



Configuration Guide for Tuya Public Panel

Panel Development > Configuration Guide for Tuya Public Panel

Version: 20200221

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Note:

- Currently, the function of preview App Control Panel by scanning QR code is only available to the App accounts in China.
- Virtual devices are not supported well by bluetooth and ZigBee products, so problems may occur when preview the panel by scanning QR code. The final effect of the panel is subject to the real display of device.



1 Panel configuration of SoC products — Take Wi-Fi four-way socket as an example

Common categories: power accessories, smart LED lighting

Products use SoC development-free solutions only allow changes on the panel appearance and panel texts but not the function points.

1.1 Functional Requirements of Products

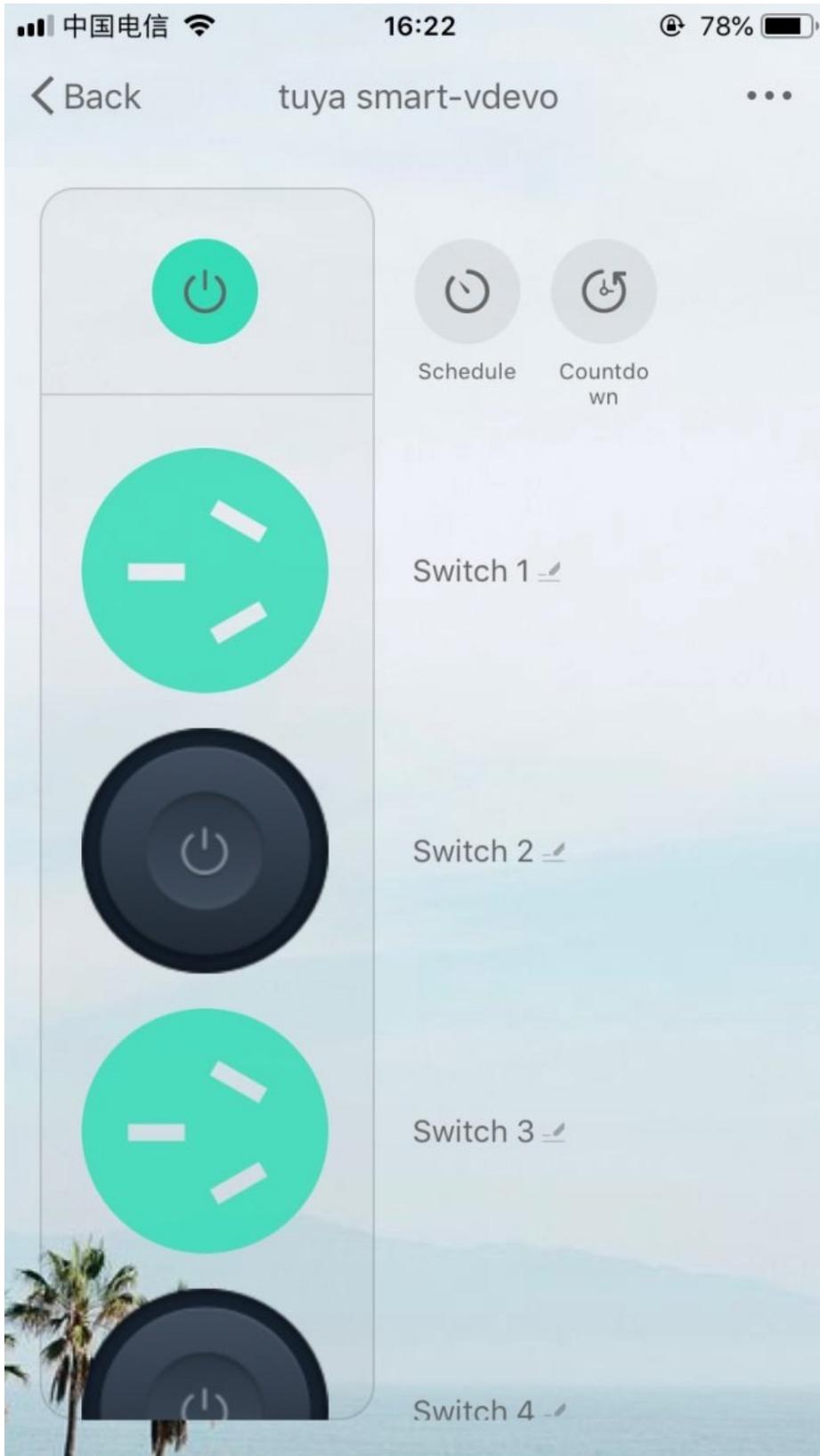
A four-way socket with two Chinese national standard sockets and two USB sockets



1. PANEL CONFIGURATION OF SOC PRODUCTS — TAKE WI-FI FOUR-WAY SOCKET Configuration Guide for Tuya Public Panel AS AN EXAMPLE



1.2 Display of Standard Panel



1.3 Configuration Steps

1.3.1 Set the Panel Style

In this section, you can change the pattern styles of the panel. The fixed style template and custom template are provided on the platform.

- a) Select a custom panel (only the panels have **Custom** tag in the upper left corner support custom modifications).

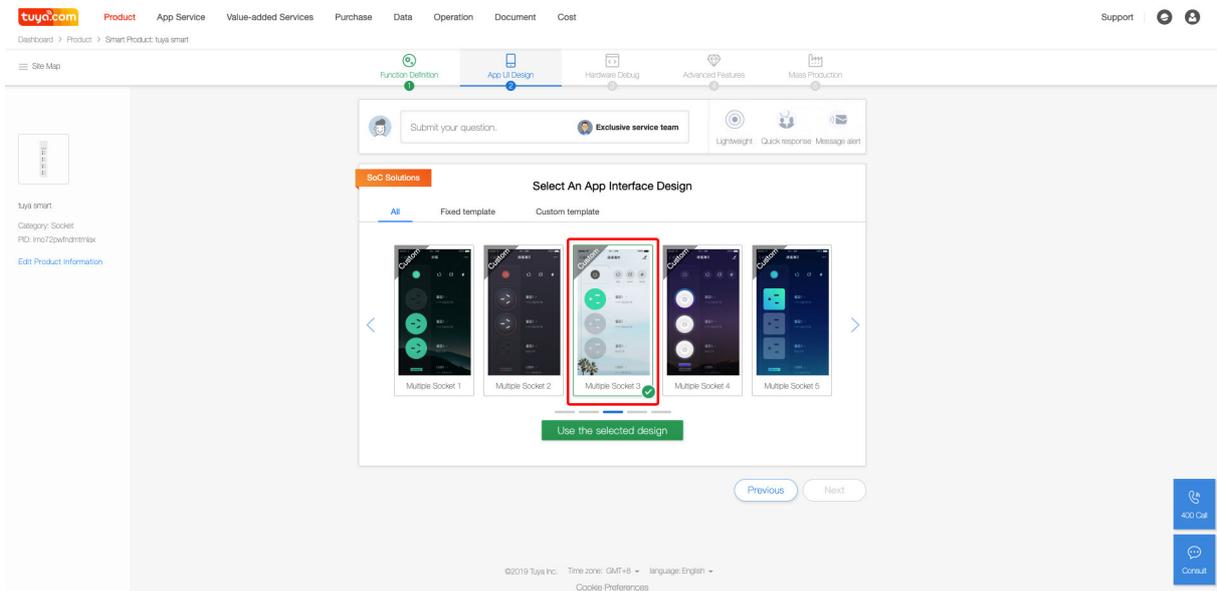


Figure 1: 1

- b) After selected, enter the template editing interface.

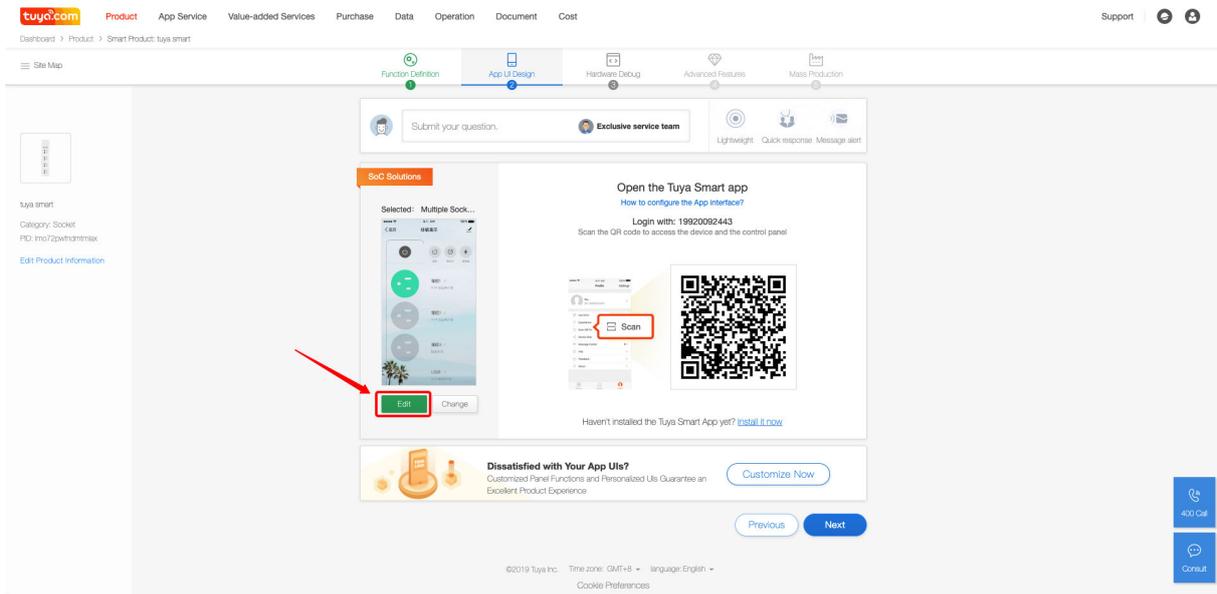


Figure 2: 2

c) Set UI background.

In this module, you can choose the background type of the App panel to set the keynote of the panel.

You can choose to use either a background color or a background image as the background of the panel. After editing, you can preview the effect by scanning the **QR code** on the right side of the page.

1) Background color

You can choose a preset color or use the hexadecimal RGB colors for background color. After finish, click [Save](#).

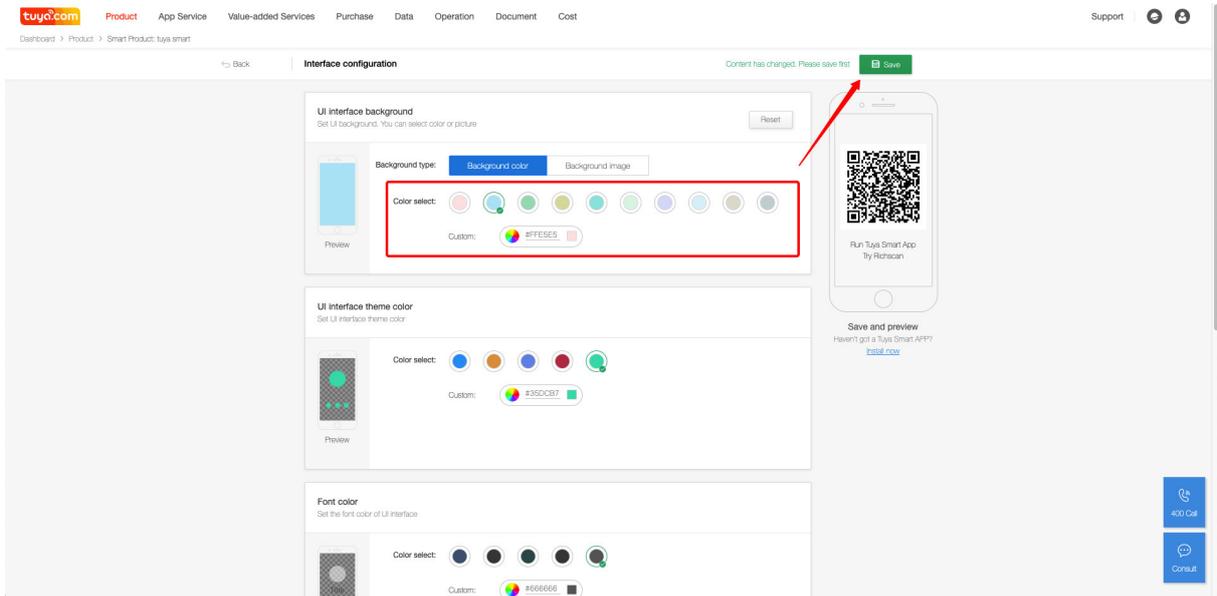


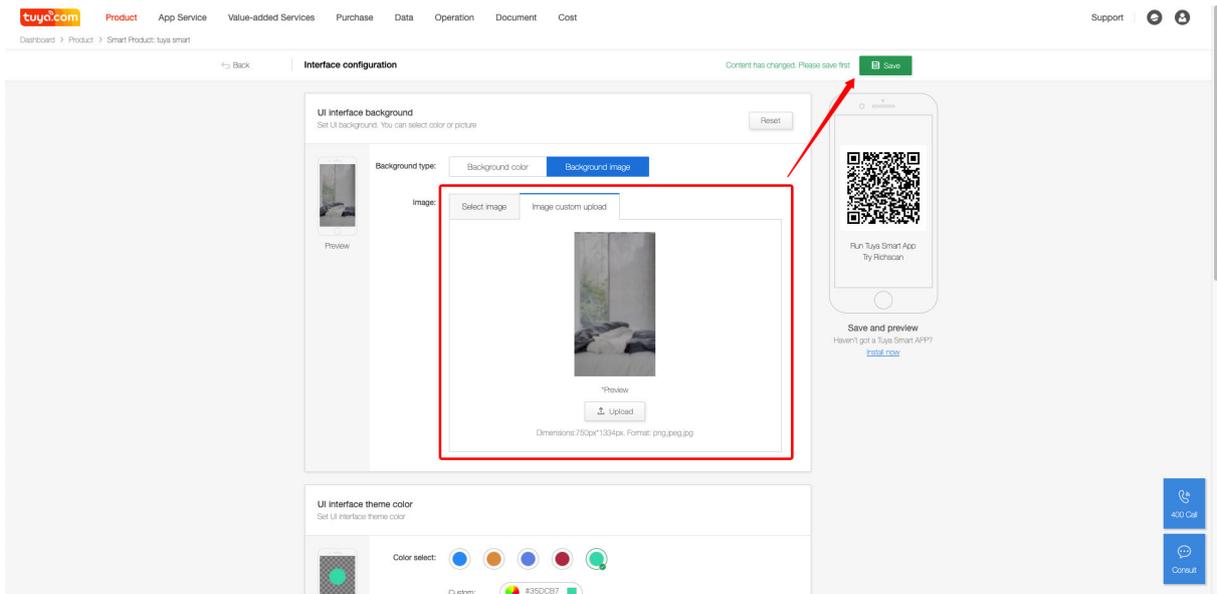
Figure 3: 3

II) Background image

You can choose a preset image or upload a custom image.

Note: Requirements for image: Dimensions: 750px*1334px, Format: png, jpeg, jpg.

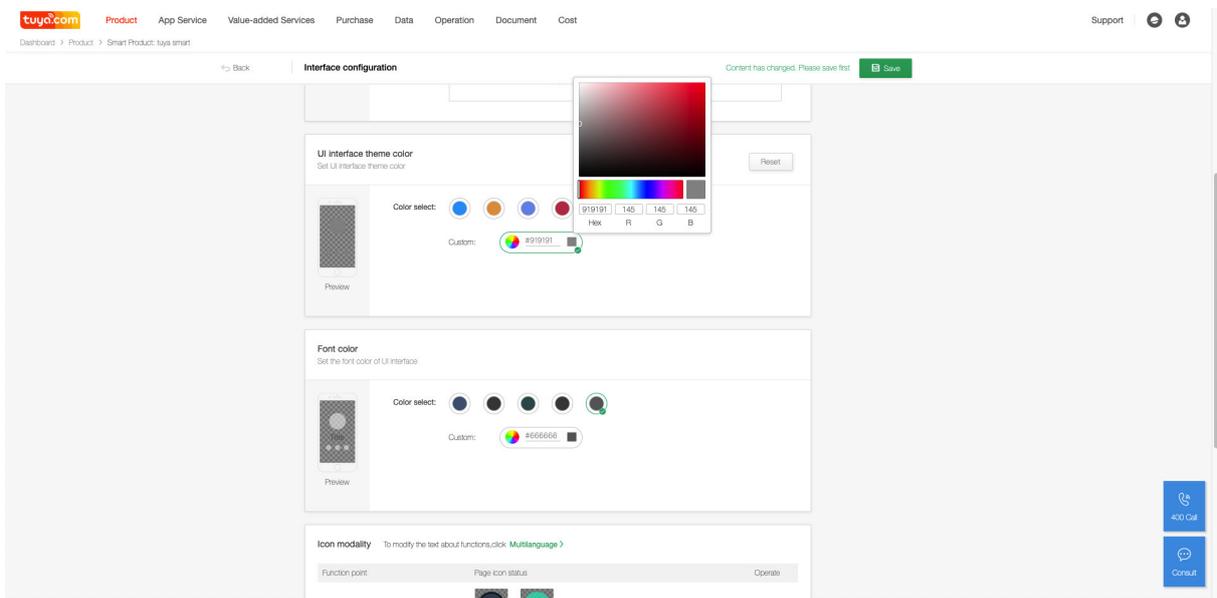
After finish, click [Save](#).



d) Set UI interface theme color.

In this module, you can choose the theme color of the panel. For example, the theme color in the four-way socket panel is presented as the background color of the main switch.

You can choose a preset color or use a hexadecimal RGB color for the theme color. After editing, click “Save”. You can preview the effect by scanning the **QR code** on the right side of the page.



e) Set the font color.

In this module, you can choose the font color to be displayed on the panel. You can also change the foreground color of the button icon for the four-way socket panel.

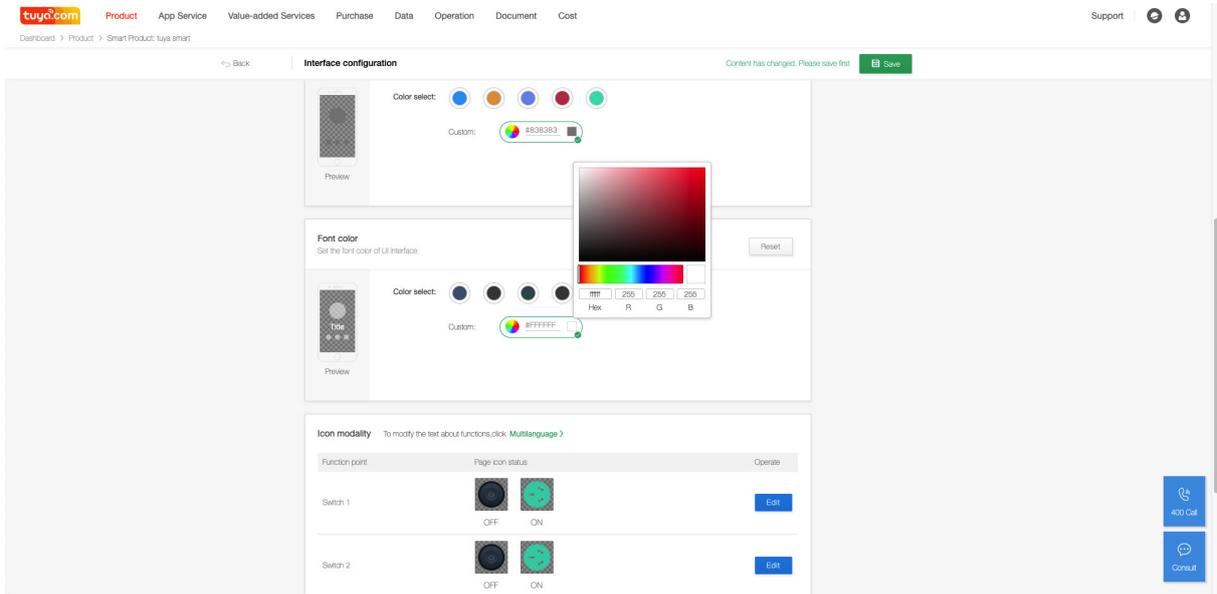
You can choose a preset color or use a hexadecimal RGB color for the font color. Click on the color block next to the color code to use the palette for color selection.

After editing, click “Save”. You can preview the effect by scanning the **QR code** on the right side of the page.



1 PANEL CONFIGURATION OF SOC PRODUCTS — TAKE WI-FI FOUR-WAY SOCKET AS AN EXAMPLE

Configuration Guide for Tuya Public Panel AS AN EXAMPLE

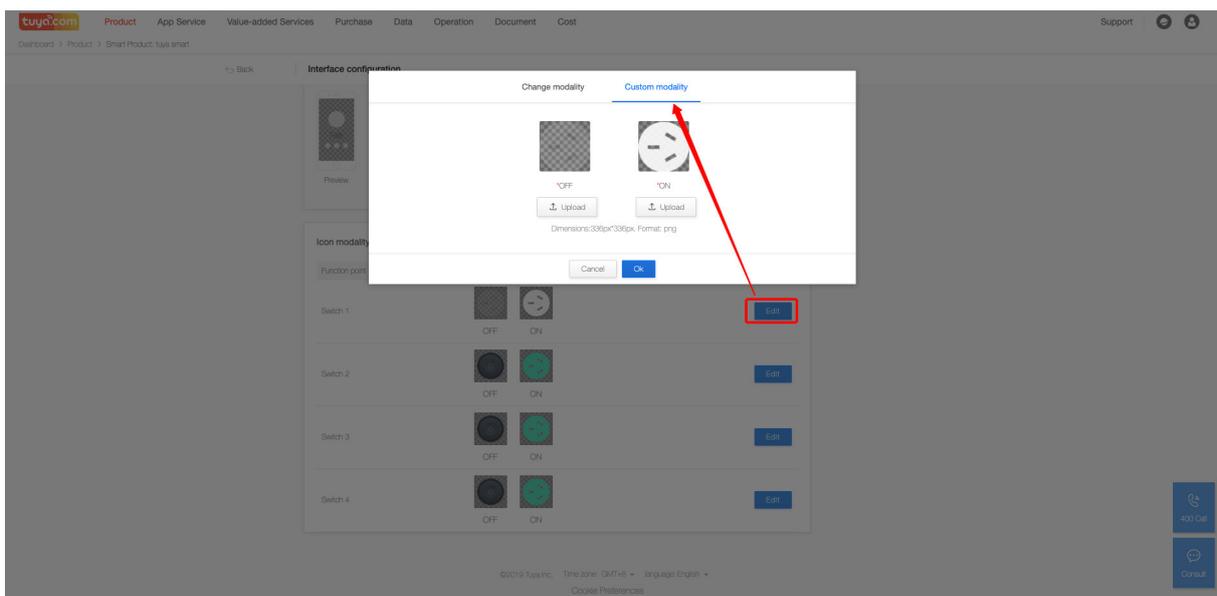


f) Edit icon style.

In this module, you can choose the icon style to be displayed on the panel or upload custom images for the icon. You can choose the specification and style of the socket on the four-way socket panel.

Note: Requirements for images: Dimensions : 336px*336px, Format: png.

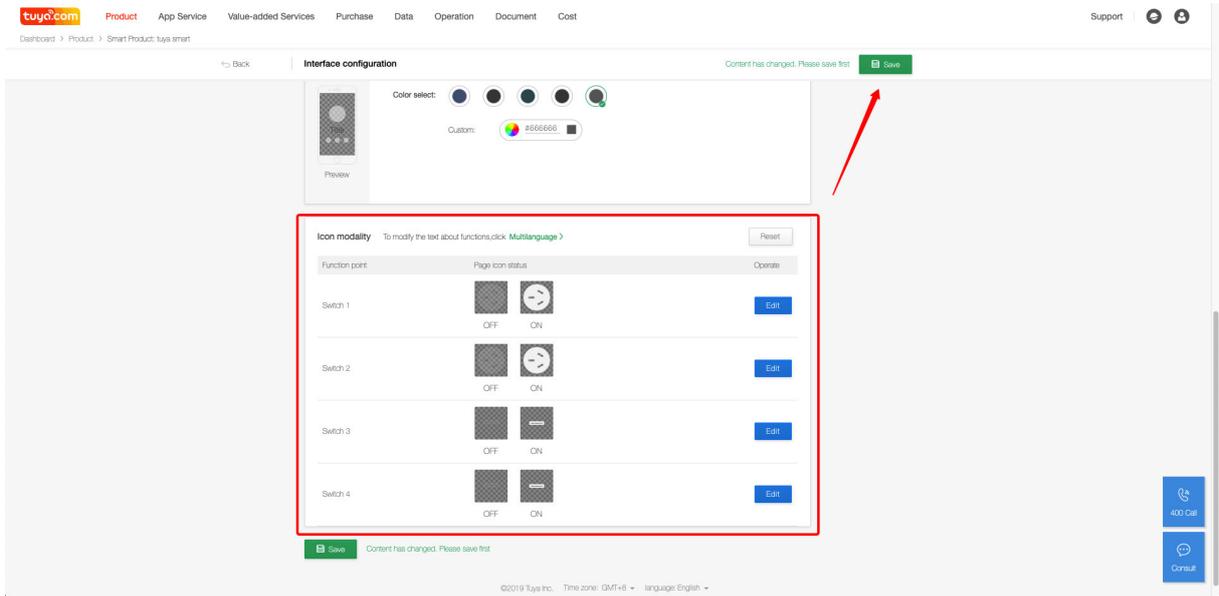
After editing, click “Save”. You can preview the effect by scanning the **QR code** on the right side of the page.





1. PANEL CONFIGURATION OF SOC PRODUCTS — TAKE WI-FI FOUR-WAY SOCKET AS AN EXAMPLE

Configuration Guide for Tuya Public Panel AS AN EXAMPLE

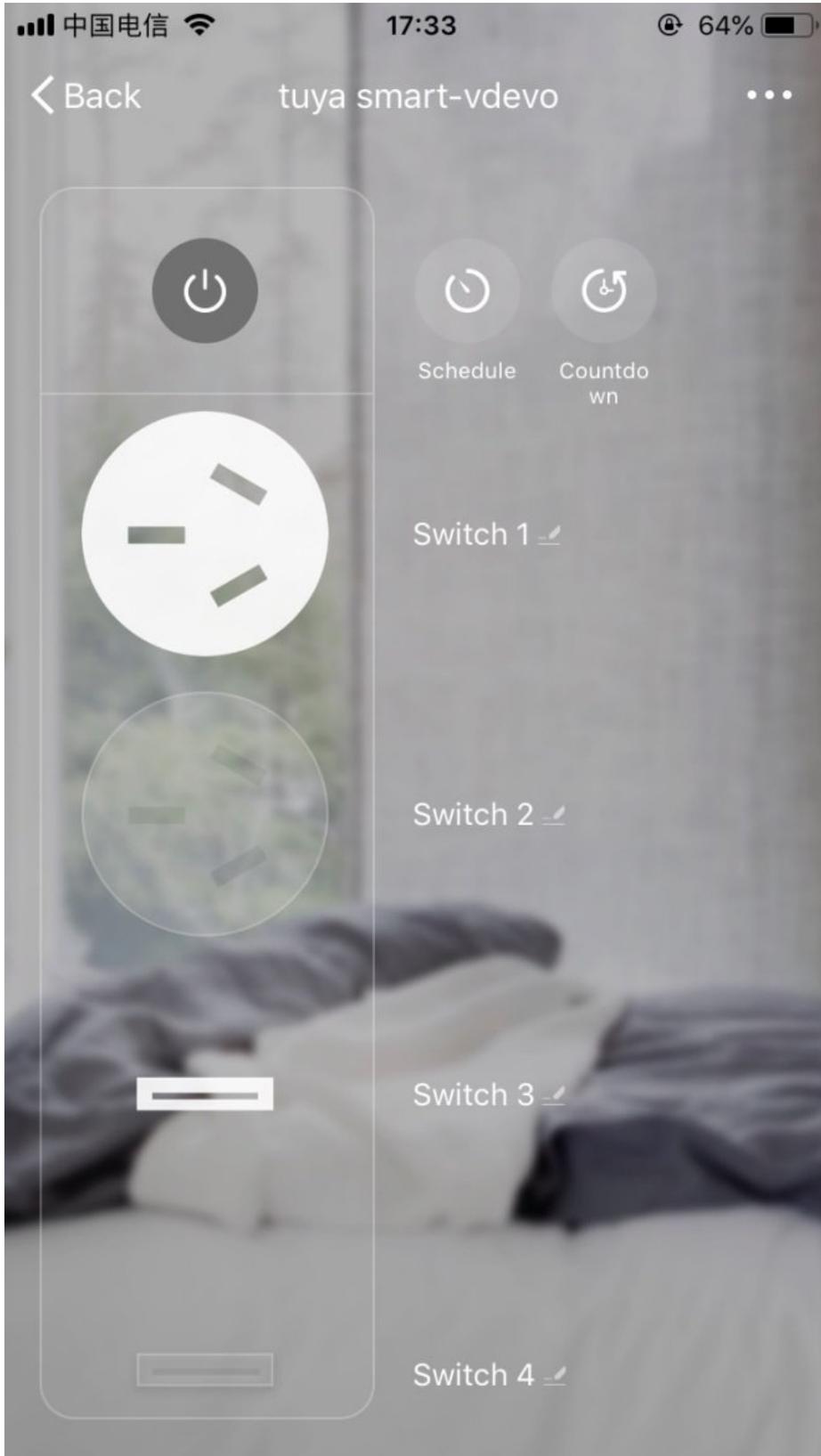


The modified panel is shown as below.



1. PANEL CONFIGURATION OF SOC PRODUCTS — TAKE WI-FI FOUR-WAY SOCKET AS AN EXAMPLE

Configuration Guide for Tuya Public Panel AS AN EXAMPLE





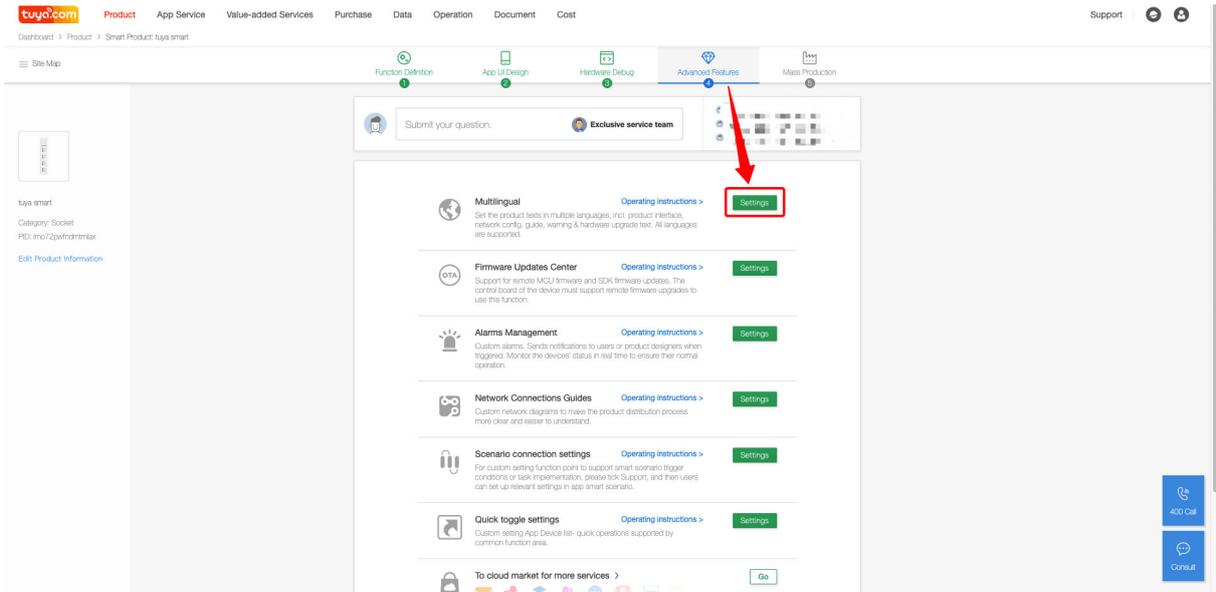
PANEL CONFIGURATION OF SOC PRODUCTS — TAKE WI-FI FOUR-WAY SOCKET AS AN EXAMPLE

Configuration Guide for Tuya Public Panel

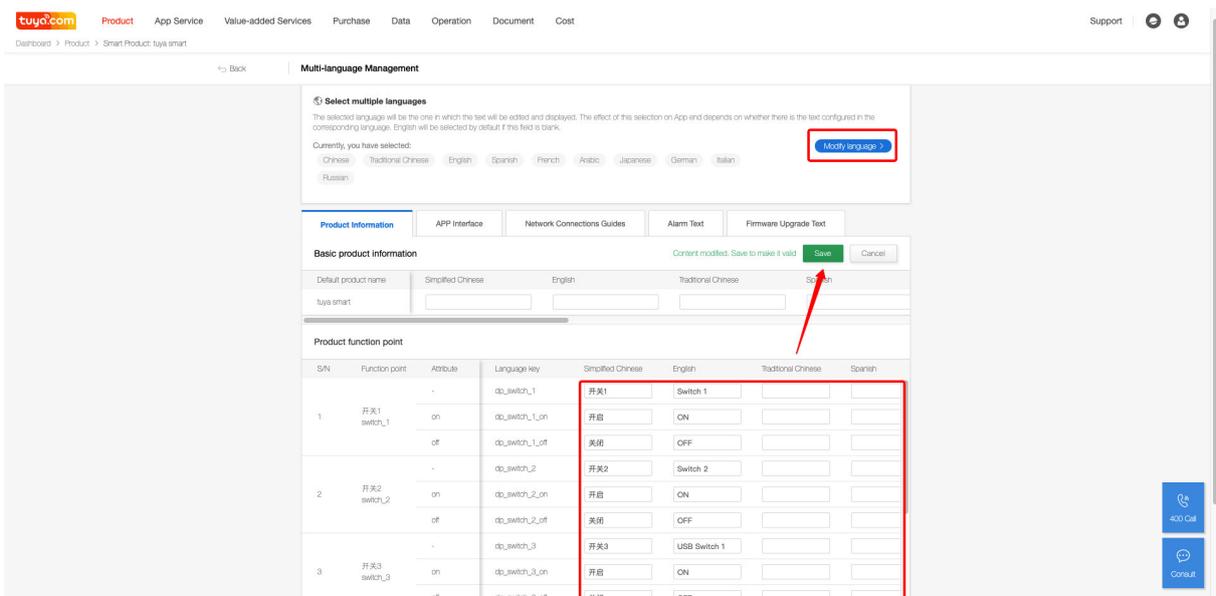
1.3.2 Set the panel text. (Clean up the App cache or re-scan the code if the modification is ineffective.)

You can edit the panel text in the [Multilingual](#) module.

a) Go to [Multilingual](#).



b) In the [Product Information](#), you can edit the field texts related to the data points.



According to the settings of the panel icon, make modifications as follows:



Before	After
Switch 3	USB Switch 1
Switch 4	USB Switch 2
Switch 3 Count Down	USB Switch 1 Count Down
Switch 4 Count Down	USB Switch 2 Count Down

After the modification is completed and saved, the App panel is shown as below:



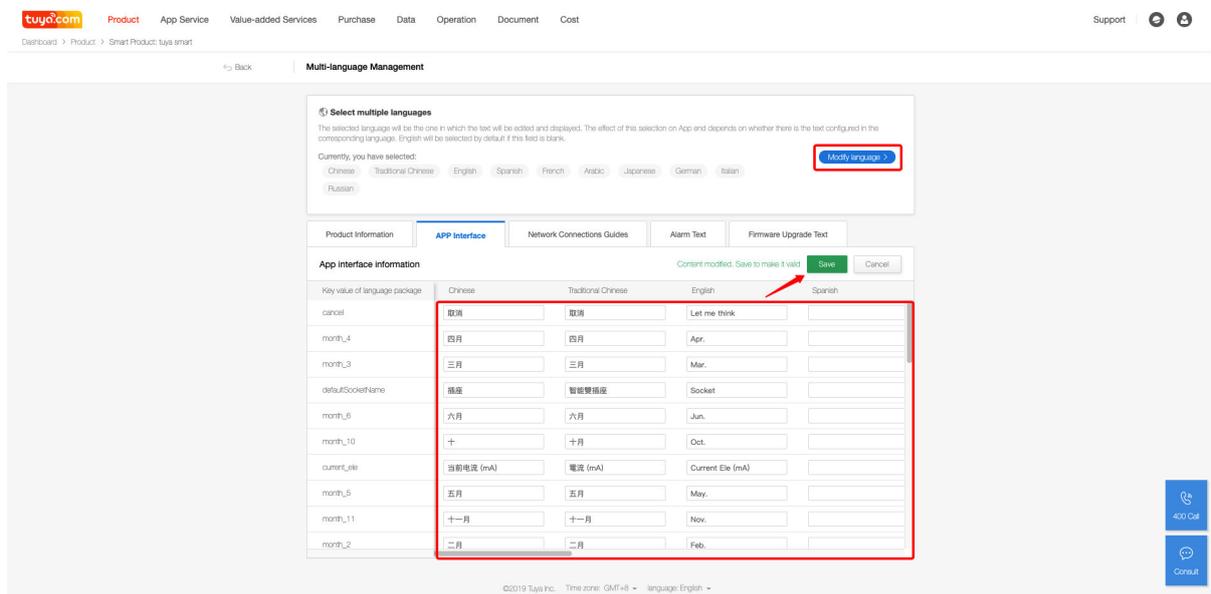


PANEL CONFIGURATION OF SOC PRODUCTS — TAKE WI-FI FOUR-WAY SOCKET AS AN EXAMPLE

Configuration Guide for Tuya Public Panel

AS AN EXAMPLE

c) In the **App Interface**, you can edit the field texts other than the data points.



Make the following modifications.

Before

After

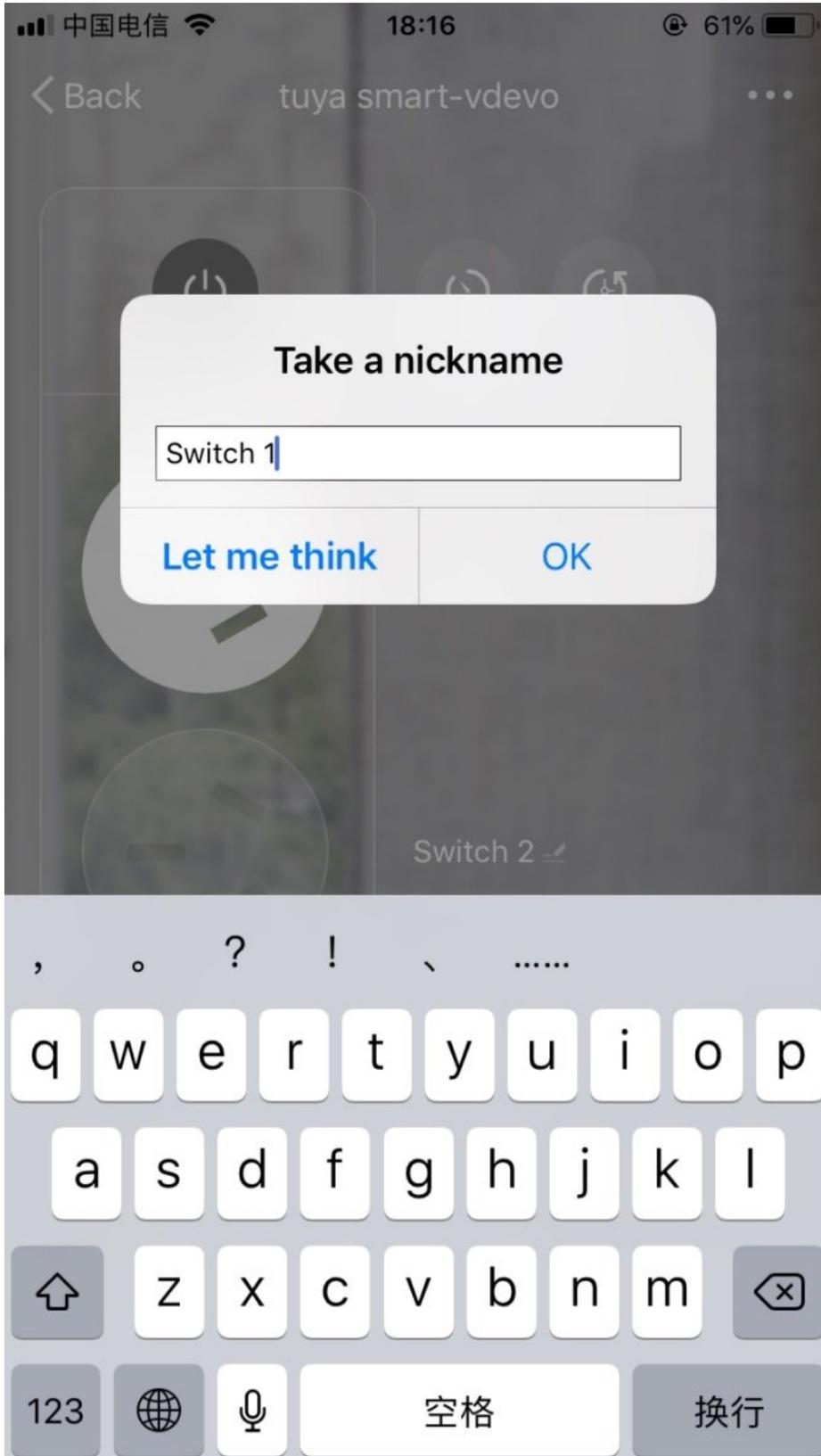
Cancel

Let me think

Rename

Take a nickname

The effect of the panel is shown as below:





2 .Panel configuration for MCU products — Take Wi-Fi air purifier as an example

Common categories: small household appliances, kitchen appliances, sensors

Because of the MCU products have editable data points, you can add or delete product functions on the public panels which support custom.

For the guide of defining data point type, see: <https://docs.tuya.com/en/iot/configure-in-platform/function-definition/custom-functions>

Note:

- Because the Tuya Public Panel is one-to-one correspondence with the default standard data points, the lack of some `required standard data points` may cause the panel fails to load; some `standard data points` may cause the incomplete functions of the panel.
- The cumulative addition of more than 25 standard functions points and custom function points on some devices may affect the stability of the device. Please operate with caution. Support adding up to 40 function points (excluding the cloud functions).

2.1 Functional Requirements of Products

1. Show indoor temperature and humidity, TVOC and formaldehyde (HCHO) concentration on the panel.
2. Add a pendulum switch to the panel.
3. The font color of indoor PM2.5 concentration number changes according to the concentration value (0-50 is green; 50-100 is yellow; more than 100 is red).
4. Display the weather icons rather than simple text for outdoor weather information.
5. Remove the display of indoor PM2.5 concentration curve.



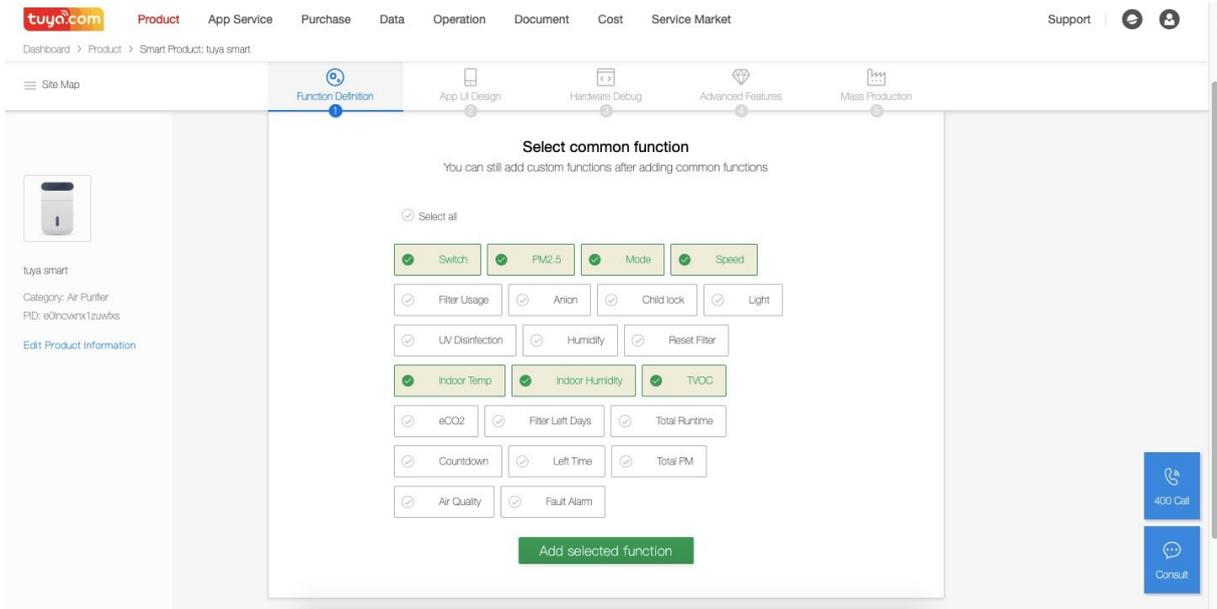
2.2 Display of Standard Panel



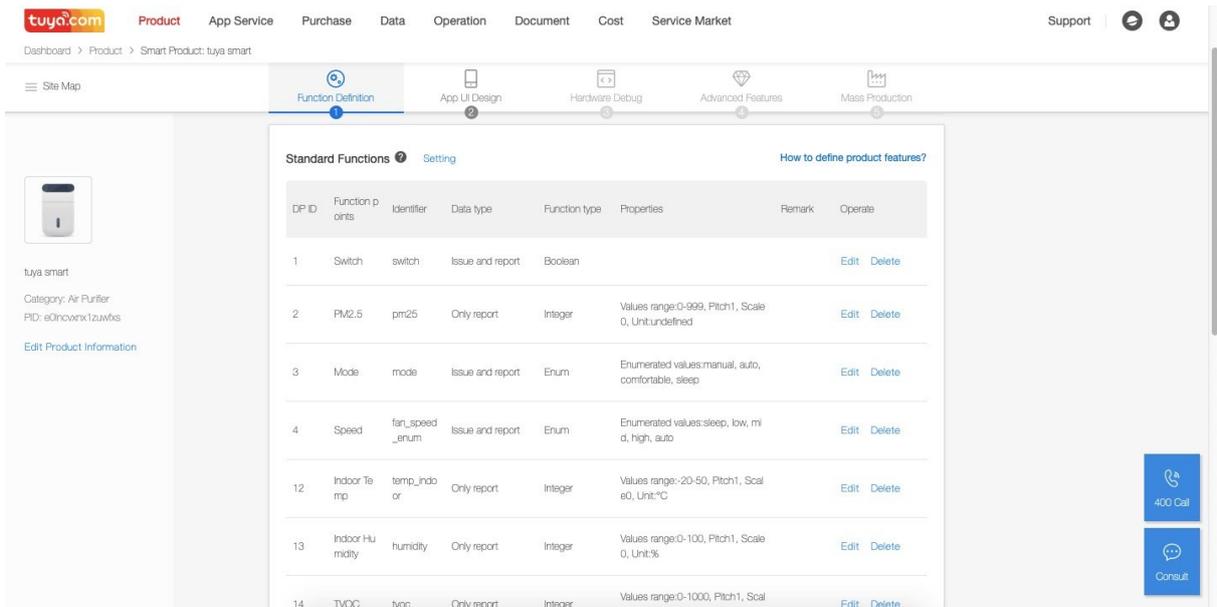
2.3 Configuration Steps

2.3.1 Set data points.

a) Check the standard data points in the following figure according to product requirements:



b) After determination, the details of data points are shown as follows:

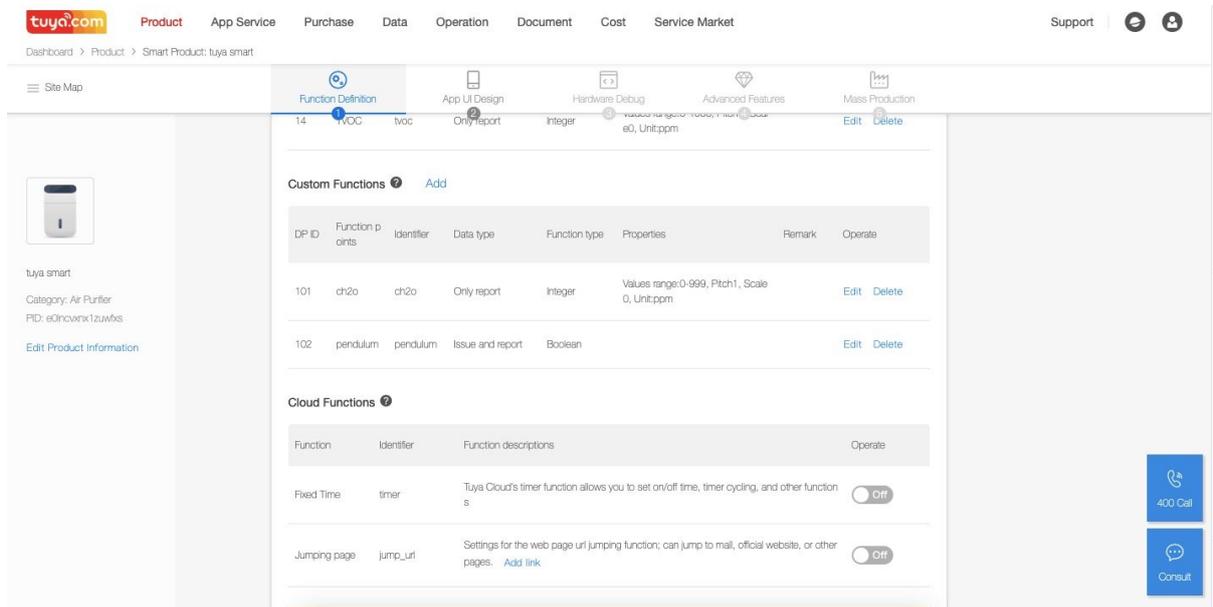


c) Add the following custom data points according to product requirements.

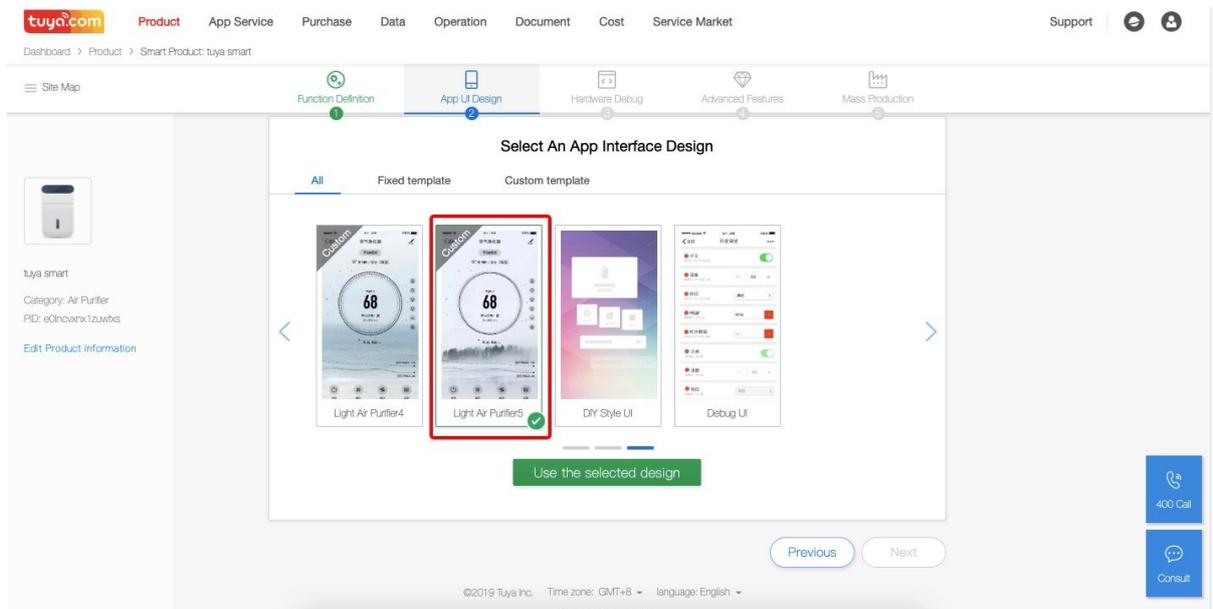


2.3.2 PANEL CONFIGURATION FOR MCU PRODUCTS — TAKE WI-FI AIR PURIFIER AS AN EXAMPLE

Configuration Guide for Tuya Public Panel



d) Choose a public Air Purifier template.



2.3.2 Set multilingual text (Clean up App cache or re-scan the code if the modification is ineffective)

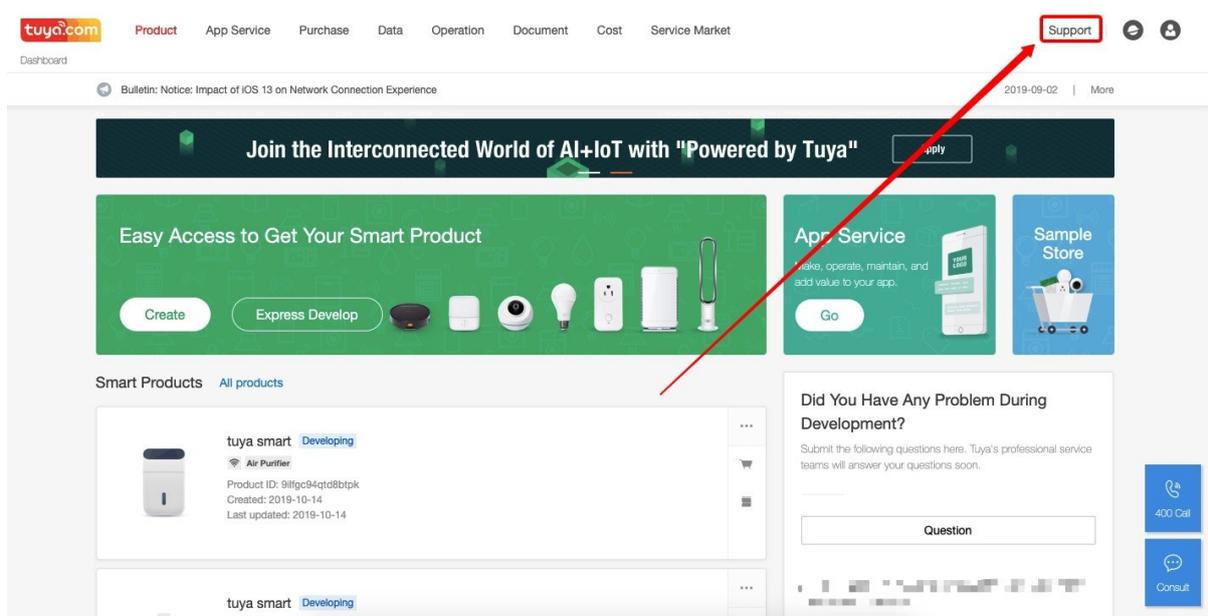
Supplement the multilingual texts as follows:

Function Number	Function point	Attribute value	Language package key value	Chinese (Simplified)	English
14	TVOC	-	dp_tvoc	TVOC	TVOC
	tvoc	unit	dp_tvoc_unit		
101	甲醛	-	dp_ch2o	甲醛	CH2O
	ch2o	unit	dp_ch2o_unit		
102	摆叶	-	dp_pendulum	摆叶	Pendulum
	pendulum	on	dp_pendulum_on	开	On
		off	dp_pendulum_off	关	Off

2.3.3 Change functions by submitting work orders

The font color for PM2.5 number, weather icon, and indoor PM2.5 concentration curve can only be modified by Tuya by configuring the background code. To modify these functions, please submit a work order to apply for changes.

a) Where to submit a work order?



b) After the change, the panel style is shown as follows:



2.4 Precautions

1. Do not choose `Char type` or `RAW type` for custom functions, otherwise the public air purifier panel may crash.
2. In the Custom Function section, the `Data report` type DP will be displayed in the `Home` interface, and the `Control and report` type DP will be displayed in the `Settings` interface.
3. The `Fault` type function does not display.



3 Public Panel Configurable Items

The graffiti public panel supports a wide range of custom function configurations, but currently the following features need to be contacted by the graffiti staff for configuration. If you need it, you can submit a work order and attach a PID to request a configuration for the graffiti. For the work order submission method, please refer to the second part of this document - configuration steps - the third step.



Configuration Guide for TUYA PANEL CONFIGURABLE ITEMS

Category	Configurable item	Tips	
Electrical Engineering	Multi-way Socket	Whether to support power statistics	The dp point is incremented by the number of the standard dp identifier suffix, and the panel automatically recognizes and increases the number of switches and sockets.
		Whether to support group countdown	
		Whether to support group power statistics	
	Socket	Icon on the right side of the head bar (showing a horizontal bar or a pencil)	
		Whether to flip the socket order	
		Socket layout: (default vertical)	
	Switch	Whether to display electricity statistics	
		Whether to display the group countdown	
		Whether to display group battery statistics	
		Whether to display electricity statistics	
		Whether to display the group countdown	
		Whether to display group battery statistics	
Lighting	White Light menu bar	Mode and brightness DP are determined together	Required DP: 20, 21, 25, 28 (switch, mode, scene, adjustment)
	Color menu bar	Mode and color DP are decided together	
	Scene menu bar	Mode and situation DP decide together	
	Music Lights menu bar	Mode and music light DP jointly decided	
	countdown timing	Determined by the countdown DP point Cloud timing decision	
Small Home Appliances	Air purifier	Whether the indoor PM2.5 curve is displayed	"Custom function cannot select character or raw type; Selecting only the reported numeric value in the custom function will be displayed directly on the main interface. Selecting Boolean and Enumeration in the custom function will be displayed directly in the settings."
		Indoor PM2.5 numeric font color changes according to numerical values	
		Outdoor weather display copy or icon	
	Fan	Turn on the sub-control renaming configuration of the lights on the panel	
Electric teapot	Add new configurable items and values to the timing selection list	Required DP: work switch, working status, work type	
Kitchen appliance	The DP identifier adds a function point in the format of cook_mode_XXX. The DP will appear on the main panel, and other DPs appear in the setup interface.		
Sensor	Whether to support offline reminders (default support)	Configurable cloud does not do duplicate data filtering (default filtering duplicate data)	
	Device sleep time (copywriting display, default: 12 hours)		
	Whether to support historical data export function (not supported by default)		
	Shield group countdown		
	Shield battery status		
	The device is canceled after the default is 25. Therefore, you need to perform additional configuration for products that need to receive the report "none" to cancel the alarm.		
	Convert existing bottom history interactions into historical and alarm management modes		
	Whether to hide the APP home alarm prompt		
	How many milliseconds to configure the trigger class alarm delay becomes an unalarmed state, the default is 2000ms. Unit (ms)		
	Flip the enumeration battery range (do display distinction)		
	Whether to display a low battery reminder		
	Whether to hide the alarm class prompt box		