

ESL SYSTEM USER MANUAL

Historic Version

| Version number | date | Description | Originator | Reviewer |
|----------------|------------|---|------------|----------|
| 1.0 | 2023/3/31 | Correction Document | Tony | Tony |
| 1.1 | 2023/8/9 | New Features/UI Interface Modifications | Merlin | Tony |
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| 1.3 | 2023/11/14 | Added holiday management and scheduled backup functions | Kris | Tony |

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1. Abstract

1.1 Architecture

System B/S architecture, divided into: Database, Cache processing, front-end web application;
Database refers to a data storage container for storing system and user information (System utilizes MySQL);

Cache processing is used to compare data changes. (System utilizes Redis) ;

The front-end web application is a client-side application based on web browsers, with a default port of 4000.

1.2 System Architecture

The management system deployed on the server is used to provide system administrators and business personnel with information about the system's operational status, daily maintenance, and data queries.

The system is divided into six major module main menus: Home 、 Store Management 、 Data Management、 Data Query、 Template Management、 System Management.

【Store Management】 : Store List, Base Station Management, Electronic Shelf Label Management, Digital Signage Management, Area Management, Advertising Screen Management, Video Service Management;

【Data Management】 : Product Management, Material Management, Shelf Management;

【Data Query】 : Electronic Shelf Label Communication Log, Digital Signage Communication Log, Data Synchronization Log, System Log Query;

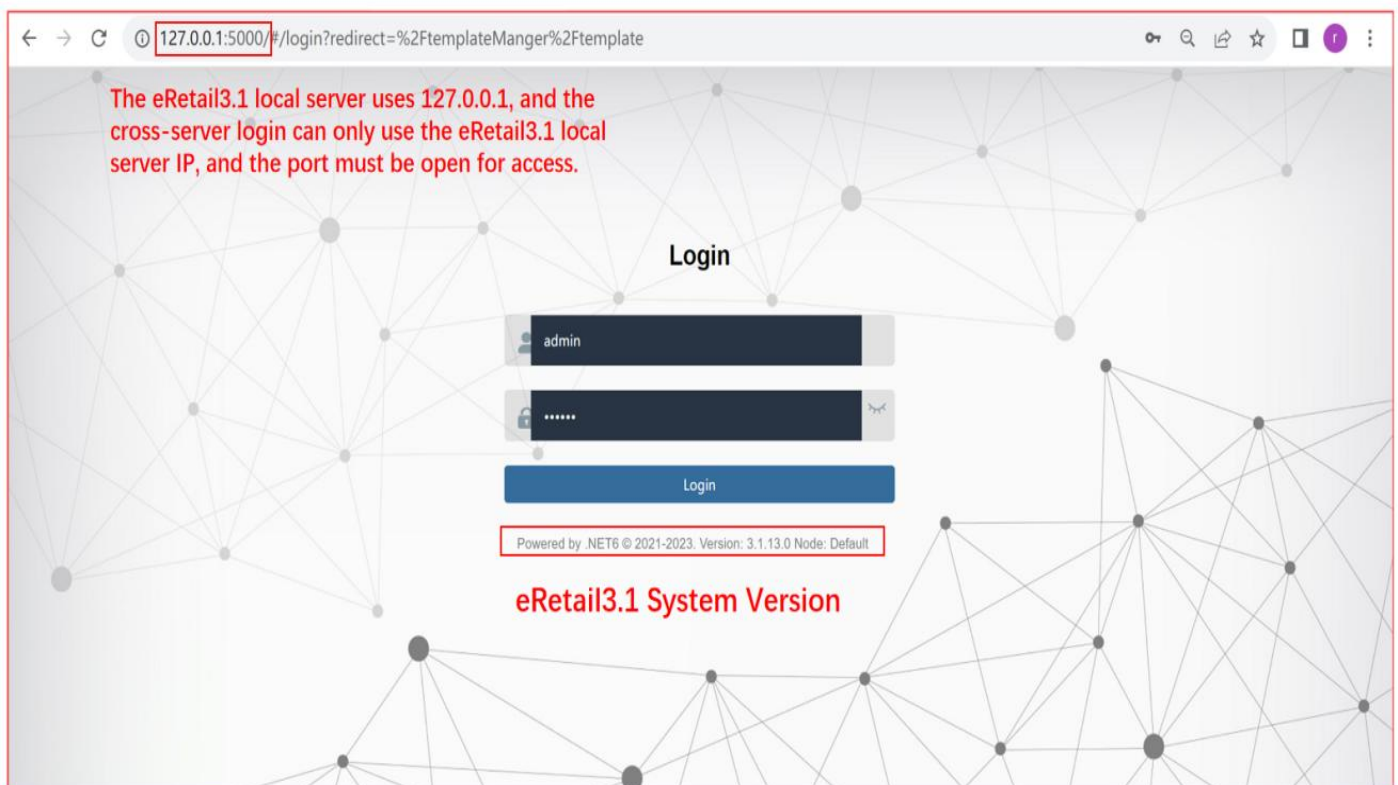
【Template Management】

【System Management】 : User Management, Permission Settings, Organization Structure, Parameter Settings, Admin Tools, System Configuration, System Management, Application Management.

2. System Login

2.1 Login Steps

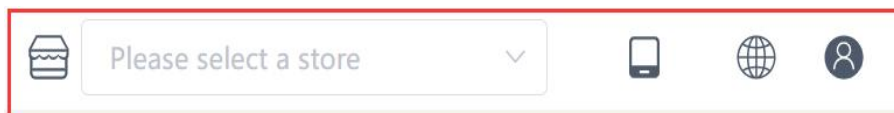
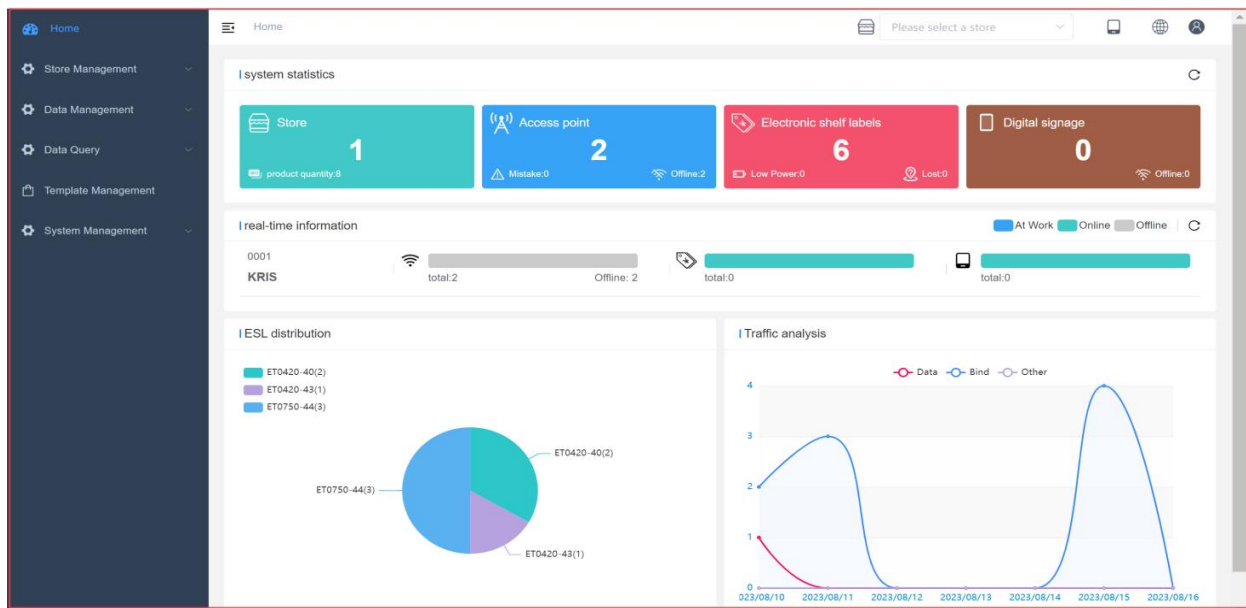
- ✚ Open a web browser (Google is recommended), enter the eRetail3.1 system address in the input bar. The address consists of the server's IP address and port.
- ✚ Enter the account and password (default admin account: admin, password: Pass99).
- ✚ Recommended to add the eRetail3.1 system address to your browser bookmarks or create a shortcut on your desktop for quick access.




3. System Menu Function Introduction

3.1 Home

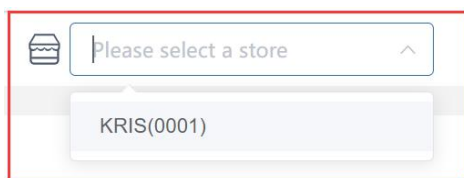
After login, the content of the Home is displayed by default, and no data for the first use.



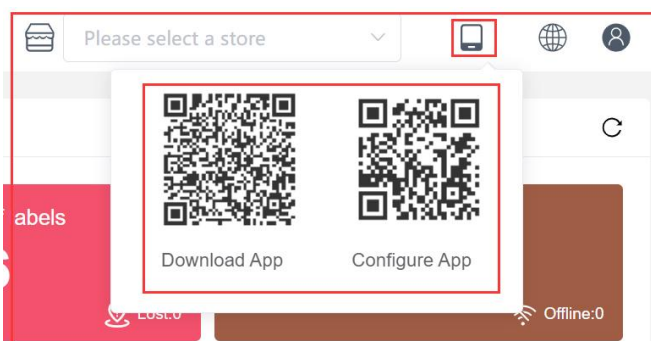
1.Top menu: Fixed page.

(1)  Side menu collapse, open button

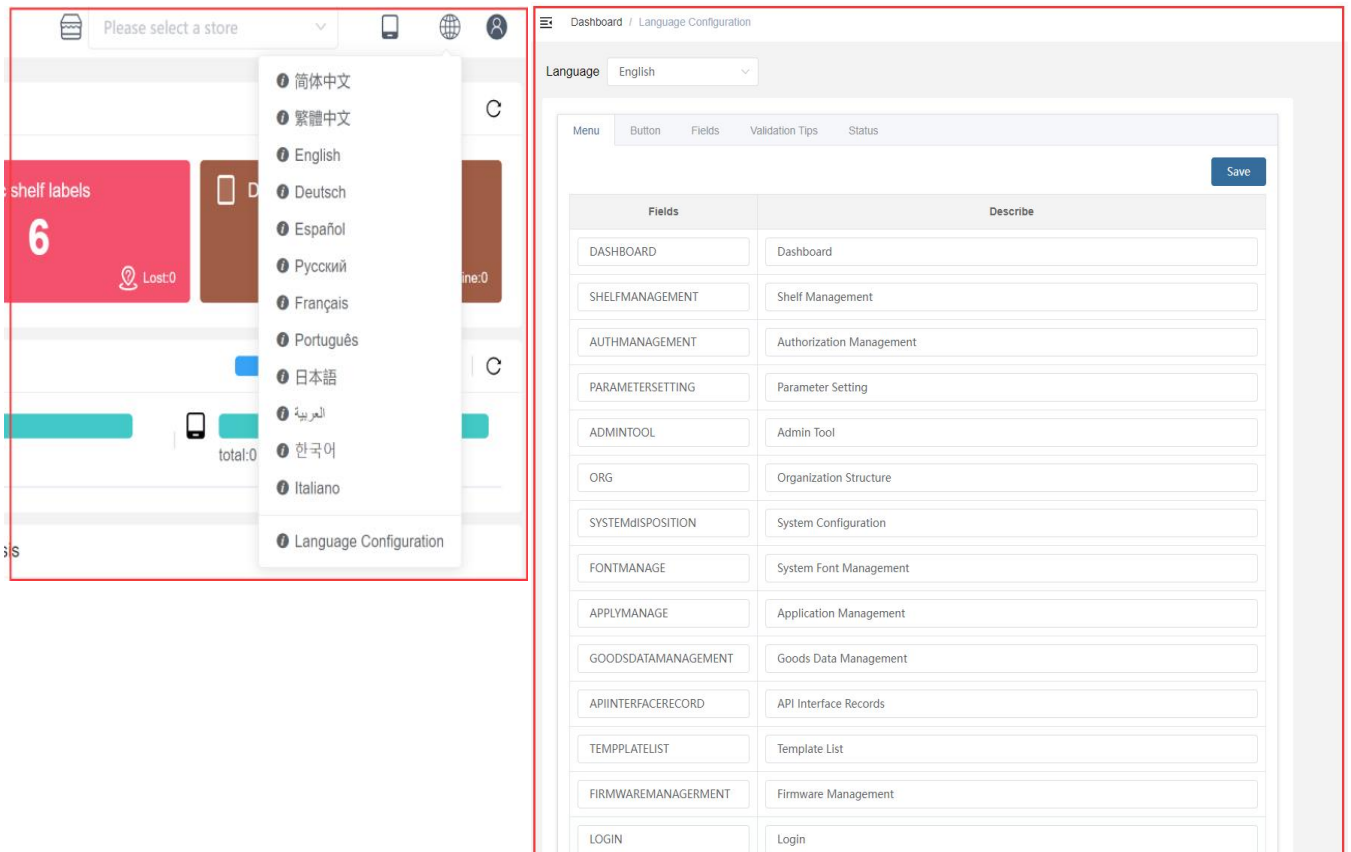
(2) Please select a store: Search and select the store you want to view, and only display the store information;



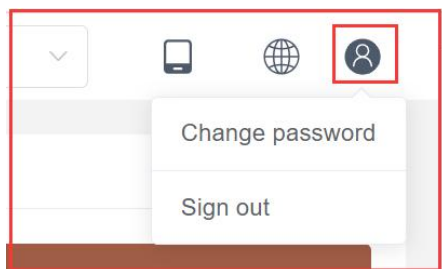
(3) APP configuration menu: Download Android APP and APP Configure;



- (4) System Language menu: You can set the interface language of eRetail3.1 system. Currently, 12 languages are supported, and other languages can be added according to requirements. Click the language setting in the drop-down menu to see the text description of the corresponding field. You can see the text description in other languages through the language selection, and you can modify and save the description;

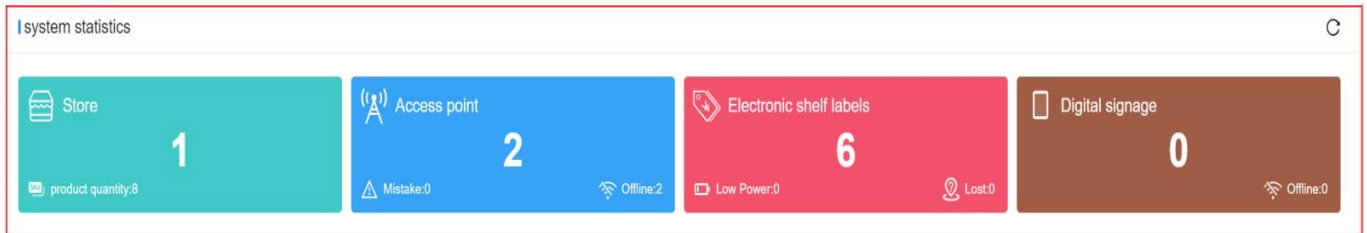


- (5) User: To modify the password of the currently logged-in account and to log out of the eRetail3.1 system (redirecting to the login page).



3.1.1 System Statistics

View the number of all stores (including the number of products), the number of Access points (including the number of status and offline), the number of electronic shelf labels (including the number of low battery and lost labels) and the number of digital signage(including Offline Quantity) under the eRetail3.1 system . Click the corresponding color square to jump to the corresponding side menu;



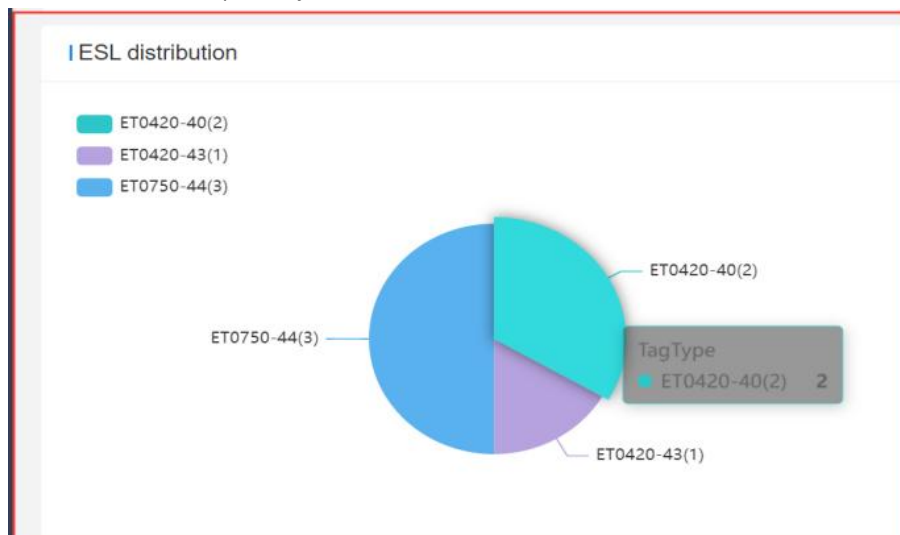
3.1.2 Real-time Information

- **P1** Display the number of stores under the eRetail3.1 system, display the store number (not the customer store number)、store name.
- **P2** The area displays the number of AP in the corresponding store, the total number on the left, and the offline number or the number in work on the right (this part is the same in the latter two areas).
- **P3** The area displays the number of ESL that the corresponding store is communicating with.
- **P4** The area displays the corresponding store 【Digital signage - LCD ESL】 quantity and offline and working status



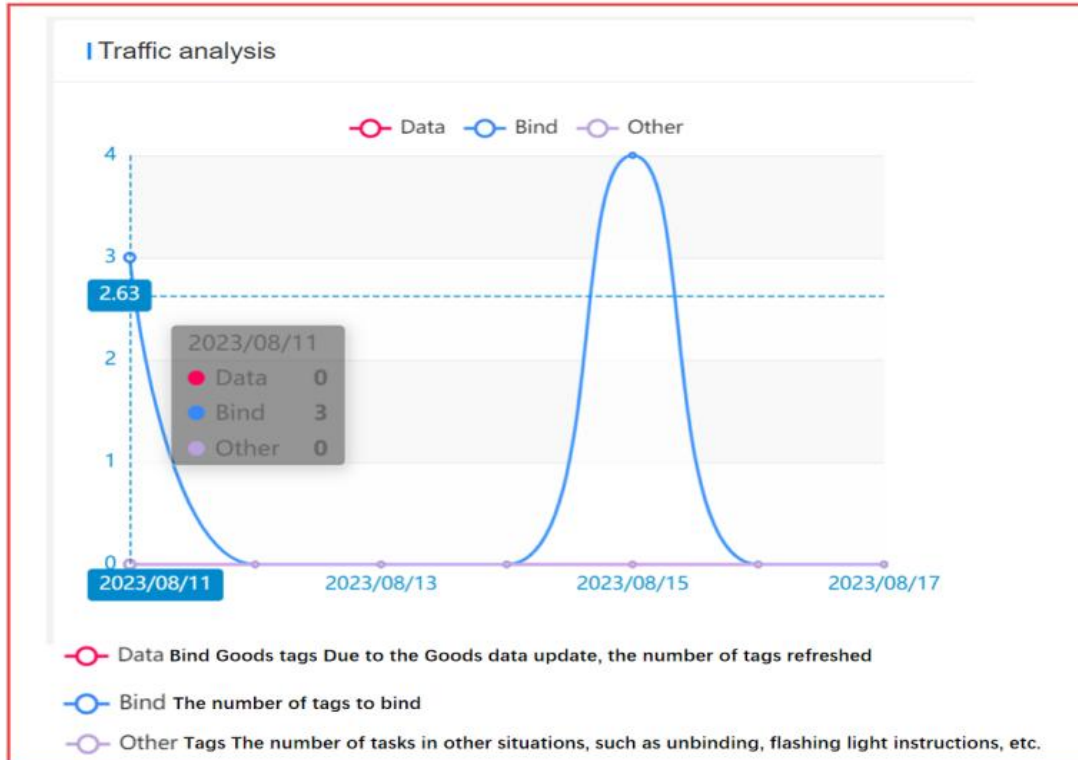
3.1.3 ESL Distribution

Pie chart of the quantity of ESL and LCD ESL of each size.



3.1.4 Traffic Analysis

View the trend changes in the data of the day's bound tags Goods update, tags and Goods binding, tags unbinding, and flashing light situation for a week.



3.2 Store Management

Store Management

- Store List
- Base Station Management
- Electronic Shelf Label Management
- Digital Signage Management
- Area Management
- Advertising Screen Management
- Video Service Management

Please select a store

+ Add

| Store Number | Customer Store Number |
|--------------|-----------------------|
| 0001 | 0001 |
| 0002 | 0002 |

3.2.1 Store List

For creating new stores.

The screenshot shows the 'Store List' interface. At the top, there is a search bar with four criteria: 'Please select a store' (dropdown), 'Customer Store Number', 'Store Name', and 'All' (dropdown), followed by a 'Search' button. Below the search bar is a '+ Add' button. The main area contains a table with the following columns: Store Number, Customer Store Number, Store Name, Store address, Store status, Last Update, and Operate. The table contains one row with the following data: Store Number: 0001, Customer Store Number: 0001, Store Name: KRIS, Store address: (empty), Store status: Enable, Last Update: ©2023-08-0, and Operate: (edit and delete icons).

(1) Upper left search bar with four search criteria and one search button.

This screenshot is similar to the previous one but includes annotations. A green text box on the left says 'Dropdown filter criteria, you can enter Store information for corresponding store data search'. A green text box on the right says 'Dropdown filter criteria, cannot be entered as a fixed value'. The search bar dropdown menu is open, showing options: 'All', 'Enable', and 'Disabled'. The table below shows the same data as the previous screenshot.

The screenshot shows the 'Add' form for creating a new store. The form has a title 'Add' and a note '* is required'. The fields are:

- * Store Number: Text input field.
- * Customer Store Number: Text input field.
- * Store Name: Text input field.
- Store address: Text input field.
- * Organization: Dropdown menu with 'ETAG-TECH' selected.

Store Number: eRetail3.1 system store number, 4 digits, the value filled in cannot be repeated.

Customer Store Number: The customer's store number, the length is not required, and the filled value is usually determined by the docking data and cannot be repeated.


Store Name: The name of the customer's store, such as a New Zealand department store supermarket.

Store address: Customer store address, optional.

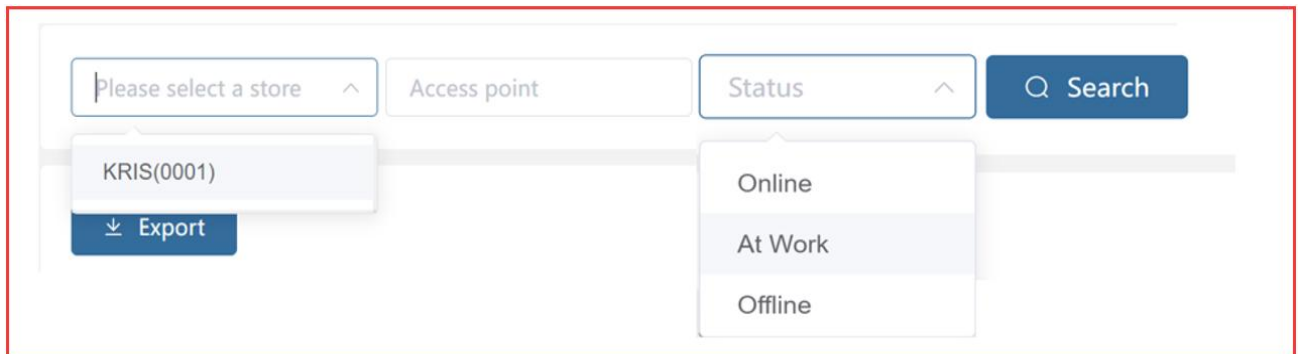
Organization: The largest organization: ETAG-TECH, other organizations are managed by this organization.

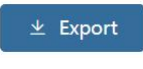

3.2.2 Base Station Management

Mainly check base station information.

| Store Number | Access point | Access point name | IP | MAC | Status | Offline count | Firmware | Last online time | Operate |
|--------------|--------------|---|---------------|-------------------|---------|---------------|----------|------------------|---|
| 0001 | 01 |  | 192.168.8.106 | 02:81:CC:27:DA:B3 | Offline | 17 | 1.0.115 | 2023-08-16 1 |  |
| 0001 | 02 |  | 192.168.8.126 | 02:81:B1:DA:39:98 | Offline | 7 | 1.0.115 | 2023-08-16 1 |  |

- **Store Number:** eRetail3.1 system store number (the same meaning will not be explained in the follow-up menu).
- **Access point:** Base station ID, consisting of two digits, is determined by configuring the input information parameters of the base station, and cannot be repeated!
- **Access point name:** Customize the name of the base station, which can be modified at any time.
- **IP:** The input information parameters of the configuration base station are determined. The base station has a fixed IP, and the IP cannot be repeated. If it is mapped to the external network, this IP is not the IP used by the actual base station.
- **MAC:** Base station MAC, each base station has a unique MAC value.
- **Status:** Offline, online, at work. Usually offline means that the base station cannot access the background of the eRetail3.1 system, and working means that the base station is processing the sending task.
- **Offline count:** The number of times the base station failed to access the eRetail3.1 system background within the period (heartbeat).
- **Last online time、Last offline time、Last working time、Last heartbeat time**
- **Last heartbeat time:** The base station is offline, the time of the last heartbeat on eRetail3.1.



- (1) Top left search bar, three search criteria and a search button.
- (2) Operation button
- (3)  Export the Excel table of the base station display information;
- (4)  Online base stations cannot be deleted, but offline base stations can be deleted;

3.2.3 Electronic Shelf Label Management

Functional operations such as ESL status query, bound Goods status, ESL binding, unbinding, combined binding, refresh, import, export, etc.

| Store Number | ESL ID | ESL type | UPC | Status | Electricity | Signal strength | Temperature | Communication count | Communication base station | Operate |
|--------------|--------------|-----------|----------------|--------|-------------|-----------------|-------------|---------------------|----------------------------|---------|
| 0001 | 4400000A90C8 | ET0750-44 | 012023081 5 | Idle | 100% | -65 | 25 | 4/5 | 02 | |
| 0001 | 430000078B27 | ET0420-43 | 13338 | Idle | 100% | -39 | 26 | 2/2 | 01 | |
| 0001 | 4000000E58D | ET0420-40 | 3001 | Init | — | — | — | 0/0 | | |
| 0001 | 40000007E72 | ET0420-40 | | Init | — | — | — | 0/0 | | |
| 0001 | 440000010473 | ET0750-44 | 3002 | Init | — | — | — | 0/0 | | |
| 0001 | 4400000708DC | ET0750-44 | 1002 | Init | — | — | — | 0/0 | | |

- The field column (top) is selected for the current page, and the label information column is selected for the label. After selecting, you can perform operations on the top button menu; (the same meaning in the subsequent menus will not be explained)
- **ESL ID:** The value of the tag barcode, each tag has a unique value, which can be called the tag ID, device ID;
- **ESL type:** The device type can be distinguished by the tag ID, and the first two digits of the tag ID correspond to the tag type;
- **UPC:** Commodities that are bound and displayed by this tag, empty means unbound or unbound. UPC is the Goods data field corresponding to the customer's GoodsCode selected in the template parameter configuration during data docking. Click here to view the detailed information of the Goods;
- **Status:**
 - Init: Unused tags, imported into eRetail3.1 system for the first time.
 - Idle: Non-working tag.
 - Low power: The voltage of frozen tags is lower than 2.2V, and the voltage of regular tags is lower than 2.5V.
 - At work: This tag is communicating (refreshing, binding, unbinding, flashing lights, etc.).
 - Fault: The temperature is 0, but the sending is successful (communication is successful).
 - Lost: If the number of sending times is less than 128 and more than 64 times are marked as lost, the process is in failure.
 - Blacklist: Sending more than 128 times eventually failed.
 - Others: Undefined.
 - Electricity:

| Regular tag | | Frozen tag | |
|----------------------|------|----------------------|-----|
| Power \geq 29 | 100% | 24 \leq Power < 26 | 20% |
| 28 \leq Power < 30 | 90% | 23 \leq Power < 25 | 10% |
| 27 \leq Power < 29 | 80% | Power < 23 | 0% |
| 26 \leq Power < 28 | 60% | | |
| 25 \leq Power < 27 | 30% | | |

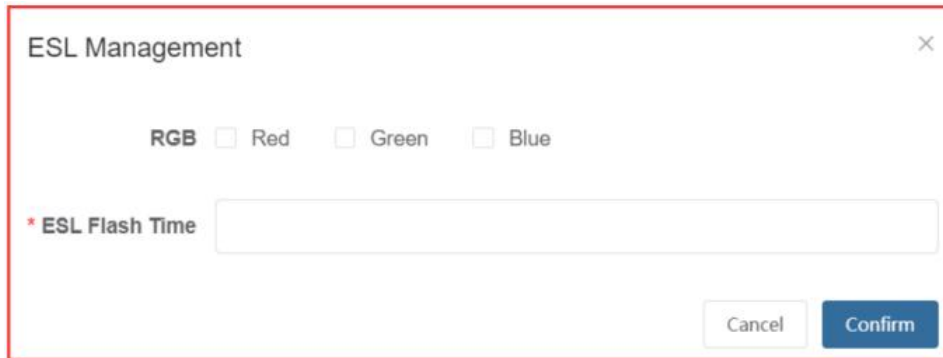
- Signal strength : Communication quality between the base station and the price tag (usually determined by distance and obstacles), the higher the value, the better the communication;
- Temperature: The ambient temperature recorded in the last communication of the tag;
- Communication count : The number of successful communications before the \, and the total number of communications after the \;
- Communication base station: The AP ID used for the last successful connection between the AP and the tag;
- Last sent time
- The upper left search bar, six search criteria and one search button

Tag type filter box: Select size and resolution, select type, different sizes and resolution types are also different, as shown in the figure

(2) Upper left function button bar

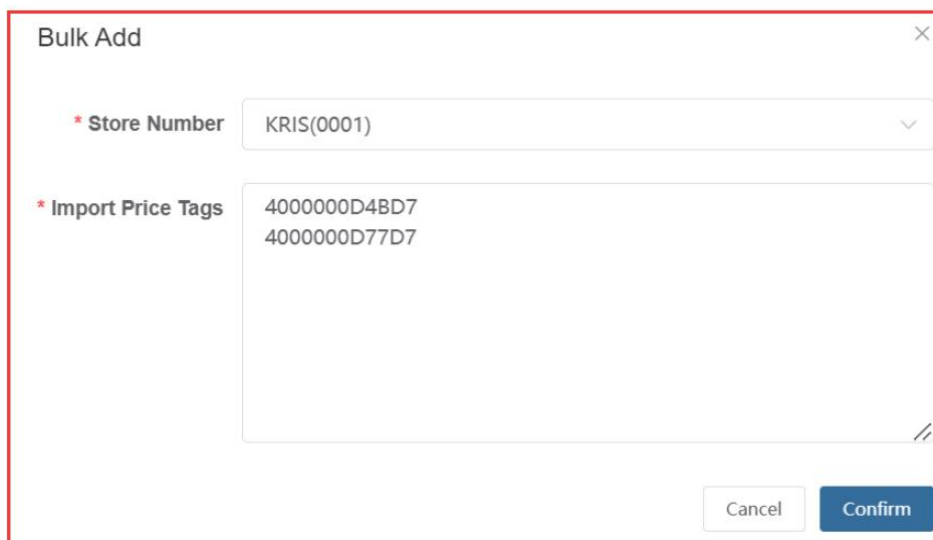
- Delete: Delete the selected ESL, you can delete in batches
- Unbind: Unbind the tag that has been bound to the UPC Goods. After unbinding, the tag will display the unbind screen (this screen can be customized - corresponding to the template code U) and the UPC value will become empty
- Refresh: Communicate with the selected ESL, so that the tag refreshes and displays the content first
- Refresh Specific Base Station: The tag of the same store, communicate with the designated AP for the selected ESL

- Flash: Specify the flashing color and flashing time for the selected ESL, RGB three colors can be customized to form 7 colors to light up



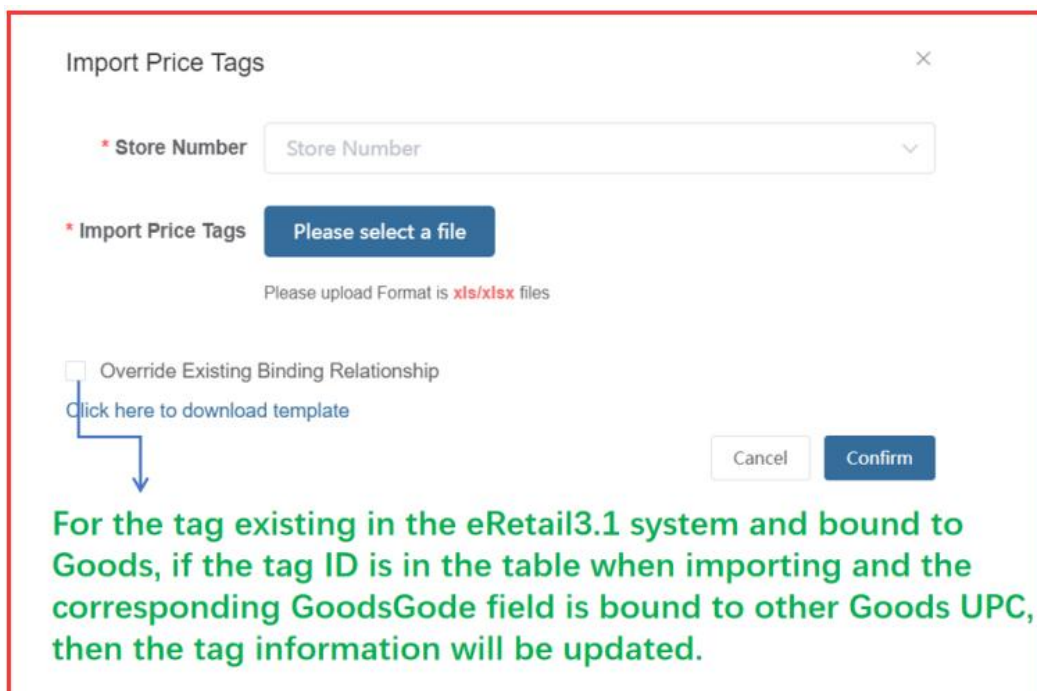
The screenshot shows a dialog box titled "ESL Management" with a close button (X) in the top right corner. Below the title, there are three radio buttons labeled "RGB", "Red", "Green", and "Blue", all of which are currently unselected. Below these is a text input field labeled "* ESL Flash Time". At the bottom right of the dialog, there are two buttons: "Cancel" and "Confirm".

- +Batch Add: Select the store that needs to add a tag, and enter the tag ID in the import option



The screenshot shows a dialog box titled "Bulk Add" with a close button (X) in the top right corner. It contains a dropdown menu labeled "* Store Number" with the value "KRIS(0001)" selected. Below this is a text area labeled "* Import Price Tags" containing two lines of text: "4000000D4BD7" and "4000000D77D7". At the bottom right, there are "Cancel" and "Confirm" buttons.

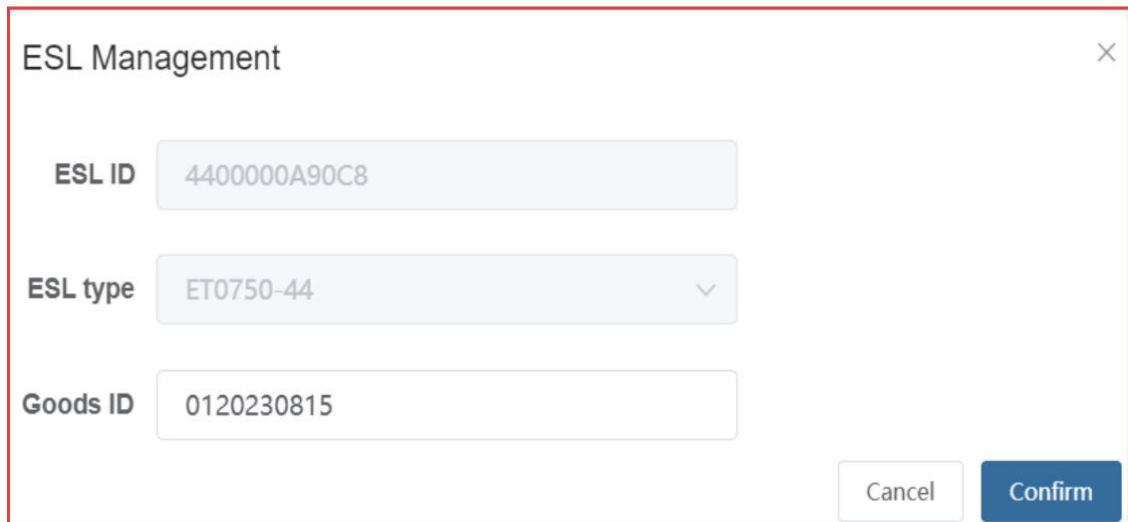
- ↑ Import: Click the template download to download the fixed format tag form.



The screenshot shows a dialog box titled "Import Price Tags" with a close button (X) in the top right corner. It features a dropdown menu for "* Store Number" with the placeholder text "Store Number". Below this is a file selection area labeled "* Import Price Tags" with a button that says "Please select a file". Underneath, it says "Please upload Format is xls/xlsx files". There is a checkbox labeled "Override Existing Binding Relationship" which is currently unchecked. Below the checkbox is a link that says "Click here to download template" with a blue arrow pointing downwards. At the bottom right, there are "Cancel" and "Confirm" buttons. A large green text block is overlaid at the bottom of the dialog, stating: "For the tag existing in the eRetail3.1 system and bound to Goods, if the tag ID is in the table when importing and the corresponding GoodsGode field is bound to other Goods UPC, then the tag information will be updated."

- ↓ Export: Export all ESL information tables after confirming the execution

(3) Operate



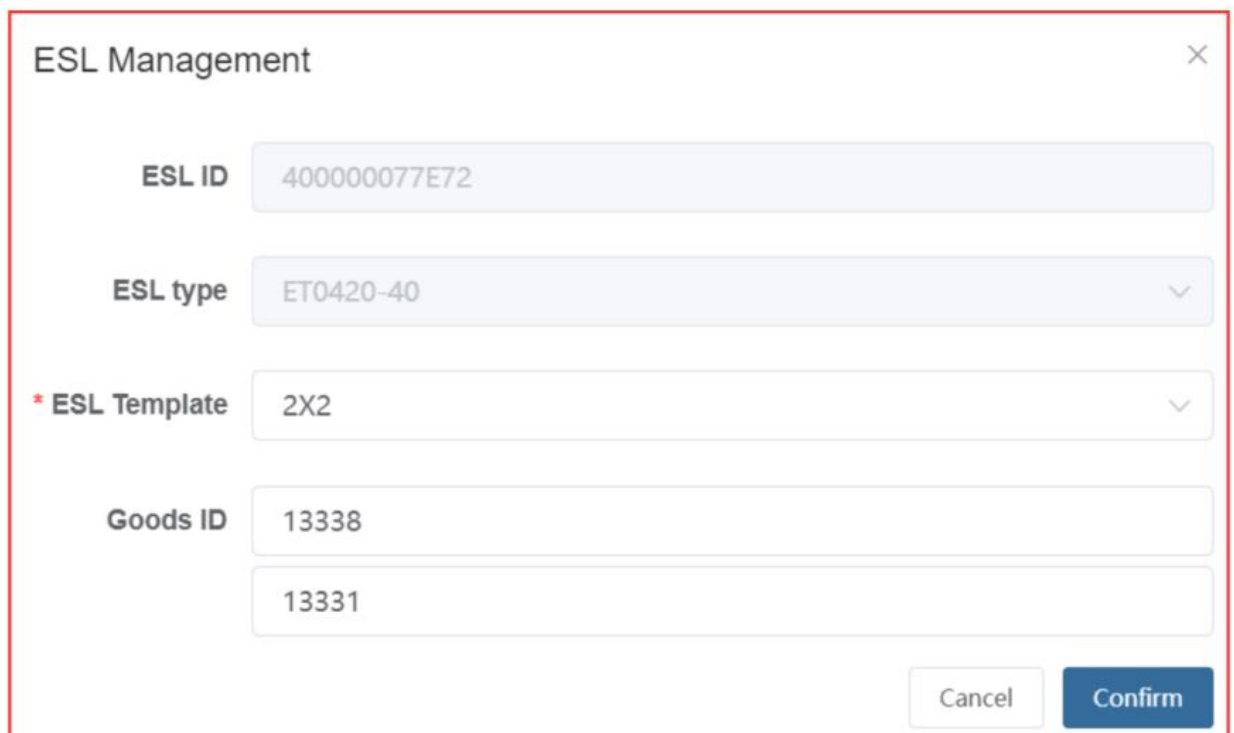
The screenshot shows a dialog box titled "ESL Management" with a close button (X) in the top right corner. It contains three input fields: "ESL ID" with the value "4400000A90C8", "ESL type" with a dropdown menu showing "ET0750-44", and "Goods ID" with the value "0120230815". At the bottom right, there are two buttons: "Cancel" and "Confirm".



Bind the specified tag with the specified Goods. The Goods ID can be fuzzily unlocked by entering the UPC and Goods name, and click Confirm to submit the binding;



- Comb binding: Comb bind templates (one template can display multiple template types or multiple Goods), and decide how many Goods to display by designing the template. The following figure shows a tag that displays two Goods information at the same time;



The screenshot shows a dialog box titled "ESL Management" with a close button (X) in the top right corner. It contains four input fields: "ESL ID" with the value "400000077E72", "ESL type" with a dropdown menu showing "ET0420-40", "* ESL Template" with a dropdown menu showing "2X2", and "Goods ID" with two stacked input fields containing the values "13338" and "13331". At the bottom right, there are two buttons: "Cancel" and "Confirm".





3.2.5 Area Management

Set and manage the area where LCD ESL and LCD devices are located

| Store Number | Area ID | Area Name | Creation Time | Operate |
|--------------|---------|-----------|---------------------|----------|
| 0005 | 1 | Picture | 2022-11-22 15:34:36 | + ↻ 🗑️ 🟢 |
| 0004 | 3 | drink | 2022-12-07 15:09:07 | + ↻ 🗑️ 🟢 |
| 0023 | 5 | Shelf A | 2023-03-30 14:05:53 | + ↻ 🗑️ 🟢 |
| 0020 | 6 | Pizzhut | 2023-04-20 00:38:05 | + ↻ 🗑️ 🟢 |
| 0020 | 7 | KFC | 2023-04-20 00:38:13 | + ↻ 🗑️ 🟢 |

Sub-area

- (1) **+Add** : The area can only be used under the store, so each store needs to add the corresponding area (stores that only use ESL do not need to add). The area name is the name of the type of sales area in the mall, such as the fruit area, aquatic product area, cooked food area, etc.
- (2) **Action bar buttons**:

-  Add sub-area
-  Modify area information
-  Delete area
-  Area bind material

Resource Binding

video_globalte

loghi_globalte

video

picture

File name

Type

Q Search

fruit.mp4 1920x360... 1920x360... 草莓.mp4

青苹果+红... 生菜+小番... 玉米.mp4 香菜.mp4

土豆.mp4 水果黄瓜... 水果.mp4 生菜+小番...

Total 83 < 1 2 3 4 5 6 7 >

Type: Video

File name: fruit.mp4

Resolution: 1084X602

Size: 4340KB

Default?:

Add

Image added

Dahua_logo_red... : 160X48[Default] ✓ 🗑️





















Video added

Select the corresponding material category, and you can see the videos and pictures under the category on the right

Usually add a video and picture to one area





3.2.6 Advertising Screen Management

LCD status query, binding, refresh, display preview and other functional operations

| Store Number | Device ID | Device name | Device model | IP | Size | Monitor Count | Template name | Device status | Operate |
|--------------|------------------|-------------|-------------------------|-----------------|-------------|---------------|----------------------------------|---------------|---|
| 0055 | 24ba8287097b91f0 | -- | Android-rk3288 | 192.168.0.167 | 1080 * 1920 | 2 | Side A:wertyui Side B:wertyui | Online |     |
| 0040 | 6a8b00e1d81920b0 | -- | WYST-T972-WYST-T972 | 192.168.137.200 | 2880 * 158 | 1 | | Offline |     |
| 0023 | 888bc09ff2ebb0f3 | -- | WYST-T972-WYST-T972 | 192.168.0.88 | 2880 * 158 | 1 | 测试1080*1920 | Offline |     |
| 0040 | b9321968916e0723 | 37 Romarin | UniWin-Uniwin-Link M135 | 192.168.204.149 | 1920 * 540 | 1 | Prueba | Offline |     |
| 0055 | d9925a97d5f1e586 | -- | Android-rk3288 | 192.168.200.169 | 1080 * 1920 | 2 | Side A:wertyui Side B:wertyui | Online |     |


(1) . One-key binding: When multiple LCDs display the same Goods information, you need to select these devices first. In the search bar, one of the search criteria device size or device model must be selected to use this function.

(2) . Action bar button

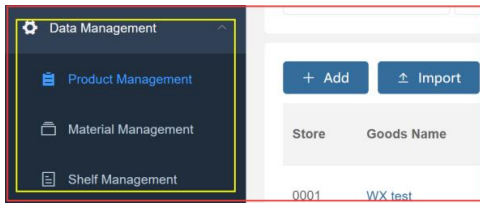
-  The operation method here is the same as that of LCD ESL, where the two sides are divided into A side and B side, and both sides need to be bound and submitted separately.
-  Modify the device name, customize the device name.
-  Preview the current display screen of the device.
-  Remote control: IT operation menu, please do not use this content function at will

3.2.7 Video Service Management

View service IP and port, online and offline status, software version, etc. LCD ESL and LCD are only available when this service is online.

| Store Number | Video service IP | Service type | Temperature (°C) | Version | Last heartbeat time | Status | Online times | Creation Time | Operate |
|--------------|------------------|-----------------|------------------|----------|---------------------|--------|--------------|---------------------|---|
| All stores | 47.91.90.82:9068 | TFT API service | | 3.1.12.0 | 2023-08-17 16:49:20 | Online | 11228 | 2022-09-26 17:11:02 |  |
| All stores | 47.91.90.82:9069 | Video service | | 3.1.2.0 | 2023-08-17 16:48:53 | Online | 8 | 2022-09-26 17:11:17 |  |

3.3 Data Management



3.3.1 Product Management

View Goods information, modify Goods information, bind materials, etc.

After clicking the gear, the Goods information field will pop up. Select the field to display the field value, or hide it if you do not select it

| Store | Goods Name | Goods Code | Template | UPC | ShopCode | GoodsCode | UPC1 | UPC2 | UPC3 | Price1 | Price2 | Price3 | Origin | Spec | Unit | Grade | SAL_TIME_START | SAL_TIME_END | UPC | |
|-------|----------------|------------|----------|-----------------------|----------|-----------|----------------|-------|------|--------|--------|--------|--------|------|------|-------|----------------|--------------|-----|--|
| 0002 | San-Pellegrino | 86 | REG | 45,7198,7198,7198 | 0002 | 86 | San-Pellegrino | 7198 | 7198 | 7198 | 7.62 | | | | | | | | | |
| 0002 | Fanner Water | 88847 | SAL | 88847,7198,7198,7198 | 0002 | 88847 | Fanner Water | 7198 | 7198 | 7198 | 5.25 | | | | | | | | | |
| 0002 | San-Pellegrino | 86549 | REG | 86549,7198,7198,7198 | 0002 | 86549 | San-Pellegrino | 7198 | 7198 | 7198 | 7.62 | | | | | | | | | |
| 0002 | Fanner Water | 5287 | REG | 5287,7198,7198,7198 | 0002 | 5287 | Fanner Water | 7198 | 7198 | 7198 | 5.25 | | | | | | | | | |
| 0001 | CAR | 1 | car | 1,1,1,1 | 0001 | 1 | CAR | 1 | 1 | 1 | 24999 | 19999 | 19999 | | | | | | | |
| 0001 | PC | 1234 | pc | 1234,1,1,1 | 0001 | 1234 | PC | 1 | 1 | 1 | 24999 | 19999 | 19999 | | | | | | | |
| 0002 | Cola Cola | 8198 | REG | 8198,7198,7198,7198 | 0002 | 8198 | Cola Cola | 7198 | 7198 | 7198 | 5.25 | | | | | | | | | |
| 0049 | BE P | 28801 | REG | 28801,12345,2345,2345 | 0049 | 28801 | BE P | 12345 | 2345 | 2345 | 12.39 | | | | | | | | | |

Product History: Click the Goods Name to view the Goods price change record

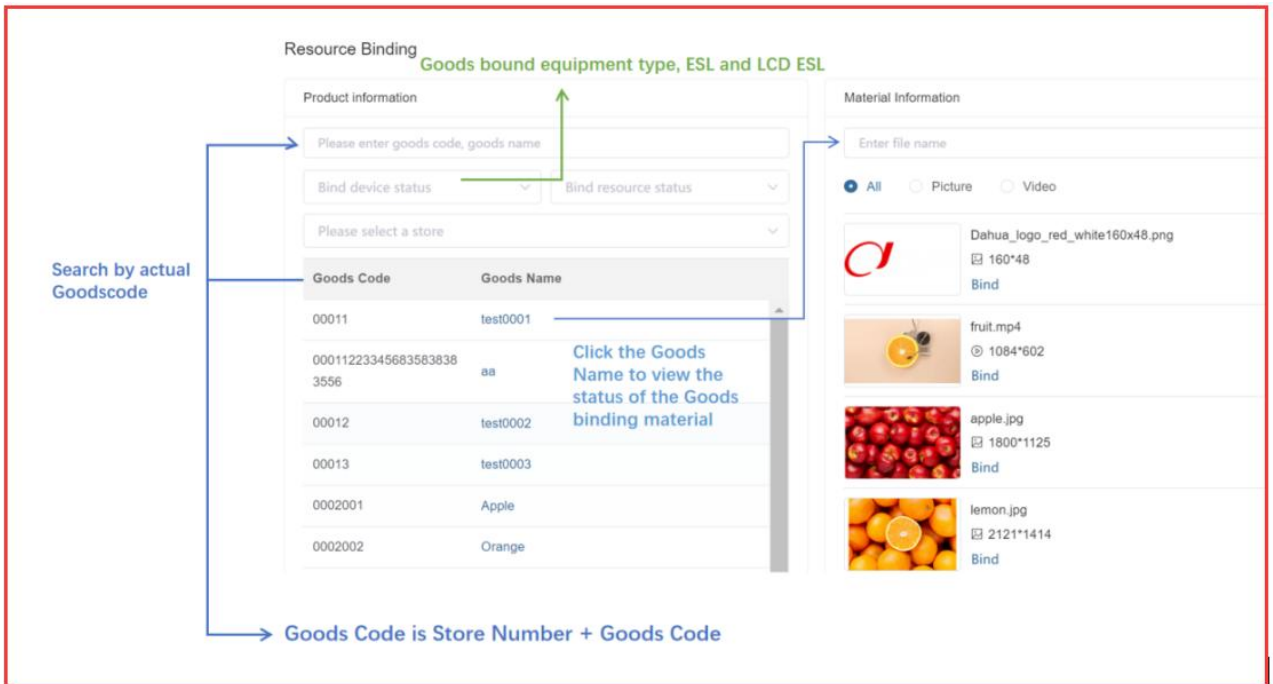
| Goods Name | Goods Code | Template | ShopCode | GoodsCode | GoodsName | UPC1 | UPC2 | UPC3 | Price1 | Price2 | Price3 | Origin | Spec | Unit | Grade | SAL_TIME_START | SAL_TIME_END | UPC | | |
|--------------|------------|----------|----------|-----------|--------------|------|------|------|--------|--------|--------|--------|------|------|-------|----------------|--------------|-----|--|--|
| Change water | 86549 | REG | 0002 | 86549 | Change water | 7198 | 7198 | 7198 | 7.62 | | | | | | | | | | | |

(1) Function button bar on the upper left





- **+Add** : Add new Goods information, Different dynamic model configurations add different information. Enter the value of the Goods field. If the system is synchronized, please obtain new data from the synchronization interface;

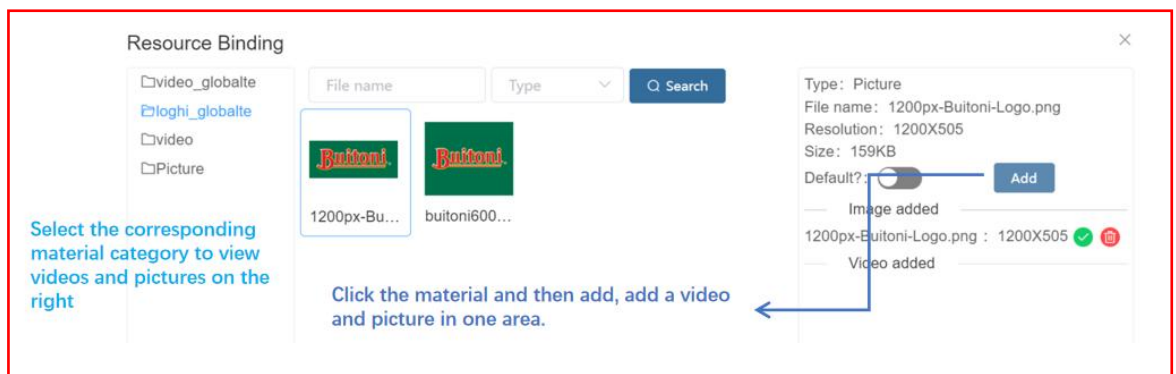
- **Import/Export:** After selecting a store, operate and import Goods information without a fixed form. You can export Goods data first, use the exported form as a form template, and modify the content for import. Mainly used for file docking.
- **Bind:** Check out the Goods-bound footage



- **Export Resource Binding/Import Resource Binding:** Select a store that uses LCD ESL and LCD. If you want to bind materials with tag binding Goods, you can first bind a store material, export the material binding relationship of this store, change the store number and import the material, and quickly bind materials to other store Goods. The premise is that the name and code field values corresponding to Goods of each store are the same.

(1). Action bar button

-  Modification of Goods information is invalid for database, FTP file, customization, and API interface push docking methods. Modified content will be overwritten after synchronization;
-  Resource Binding



-  Delete the corresponding Goods information, which cannot be deleted in batches.

3.3.2 Material Management

Upload, review, delete video and picture materials and other functions.

The materials imported for the first time show pending approval, and unapproved materials cannot be used. You need to select the materials and click Approve to review them in batches.

Material Name + Format, Video supports MOV and MP4, pictures support PNG and JPG

Click Edit to enter a custom feature, which is used to enter the same feature in the template ResFeature field for binding

(1) **.Resource Classification:** Distinguish material format, use area, etc.;

Resource Classification

Class Name

| Class Name | Operate |
|----------------|---|
| video_globalte | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |
| loghi_globalte | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |
| video | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |
| Picture | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |

(2) **.Upload Resource:** Support batch upload.

Upload Resource
✕

*** Resource Classification**

Resource Classification
▼

Classify the uploaded materials and create a new category in the material classification

System Store

Please select a store
▼

Select a store, this material can only be used under this store, if you do not select a store, the material will be used globally

Select Material

Select File or Zip
⬆

To upload a single video or picture, you can upload a compressed package for batch upload. Some formats of the compressed package are not supported, and the maximum supported size is 200M.

Overwrite Existing Tag Records

Must be checked by default

Cancel
Confirm

3.3.3 Shelf Management

To upload the shelf display information table, view the content of the shelf display information table, and delete the shelf display, you need to use it with the APP display adjustment (this function will continue to be optimized in the future).

Please select ▼
Shelf Numbe
Goods ID
Goods Name
ESL ID
🔍 Search

⬆ Import

| Store Number | Shelf Number | Last Update Time | Operate |
|--------------|--------------|---------------------|---|
| 0001 | 0001F | 2023-08-10 10:39:45 | View Delete |
| 0001 | HJJS1Q | | View Delete |

Shelf Management

* Store Name Please select a store

* Import Tag Information Please select a file

Please upload Format in xlsx files

Click here to download template

Shelf ID

Shelf Management

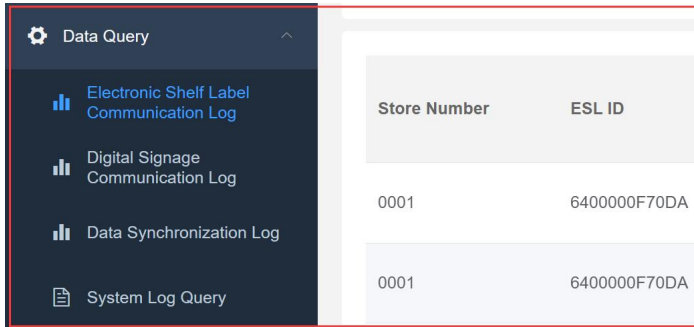
| | |
|--|--|
| ESL ID:4000000E58D Goods Code:00013001 | ESL ID:4400000A90C8 Goods Code:00012002 |
| 0001F-1-1 Status:-Submitted | 0001F-1-2 Status:-Submitted |
| ESL ID:4400000708DC Goods Code:00011002 | ESL ID:440000010473 Goods Code:00013002 |
| 0001F-2-1 Status:-Submitted | 0001F-2-2 Status:-Delete |

| ShelfID | GoodsID | Row | Column | Face | Deep | High |
|---------|---------|-----|--------|------|------|------|
| 0001F | 12 | 1 | 1 | 3 | 3 | 2 |
| 0001F | 22 | 1 | 2 | 3 | 3 | 2 |
| 0001F | 25 | 2 | 1 | 3 | 3 | 2 |
| 0001F | 25 | 2 | 2 | 2 | 3 | 1 |
| 0001F | 12 | 1 | 1 | 2 | 2 | 2 |
| 0001F | 12 | 1 | 2 | 2 | 2 | 2 |
| 0001F | 25 | 2 | 1 | 4 | 2 | 1 |

The table contains display information:
Row, Column, Face, Deep, High

(1). Scenario: The customer has display data (shelf location and product binding), uploads and synchronizes the display data to the eRetail3.1 system, the customer directly binds the tag according to the display data, and the tag displays Goods information according to the corresponding Goods in the display data . Tag is no longer directly bound to Goods.

3.4 Data Query



3.4.1 Electronic Shelf Label Communication Log

Check the communication status of the label to determine whether the label and the base station are in an abnormal state.

| Store Number | ESL ID | ESL type | ESL Template | UPC | Communication Type | Communication Status | Electricity | Signal strength | Temperature | Creation Time | Last sent time | Operate |
|--------------|--------------|-----------|--------------|------------|--------------------|----------------------|-------------|-----------------|-------------|---------------------|--------------------|---------|
| 0001 | 6400000F70DA | ET1020-64 | REG | 0220230818 | Bind | Success | 100% | -79 | 25 | 2023-08-18 11:08:29 | 2023-08-18 11:08:3 | |
| 0001 | 6400000F70DA | ET1020-64 | REG | 0220230818 | Bind | Success | 100% | -65 | 25 | 2023-08-18 11:01:19 | 2023-08-18 11:01:2 | |
| 0001 | 4400000A90C8 | ET0750-44 | TEST | 0120230815 | Bind | Success | 100% | -65 | 25 | 2023-08-15 09:53:42 | 2023-08-15 09:54:2 | |
| 0001 | 4400000A90C8 | ET0750-44 | TEST | 0120230815 | Bind | Init | — | — | 0 | 2023-08-15 09:48:20 | | |
| 0001 | 4400000A90C8 | ET0750-44 | TEST | 0120230815 | Bind | Success | 100% | -62 | 25 | 2023-08-15 09:45:46 | 2023-08-15 09:46:2 | |
| 0001 | 4400000A90C8 | ET0750-44 | TEST | 0120230815 | Bind | Success | 100% | -58 | 25 | 2023-08-15 09:20:13 | 2023-08-15 09:45:4 | |
| 0001 | 430000078B27 | ET0420-43 | OLD | 13338 | Bind | Success | 100% | -39 | 26 | 2023-08-11 12:39:35 | 2023-08-11 12:39:3 | |
| 0001 | 430000078B27 | ET0420-43 | OLD | 13338 | Bind | Success | 100% | -52 | 29 | 2023-08-11 12:38:28 | 2023-08-11 12:38:2 | |
| 0001 | 430000078B27 | ET0420-43 | OLD | 13338 | Bind | OverWrite | — | — | 0 | 2023-08-11 12:35:28 | | |

(1) . Communication Type:

| Status | Meaning | Status | Meaning |
|-----------|---|-----------|--|
| First | The state of the task just created | Data | Tasks created by product information changes |
| Bind | Tasks created by binding | Unbind | Tasks created by unbinding |
| Search | Undefined | Specific | Undefined |
| Refresh | Tasks created by refreshing | LED | Tasks created by the flash command |
| Image | Tasks created by specifying an image | Heartbeat | Undefined |
| TFT | Undefined | Preview | Tasks created through APP custom templates |
| Low Power | Task created when Label is low on battery | Broadcast | Undefined |

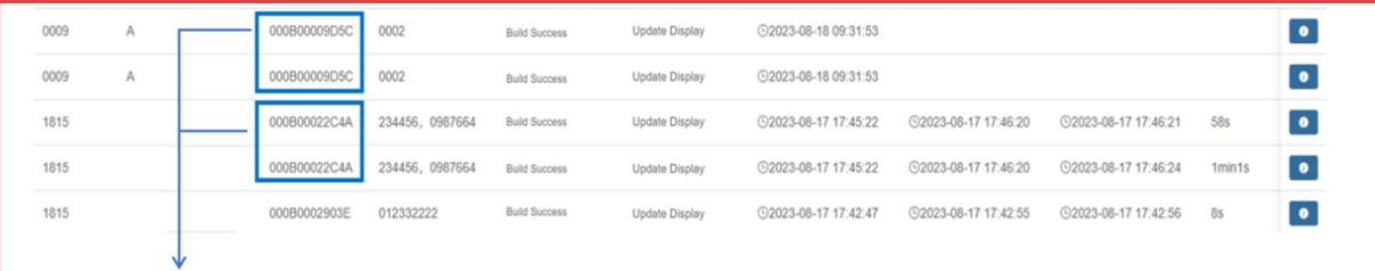
(2). Communication Status:

| Status | Meaning | Status | Meaning |
|------------|--|---------|----------------------|
| Init | Initialization, no communication | Sending | Communicating |
| Success | Successful communication | Error | Failed communication |
| Max Try | Label's single communication reached 128 times | Timeout | Undefined |
| Drop | Undefined | Pause | Undefined |
| Over Write | Task coverage | Other | Undefined |

(3). Communication base station: Check which base station successfully communicated with the task of the label, which is distinguished by the base station ID. The number in () behind the base station ID is the number of times the label communicated this time.

3.4.2 Digital Signage Communication Log

Check the communication status of ESL LCD to judge whether the WIFI base station and video service are in an abnormal state;



An ESL LCD task generates two records, displaying the content generation task and the communication task. After the video is generated, the task communication is performed. If the display content is not successfully generated (**the waiting time for generation is related to the distribution of video tasks and the number of video tasks in the TFT configuration**).

- 1.Batch communication failed, please check the settings of related videos.
- 2.If a single communication fails, please check the material, and the ESL LCD status is communicating.

(1) . Task Type:

| Status | Meaning | Status | Meaning |
|--------------------|--|-------------------|--------------------------------------|
| Update display | Tasks created by binding, product data changes | Default | Tasks created by specifying an image |
| Turn off Backlight | Tasks created by "Screen Off" | Turn on Backlight | Tasks created by Bright Screen |
| Reset | Tasks created by "Delete-Factory Restore" | OTA Upgrade | Tasks created by "OTA upgrade" |

(2) . Video Send Status:

| Status | Meaning | Status | Meaning |
|---------------------|-----------------|-----------------------|-----------------|
| Not Generated | Display content | Generating | Display content |
| Build Failed | Display content | Build Success | Display content |
| Task Overridden | | Download Failed | |
| Task Overload | | Confirmation Failed | |
| Execution Exception | | Confirmation Complete | |

(3) . Operation: button, you can view the information created in this task, download videos and pictures, etc.

3.4.3 Data Synchronization Log

Each store synchronizes the logs. When the product information does not meet the requirements, check whether the synchronization logs are updated normally, which is controlled by the Data Sync service.

| Store Number | Log encoding | Log level | Describe | Time of occurrence |
|--------------|--------------|-----------|--|----------------------|
| 0010 | 4000 | Infor | 同步服务已经启动,DataSync Server version 【3.1.2.0】 TaskProducer '300',DataSyncStatus '-1'. | ©2023-07-12 14:15:17 |
| 0010 | 4000 | Infor | DataSync service start,DataSync Server version 【3.1.2.0】 TaskProducer '300',DataSyncStatus '-1'. | ©2023-03-21 11:23:02 |
| 0010 | 4000 | Infor | 同步服务已经启动,DataSync Server version 【3.1.2.0】 TaskProducer '300',DataSyncStatus '-1'. | ©2023-02-27 23:35:56 |
| 0010 | 4000 | Infor | 同步服务已经启动,DataSync Server version 【3.1.2.0】 TaskProducer '300',DataSyncStatus '-1'. | ©2023-02-25 21:18:51 |
| 0010 | 4000 | Infor | 同步服务已经启动,DataSync Server version 【3.1.2.0】 TaskProducer '300',DataSyncStatus '-1'. | ©2023-02-25 20:37:57 |
| 0010 | 4000 | Infor | 同步服务已经启动,DataSync Server version 【3.1.2.0】 TaskProducer '300',DataSyncStatus '-1'. | ©2023-02-25 20:26:21 |
| Global | 4001 | Warning | 数据同步服务未启动,No store configurations found to synchronize,Service suspension | ©2023-02-25 14:55:18 |
| Global | 4001 | Warning | 数据同步服务未启动,No store configurations found to synchronize,Service suspension | ©2023-02-24 14:55:18 |
| Global | 4001 | Warning | 数据同步服务未启动,No store configurations found to synchronize,Service suspension | ©2023-02-23 14:55:18 |

Meaning of each value

| Status | Meaning | Status | Meaning |
|--------|---|-----------|--|
| Find | The number of products queried under this store | Update | Number of product data updates |
| Insert | The number of items added | Sync Type | Synchronization type, the first number of 0-0 represents on and off synchronization, -1 off, 0 on -0 means data source, 0 database, 1 file, 2FTP file, 99 customized |

3.4.4 System Log Query

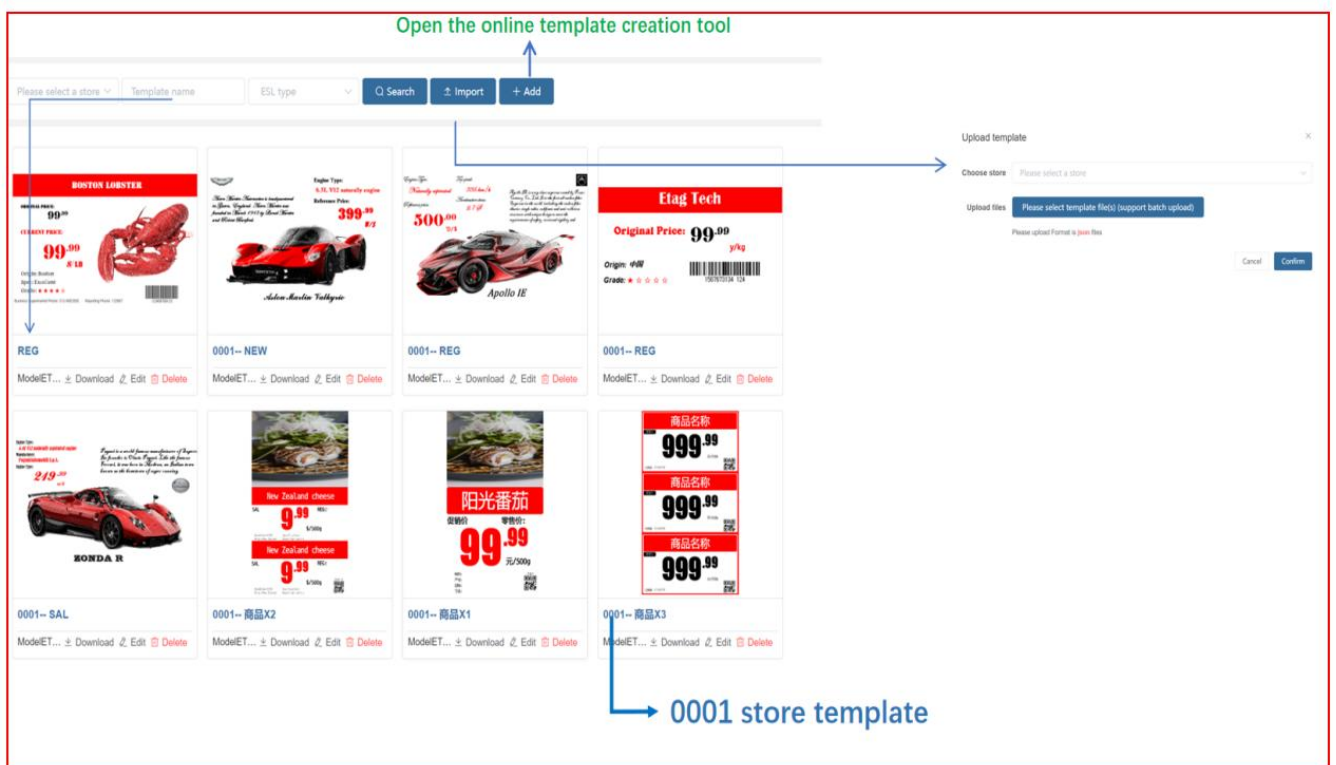
Synchronization logs, system status information, label communication status, offline base station, whether the service is running abnormally, login account information, whether the system configuration is abnormal, WEB page operation, you can check the message code through the log code to determine which module of the system is the problem, and operate button to see the contents of the system log.

| Store Number | Log encoding | Log level | System log | Time of occurrence | Operate |
|--------------|--------------|-----------|----------------|----------------------|---------|
| 0003 | 1028 | Infor | 基站上线,APID 10 | ©2023-08-21 12:14:55 | |
| 0003 | 1028 | Infor | 基站上线,APID 10 | ©2023-08-21 11:54:39 | |
| 0003 | 1028 | Infor | 基站上线,APID 10 | ©2023-08-19 11:45:14 | |
| 0003 | 1028 | Infor | 基站上线,APID 10 | ©2023-08-18 12:06:44 | |
| 0031 | 1028 | Infor | 基站上线,APID 01 | ©2023-08-17 17:35:50 | |
| 0031 | 1028 | Infor | 基站上线,APID 01 | ©2023-08-17 15:08:34 | |
| 0031 | 1028 | Infor | 基站上线,APID 01 | ©2023-08-17 13:39:18 | |
| 0031 | 1028 | Infor | 基站上线,APID 01 | ©2023-08-17 13:24:32 | |
| 0003 | 1028 | Infor | 基站上线,APID 10 | ©2023-08-17 11:48:53 | |
| 0032 | 1029 | Warning | 基站离线,APID 01 | ©2023-08-16 20:38:50 | |
| 0032 | 1002 | Infor | 任务已经创建 (绑定) ,1 | ©2023-08-16 20:23:52 | |
| 0032 | 1002 | Infor | 任务已经创建 (绑定) ,1 | ©2023-08-16 20:23:36 | |
| 0032 | 1002 | Infor | 任务已经创建 (绑定) ,1 | ©2023-08-16 20:21:59 | |

3.5 Template Management

3.5.1 Template Management

The product judges the template type through the template configuration-template expression, calls the corresponding template for display, and makes the corresponding template according to the required label model and the number of template types. Templates can be created and edited online, or templates made by eDesigner3.1 template tools can be imported through the import function. Templates are divided into global and store. The store template can only be used in this store, and the global template can be used in all stores.



(1) . Description of the template name: REG corresponds to the general sales model of the product, SAL corresponds to the promotional sales model of the product, and MER corresponds to the member sales model of the product. The names of these three categories can be customized, and this name is defaulted. The meaning of the template code fixed by the system, U is unbinding, and OOS is the APP inventory mark template. **Commodity x 1** is usually the template name of LCD ESL or LCD, and **Commodity x 2** means that the price tag displays two commodity information at the same time. Only U and OOS mentioned above cannot customize the name. The name of the label template of the same model cannot be the same, and the name of the label template of different models can be the same.

(2) .Template name naming specifications: model + template type or template display product quantity, such as 4.2-inch REG, 2.13-inch frozen REG, 10.1-inch **product × 2**.

(3) . **+Add**: there are many contents, and the user manual is made separately;

3.5.2 Holiday Management

Set the date to automatically switch special themes (festivals, events) templates for LCD ESL. First of all, make festival and activity templates in template Management.

Click to view the Settings activity information **Select the start date and end date**

2024 February

| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|-----|-----|---------------------------------------|-----|-------------------------|-------------------------|-----|
| 29 | 30 | 31 | 01 | 02 Northern Little Year | 03 Southern Little Year | 04 |
| 05 | 06 | 07 | 08 | 09 New Year's Eve | 10 Spring Festival | 11 |
| 12 | 13 | 14 Valentine's Day Valentine's Day | 15 | 16 | 17 | 18 |
| 19 | 20 | | | 23 | 24 Lantern Festival | 25 |
| 26 | 27 | | | 01 | 02 | 03 |

Valentine's Day ×
Store Number: 0001
Start Time: 2024-02-14 00:00
End Time: 2024-02-14 23:59

P1: Default template **P2: Festival, activity template**

Template name corresponding (Festival, event name)

Add ×

* name

Choose store

Start Time

End Time

3.6 System Management







System Management

- User Management
- Permission Settings
- Organization Structure
- Parameter Settings
- Admin Tools
- System Configuration
- System Font Management
- Application Management

| template | |
|----------|------|
| 000101 | 0001 |

3.6.1 User Management

1. Manage eRetail3.1 system background and APP background login accounts, and the same account can log in to multiple devices.

| Username | Store | Status | Role | Last login time | Contact email | Operate |
|----------|-------|--------|-------|-----------------------|---------------|---|
| template | | Normal | pda | © 2022-06-13 16:25:04 | |    |
| 000101 | 0001 | Normal | admin | © 2023-08-09 15:09:21 | |    |

(1)+Add: Add new user.

Add
×

* Username

Username: Login account

* Login password

Login password: Password

Contact email

Contact email: Optional

* User role

User role: Different roles have different permissions, which are determined by the permission setting menu.

* Organization

Organization: Used for store and account area management, each area can't view the information under each other's store, it is determined by the organizational structure menu.

Store

Store: If it is an account used by APP, please select the corresponding store, background, template tools, etc.

3.6.2 Permission Settings

| Role | Status | Audit permission | Remarks | Last Update Time |
|-----------------|--------|--|--------------------|---------------------|
| admin | Normal | <input checked="" type="radio"/> Open | Administrator | 2022-05-06 15:24:37 |
| manager | Normal | <input checked="" type="radio"/> Open | Store manager | 2022-05-06 15:24:37 |
| pda | Normal | <input checked="" type="radio"/> Closure | PDA user,Shop user | 2022-05-06 15:24:37 |
| advertiser | Normal | <input checked="" type="radio"/> Closure | Advertisers | 2022-05-06 15:24:37 |
| OPEN_API | Normal | <input checked="" type="radio"/> Closure | Open api user | 2022-05-06 15:24:37 |
| ESLUser | Normal | <input checked="" type="radio"/> Closure | Esl user | 2022-05-06 15:24:37 |
| LCDUser | Normal | <input checked="" type="radio"/> Closure | Lcd user | 2022-05-06 15:24:37 |
| ADVUser | Normal | <input checked="" type="radio"/> Closure | Adv user | 2022-05-06 15:24:37 |
| ESL_ADVUser | Normal | <input checked="" type="radio"/> Closure | Esl and adv user | 2022-05-06 15:24:37 |
| ESL_LCDUser | Normal | <input checked="" type="radio"/> Closure | Esl and lcd user | 2022-05-06 15:24:37 |
| LCD_ADVUser | Normal | <input checked="" type="radio"/> Closure | Lcd and Adv user | 2022-05-06 15:24:37 |
| ESL_LCD_ADVUser | Normal | <input checked="" type="radio"/> Closure | Esl,lcd,adv user | 2022-05-06 15:24:37 |

(1)The meanings corresponding to the name of each authority role.

| Character name | Meaning |
|-----------------|--|
| admin | Administrator authority, the highest authority, all content can be set and changed |
| manager | Customer business manager login account role |
| pda | The relevant personnel who use the APP at the store end to log in to the account role |
| advertiser | Advertiser users, only the homepage displays content |
| OPEN_API | Interface permissions, used for users used in API docking, mainly used for data transmission, etc. |
| ESLUser | Label permissions |
| LCDUser | ESL LCD permission |
| ADVUser | ADV permission |
| ESL_ADVUser | Label and ADV permission |
| ESL_LCDUser | Label and LCD permission |
| LCD_ADVUser | LCD and ADV permission |
| ESL_LCD_ADVUser | LCD、Label and ADV permission |

3.6.3 Organization Structure

The default ETAG-TECH organization, all sub-organizations are managed under this organization, and organizations of the same level as ETAG-TECH cannot be added, and sub-organizations can be added through +.

| Organization name | Organization ID | Creation Time | Operation |
|-------------------|-----------------|----------------------|--|
| ETAG-TECH | 1 | ©2023-08-04 11:16:51 | + 🔍 🗑️ |

(1) Effect: It is used to log in to the APP account (global account) and the establishment of stores in the background to realize the management of stores under different organizations.

For example: the newly-built stores 0013 and 0014 belong to the Australian region, the 0015 store selects the UK region, the new global account role selects manager, the organization selects the Australian region, and the login account eRetail3.1 system background only displays the information of 0013 and 0014 stores. Stores that do not display 0015 display.

3.6.4 Organization Structure

System Configuration

Scale code start position:

Scale code length:

Limit Price Settings:

TFT configuration

Device heartbeat: seconds

API heartbeat: seconds

Limited task quantity:

Video task delivery: seconds

Video task quantity:

File cleaning cycle: days

System feedback configuration

Is Open:

Parameter type:

Feedback URL:

Custom class full name:

Feedback parameters:

Multiple parameters separated by

[Save](#)

(1) **Please Select a Store:** You can also set a single store when setting the global setting. The TFT configuration part is only used for the global. After selecting a store, click + to add store configuration, and select the corresponding store to set parameters;

(2) System Configuration

★ **Scale code start position and Scale code length:** Parameters filled in for APP interception and binding.

★ **Limit Price Settings:** It is restricted that the price changed by the store app cannot be greater than the price specified by the headquarters. Invalid for database and customized synchronization methods.

(3) **TFT configuration:** Only set globally.

(4) Set the TFT timer switch time, control all LCD ESL under this store

| | | |
|-----------------------|----|--|
| Device heartbeat | 90 | API heartbeat: Report the screen data to the cloud background at a fixed time of 15 seconds. If the report cannot be made regularly, the device will display offline. |
| API heartbeat | 15 | Device heartbeat: The default is 90 seconds, set the size according to the use scene (number of screens in the area), the maximum is 80 screens with one WIFI, the number of screens in the use scene area is far less than 80 screens, 90 seconds can be shortened to 30 seconds, etc. The number of screens is far greater than 80 screens, it is recommended to add more WIFI. |
| Limited task quantity | 20 | Limited task quantity: Process 20 screens at the same time |
| Video task delivery | 60 | |
| Video task quantity | 10 | |
| File cleaning cycle | 3 | |

Video task delivery: Video task processing cycle → **Process 10-screen video tasks every 60 seconds**

Video task quantity: The number of tasks processed in the task processing cycle → **Process 10-screen video tasks every 60 seconds**

File cleaning cycle: Clean every 3 days

(5) **System feedback configuration:** To feed back parameters such as ESL refresh and base station status to the customer system, the customer needs to provide the URL address of the feedback. If it is a customer-customized project, the customer needs to inform the custom name and feedback parameters.

System feedback configuration

Is Open

Parameter type

Feedback URL

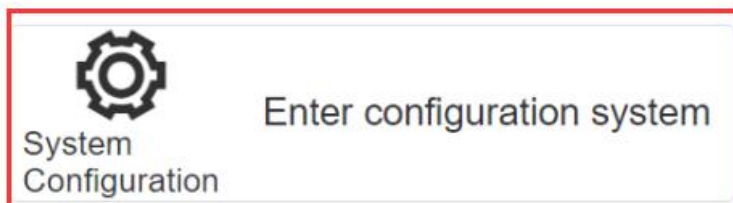
Custom class full name

Feedback parameters

Multiple parameters separated by ,

3.6.5 Admin Tools

(1) Set information modification, set stores to synchronize independently.



(2) The instance name is the actual column name parameter filled in the system configuration.

Data Backup

Instance Name

Backup Tables

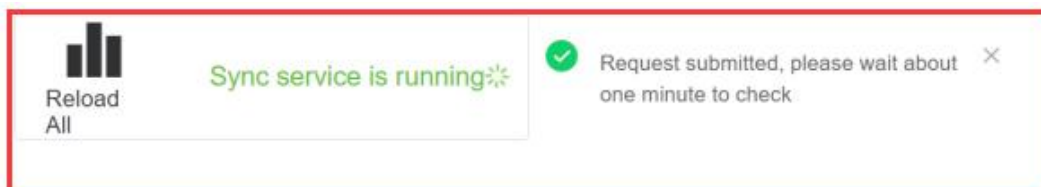
| | |
|---|---|
| <input checked="" type="checkbox"/> D2M | <input checked="" type="checkbox"/> Configure |
| <input checked="" type="checkbox"/> Template | <input checked="" type="checkbox"/> SysUser |
| <input checked="" type="checkbox"/> Shop | <input checked="" type="checkbox"/> Tag |
| <input checked="" type="checkbox"/> GoodsBind | <input checked="" type="checkbox"/> ResBind |
| <input checked="" type="checkbox"/> TFTInfo | <input checked="" type="checkbox"/> Settings |
| <input checked="" type="checkbox"/> Area | |

Enable automatic backup

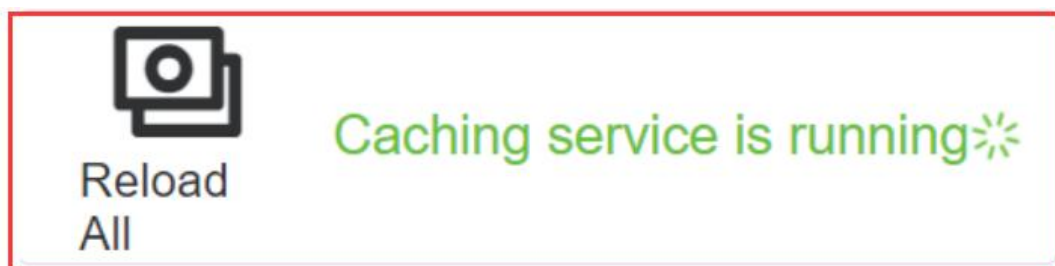
Backup

- ★ Select the backup data table, D2M is the commodity data connection information table, Shop is the store information table, and Tag is the ESL information table.
- ★ Enable automatic backup: Set the backup period-Scheduled backup.

(3) If the synchronization service is abnormal or not synchronized, it will show that the synchronization service is not running. When the data cannot be updated normally, check whether it is running normally here.



(4) Clear the eRetail3.1 system-related data in Redis. If the base station is not online, the data cannot be imported or exported. Try to clear the cache service.



(5) Refresh all labels in the specified store, or refresh the labels under the store according to the conditions;

The image shows two side-by-side forms. The left form is titled 'TFT screen refresh' and contains three input fields: 'Store', 'Select area' (a dropdown menu), and 'Template name'. Below these fields is a red 'Submit' button with a circular refresh icon. The right form is titled 'ESL refresh' and contains two input fields: 'Store' and 'Template name'. Below these fields is a red 'Submit' button with a circular refresh icon.

(6) LCD ESL hardware program upgrade, click Add, enter the MAC address of the device to upgrade, the label MAC address is the device ID.

The image shows a form titled 'OTA Upgrade'. It contains several input fields: 'Store number is required', 'Select area' (a dropdown menu), 'Version', and 'Tag MAC address'. To the right of the 'Tag MAC address' field is a red 'Delete' button. Below the 'Tag MAC address' field is a blue 'Add' button. At the bottom of the form is a red 'Submit' button with a cloud upload icon. There is also an 'Upload OTA file' field above the 'Submit' button.

3.6.6 System Configuration

(1) Parameters set in the system configuration. Enabling the shared directory means that the video is sent through the SendServer service, and after it is enabled, it is downloaded through the TFTAPI shared folder;

The image shows a form titled 'System parameters'. It contains several input fields: '* Instance name' (ETAG), 'Customer code' (ETAG), 'Client name' (Kris), 'System default language' (English), and '* Please enter the current site access address' (http://192.168.4.118:5000/). Below these fields is a toggle switch for 'Enable Share Directory' which is currently turned on. At the bottom right of the form is a blue 'Save' button with a right-pointing arrow.

(2) **Message Stack:** eRetail3.1 system log files are sent to relevant maintenance personnel by email.

Message stack

Monitor Configuration

Is enabled

Monitor API

Mail configuration

Is enabled

Sender account

Sender password

Mall server

Recipient list

Multiple parameters, Segmentation

Message configuration

Message code

Email Enable Disabled

API Enable Disabled

Monitor Enable Disabled

Cancel Confirm

Receiving method object, different log files can be sent to different objects, you can choose multiple

Customize and add the log content sent: You can choose the base station offline, online, label refresh failure, service offline, etc.

| Message code | Message description | Email | API | Monitor | Operate |
|--------------|---------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| 2061 | 服务下线 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

+ Add

Save

(3) **System Font Management:** The font selected when making the template needs to be installed on the eRetail3.1 system server to achieve the display effect.

Upload Font

Font name

Arial

Bahnschrift

Calibri

Cambria

Cambria Math

Candara

Comic Sans MS

Consolas

Constantia

Corbel

Courier New

Upload Font

Select font file(ttf|ttc)

Select font file

For Windows system, please manually install the fonts on the server

After uploading the font on Linux, you need to restart the container for it to take effect

Cancel Confirm

Candara

Comic Sans MS

Consolas

Constantia

Corbel

Courier New

(4) **Application Management** : Download the APP software, LCD software, upload the ESL handheld APP here to scan the QR code in the APP configuration menu to download the APP.

| APPID | Application name | Version Number | Build number | Describe | Last release time | Download | Operate |
|--------------------------------------|------------------|----------------|--------------|-----------|---------------------|------------|---|
| 5D460546C356CAE04E88-D6FAFBE81A59 | ESL 电子价签 | 3.1.0 | 2 | 电子价签手持APP | 2022-06-14 17:01:19 | Download 上 |  |
| 4b9fcea8-1dd5-45c8-90d8-6f0937354260 | ePlayer | 3.1.3 | 3 | 广告屏播放器 | 2022-06-14 17:01:19 | Download 上 |  |
| ETAG0546C356CAE04E88-D6FAFBE86877 | LightHouse | 3.1.0 | 1 | 灯条APP | 2022-06-14 17:01:19 | Download 上 |  |

Publish New Version ✕

Application name

*** Build number** ^
v

*** Version Number**

Select APK ↑