

WiFi ESL

Operation Manual

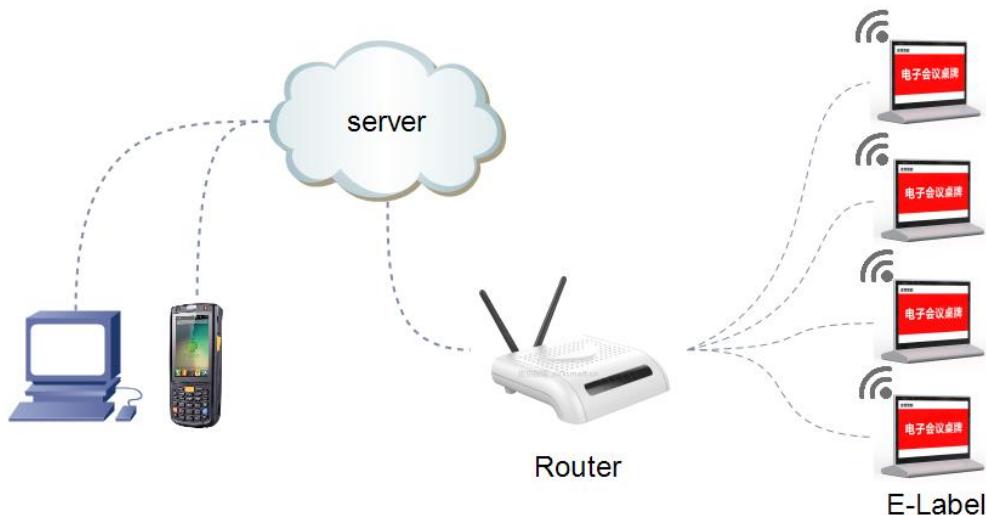
SETPW0750R

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1. System Structure

Electronic conference system is a complete integrated system composed of WiFi ESL, wireless Router, management system and wifi wireless communication protocol, which is suitable for various conference scenes.



Caution

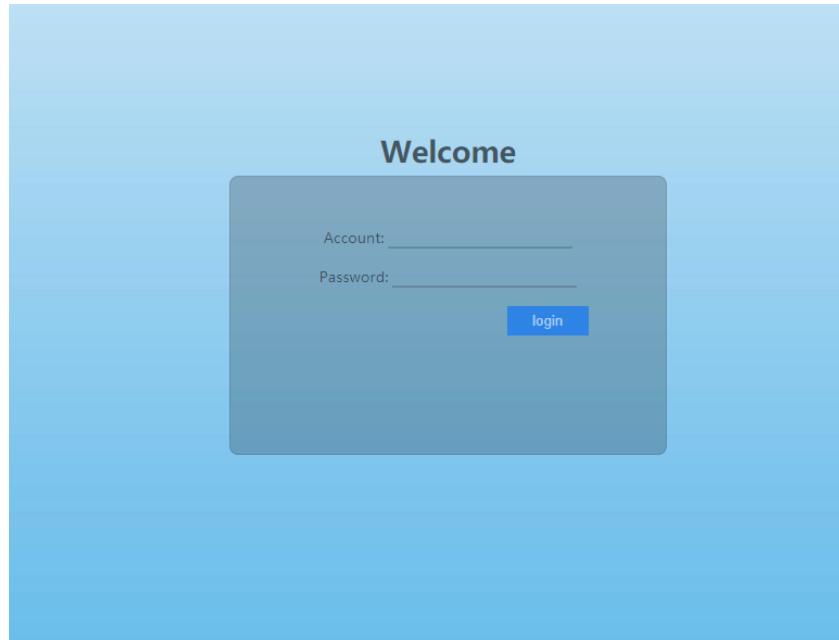
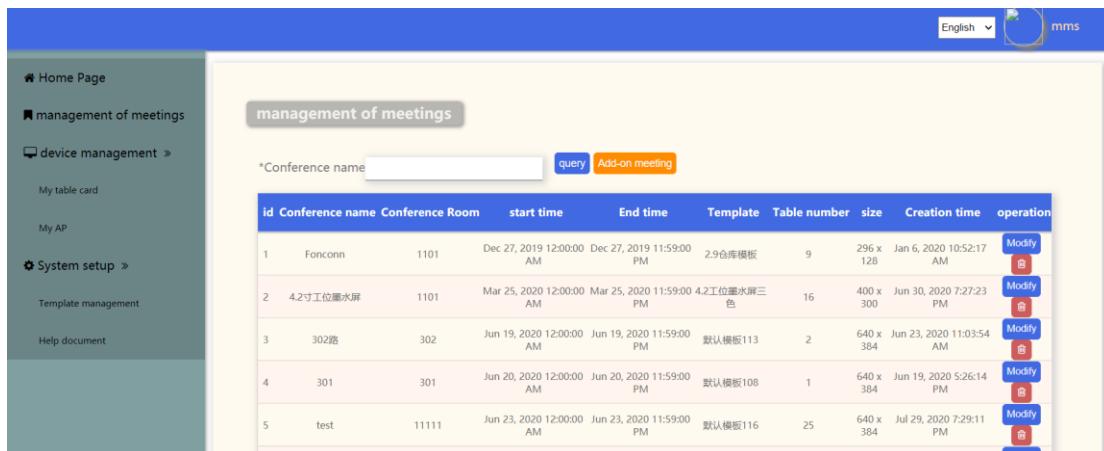
- a. The ESL management is on Cloud;
- b. The local network interface should support DHCP;
- c. There are no restrictions for tag's access to the Internet;
- d. The wifi tag has enough power for running, Otherwise, charge it with type-c cable.

2. System Operation

2.1 Login System

Use the browser to access the website of the table card system, and use the assigned account number and password to log in to the system.

System website: <http://103.139.3.135/mms/mms/tologin>

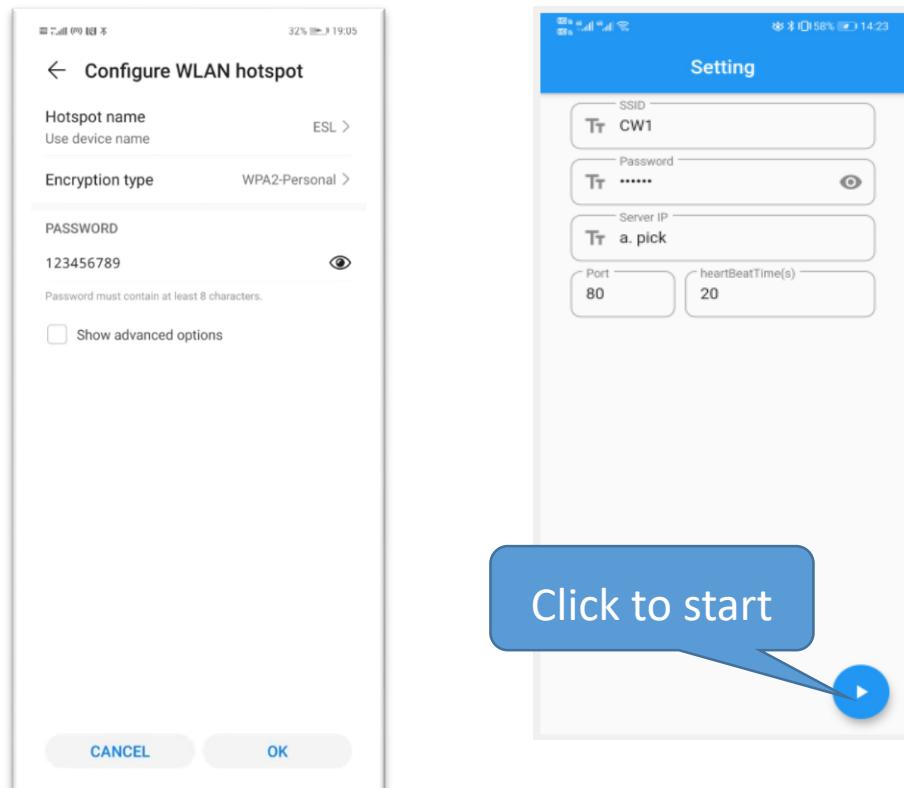
ID	Conference name	Conference Room	start time	End time	Template	Table number	size	Creation time	operation
1	Fonconn	1101	Dec 27, 2019 12:00:00 AM	Dec 27, 2019 11:59:00 PM	2.9仓库模板	9	296 x 128	Jan 6, 2020 10:52:17 AM	Modify trash
2	4.2寸工位墨水屏	1101	Mar 25, 2020 12:00:00 AM	Mar 25, 2020 11:59:00 PM	4.2寸工位墨水屏三色	16	400 x 300	Jun 30, 2020 7:27:23 PM	Modify trash
3	302路	302	Jun 19, 2020 12:00:00 AM	Jun 19, 2020 11:59:00 PM	默认模板113	2	640 x 384	Jun 23, 2020 11:03:54 AM	Modify trash
4	301	301	Jun 20, 2020 12:00:00 AM	Jun 20, 2020 11:59:00 PM	默认模板108	1	640 x 384	Jun 19, 2020 5:26:14 PM	Modify trash
5	test	11111	Jun 23, 2020 12:00:00 AM	Jun 23, 2020 11:59:00 PM	默认模板116	25	640 x 384	Jul 29, 2020 7:29:11 PM	Modify trash

2.2 Device Management

1. Registration tag

Step 1: Set wifi hotspot ("ESL" "123456789") and then open the mobile APP to set the parameters:

- Wifi account \ password in the environment
- Server address \ port
- Set the heartbeat time of the label

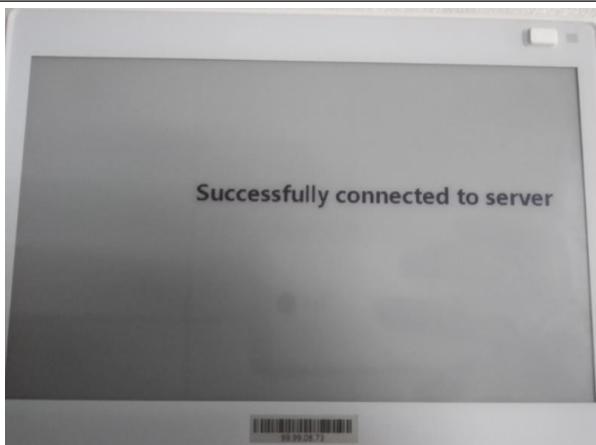


Step 2: Use a pin-shaped object to trigger the button in the hole next to the USB on the back of the device (make the label enter the configuration mode), Press and hold the back button (for 2-3 seconds) until the screen flashes. After flashing, the app will be automatically connected to obtain the setting data. The success is shown in the figure below.

After the parameters are obtained successfully, the label will restart automatically, and access the server with the new configuration parameters. If the access is successful, the default image will be downloaded from the server.

At this time, the tag will automatically connect to the hotspot named ESL, and once the connection is successful, new parameter information will be written





Step 3: Enter the operation interface to modify the content. Each time the heartbeat time is reached, the label will go to the server, if there is new content, download it to the label to update the screen, if not, continue to sleep

2.add tag to ESL system

Enter the operation interface and click My ESL, you will see the ADD button on the right side.

ID	ESL ID	battery level	ESL status	last access time	WiFi account	WiFi password	heartbeat time	operation
1	99.97.77.00	100%	Online	2021-05-25 21:32:36	MYHOME	Myhome12341974	20	
2	99.97.79.66	100%	Online	2021-05-25 21:32:40	Sridhar rao	sridhar1278	2	

Click Add button and tape in ESL ID, such as 99.99.03.04 ,then confirm it with pressing determine button.

ID	ESL ID	battery level	ESL status	last access time	WiFi account
1	99.97.77.00	100%	Online	2021-05-25 21:33:34	MYHOME
2	99.97.79.66	100%	Online	2021-05-25 21:33:35	Sridhar rao

2.3 Conference Management

a. Add conference, click add-on meeting button, Fill in the meeting time, member name,

conference room information, and select the template type, and finally save it.

The screenshot shows a left sidebar with navigation options: Home Page, management of meetings (highlighted with a red box), device management >, My table card, My AP, System setup >, Template management, and Help document. The main area is titled 'management of meetings'. It includes a search bar with 'Conference name' and a dropdown 'query' set to 'Add-on meeting' (highlighted with a red box). Below is a table with columns: id, Conference name, Conference Room, start time, End time, Template, Table number, size, Creation time, and operation. Four meetings are listed:

ID	Conference name	Conference Room	start time	End time	Template	Table number	size	Creation time	operation
1	Fonconn	1101	Dec 27, 2019 12:00:00 AM	Dec 27, 2019 11:59:00 PM	2.9合库模板	9	296 x 128	Jan 6, 2020 10:52:17 AM	Modify
2	4.2寸工位墨水屏	1101	Mar 25, 2020 12:00:00 AM	Mar 25, 2020 11:59:00 PM	4.2工位墨水屏三色	16	400 x 300	Jun 30, 2020 7:27:23 PM	Modify
3	302路	302	Jun 19, 2020 12:00:00 AM	Jun 19, 2020 11:59:00 PM	默认模板113	2	640 x 384	Jun 23, 2020 11:03:54 AM	Modify
4	301	301	Jun 20, 2020 12:00:00 AM	Jun 20, 2020 11:59:00 PM	默认模板108	1	640 x 384	Jun 19, 2020 5:26:14 PM	Modify



The right side of the screen shows a form for creating a new meeting. It includes fields for Conference name (test), Meeting time (2020-06-23 00:00:00 - 2020-06-23 23:59:00), Conference Room (A-301), and Template type (7.5寸EPD黑白红). Below the form is a table with columns: id, Table address, Label status, and bg01. Two rows are listed:

ID	Table address	Label status	bg01
1	99.95.66.40	更新完成	bg01
2	99.95.66.19	更新完成	bg01

At the bottom are buttons for Add, Remove, Refresh, export, import, and save.

b. Select a template, click "select" button, click the preview image of the template to be used, and then click Select.

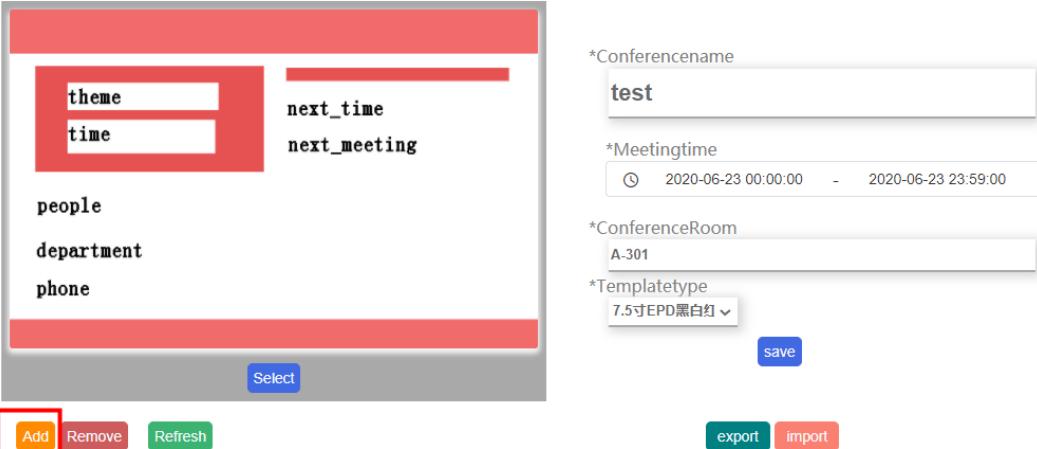


The right side of the screen shows a form for creating a new meeting. It includes fields for Conference name (test), Meeting time (2020-06-23 00:00:00 - 2020-06-23 23:59:00), Conference Room (A-301), and Template type (7.5寸EPD黑白红). Below the form is a table with columns: id, Table address, Label status, and bg01. Two rows are listed:

ID	Table address	Label status	bg01
1	99.95.66.40	更新完成	bg01
2	99.95.66.19	更新完成	bg01

At the bottom is a large blue 'Select' button, which is highlighted with a red box.

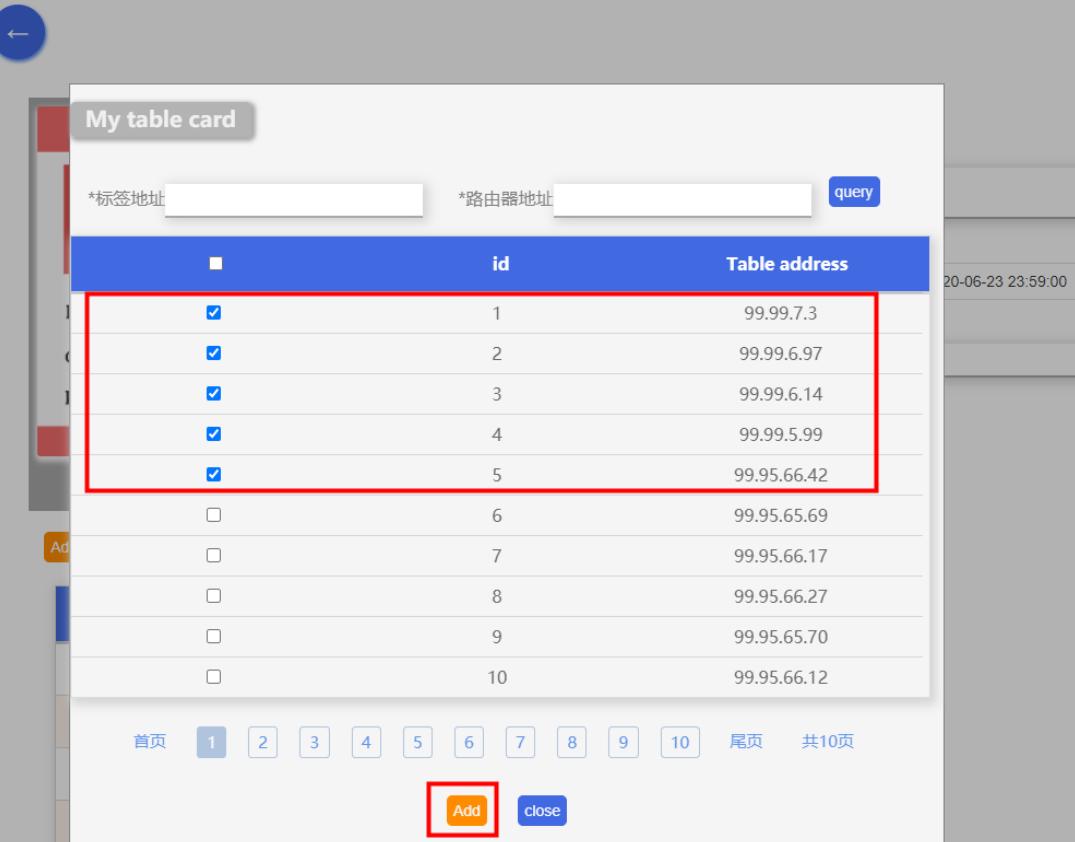
- c. To add ESLs, click "add" button, check the ESLs to be used in the Tags selection interface, and then click Add.



The screenshot shows the 'Tags Selection' interface. On the left, there is a sidebar with categories: theme, time, next_time, next_meeting, people, department, and phone. Below these is a 'Select' button. At the bottom are buttons for Add (highlighted with a red box), Remove, Refresh, export, import, and save.

On the right, there are several configuration fields:

- *Conferencename: test
- *Meetingtime: 2020-06-23 00:00:00 - 2020-06-23 23:59:00
- *ConferenceRoom: A-301
- *Templatetype: 7.5寸EPD黑白红



The screenshot shows the 'My table card' interface. It includes search fields for '标签地址' and '路由器地址' with a 'query' button. Below is a table with columns: id and Table address. Rows 1 through 5 are highlighted with a red box and have checked checkboxes in the first column. Rows 6 through 10 are shown below.

	id	Table address
<input checked="" type="checkbox"/>	1	99.99.7.3
<input checked="" type="checkbox"/>	2	99.99.6.97
<input checked="" type="checkbox"/>	3	99.99.6.14
<input checked="" type="checkbox"/>	4	99.99.5.99
<input checked="" type="checkbox"/>	5	99.95.66.42
<input type="checkbox"/>	6	99.95.65.69
<input type="checkbox"/>	7	99.95.66.17
<input type="checkbox"/>	8	99.95.66.27
<input type="checkbox"/>	9	99.95.65.70
<input type="checkbox"/>	10	99.95.66.12

At the bottom are navigation buttons: 首页, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 尾页, 共10页. The 'Add' button is highlighted with a red box.

Add
Remove
Refresh
export
import

■	id	Table address	Label status	bg01
<input type="checkbox"/>	1	99.95.66.40	更新完成	bg01
<input type="checkbox"/>	2	99.95.66.19	更新完成	bg01
<input type="checkbox"/>	3	99.95.66.21	更新完成	bg01
<input type="checkbox"/>	4	99.95.65.82	更新完成	bg01

2.4 Edit display information

- a. Single refresh: directly modify the field content, click the blank space on the desktop to save, it will be automatically checked, and the label status will be displayed as "waiting for update".
- b. Batch refresh: click "export" button, save the exported excel file locally according to the prompt, and open excel table.

After editing and modifying the file, click "import" button and select the modified excel file to import.

Add
Remove
Refresh
export
import

■	id	Table address	Label status	bg01
<input type="checkbox"/>	1	99.95.66.40	更新完成	bg01
<input type="checkbox"/>	2	99.95.66.19	更新完成	bg01
<input type="checkbox"/>	3	99.95.66.21	更新完成	bg01

2.5 Change ESL

1. After the information is edited, click "refresh" button to start updating ESL data. The status of the tag is "updating" and the update progress will be displayed.
2. When the update is completed, the tag status changes to "update completed".

The screenshot shows a software interface for managing Electronic Shelf Labels (ESL). At the top, there's a configuration form with fields for Conference name (*Conferencename: meeting), Meeting time (*Meetingtime: 2021-05-21 00:00:00 - 2021-06-30 23:59:00), Conference Room (*ConferenceRoom: 001), and Template type (*Templatetype: 7.5寸EPD黑白红). Below the form is a preview card with a red 'X' and the word 'Booked'. A 'Select' button is at the bottom of the card.

	ID	ESL ID	Label status	bg1	Booked	picture
<input type="checkbox"/>	1	99.97.77.88	update completed	bg1	Leaker	logo 10
<input type="checkbox"/>	2	99.97.77.66	update completed	bg1	Booked00	logo 10

Buttons at the bottom include Add, 移除标签 (Remove Label), 刷新标签数据 (Refresh Label Data), export, import, and save.

	ID	ESL ID	Label status	111	姓名	QR code
<input type="checkbox"/>	1	99.97.77.88	update completed	111	LEAKER	www.serta

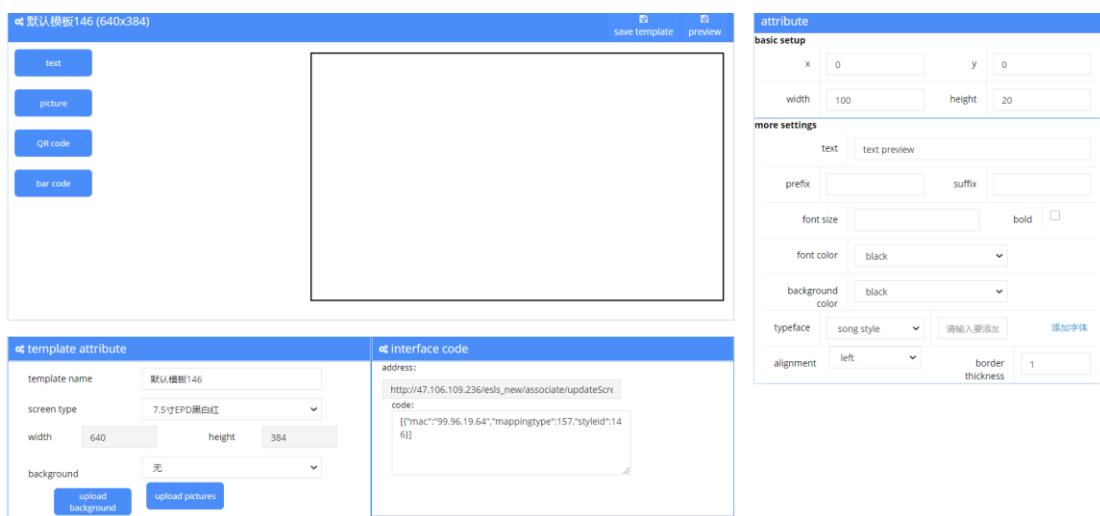
3.Add Template

1. Enter the "template management" interface and click Add template

Select the screen type to create the template, and then click OK.

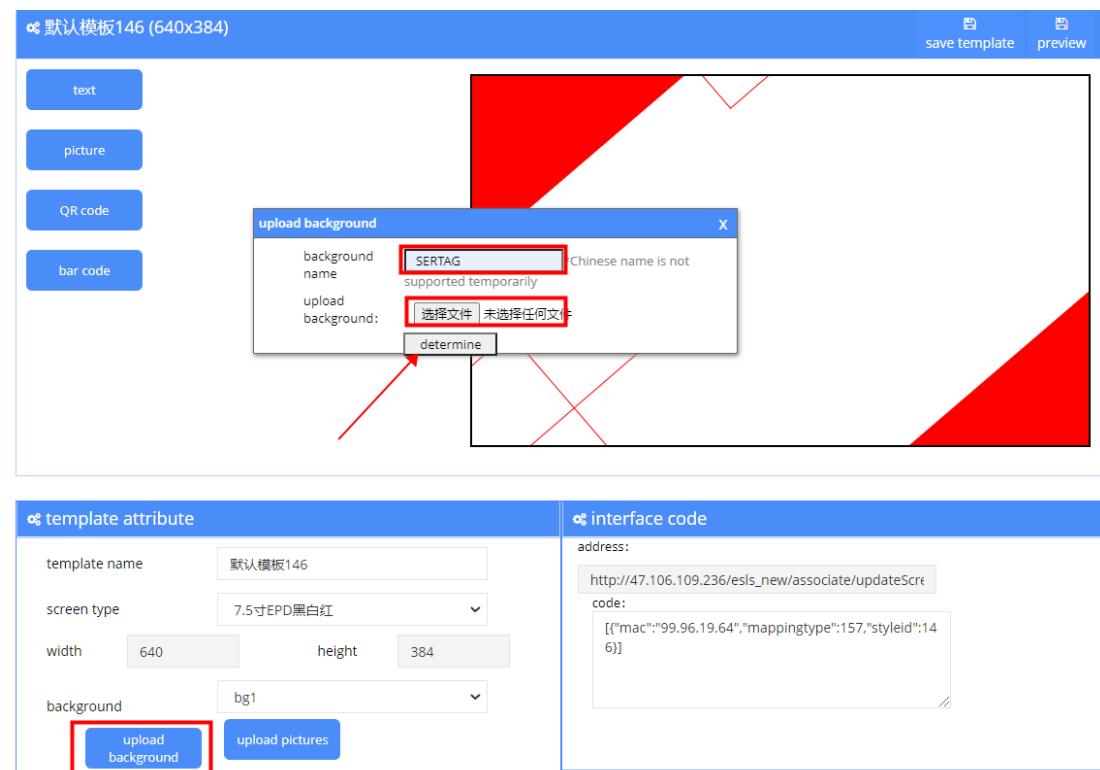


Enter the configuration template interface.

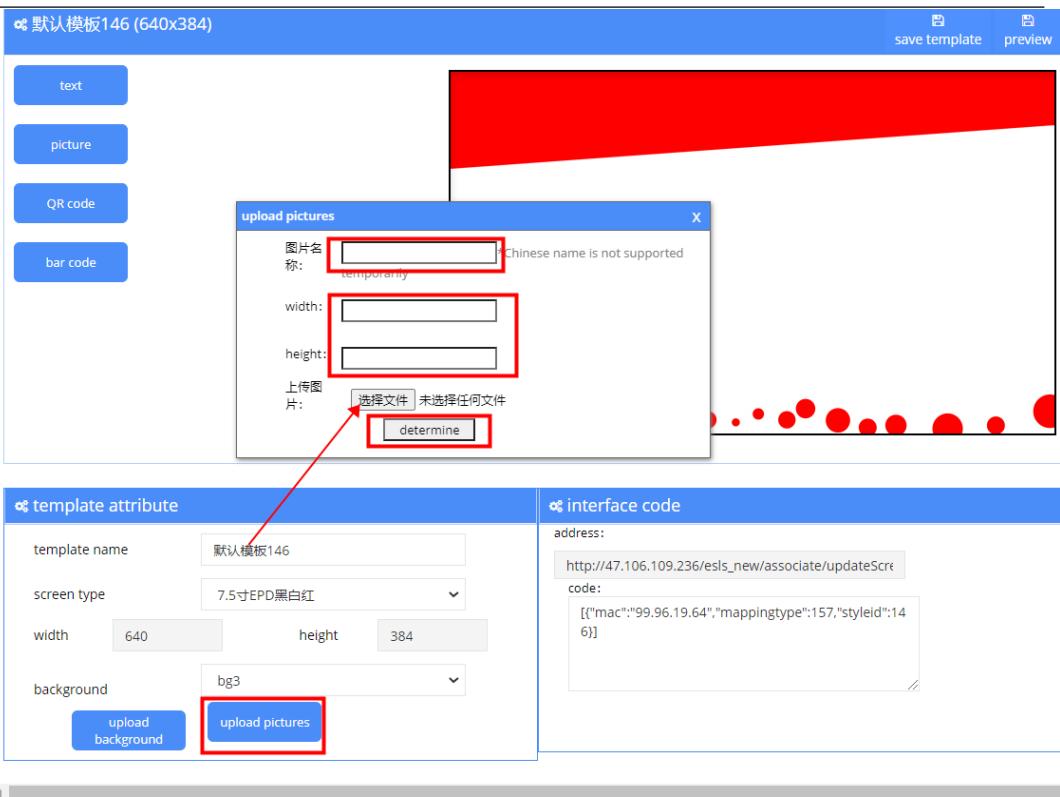


2. Upload background image and logo (if necessary)

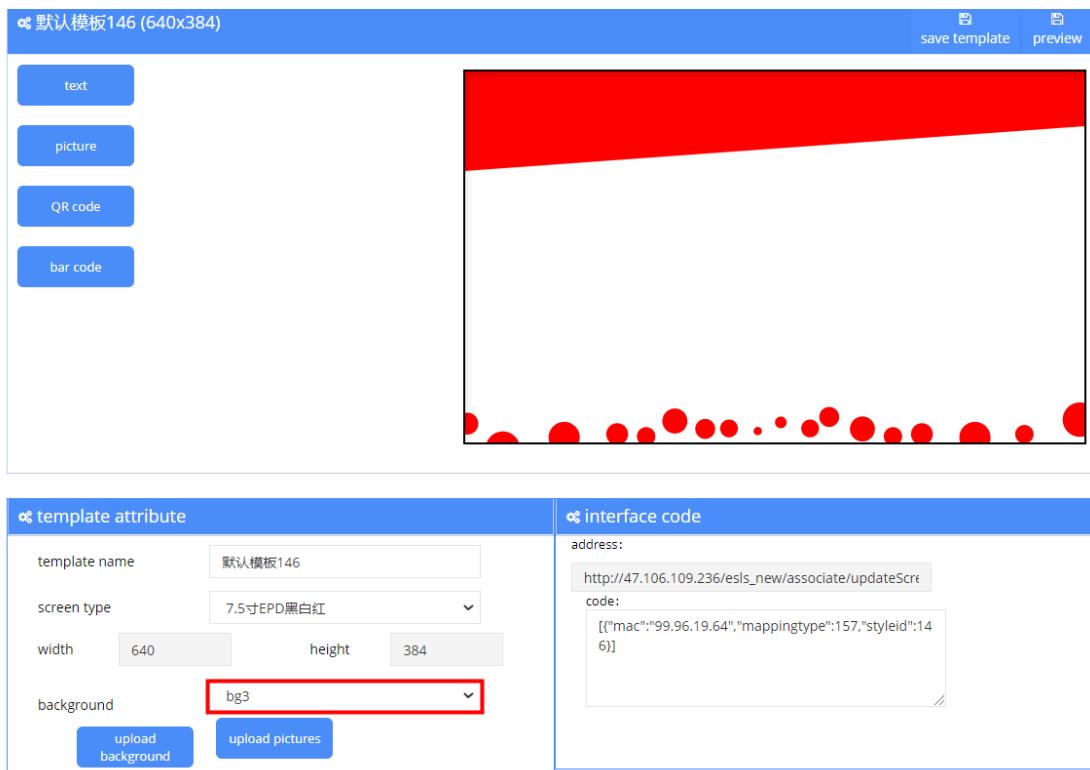
When uploading the background image, the screen resolution of the template is 640 * 384, then the uploaded background image should also be 640 * 384.



Upload ordinary picture or logo:

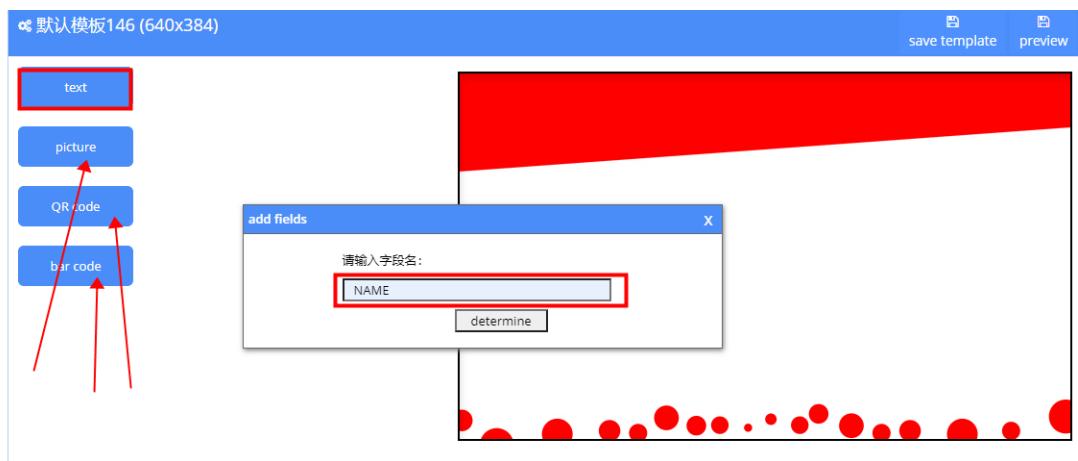


2. Modify the template name and select the background image.



3. Add Field

Click the field attribute on the left to add the corresponding field in the template. When adding, name the field you added, such as adding a "name" field, as shown in the following figure:



template attribute

template name	默认模板146		
screen type	7.5寸EPD黑白红		
width	640	height	384
background	bg3		
<button>upload background</button>			
<button>upload pictures</button>			

interface code

```
address:  
http://47.106.109.236/esls_new/associate/updateSc  
code:  
[{"mac":"99.96.19.64","mappingtype":157,"styleid":14  
6}]
```

Note: Field names cannot be repeated, they are unique.

Click the selected field and drag the mouse to adjust the position of the field and the size of the box. You can also configure the parameters of the field on the right side.

默认模板146 (640x384)

text1 属性

basic setup

x	111	y	100
width	405	height	243

more settings

text	SERTAG TECHNOLOGY		
prefix			
suffix			
font size	74	bold	<input checked="" type="checkbox"/>
font color	black		
background color	white		
typeface			
alignment	left	border thickness	1

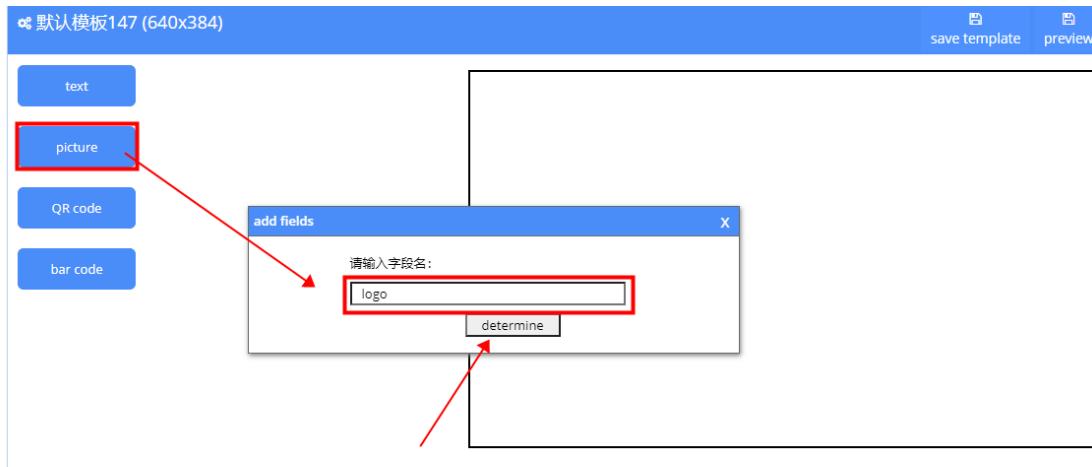
template attribute

template name	默认模板146		
screen type	7.5寸EPD黑白红		
width	640	height	384
background	bg3		
<button>upload background</button>			
<button>upload pictures</button>			

interface code

```
address:  
http://47.106.109.236/esls_new/associate/updateSc  
code:  
[{"mac":"99.96.19.64","mappingtype":157,"styleid":14  
6}]
```

4. Add a picture field or logo



template attribute

template name	默认模板147		
screen type	7.5寸EPD黑白红		
width	640	height	384
background	无		
<button>upload background</button>			
<button>upload pictures</button>			

interface code

```
address: http://47.106.109.236/esls_new/associate/updateScrn
code: [{"mac":"99.96.19.64","mappingtype":859,"styleid":147}]
```

Fill in the name of the uploaded logo in the text box to preview the template effect.

template attribute

template name	默认模板147		
screen type	7.5寸EPD黑白红		
width	640	height	384
background	无		
<button>upload background</button>			
<button>upload pictures</button>			

image1 属性

basic setup

x	345	y	18
width	241	height	210
<input type="button" value="select pictures"/> 无			

Note: the name of the uploaded image should be filled in the parameter of the image field when refreshing.

5. Save Template

默认模板149 (640x384)

save template **preview**

text
picture
QR code
bar code

The main area displays the Chinese National Emblem (Zhong Guo Jian Cha) inside a dashed blue border.

template attribute

template name	默认模板149		
screen type	7.5寸EPD黑白红		
width	640	height	384
background	无		
upload background		upload pictures	

interface code

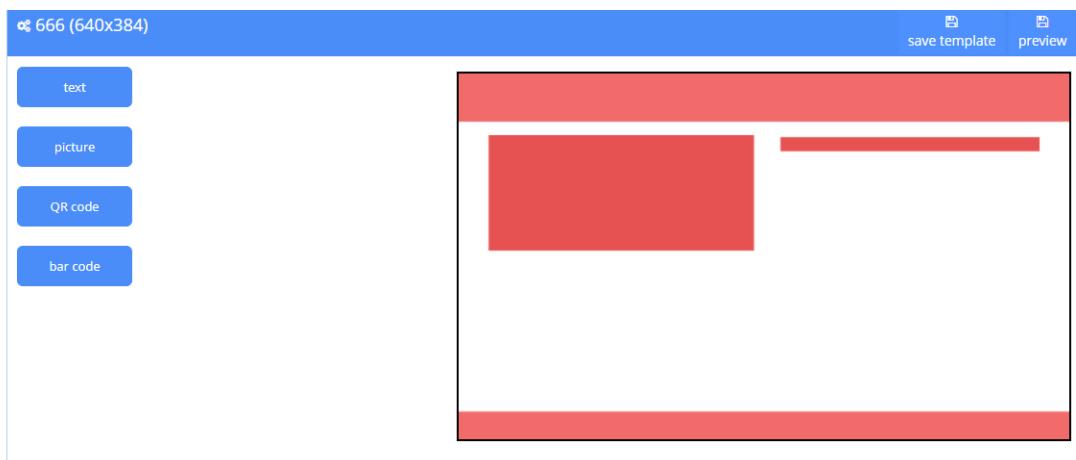
```
address: http://47.106.109.236/esls_new/associate/updateScreen
code:
[{"mac": "99.96.19.64", "mappingtype": 66, "styleid": 149
}]
```

6. Modify the template

Click preview or Modify button:

The left sidebar shows navigation options: Home Page, management of meetings, device management, My table card, My AP, System setup, and Template management (highlighted with a red box). The preview window shows template 666, which includes fields for theme, time, next_time, people, department, phone, company, personal, and contact information (username, department, position). A modal dialog is open over the preview, displaying '模板: 666' and two buttons: 'select' (highlighted with a red box) and 'close'.

Click Select button to enter the template configuration interface to modify it.



template attribute	interface code
template name: 666	address:
screen type: 7.5寸EPD黑白红	code:
width: 640	[{"mac":"99.96.19.64","mappingtype":506,"styleId":124,"bg01":""}]
height: 384	
background: bg01	
upload background	
upload pictures	