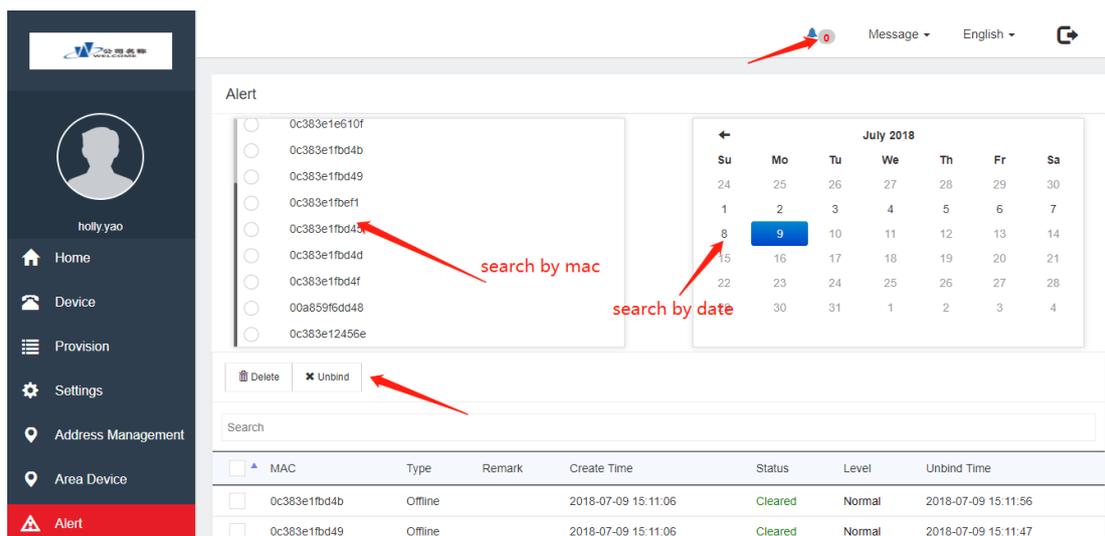


Figure 4-5

Notify:

1. Click this icon  to jump directly to the alert page.
2. Alerts are automatically generated when the device is offline or fails to control.
3. If the device is offline and automatically online after a while, the offline alarm status will automatically change from the ringing state to the cleared state.
4. The number displayed by this icon  is the number of alert messages in which the alert information that exists on the current day is ringing.

## 4.6 Provision

The main function of the module is to configure the template of the device (SIP, TR069, and network). The configuration template and the private configuration template form a complete configuration template, as shown in Figure 4-6-1.

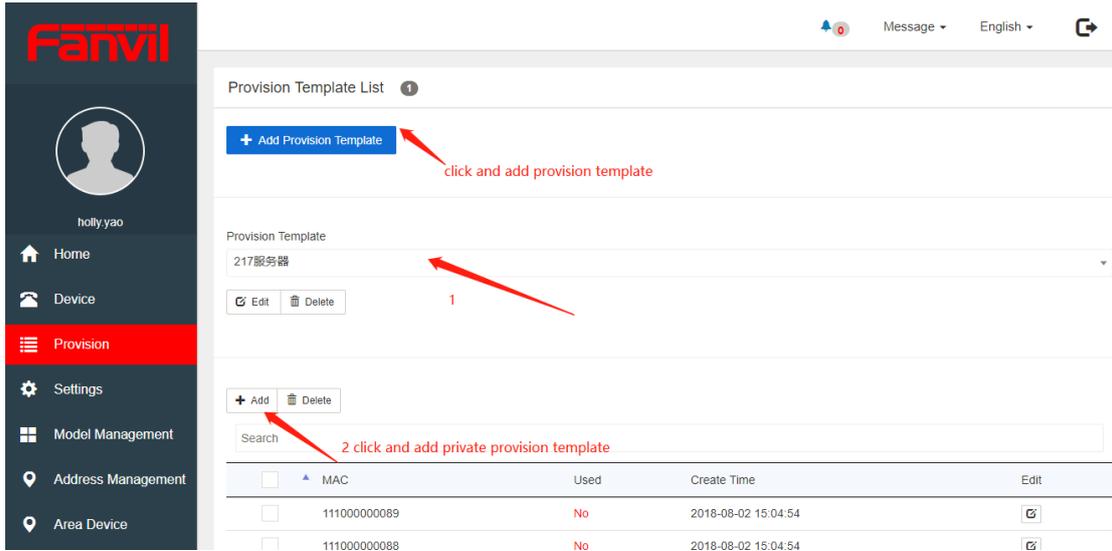


Figure 4-6-1

### 4.6.1 Add Provision Template

Click the "Add Provision Template" button to enter the Add Provision Template page. As show in Figure 4-6-2

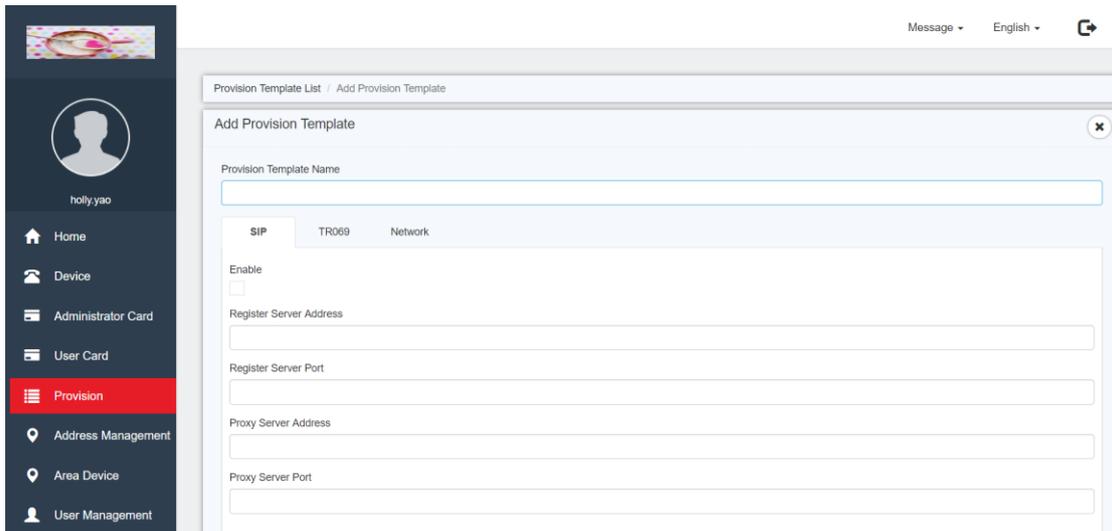


Figure 4-6-2

### 4.6.2 Add Private Provision

To add a private template, the user must first select a provision template and click "Add". As show in Figure 4-6-3

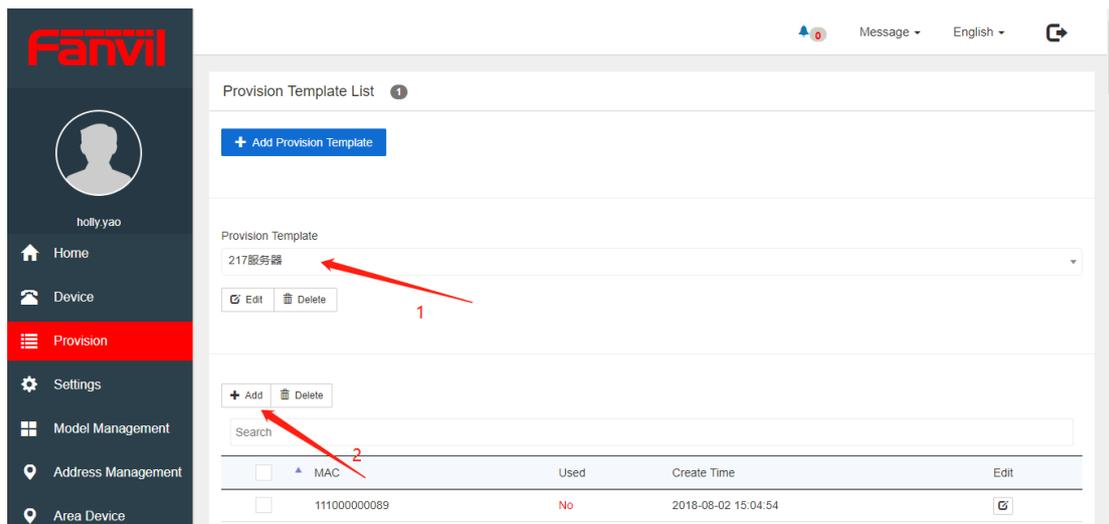


Figure 4-6-3

There are three ways for adding private provision:

1. Select a provision template, click “**Add Private provision**”, select **Single**, enter the Mac address directly, and enter the SIP number, authentication user name, and authentication password. Use it together with the provision template to configure the SIP, TR069, and network of the device, as shown in Figure 4-6-3

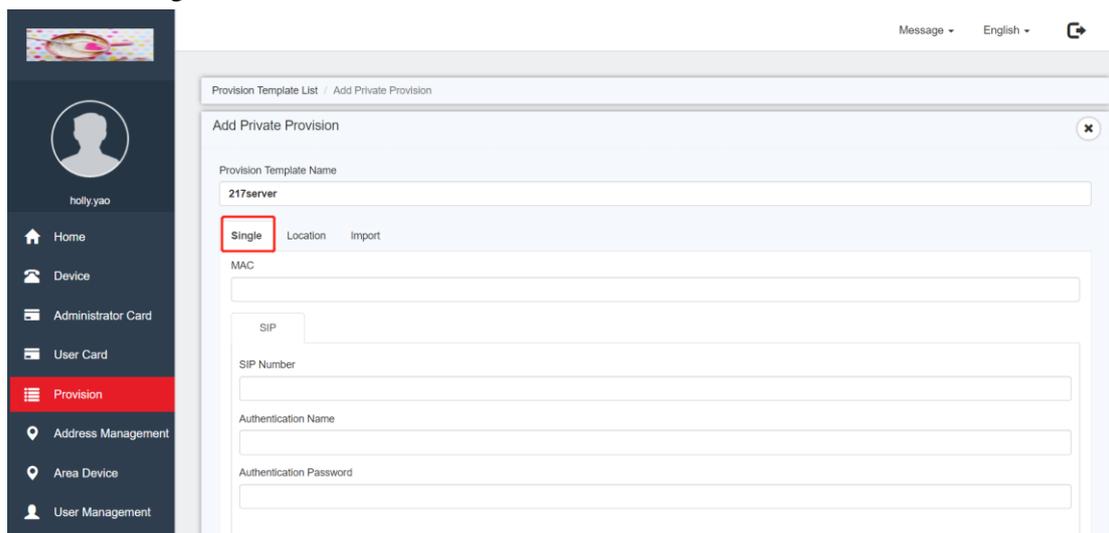


Figure 4-6-3

2. Select a provision template, click “**Add Private Provision**”, select Location and select an address. The device under this address is directly configured with the template. It is used in conjunction with the provision template to configure the SIP, TR069, and network of the device, as shown in Figure 4-6-4

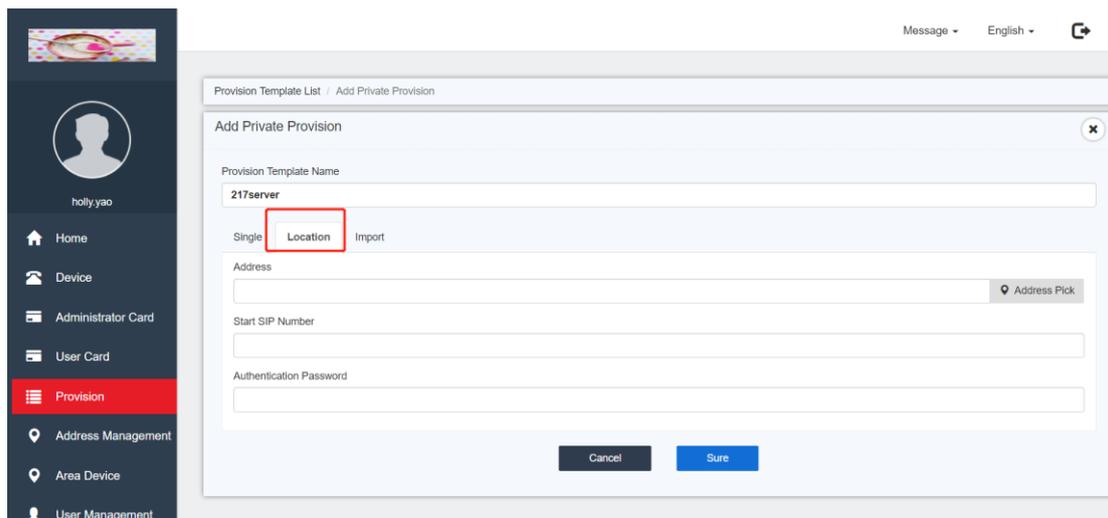


Figure 4-6-4

3. Select a provision template and click “**Add Private Provision**”. Select the import file. The file is an Excel. There is a Mac address. The provision template can be directly configured on multiple devices. It can be used in conjunction with the provision template to complete SIP and TR069, network on the device, as shown in Figure 4-6-5

**Notify:** the mac column in the exported excel table only supports numbers and letters, and the sip number column only supports numbers

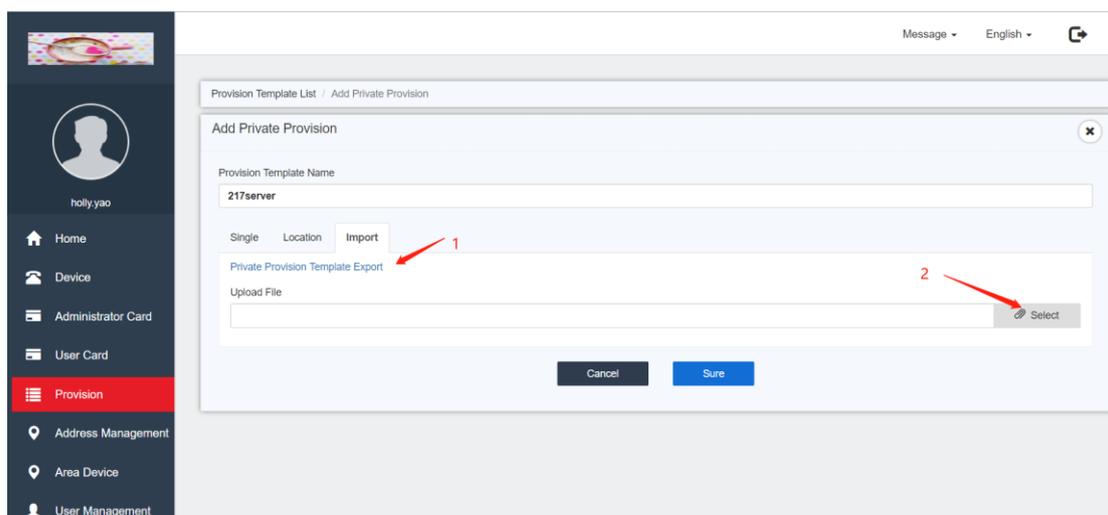


Figure 4-6-5

**Notify:** The success of the addition is only the completion of a configuration file, but it is not configured into the device. After the device initiates a TR069 connection for the next time, FDMS checks whether there are any fresh configuration files that need to be configured on the device, and if so, it is configured. After the configuration file is used, it will be expired until it is modified to continue to use it.

### 4.6.3 Edit

Click **"Edit"** button to edit template of SIP, TR069, and network

### 4.6.4 Delete

Click **"Delete"** button to delete the added configuration template

## 4.7 Administrator Card

Users can add an administrator card and search, delete, edit, and add single or multiple administrator cards to the Egs, as shown in Figure 4-7

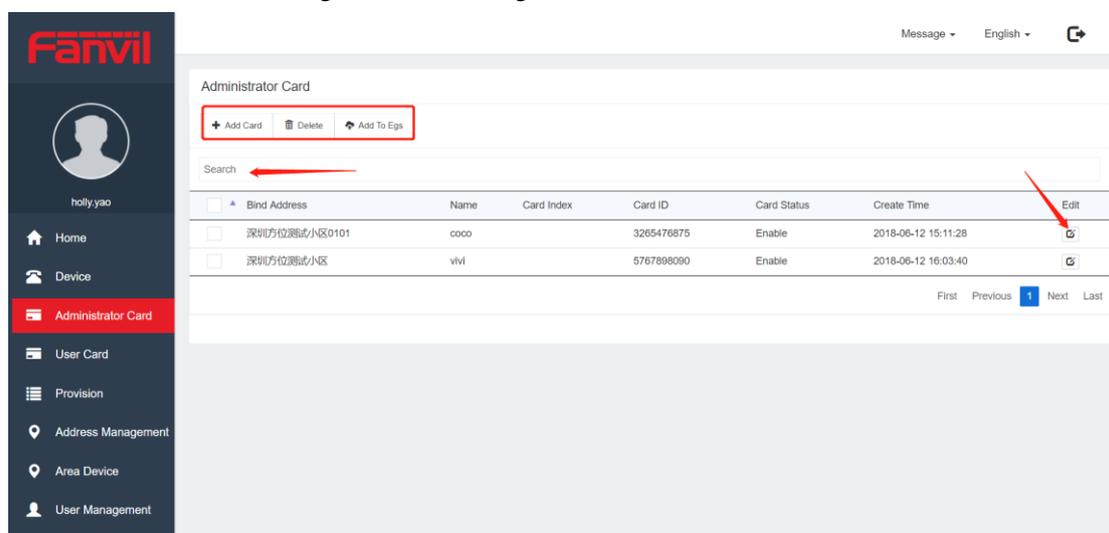


Figure 4-7

### 4.7.1 Add Card

Click the **"Add card"** button to enter the add card page, as shown in Figure 4-7-1

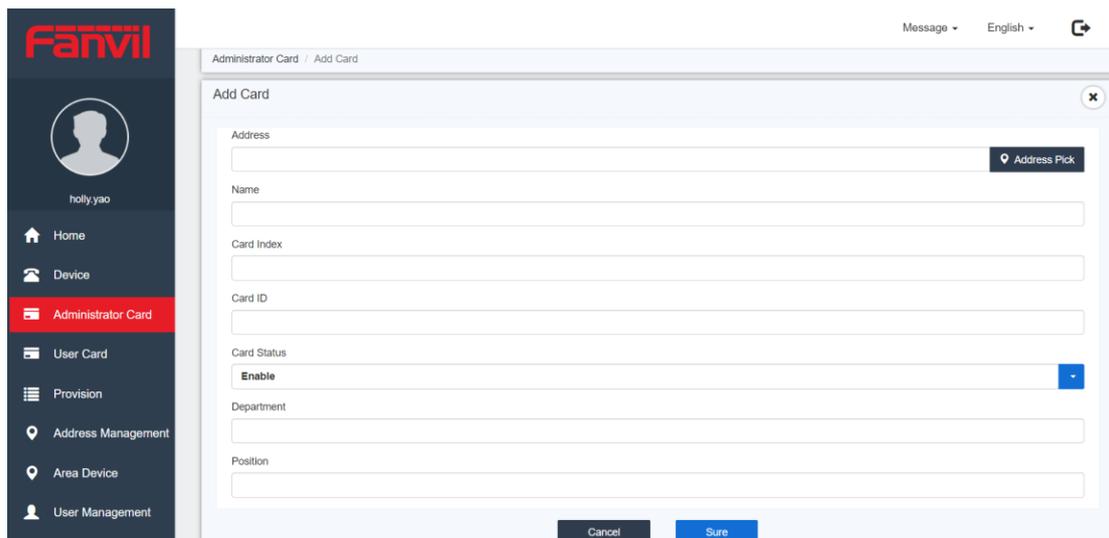


Figure 4-7-1

Notify:

1. Card Index and card ID are in one-to-one correspondence
2. Card Index: If the card relation list is imported in advance, the card Index will be generated automatically after the card ID is input.
3. Department: The default display address of the last three addresses, also can be customized
4. After the administrator card is added successfully, it is automatically delivered to all devices under the address.

#### 4.7.2 Delete

Select one or more administrator cards, click the "delete" button, the corresponding administrator card will be deleted in the list, the administrator card that is bound to all devices will be deleted accordingly.

#### 4.7.3 Add to Egs

One or more administrator cards can be added to different Egs under different area

#### 4.7.4 Edit

Select "Edit" button, users can enter the administrator card editing page, and can modify the administrator card information.

### 4.8 User Card

The user card module manages all user cards. It can search, add, delete and edit user cards, and add single or multiple user cards to the Egs, as shown in Figure 4-8

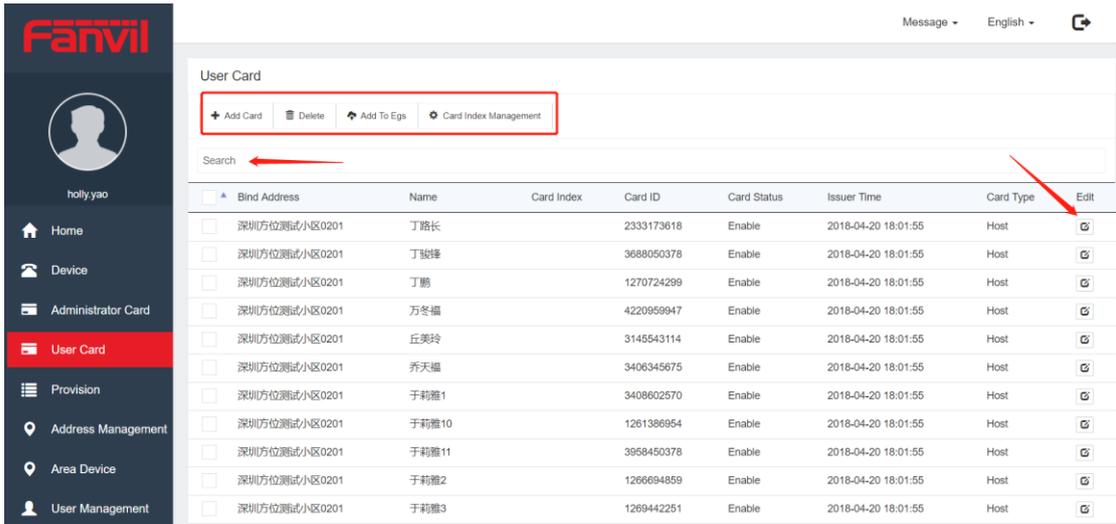


Figure 4-8

### 4.8.1 Add Card

There are three ways to add a card: location Reference , User Reference and Import Model . After the success is added, the user card can be directly delivered to the user or the Egs device that the user under the address needs to pass through, as shown in Figure 4-8-1

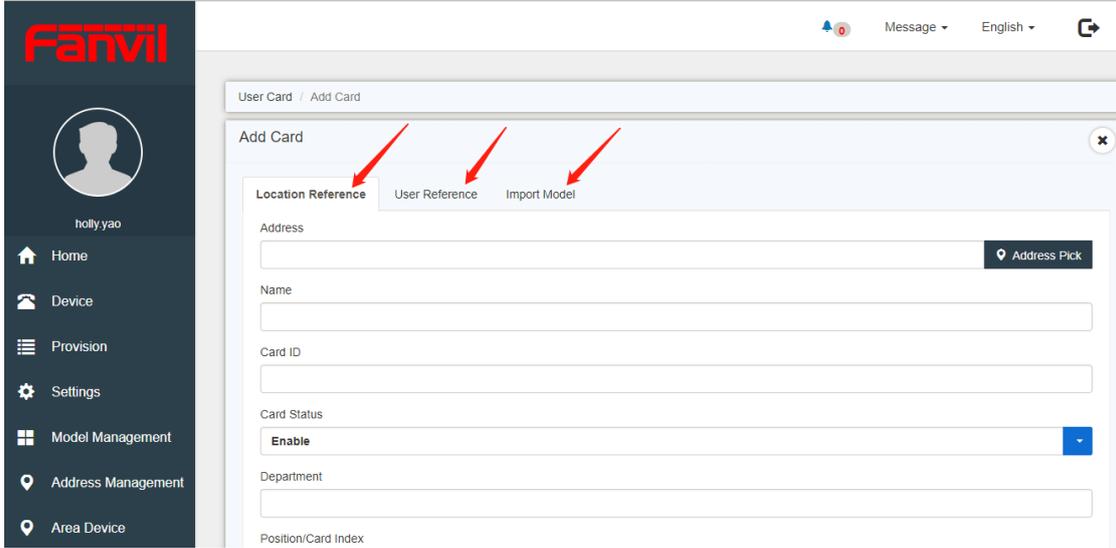


Figure 4-8-1

### 4.8.2 Delete

Select one or more user cards and click the "Delete" button. The corresponding user card will be deleted from the list. The user cards bound to all devices will be deleted accordingly.

### 4.8.3 Add to Eggs

Select one or more user cards to add to different Eggs in different locations, as shown in Figure 4-8-2

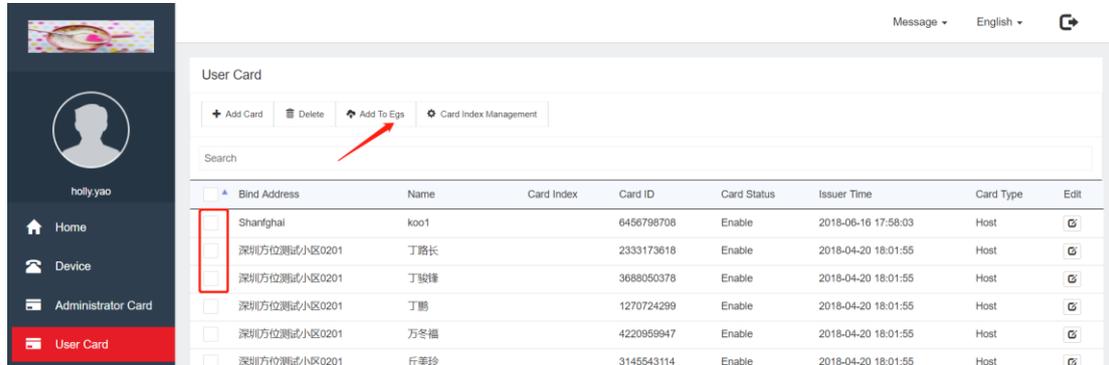


Figure 4-8-2

Add to Eggs process:

1. Select the user card and click on "Add to Eggs "button, as shown in Figure 4-8-3

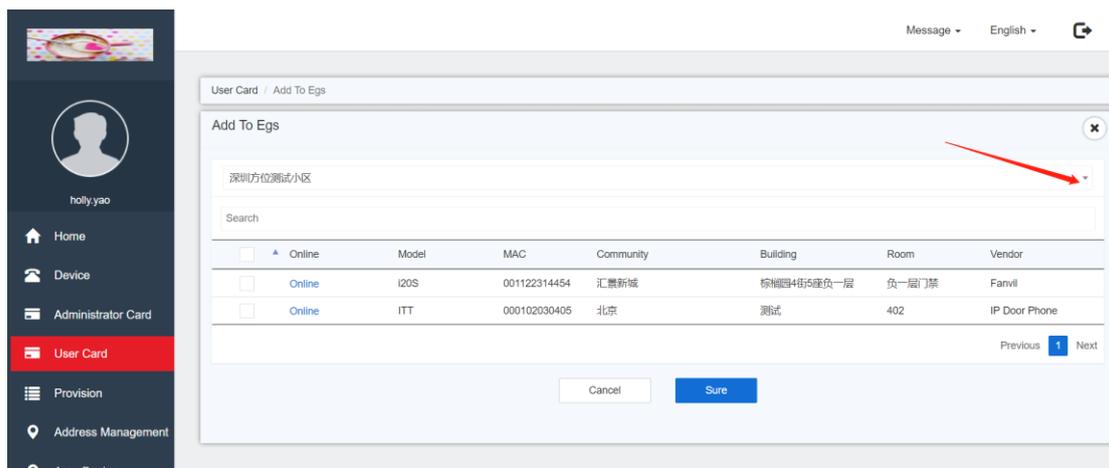


Figure 4-8-3

2. Select address
3. Check the device, users can check multiple devices at the same time, as shown in Figure 4-8-4

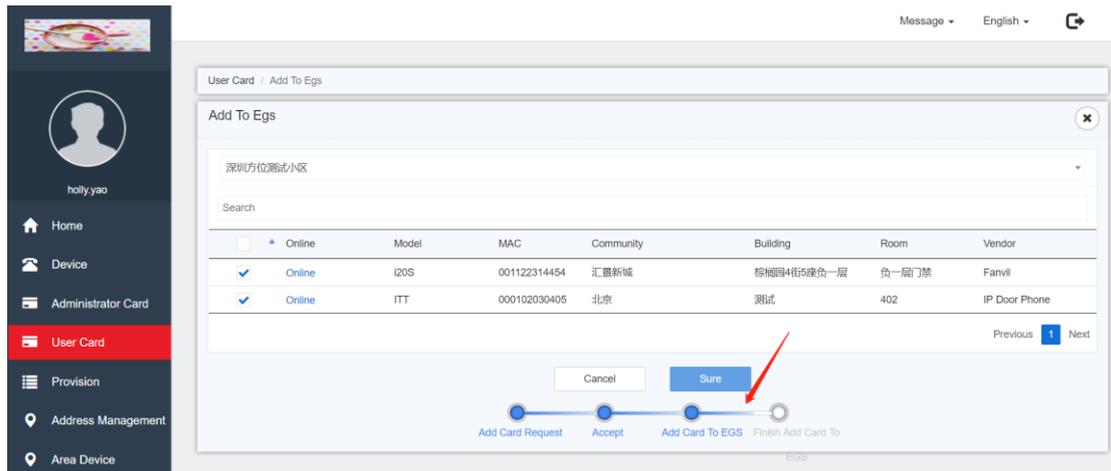


Figure 4-8-4

4. Click "Sure". If it is added successfully, the progress will be blue. After adding it successfully, it will automatically jump to the user card page. If the add failure shows red.

### 4.8.4 Edit

Edit existing user card, address and card ID cannot be modified, others can be modified

### 4.8.5 Card Index Management

The main function of the card Index management module is to support the list of the correspondence between the card Index and the card ID, as well as to delete the uploaded data and support a key clear operation, as shown in Figure 4-8-5

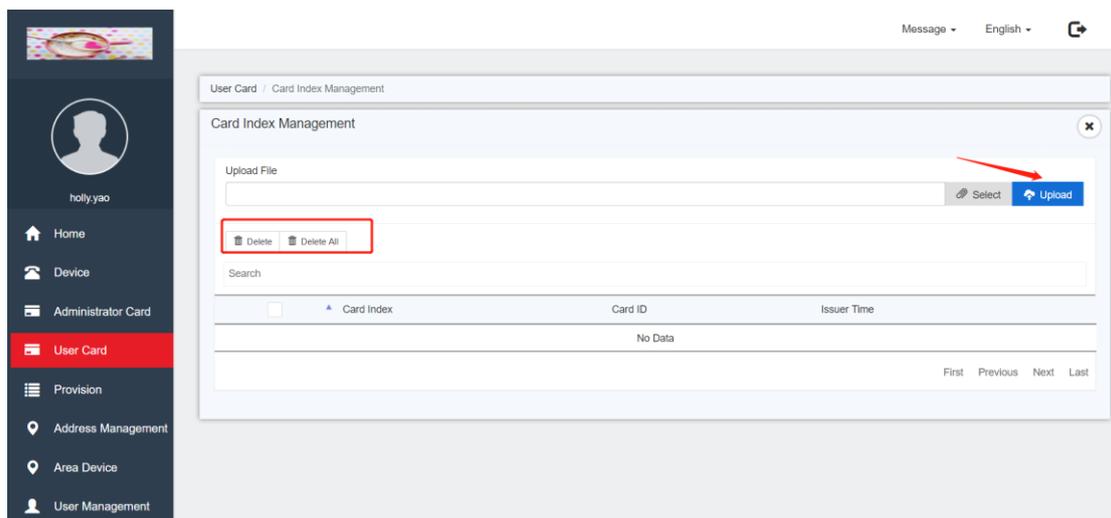


Figure 4-8-5

Notify: The uploaded file format only supports .xls. After the upload is successful, users can enter

the card index management page and view the successfully uploaded card relationship list. When the number of card numbers is large, a progress bar will be displayed in the upper left corner of the page to indicate the upload progress.

## 4.9 User Management

User management module can add and delete users, manage existing users, as shown in Figure 4-9

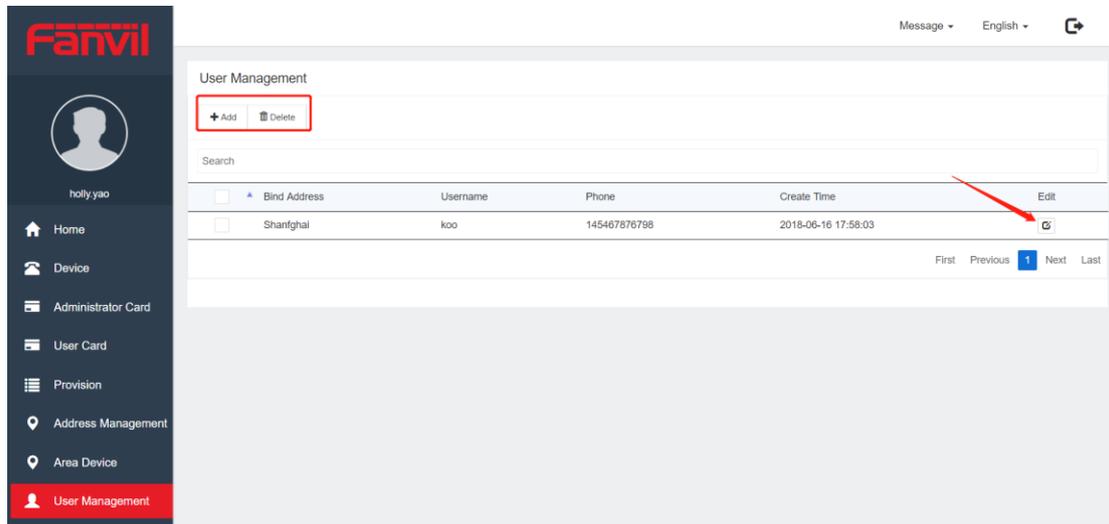


Figure 4-9

### 4.9.1 Add

Click the "Add" button to enter the Add page:

1. The device can be directly bound to this user via Egs MAC address and Phone Mac address, as shown in 4-9-1

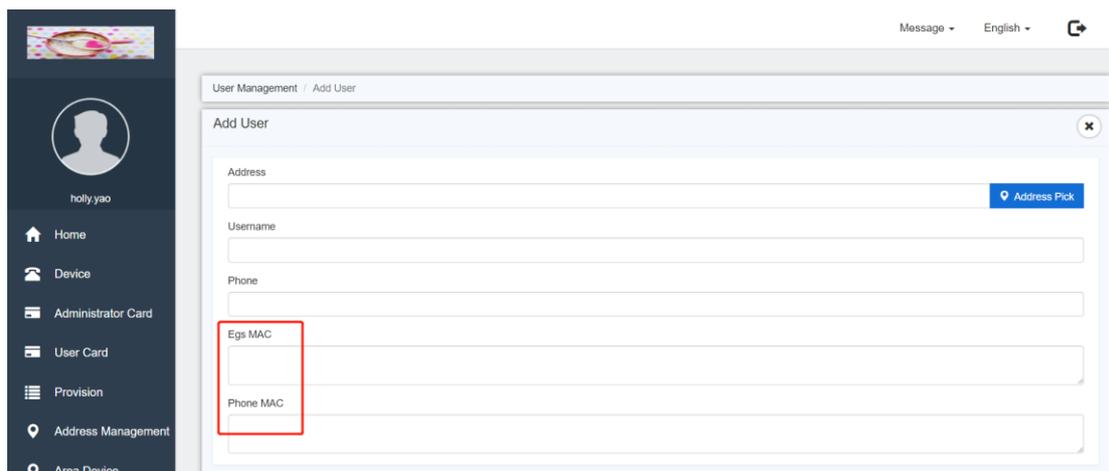


Figure 4-9-1

2. It can issue cards automatically, divided into serial type and messy type. It can be directly added

to the user card. If the Egs MAC address is bound, the automatic issuance card can be sent directly to the equipment, as shown in Figure 4-9-2

Figure 4-9-2

3. If you bind the Egs MAC address, select the automatically assigned sip account, users can use the configuration template to configure, as shown in Figure 4-8-3

Figure 4-9-3

## 4.9.2 Edit

Modify users phone and modify/add Mac address for device.

## 4.10 Egs Log

The Egs log module records the door opening event. Users can delete the Egs logs in a single/batch mode or clear with “Delete All” button. And can also quickly search for the corresponding logs, as shown in Figure 4-10

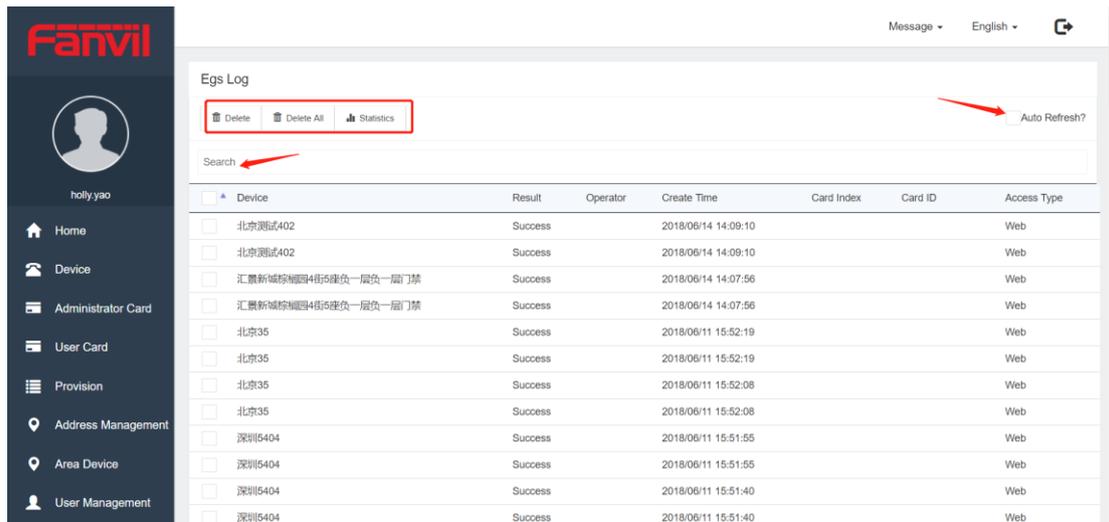


Figure 4-10

Notify: If users need Egs log synchronization upload, they need to set Enable Open Log Server: TR069 or all on the web side of the devices, as shown in 4-10-1

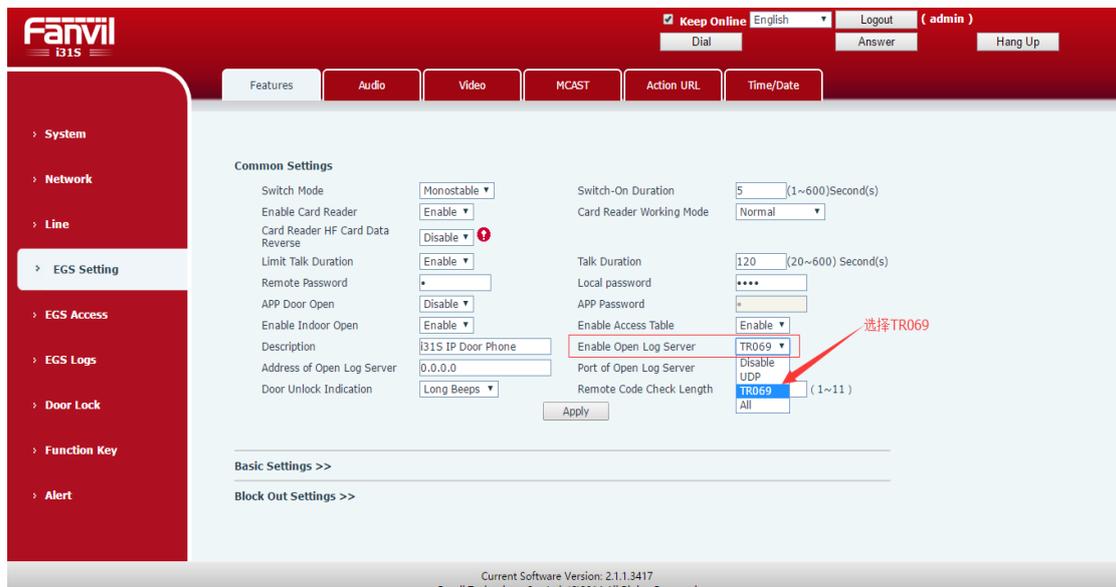


Figure 4-10-1

Notify:

1. Access types include: valid card, invalid card, disabled card, temporary card, local password, remote password, web six types
2. Check the "Auto refresh?", the Egs log will be refreshed in real time, the refresh time is 5s

#### 4.10.1 Delete

Select the corresponding Egs log and click the "Delete" button. The corresponding Egs log will be deleted from the access log list.

### 4.10.2 Delete All

Click the "Delete All" button (There is no need to select Egs log). All Egs logs will be cleared.

### 4.10.3 Statistics

Provides multiple ways to search the Egs log and download the Egs log, as shown in Figure 4-10-2

There are 5 ways to filter:

- Filter based on the device's address
- Filter by card Index
- Filter by card ID
- Filter by devices
- Filter by time period

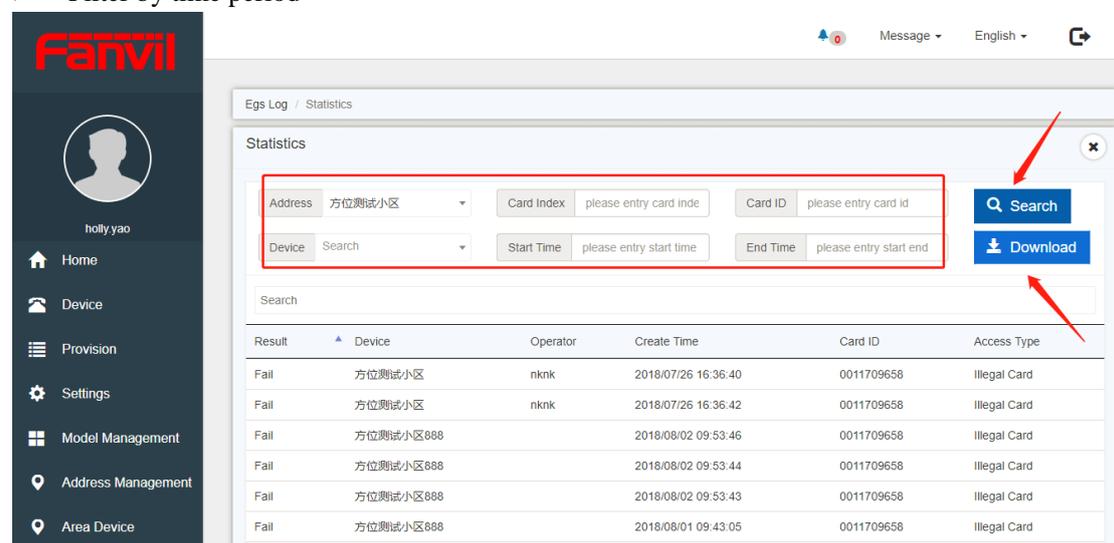


Figure 4-10-2

### 4.10.4 Search

Enter the corresponding information in the search box to quickly search for the Egs logs

## 4.11 Log

Log interface records user operations on the system, users can delete, clear, search and remark the log. As shown in Figure 4-11



Online	Model	Name	SIP	MAC	IP	Version	Vendor	Route IP	Route Port	Primary Server Register Status	Second Server Register Status	Alias	Community	Building	
<input type="checkbox"/>	Online	i31S	160	160	00a834682553	192.168.1.160	2.1.1.3552	Fanvil	119.123.69.180	29825	Timeout	Registered	Empty	深圳	8
<input type="checkbox"/>	Online	i31S	162	165	00d84a006582	192.168.1.162	2.1.1.3552	Fanvil	119.123.64.149	23248	Inactive	Inactive	#	北京	1
<input type="checkbox"/>	Online	i31S	161		00d84a0064fa	192.168.1.161	2.1.1.3552	Fanvil	119.123.64.149	21607	Inactive	Inactive	gg	深圳	509
<input type="checkbox"/>	Online	i31S	4001		00a834682551	192.168.1.164	2.1.1.3552	Fanvil	119.123.64.149	22538	Inactive	Inactive	hh	深圳	5
<input type="checkbox"/>	Online	i31S	2008		00a83468254e	192.168.1.163	2.1.1.3552	Fanvil	119.123.64.149	24375	Inactive	Inactive	Empty	北京	3

Figure 4-12-2

### 4.12.2 Card Relate Setting

Provide a batch import card Index and card ID relationship table, import the card relationship table in advance, only need to input the card ID when adding the administrator card and the user card, and the corresponding card Index will be generated automatically. After successful import, user can view the imported data in the User Card-Card Index management, as shown in Figure 4-12-3

**Notify:** The files imported in here only support .xls format files. Users need to export the template first, modify it and import it according to their own wishes. 30,000 data can be uploaded in two seconds.

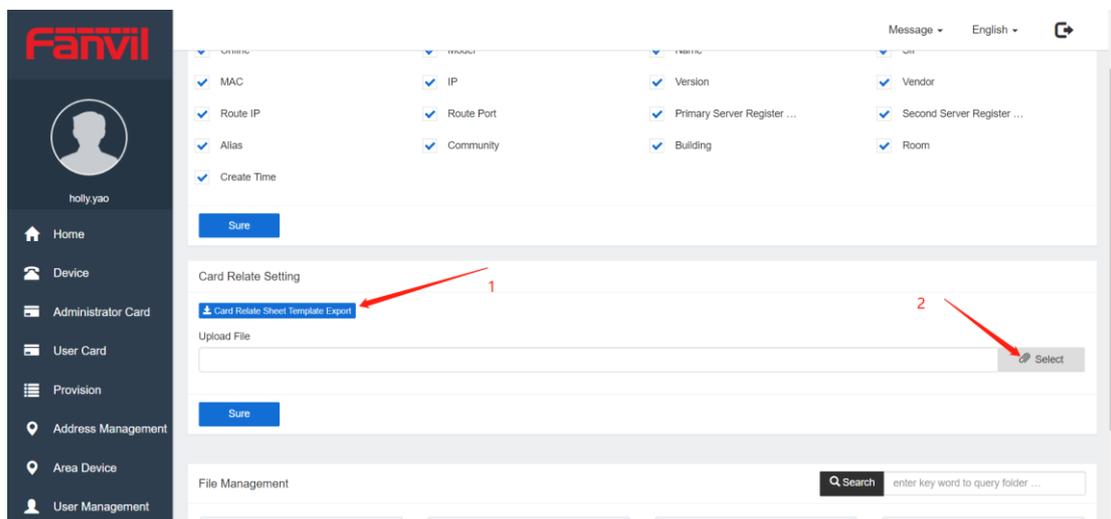


Figure 4-12-3

### 4.12.3 File Management

The device is connected to the FDMS. There is a corresponding file directory under the file management. Users can upload the software, configuration file, certificate file, and delete the uploaded file, as shown in Figure 4-12-4

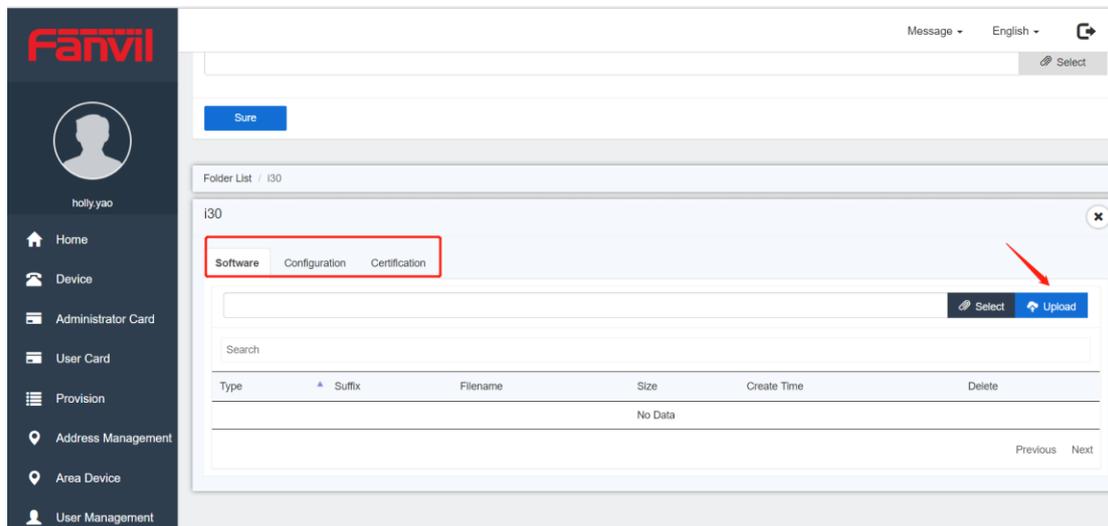


Figure 4-12-4

### 4.13 Account Management

- Basic Information: Set user's basic information
- UI Custom: Users can customize the upload icon
- Modify Password: Modify the password

#### 4.13.1 Basic Information

The module can upload avatars and set user's basic information, as shown in Figure 4-13-1

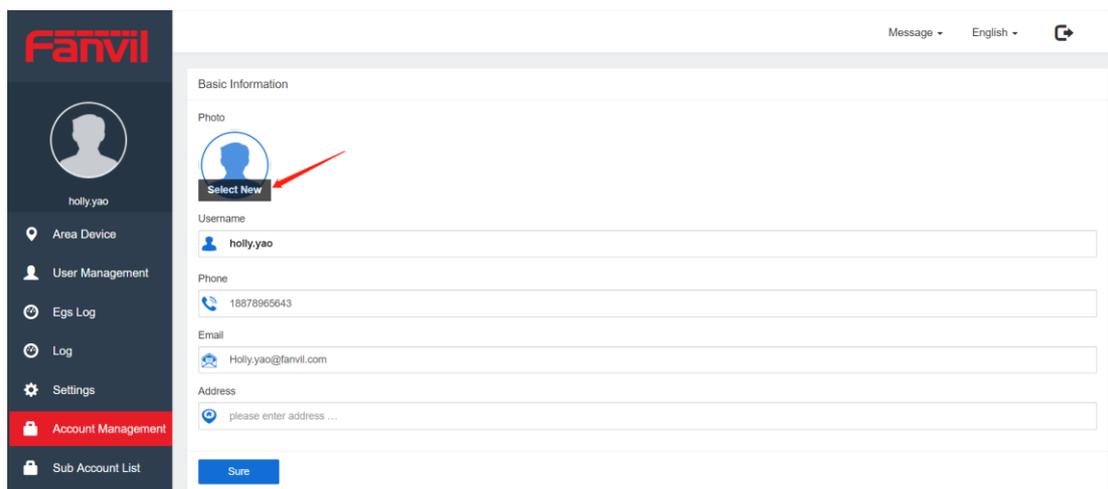


Figure 4-13-1

Notify: Uploaded file cannot exceed 100KB

### 4.13.2 UI Custom

User can customize the UI, as shown in Figure 4-13-2

Notify: Uploaded file cannot exceed 100KB

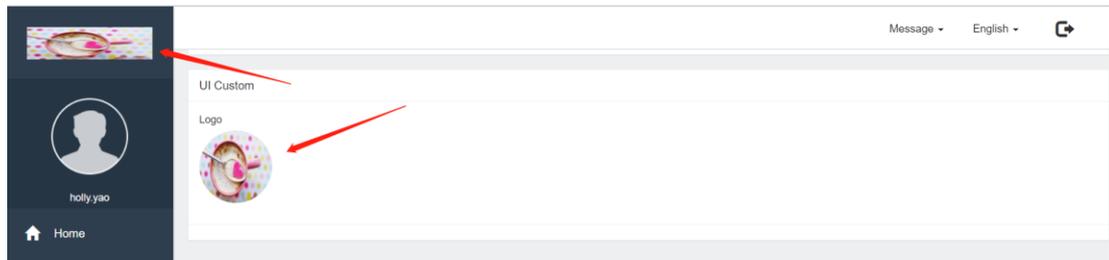


Figure 4-13-2

### 4.13.3 Modify Password

Modify the password already set by the user, as shown in Figure 4-13-3

Notify: the old password and the new password cannot be the same

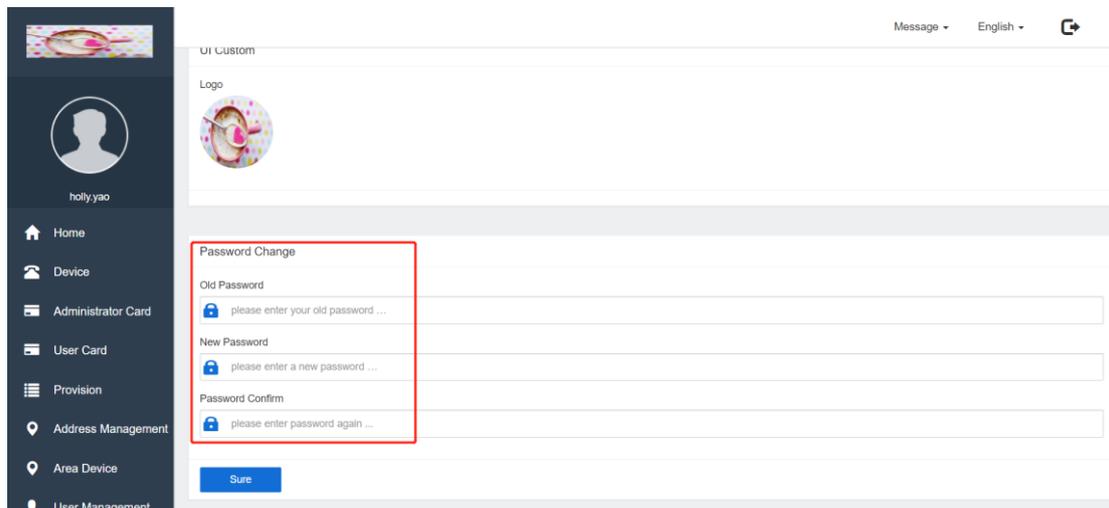


Figure 4-13-3

## 4.14 Sub Account List

The main functions of the sub-account list module include: add sub-accounts, delete sub-accounts, reset sub-account passwords, and search for sub-accounts

### 4.14.1 Add Account

On the sub-account management page, click "**Add Account**" to enter the Add Account page, as shown in Figure 4-14-1

**Notify:** the role name needs to be added in advance in the role management module. If there is no available role name selection, there will be empty

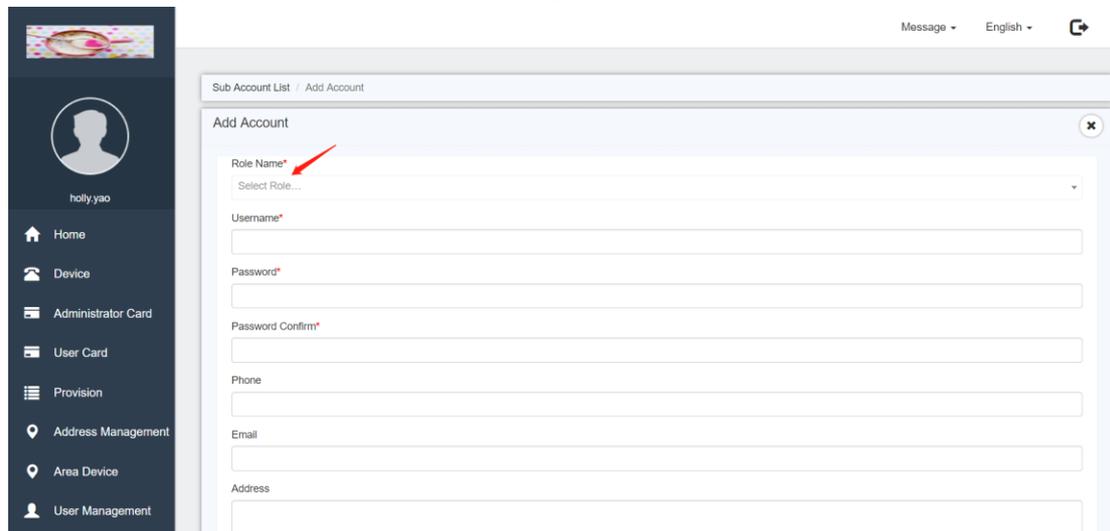


Figure 4-14-1

### 4.14.2 Delete

Select a sub account / multiple sub accounts Click the "**Delete**" button, the corresponding sub account will be deleted in the list.

### 4.14.3 Reset Password

Select the sub-account and click "**Reset password**", fill in the new password, click "**Sure**" button, the password reset is successful.

### 4.14.4 Search

Enter the corresponding information in the search box to quickly search for the corresponding sub-account information.

## 4.15 Role Management

The main functions of the role management module are: adding roles, deleting roles, editing roles, and searching for roles.

### 4.15.1 Add Role

On the role management page, click the "Add Role" button to enter the Add Roles page, customize the role name, and assign different permissions to the role, as shown in Figure 4-15-1

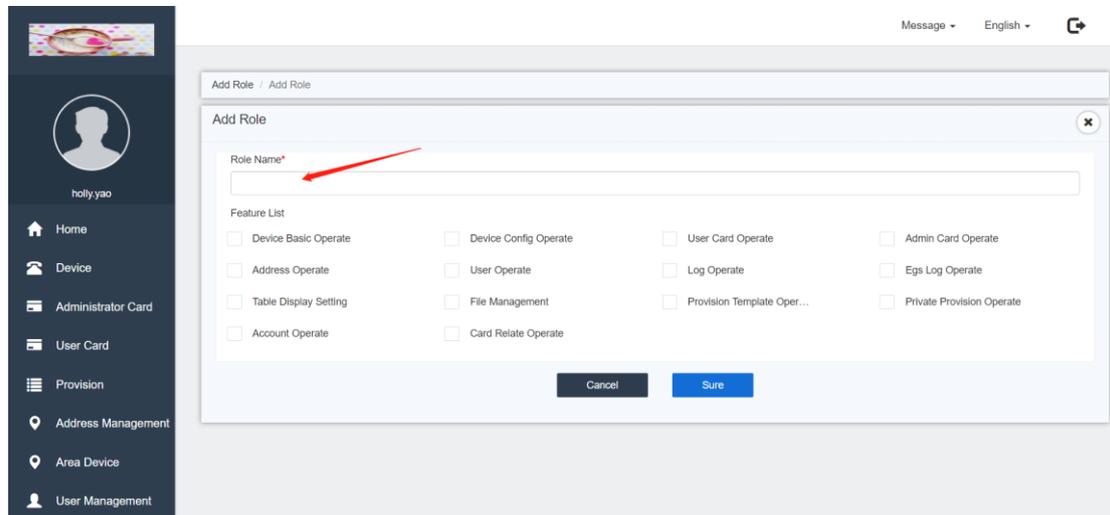


Figure 4-15-1

### 4.15.2 Delete

Select a role name/multiple role names Click the "Delete" button, the corresponding role will be deleted in the list.

### 4.15.3 Edit

Select any role name, click the "Edit" button, users can change the permissions of the corresponding role.

### 4.15.4 Search

Enter the corresponding information in the search box to quickly search for the corresponding role information.