

Zkong Label System Manual

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1. Product introduction

(1) Zkong Software System :

Check the state of hardware and software, manage and refresh ESL.

(2) AP

AP works together with ESLs and transmits data.



PoE Power Supply: Provide power to the AP and connect to the external network, having PoE port connecting with AP and LAN ports connecting to the external network.



(3) PDA

Binding the product with ESLs.



(4)Electronic Shelf Label

ESL works around AP.



2. Merchant- Store and Account

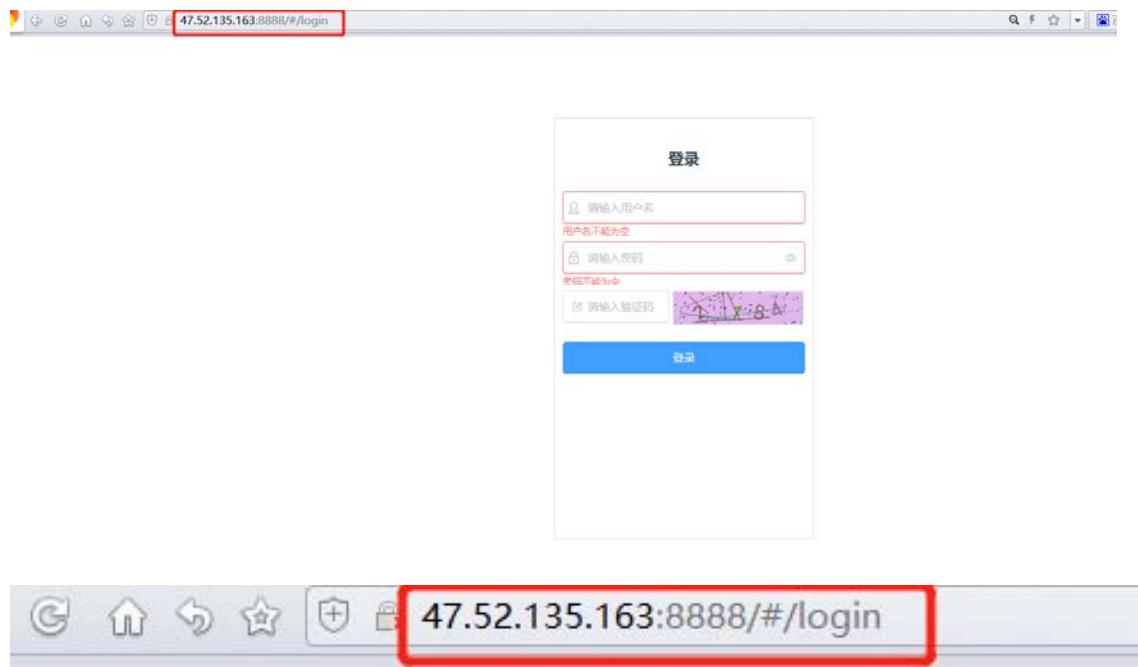
(1) Add merchant and get merchant account in the ESL platform

Please provide your company's business license to the sales staff for record.

After confirming the complete information, our company will add the merchant for your company, as well as the merchant administrator's account and password. The sales staff will forward the account and password of the merchant administrator to your company.

(2) Log in ESL platform

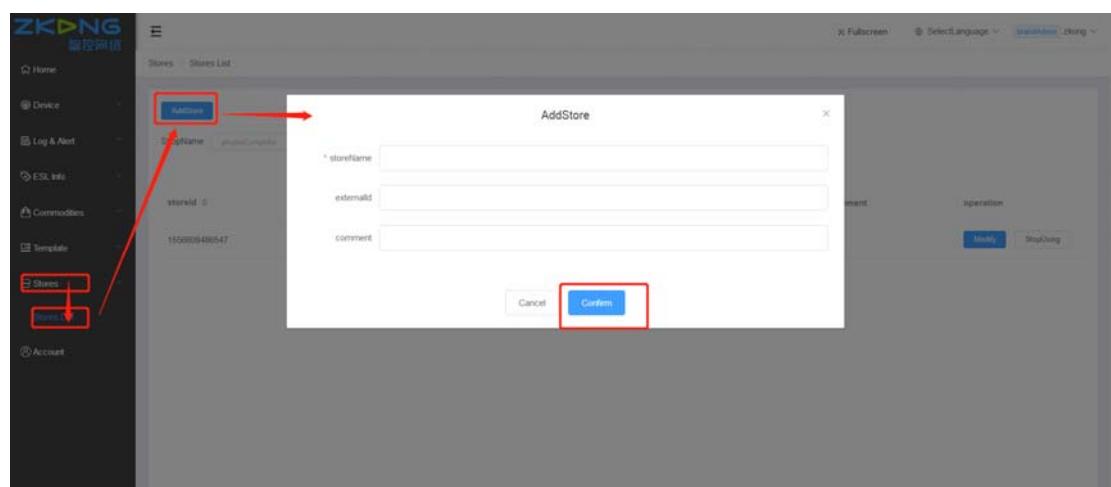
Copy <http://47.52.135.163:8888/#/> to a browser and open it, enter merchant administrator user name and password.

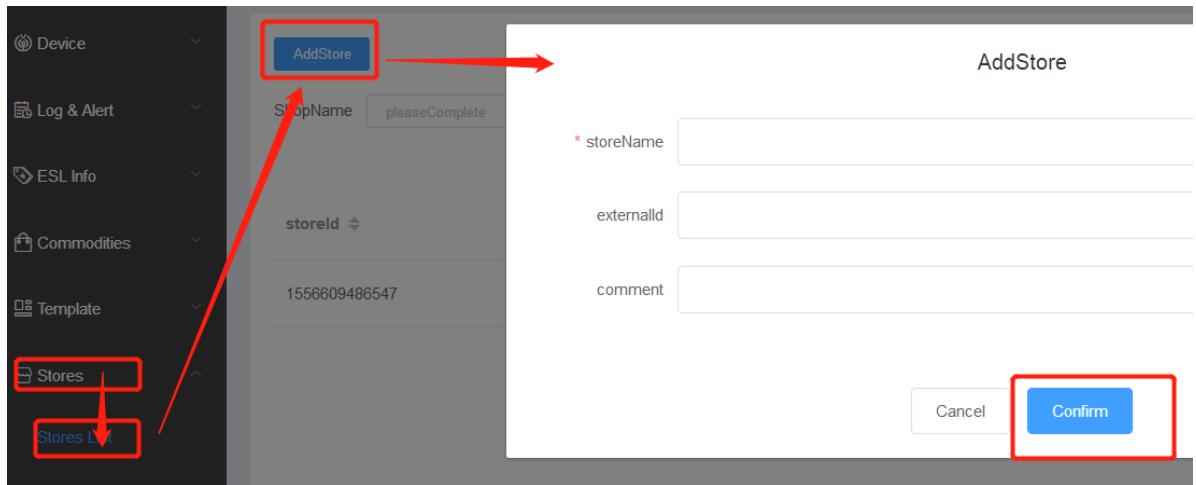


(3) Add new store

Remarks: multiple stores can be built under one merchant's account. Base stations, ESLs, PDAs, products and templates are all associated with the stores.

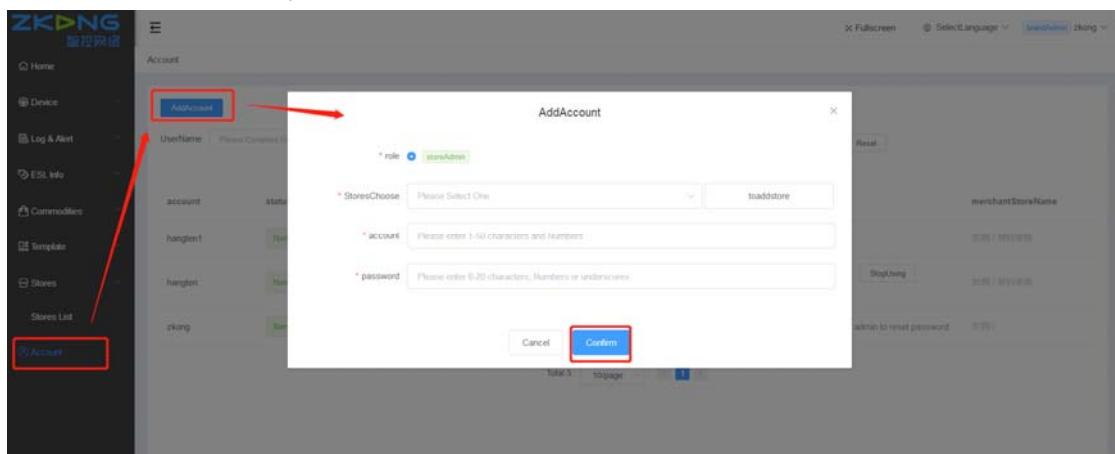
- 1、After logging in the system, click "stores" - "stores list" - "add store".
- 2、Enter the store name and click "confirm".

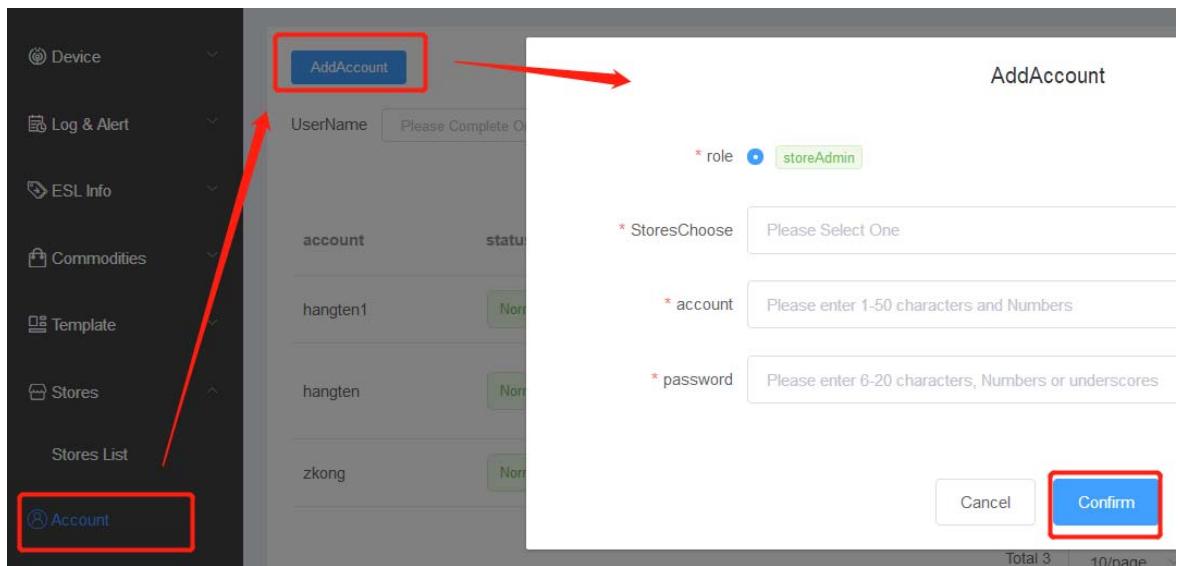




(4)Add new store manager account

1. Click "account " - "add account";
2. Select the newstore;
3. Fill in the user name and password;
4. Click"Confirm" to complete it;





(5)Added/Edited Template classification and Template Type.

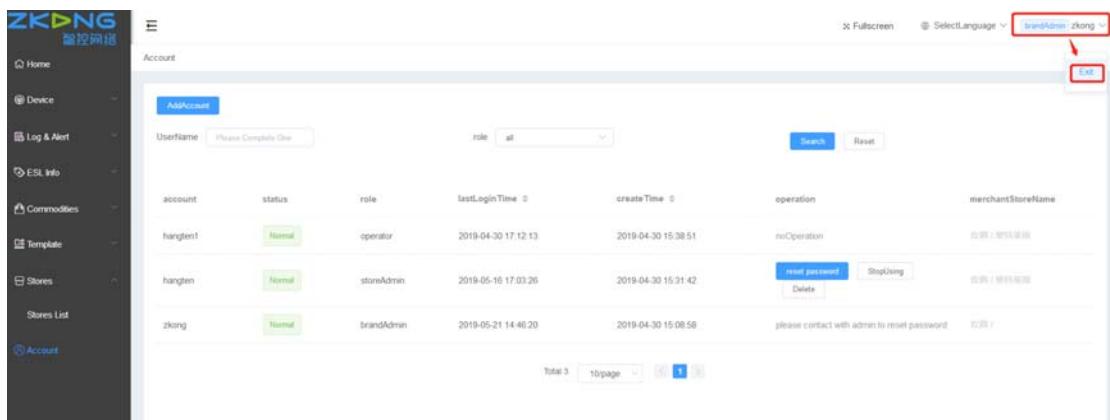
Template classification and template type are the identification fields of commodity matching templates. It's used in both commodity and template modules, so you need to set it up in advance.

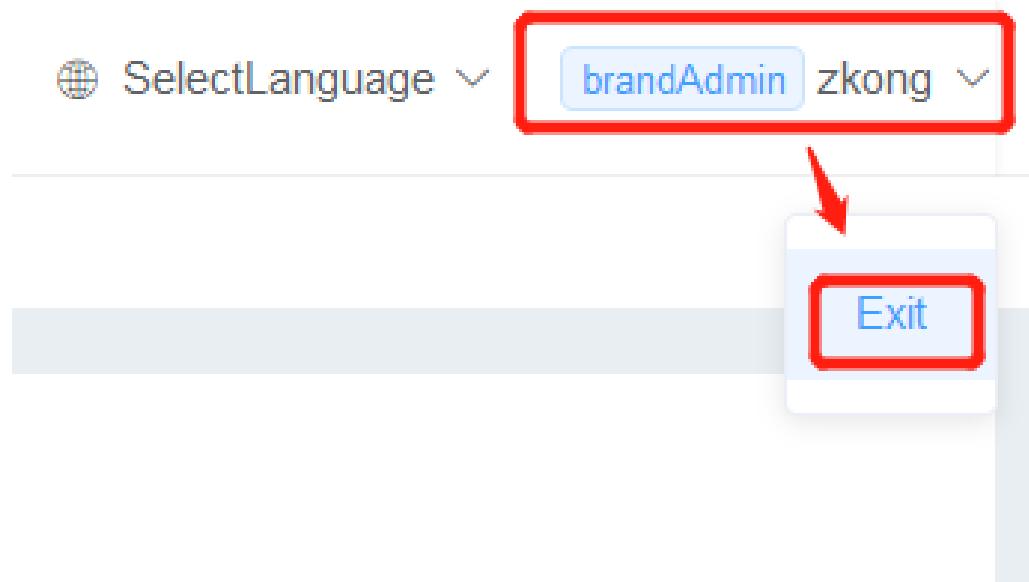
(6)Add merchant template

Store template module, can be imported into the business template.Templates created in the business template module, all stores can be copied to stores, reuse, saving time for each store to make its own template.

(7)Login with the store manager's account

1. Click the login account in the upper right corner and log out.Log out your current login account.
2. Login with the new store manager's account and password.



A screenshot of a login form titled "登录" (Login). The form consists of several input fields and labels. The first field is a text input with a placeholder "请输入用户名" (Please enter username) and an error message "用户名不能为空" (Username cannot be empty). The second field is a password input with a placeholder "请输入密码" (Please enter password) and an error message "密码不能为空" (Password cannot be empty). Below these is a checkbox labeled "请输入验证码" (Please enter verification code) next to a CAPTCHA image showing the text "21178A". At the bottom is a large blue "登录" (Login) button.

3. Add the store template

1. Click "template" - "store template" to enter the page of store template
2. Click "new store template" to enter the new template page

Template > Store Template

ID	name	resolution	ESL Model	TemplateType	Promotion	Trace	preview	operation
398	a	250*122	NTC21S	shownormal	false	false		<button>Modify</button> <button>Delete</button>

TemplateType all

ID	name
398	a

3. Edit the basic setting information of the template

- (1) Fill in the template name
- (2) Select the scene."Normal " means the display after binding the goods, and "Unbinding" means the display of ESL unbinding
- (3) Select size, resolution, color and model.
- (4)Select the template type, which is used to match the corresponding attribute of the commodity.(Remarks: only commodity with the same template attributes are binding with the corresponding ESLs, and the corresponding ESL will show the template)
- (5) Click "detail".

Basic Setting

Template Name:

Show:

Size:

Resolution: 152*152

Color: blackwhited

Model: NTC15S

Template Type: Trace Promotion

Basic Setting

Template Name:

Show:

Size:

Resolution: 152*152

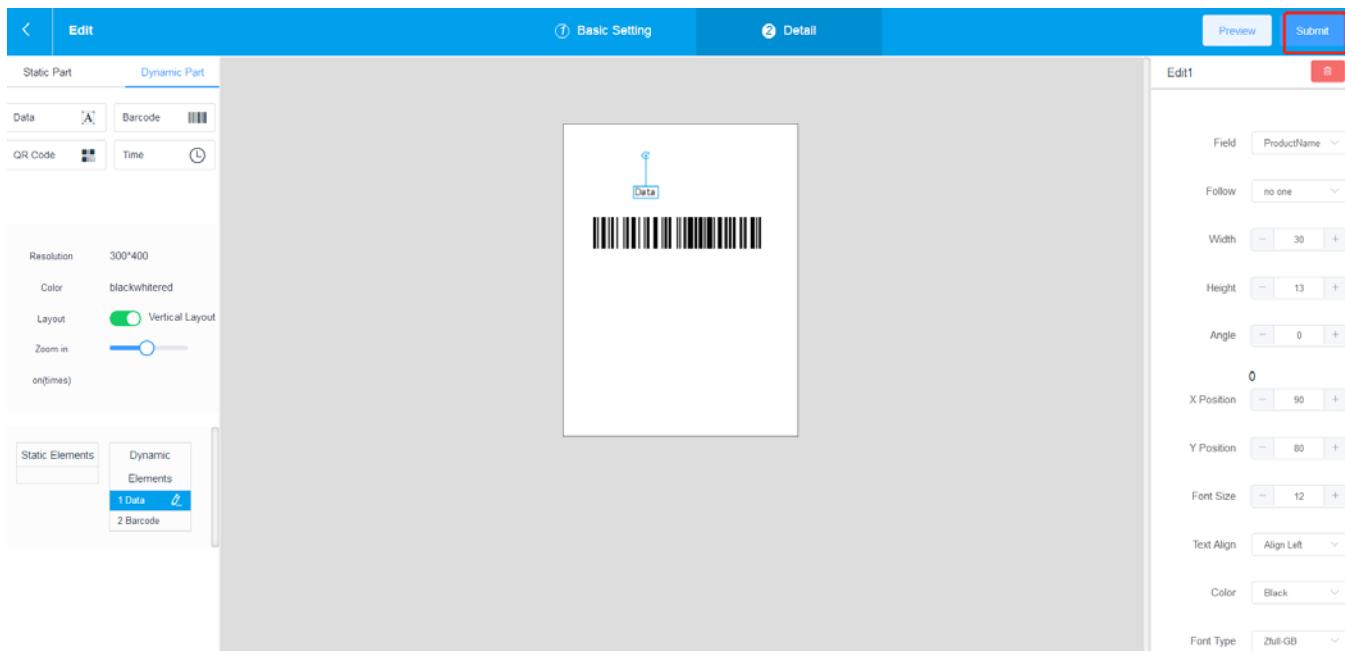
Color: blackwhited

Model: NTC15S

Template Type: Trace Promotion

4. Edit template details

- (1) Add elements according to requirements and edit it.
- (2) After completion, click the “submit” in the upper right corner.

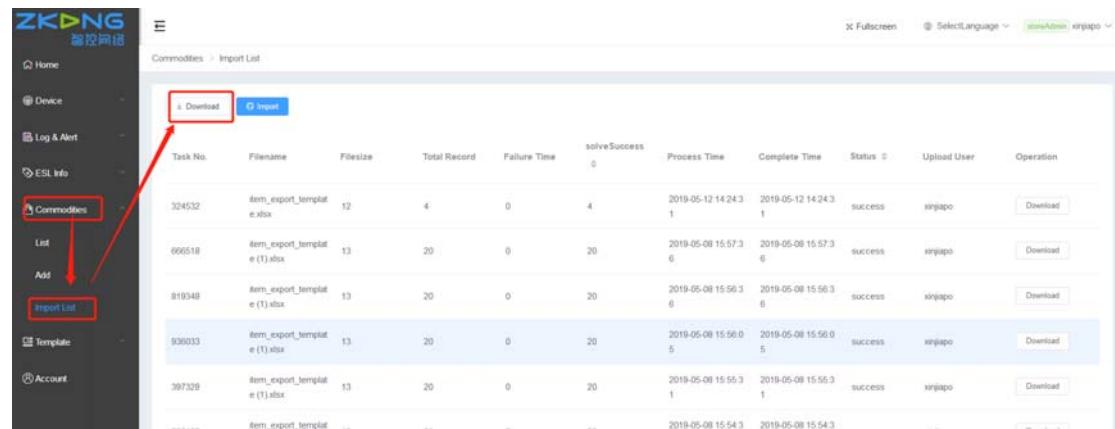


Field ProductName ▾

4. Import commodity information

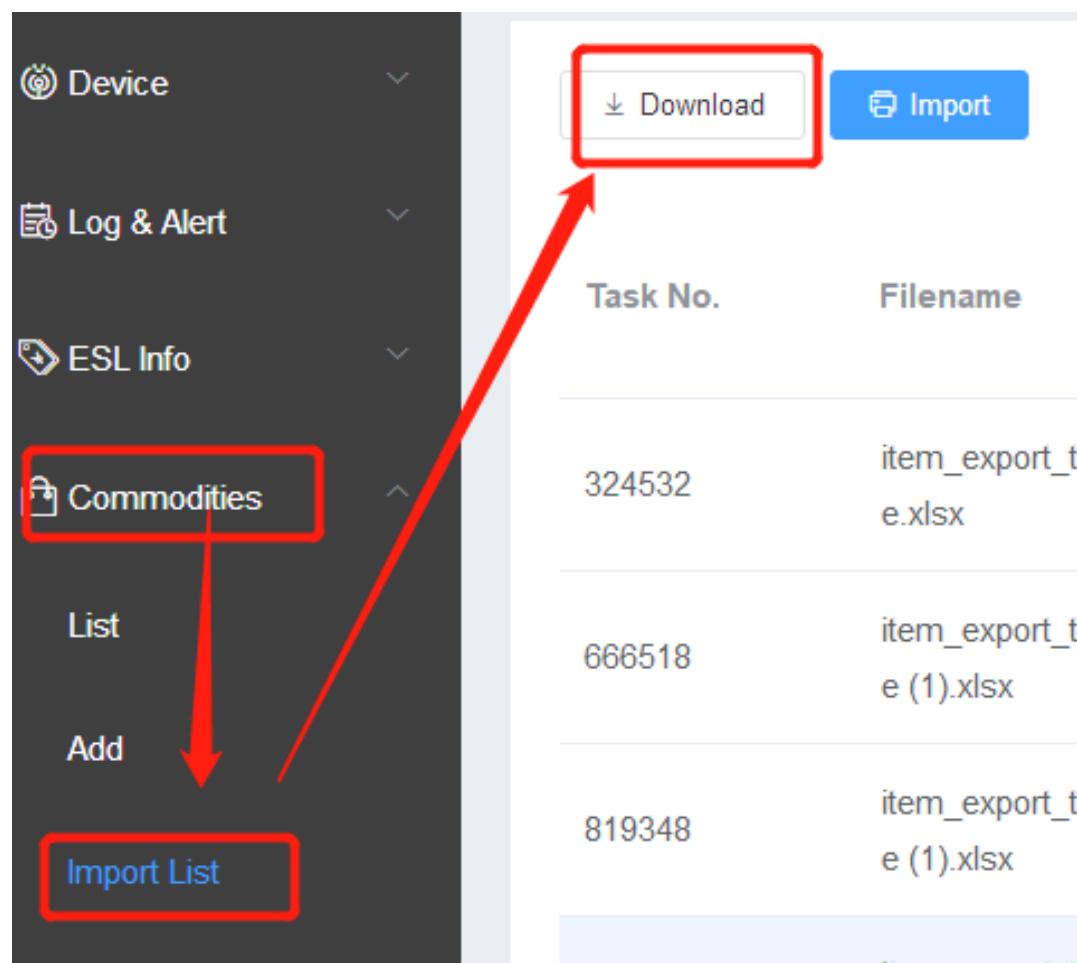
(1) Download the product information template

Click "commodities" — "import list" — "download"



The screenshot shows the ZKONG web interface with the following navigation path: Home > Commodities > Import List. The main content area displays a table of import tasks with columns: Task No., Filename, Filesize, Total Record, Failure Time, solveSuccess, Process Time, Complete Time, Status, Upload User, and Operation. The 'Download' button in the top right of the table header is highlighted with a red box. The sidebar on the left has a 'Commodities' section with 'List', 'Add', and 'Import List' buttons, all of which are highlighted with red boxes.

Task No.	Filename	Filesize	Total Record	Failure Time	solveSuccess	Process Time	Complete Time	Status	Upload User	Operation
324532	item_export_template.xlsx	12	4	0	4	2019-05-12 14:24:31	2019-05-12 14:24:31	success	xinjapo	<button>Download</button>
666518	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:57:36	2019-05-08 15:57:36	success	xinjapo	<button>Download</button>
819348	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:58:36	2019-05-08 15:58:36	success	xinjapo	<button>Download</button>
936033	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:58:05	2019-05-08 15:58:05	success	xinjapo	<button>Download</button>
397328	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:55:31	2019-05-08 15:55:31	success	xinjapo	<button>Download</button>



The screenshot shows the ZKONG web interface with the following navigation path: Home > Commodities > Import List. The main content area displays a table of import tasks with columns: Task No. and Filename. The 'Download' button in the top right of the table header is highlighted with a red box. The sidebar on the left has a 'Commodities' section with 'List', 'Add', and 'Import List' buttons, all of which are highlighted with red boxes.

Task No.	Filename
324532	item_export_template.xlsx
666518	item_export_template (1).xlsx
819348	item_export_template (1).xlsx

(2) Fill in the product information in the template

Open the downloaded “item_export_template” table. The item * is a required item. Delete the sample commodity information and fill in the commodity information that you need to import. Column items cannot be removed, added or deleted.

A	B	C	D	E	F	G	H	I
ItemId*	Item Barcode*	SKU No.	Item Name*	Original Price(Unit Cent)	Current Price(Unit Cent)*	Unit*	Level*	Origin
1235	6948939610782	123	Cocacola Cherry Flavor	100	50	pcs	High	USA
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

- **Merchant ID*:** it's provided by Hangzhou Zkong Technical Service Department, please apply to Hangzhou Zkong
- **Store ID*:** click on “System Management”——“Store”, Store ID
- **Item ID*:** fill in it at will, just can be numbers, can't start with 0, in the same store, items ID must be unique, such as: 123123
- **Item Code*:** fill in the item code, in the same store, item code must be unique, such as: 6932571061293
- **Item Title*:** just write the item name, such as: coffee
- **Item Price(unit cent integer)*:** the unit is cent, such as: 8 dollars needs to write 800
- **Item Unit*:** such as: bag
- **Item Grade*:** such as: qualified
- **Item Origin*:** such as: USA
- Item QR Code Link: feel free to fill in, can be used as an entrance to the online mall, such as <https://item.jd.com/100000205012.html>
- Whether to promote(yes true no false): promotion fill in TRUE; no promotion fill in FALSE

After filling in all options, save the item_export_template

(3) Import item_export_template

1. Click "commodities" -- "import list" -- "import" -- "upload import file", select the item_export_template table that has been filled in, and click ok after uploading.
2. View the list page (refresh the page if there is no response within one minute). The first log shows successful processing to upload successfully.
3. If the number of processing failures is more than 0, the error file can be downloaded and opened to check the error cause.

ZKONG 留控网控

Home

Device

Log & Alert

ESL Info

Commodities

List

Add

Import List

Import List

Fullscreen SelectLanguage zhAdm xinjiao

Task No.	Filename	Filesize	Total Record	Failure Time	solveSuccess	Process Time	Complete Time	Status	Upload User	Operation
324532	item_export_template.xlsx	12	4	0	4	2019-05-12 14:24:3	2019-05-12 14:24:3	success	xinjiao	<button>Download</button>
666518	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:57:3	2019-05-08 15:57:3	success	xinjiao	<button>Download</button>
819348	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:56:3	2019-05-08 15:56:3	success	xinjiao	<button>Download</button>
936033	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:56:0	2019-05-08 15:56:0	success	xinjiao	<button>Download</button>
397328	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:55:3	2019-05-08 15:55:3	success	xinjiao	<button>Download</button>
626102	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:54:3	2019-05-08 15:54:3	success	xinjiao	<button>Download</button>
	item_export_template					2019-05-08 14:53:4	2019-05-08 14:53:4			

Device

Log & Alert

ESL Info

Commodities

List

Add

Import List

Import List

Download

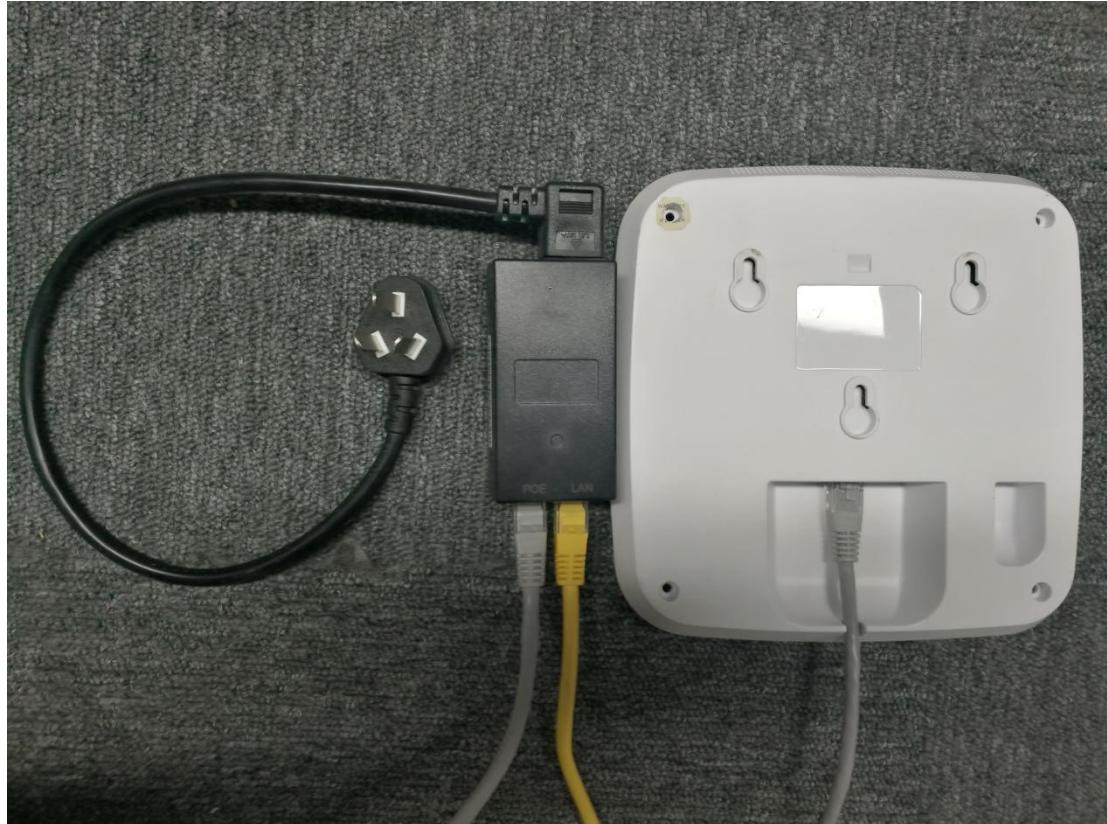
Import

Task No.	Filename
324532	item_export_template.xlsx
666518	item_export_template (1).xlsx
819348	item_export_template (1).xlsx

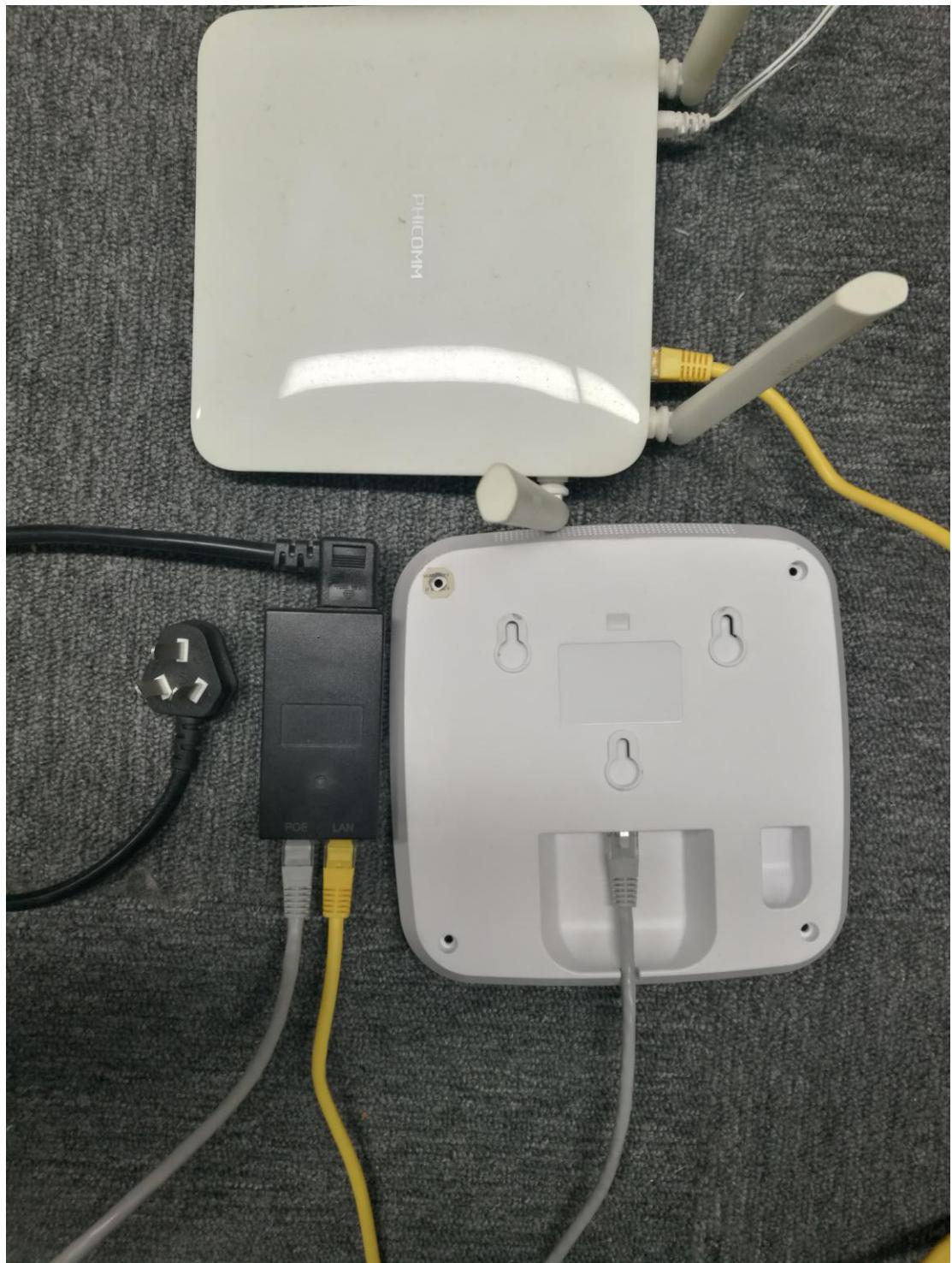
Task No.	Filename	Filesize	Total Record	Failure Time	solveSuccess	Process Time	Complete Time	Status	Upload User	Operation
549820	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:49:47	2019-05-08 15:49:47	success	xinjapo	Download
101814	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:48:18	2019-05-08 15:48:18	success	xinjapo	Download
849579	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:46:02	2019-05-08 15:46:02	success	xinjapo	Download
752321	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:44:29	2019-05-08 15:44:29	success	xinjapo	Download
624578	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:38:26	2019-05-08 15:38:26	success	xinjapo	Download
142209	www.xlsx	13	8	0	0	2019-05-06 16:13:25	2019-05-06 16:13:25	success	xinjapo	Download Result
194671	eee.xlsx	13	11	0	11	2019-05-06 15:41:37	2019-05-06 15:41:37	success	xinjapo	Download

5. Connect base station

1. Take out PoE power injector, plug in inset socket, and connect PoE port of PoE injector to base station(white cable connection).



2. The LAN port of the PoE injector is connected to the router, as shown in the figure below
Remarks: the router's address is allocated automatically.



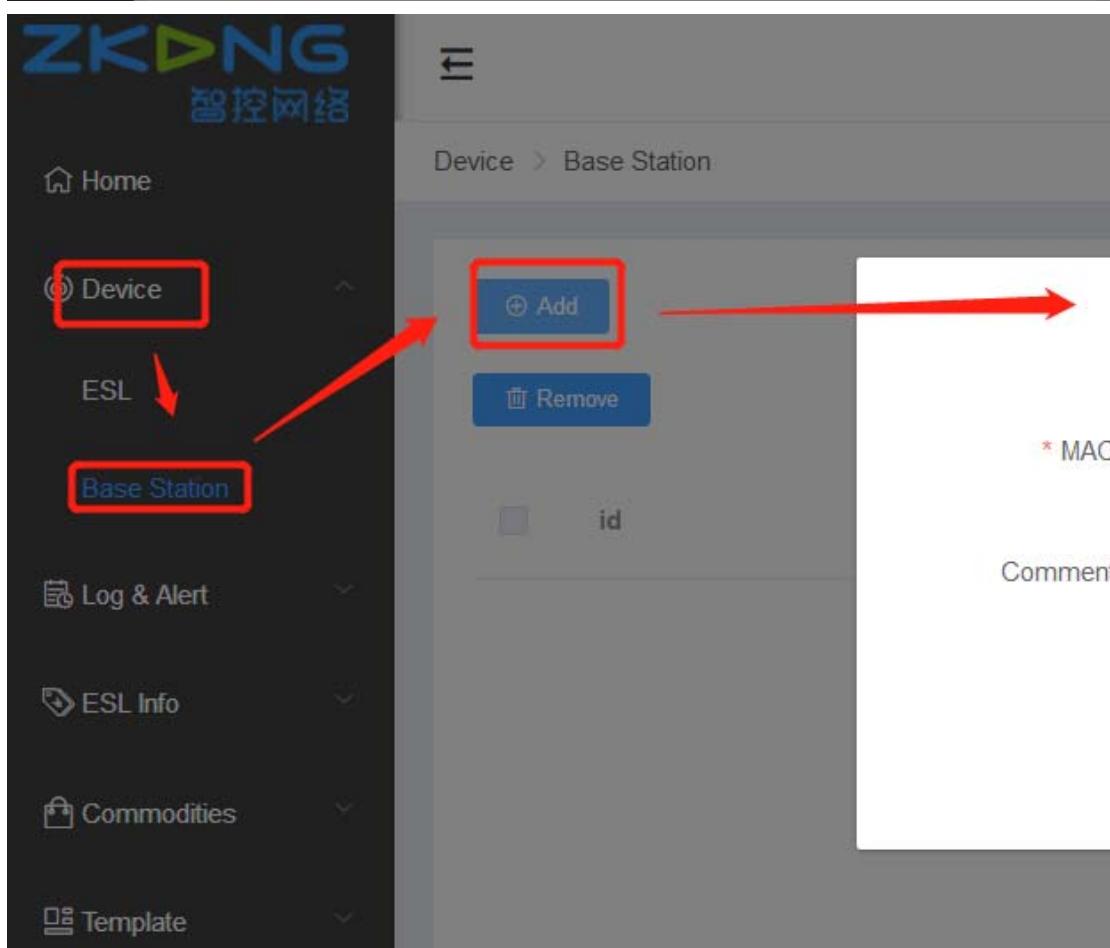
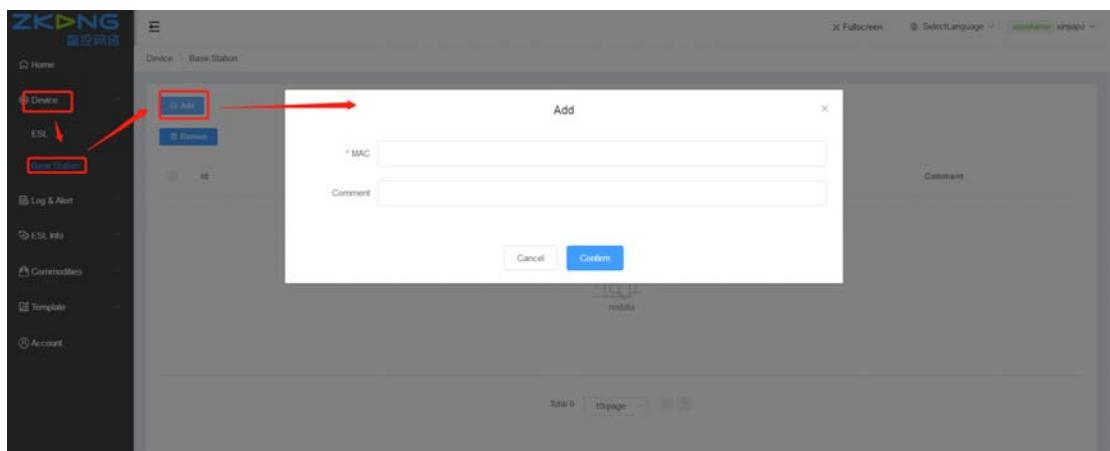
3. Activate ESL

ESL will be placed around the online AP (within a radius of 15m) and will be activated automatically in 10 minutes.



6.Add AP

After logging in, enter the system, click "device" -- "base station" -- "add", and pop up the window "Add".



Example as follows:

Device MAC: There is a device MAC on the back of the base station. Please fill in the MAC address in the red box as below. The MAC address A0A3xx, (0 is zero, not the letter O).

电源额定值: == 48V, 0.2A POE

S/N: 
61AP000218900059

MAC: 
A0A3B87003A0

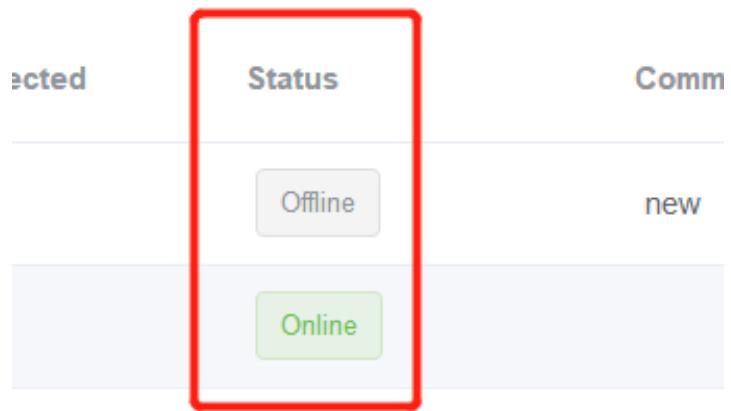


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Done, click "Confirm" to check the AP state of the in the list.

The screenshot shows the ZKONG monitoring network software interface. The left sidebar includes options like Home, Device (selected), ESL, Base Station, Log & Alert, ESL Info, Commodities, Template, and Account. The main content area is titled 'Device > Base Station' and shows a table with two entries. The columns are Id, MAC, Model, Online Duration, Offline time, ESL Connected, Status, and Comment. The first entry (Id 95) has an 'Offline' status. The second entry (Id 81) has an 'Online' status, which is highlighted with a red box. The 'Status' column for entry 81 contains two buttons: 'Offline' (disabled) and 'Online' (highlighted).

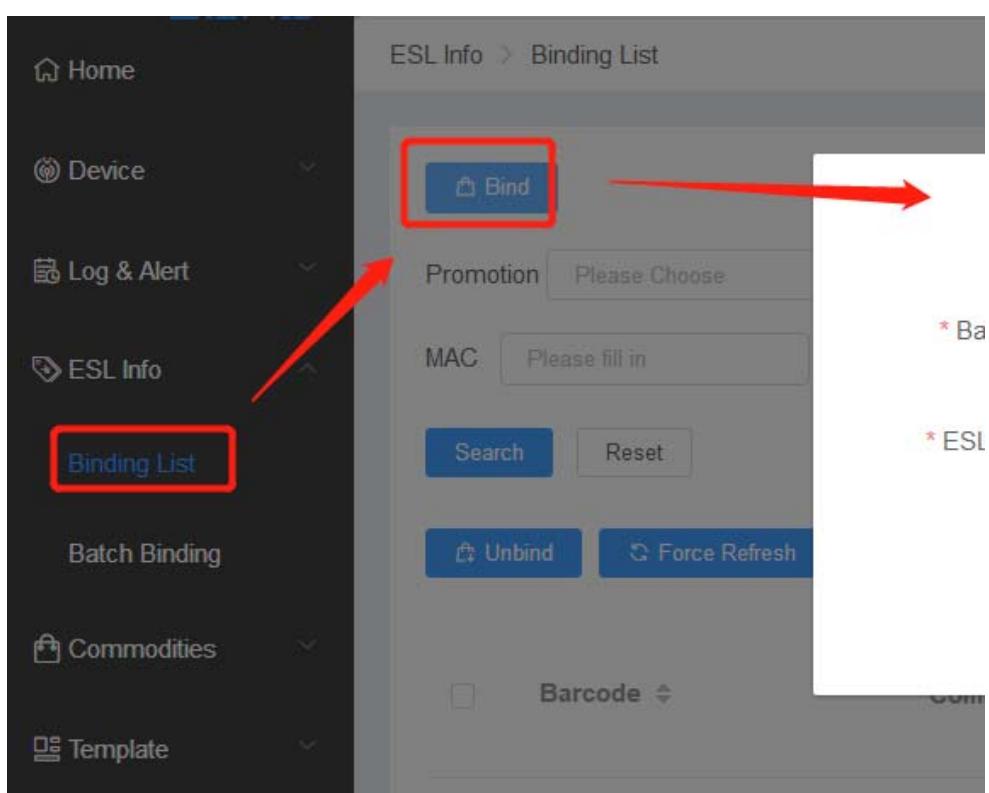
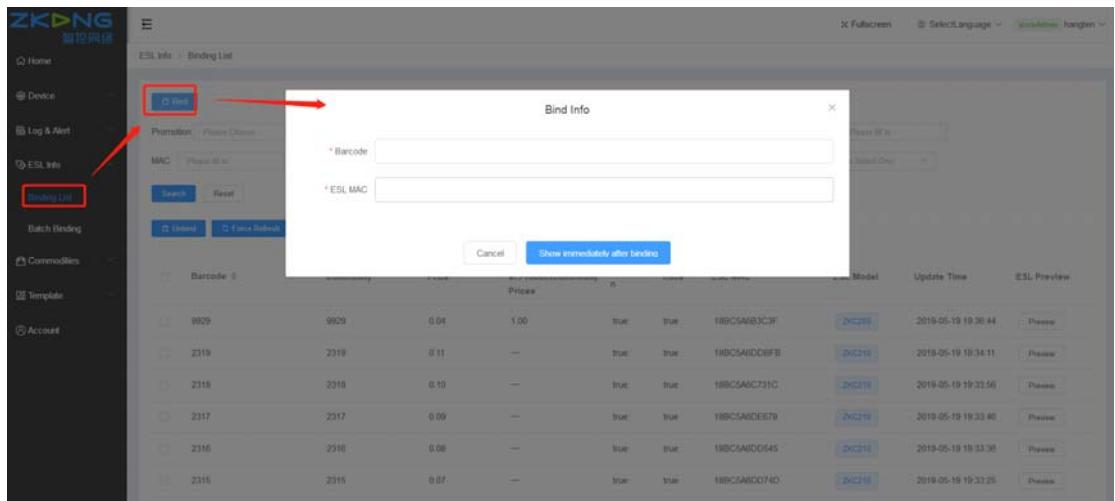
	Id	MAC	Model	Online Duration	Offline time	ESL Connected	Status	Comment
	95	AGA3B8700A30	AG101_DB	2019-05-19 13:29:32	2019-05-19 19:52:07	-1	Offline	
	81	AGA3B8700BB0	AG101_DB	2019-05-20 16:14:52	2019-05-20 16:14:52	-1	Online	new



7. ESL binding with the commodity

7.1 Single binding

Click "bind" on the page of "binding list" - "binding list", fill in the barcode of goods to be binding and the barcode of ESL in the popup of binding relationship, and click "show immediately after binding".



7.2Batch binding

1、Download batch binding template.Click "ESL info" - "batch binding"- "download template ", download the template.

ESL Info > Batch Binding										
Task No.	Filename	Filesize	Total Record	Failure Time	solveSuccess	Process Time	Complete Time	Status	Upload User	Operation
356545	119.xlsx	11	19	0	19	2019-05-19 19:06:03	2019-05-19 19:06:03	success	hangtian	<button>Download</button>
965209	119.xlsx	11	6	0	6	2019-05-19 18:43:44	2019-05-19 18:43:44	success	hangtian	<button>Download</button>
679500	119.xlsx	11	50	0	50	2019-05-19 18:00:51	2019-05-19 18:00:51	success	hangtian	<button>Download</button>
113817	119.xlsx	14	155	0	155	2019-05-19 18:55:20	2019-05-19 18:55:21	success	hangtian	<button>Download</button>
569071	119.xlsx	11	20	0	20	2019-05-19 16:53:35	2019-05-19 16:53:35	success	hangtian	<button>Download</button>
979512	119.xlsx	12	91	0	91	2019-05-19 15:45:13	2019-05-19 15:45:14	success	hangtian	<button>Download</button>
200378	119.xlsx	11	9	0	9	2019-05-19 15:40:47	2019-05-19 15:40:47	success	hangtian	<button>Download</button>
448216	119.xlsx	18	370	0	370	2019-05-19 12:15:39	2019-05-19 12:15:41	success	hangtian	<button>Download</button>

Task No.	File
356545	119.xlsx
965209	119.xlsx
679500	119.xlsx
113817	119.xlsx

2、Fill in the commodity barcode and ESL barcode in the template.

	A	B
1	esl barcode	commodity barcode
2	18BC5A6DE729	6948939610782
3		
4		
5		
6		
7		
8		
9		

3、Import the template document of the filled information.

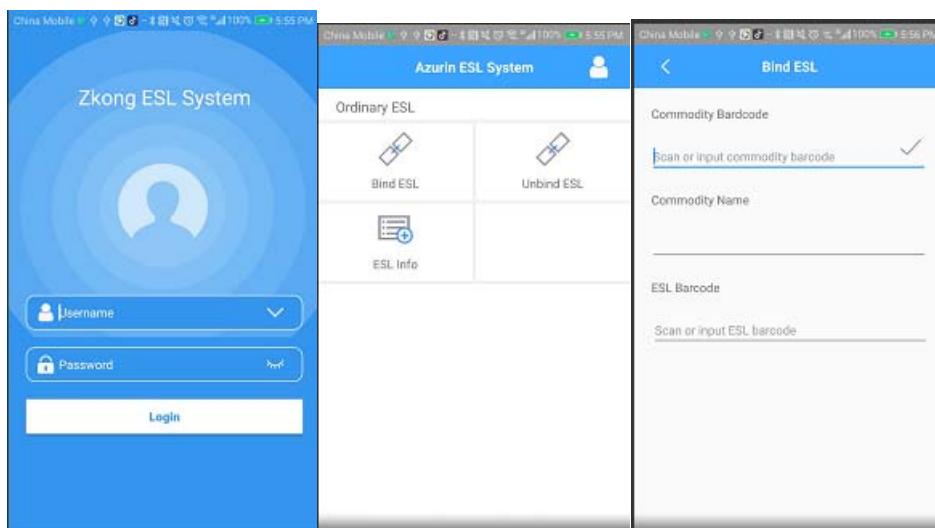
7.3Using PDA binding

(1) turn on and connect to WiFi

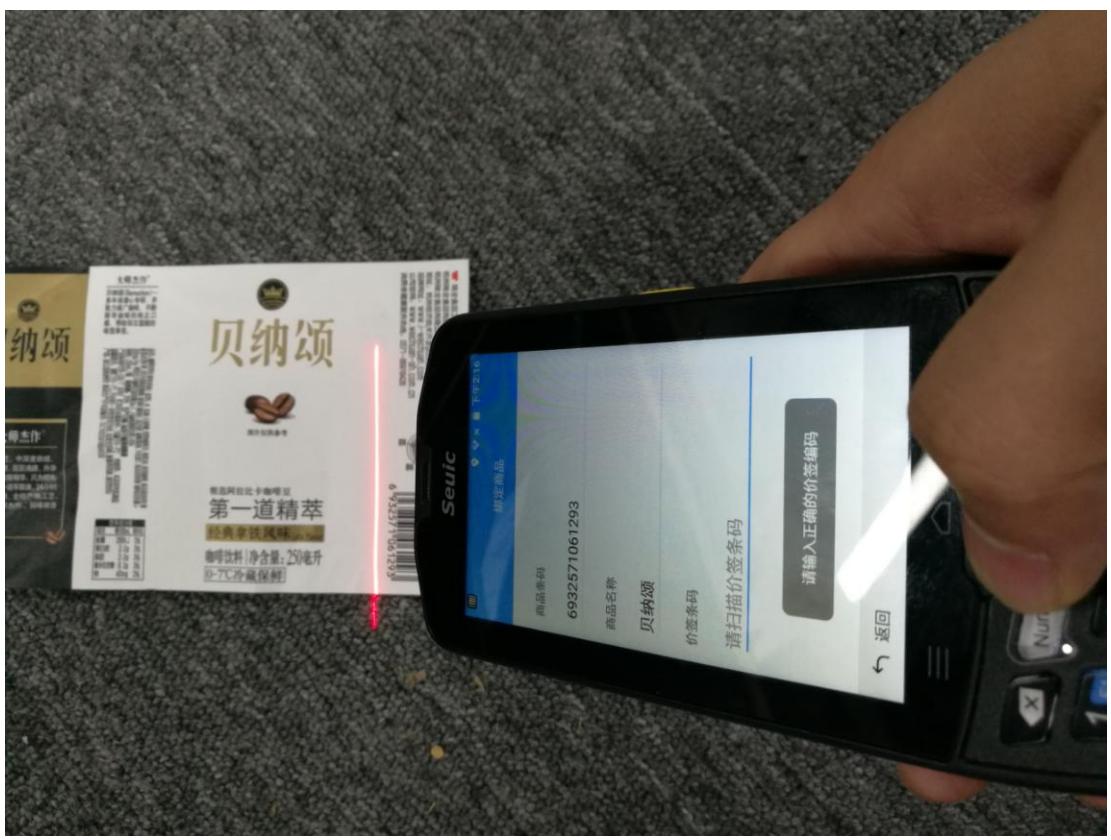
PDA has a small power button on the top, long press for switch, short press for wake up screen. After wake up, PDA can be connected to the Internet, the same operation as the mobile phone.

(2) Use the APP

Open the "Zkong ESL" app in PDA, enter the user name and password of the store manager, and then click "bind ESL".



Press the yellow button in the middle of the PDA (no need of manual input of 69 codes), scan the 69 codes of the product firstly, showing the product name information, and then scan the black bar code of ESL (in the lower right corner of cover). PDA will show "submit successfully" and ESL will display product information automatically.



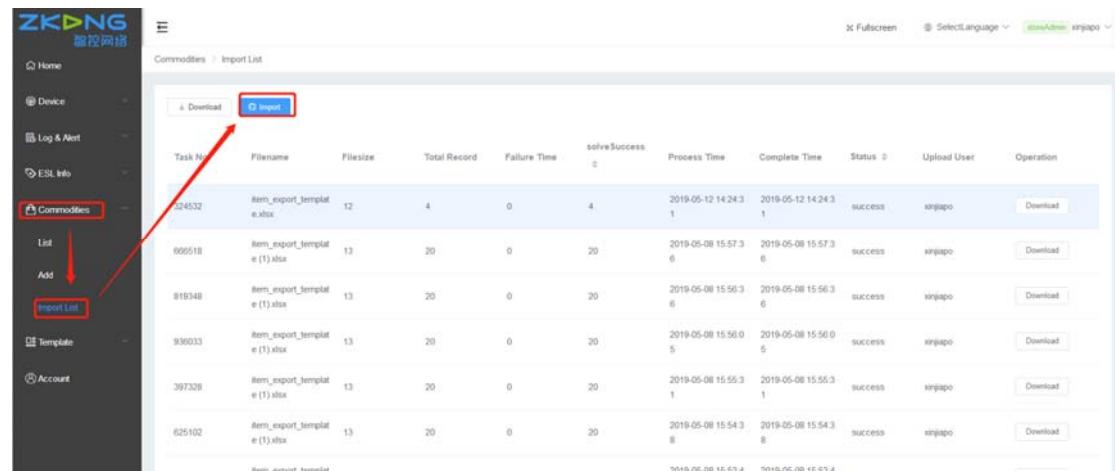
8.Modify product information

(1) Modify product information

Modify the information of the item in item_export_template, and save it after the modification
"Product barcode"cannot be modified.Ifmodified, it will be a new product, which needs to be
re-binding.

(2) Import item_export_template

1. Click "commodities" -- "import list" -- "import" -- "upload import file", select the item_export_template table that has been filled in, and click ok after uploading.
2. View the list page (refresh the page if there is no response within one minute). The first log shows successful processing to be uploaded successfully.
3. If the number of processing failures is more than 0, the error file can be downloaded and opened to check the error cause.



Task No.	Filename	Filesize	Total Record	Failure Time	solveSuccess	Process Time	Complete Time	Status	Upload User	Operation
024532	item_export_template.xlsx	12	4	0	4	2019-05-12 14:24:31	2019-05-12 14:24:31	success	xinjiao	<button>Download</button>
066518	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:57:36	2019-05-08 15:57:36	success	xinjiao	<button>Download</button>
019348	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:56:36	2019-05-08 15:56:36	success	xinjiao	<button>Download</button>
936033	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:56:05	2019-05-08 15:56:05	success	xinjiao	<button>Download</button>
397328	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:55:31	2019-05-08 15:55:31	success	xinjiao	<button>Download</button>
625102	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:54:38	2019-05-08 15:54:38	success	xinjiao	<button>Download</button>
	item_export_template (1).xlsx					2019-05-08 15:53:42	2019-05-08 15:53:42			

Device
Log & Alert
ESL Info
Commodities
List
Add
Import List
Template

Download
Import

Task No.	Filename
324532	item_export_template (1).xlsx
666518	item_export_template (1).xlsx
819348	item_export_template (1).xlsx
936033	item_export_template (1).xlsx

ZKONG
Home
Device
Log & Alert
ESL Info
Commodities
List
Add
Import List
Template
Account

Download
Import

Task No.	Filename	Filesize	Total Record	Failure Time	solveSuccess	Process Time	Complete Time	Status	Upload User	Operation
549620	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:49:47	2019-05-08 15:49:47	success	xinjapo	Download
101814	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:48:18	2019-05-08 15:48:18	success	xinjapo	Download
849579	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:46:02	2019-05-08 15:46:02	success	xinjapo	Download
752321	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:44:29	2019-05-08 15:44:29	success	xinjapo	Download
624678	item_export_template (1).xlsx	13	20	0	20	2019-05-08 15:38:26	2019-05-08 15:38:26	success	xinjapo	Download
142209	www.xlsx	13	8	0	8	2019-05-06 16:13:25	2019-05-06 16:13:25	success	xinjapo	Download Download Result
194671	eee.xlsx	13	11	0	11	2019-05-06 15:41:37	2019-05-06 15:41:37	success	xinjapo	Download

After successful uploading, the corresponding ESL will automatically change the display information

Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, this equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.