

# **Quick Start**

Version: 20210602



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This topic introduces how to use the Tuya IoT Platform to fast create a smart product. You can scan a QR code with the Tuya Smart mobile application to get a browsing experience.

# **1** Preparation

- 1. Go to the account registration page, and follow the guide on the page to obtain a developer account.
- 2. (Optional) Complete the enterprise certification. For more information about the enterprise certification, see the Enterprise certification process.

**Note**: An enterprise account refers to the account registered on the Tuya IoT Platform, and after you fill in the relevant information of your company, it passes the certification of Tuya Smart. At present, the enterprise certification mainly requires the business accounts of your company. The account that completes the Tuya Smart authentication will have more account benefits. For more information, visit Cloud Market.

**Important**: The account you registered has administrative permission. Please keep your account properly to prevent the smart hardware products, apps, device operations, or user data from being subject to security risks.

## 2 Procedure

#### 2.1 Step 1: Create a product

- 1. Log in to the Tuya IoT Platform console.
- 2. Click Create.

Quick start and product development	Create	Product Management
Provides plug-and-play and custom solutions to help you develop smart products quickly at low costs.		

3. Choose a category and a product. For example, choose a product under the **Small Home Appliances**, and click the icon of the air purifier.

Standard Category		Search Product Solutio	Q
Electrician Lighting	Selected Category Reselect		
Large Home Appliances	, Air Purifier		
Small Home Appliances			
Kitchen Appliances	2 Choose a product plan		
Security & Sensors			
Exercise & Health	Custom Solution		
Gateway Control	Air Purifier		
Energy	Suitable for functions such as Air Purifier Program Details		
Entertainment	riogram berans		
Industry & Agriculture			
Others	3 Improve product information		

**Important**: The product category is very important, which will affect the subsequent product functions and recommendations of the app panel. If the product category you need is not available, contact Tuya Smart to add it.

#### 4. Fill in the **Product Name** and **Product Model**, select the **Networking Method**, and click **Create Product**.

* Product Name:	Tuya-Air Purifier-TYW3S
Product Model:	X-serial
* Networking Method :	WiFi+Bluetooth Wi-Fi Zigbee BLE NB-IoT
	WiFi+Bluetooth networking, recommended to use with APP version 3.17.6 or higher, if there are other problems, you canSubmit a ticket
* Consumption Type :	Standard Power Consumption

#### 2.2 Step 2: Set product functions

**Function** refers to the functional abstraction of a smart product, which is one of the most important attributes of a product. Functions are represented by different data points (DP for short). For example, a **switch** has functions of **on** and **off**. You can define the switch as a Boolean DP, with 1 indicating on and 0 indicating off.

- 1. Go to the development page of the smart product and enter the **Function Definition** step.
- 2. According to the guide on the page, select multiple standard product functions.

**Note**: In the **Standard Functions**, the Tuya IoT Platform console has set some **Required** DPs according to the category you selected. You cannot delete the data point with the **Required** mark.



Create Standard Functions						
Choose Air Purifier Functions	All	Selected features(4)	Remove optional DP			
Filter Usage DP ID: 5 Identifier: filter	$\geq$	Speed DP ID: 4 Identifier: fan_speed_e	num ×			
Anion DP ID: 6 Identifier: anion	$\geq$	Mode DP ID: 3 Identifier: mode	×			
Child lock DP ID: 7 Identifier: child_lock	>	PM2.5 DP ID: 2 Identifier: pm25	×			
Light DP ID: 8 Identifier: light	$\mathbf{\Sigma}$	Switch DP ID: 1 Identifier: switch	×			
UV Disinfection DP ID: 9 Identifier: uv	$\geq$					
Humidify DP ID: 10 Identifier: wet	>					
Reset Filter DP ID: 11 Identifier: filter_reset	>					

- 3. Click **Confirm** to complete the addition.
- 4. (Optional) If the product function you want to add is not one of the standard functions, you can click **Create Functions** at the **Custom Functions** area, or enable some **Cloud Functions**.

andard Fu	inctions 💮							+ Create Function
DP ID	Function points	Identifier	Data type	Function type	Properties		Remark	Operate
1	Switch	switch	Issue and report	Boolean				Edit Delete
	PM2.5	pm25	Only report	Integer	Values range:0-999, Pit	ch1, Scale0, Unit:		Edit Delete
3	Mode	mode	Issue and report	Enum	Enumerated values:man	nual, auto, comfortable, sleep		Edit Delete
4	Speed	fan_speed_ enum	Issue and report	Enum	Enumerated values:slee	ep, low, mid, high, auto		Edit Delete
stom Fun	+ Create Functions							
DP ID	Function points	Identifier	Data type	F	unction type	Properties	Remark	Operate
Create a custom function to populate this table								
Create a costom function to populate rins table								

The MCU SDKs for embedded development and app control panels will be automatically generated based on the selected product functions.

#### 2.3 Step 3: Select the app panel

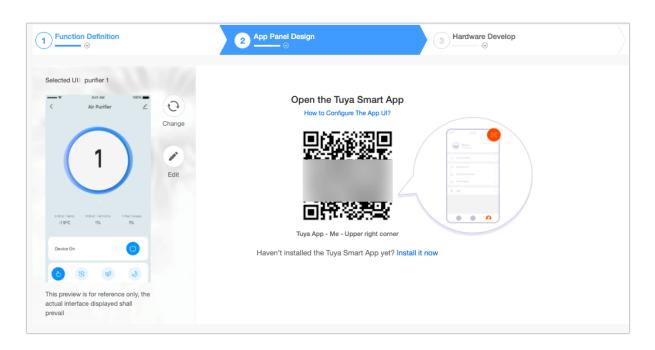
The panel is a control dashboard on the mobile application of the smart product. After selecting the panel, it will be displayed when the user controls the smart device on the app.

- 1. Go to the development page of the smart product and enter the **Device Panel** step.
- 2. In the **Select Device Panel** area, apply a panel as the app control dashboard.

1 Function Definition	2 App	Panel Design — ☉	3 Hardware Develop
Select UI template Select a UI template as needed. Then, scan	the QR code with the Tuya Smart App t	o experience the Uls. Templates with an Ent	erprise Version label is available only for enterprise accounts.
Recommend UI (3) Richer visual components, more powe	rful rules configuration, no programmin	g required to quickly DIY a beautiful and eas	y-to-use App panel
C Ar Purfier Z	< alpurfier Z	C air purfier Z	
Index Sea Index sensity Lifer Seaso -1942 1% 1%	Index Theo adox Humidity Filter Usage -20 °C 0 I 0 I	-20 °C 0 °L 0 °L	
Apply	Device Off	Device Off	
-19n0 Its Its	нан-Тако -20 С 0.1 0.1	-20°C 01 01	

- 3. (Optional) If you want to quickly customize the UI setting and page layout based on the recommended panel, you can click **Edit** after selecting the panel, and go to the panel studio to complete the panel customization online.
- 4. Get the QR code that you can have a browsing experience for the product.

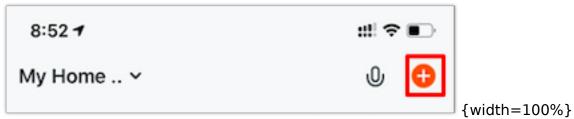
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- 2.4 Step 4: Preview the product
  - 1. Scan the code with your phone camera to download the Tuya Smart app.



- 2. Register a Tuya Smart app account and enter the app.
- 3. On the home page of the app, click + in the top right corner.



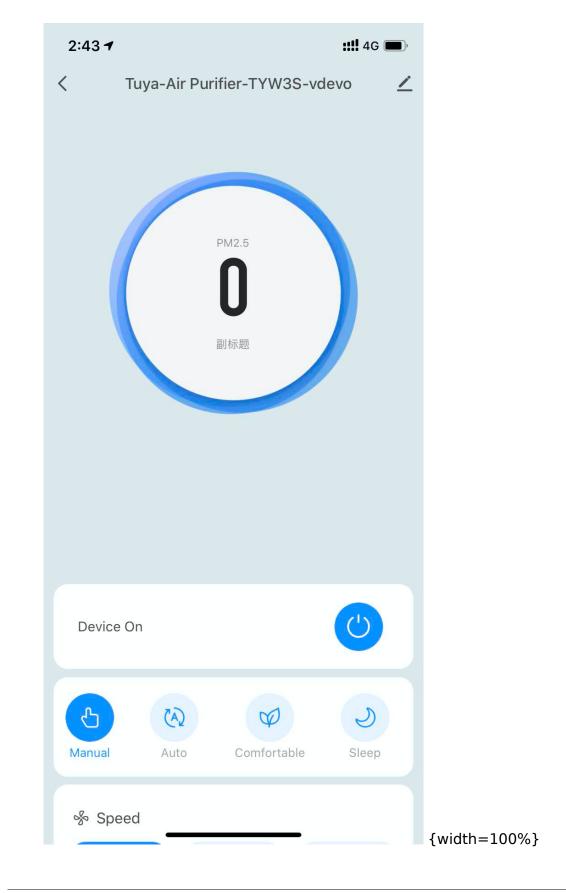
4. Tap the code scanner icon in the top right corner of the product list.



2:42 🕇			<b>::!!</b> 4G 🔳
<	Add Manually	Auto Scan	$\Xi$
Electrician		Socket	

width=100%

5. Scan the QR code of the product, and start to experience your product. Now, you can preview your products on your mobile phone, and use product features and panel styles.



## 3 Next steps

After you create a product, you can continue to develop the product according to the following steps.

- 1. Hardware development
- 2. Cloud configuration
- 3. Arrange production