

Smart Enterprise Cloud Platform

Introductory Video

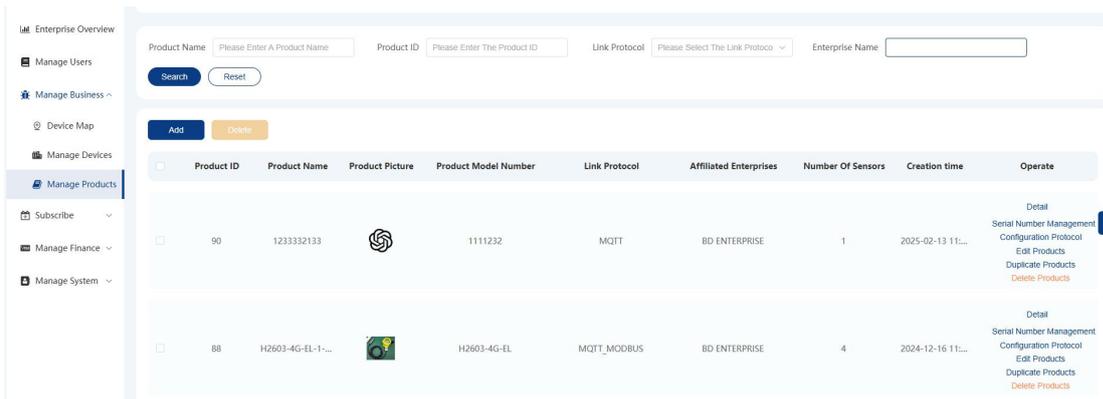
Create New Product, New Device and New User

<https://youtu.be/Vtm9KiQDIZk>

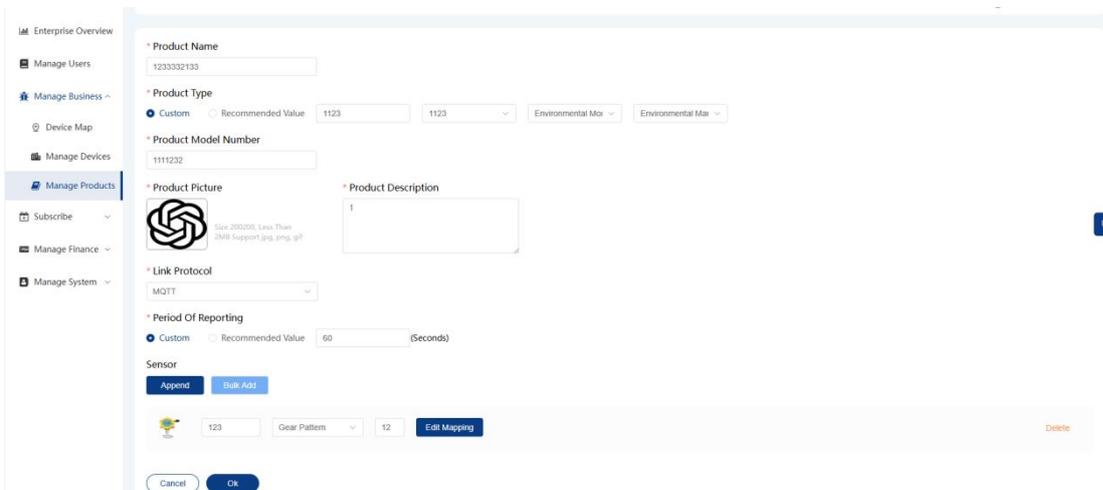
I . Manage Products

1.1 Basic Product Information

Enter into Manage Products interface, as shown below:



Click Add to add new products



1. Enter Product Name:

In the first input field, enter the product name.

2. Select Product Type:

In the second input field, select the product type (custom or recommended value).
If "Custom" is selected, enter the custom type in the textboxes on the right.

3. Select Product Model Number:

In the third input field, enter the product model.

4. Upload Product Picture:

Click the “+ “ Add button in the fourth input field to select or upload a product image.

5. Enter Product Description:

In the fifth input field, enter a description of the product.

6. Choose Link Protocol:

In the sixth dropdown, select MQTT as the connection protocol.

7. Set Period of Reporting:

In the seventh dropdown, choose the reporting interval (recommended or custom).

If "Custom" is selected, enter the delay in seconds in the adjacent textbox.

The recommended value is 60 seconds.

1.2 Add Sensor Information

Click Append to add sensors

* Product Model Number
1111232

* Product Picture
Size: 200x200, Less Than 2MB Support: jpg, png, gif

* Product Description
1

* Link Protocol
MQTT

* Period Of Reporting
 Custom Recommended Value 60 (Seconds)

Sensor

	123	Gear Pattern	12	<input type="button" value="Edit Mapping"/>	<input type="button" value="Delete"/>
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Sensor Name Numerical Type 0 Unit Sort

Upstream Mapping =>

Downstream Mapping =>

1 Enter Sensor Name

In the Name input field, enter the sensor's name.

2 Select Sensor Type

In the Sensor Type dropdown menu, choose the appropriate sensor type.

3 Set Decimal Places

In the Decimal Places input field, specify the number of decimal places for the sensor values.

4 Choose Unit

In the Unit input field, select the unit of measurement for the sensor.

5 Set Sorting Order

In the Sort input field, set the sensor's sorting sequence (each number must be unique).

6 Configure Mapping Relationship

The mapping formula is: $(x-x_1) * ((y_2-y_1)/(x_2-x_1)) + y_1$

x: Actual uploaded value

The order for filling in other parameters is: $x_1 \sim x_2 \Rightarrow y_1 \sim y_2$

a. Upstream Mapping (Device → Server)

In the Upstream Mapping input field, enter the source range values (e.g., x_1, x_2).

After the → symbol, input the corresponding target range values (e.g., y_1, y_2).

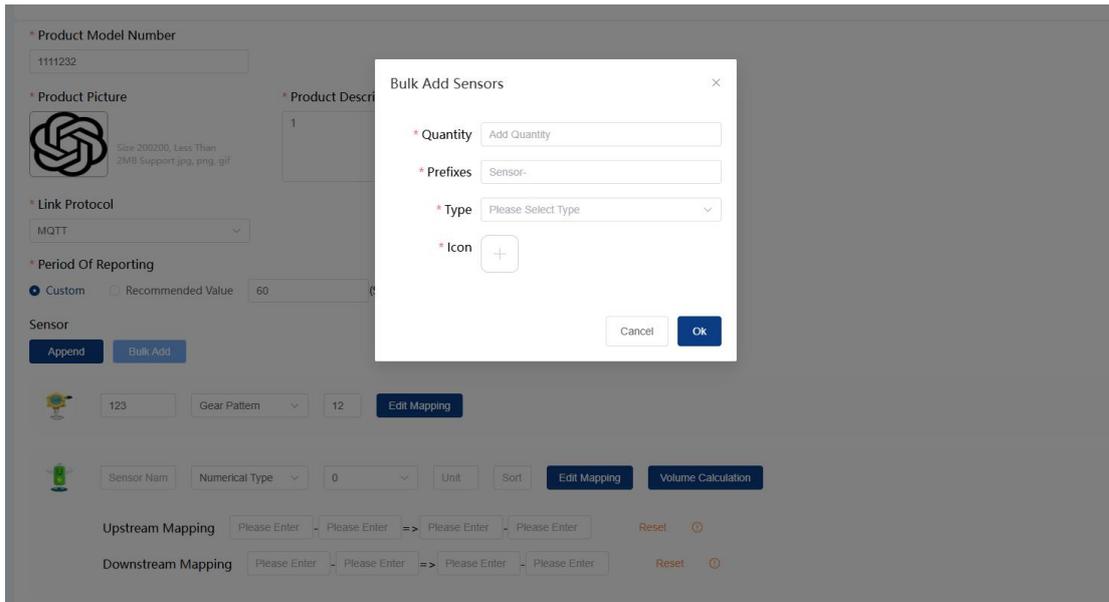
b. Downstream Mapping (Server → Device)

In the Downstream Mapping input field, input the target range values (e.g., y_1, y_2).

After the → symbol, enter the corresponding source range values (e.g., x_1, x_2).

7 Bulk Add Sensors

Click Bulk Add and sequentially fill in the quantity, prefixes, type, and icon.



1.3. Configure Product Connection Information

Click "Configuration Protocol" for the product, then click "Read Write Command Settings."

S/N	Sensor	Slave Address	Function Code	Register Address	Number of Registers	Register Value Type	Byte Sequence	Acquisition Cycle
1	Level	<input type="text" value="Slave Address"/>	<input type="text" value="Function Code"/>	<input type="text" value="Register Address"/>	<input type="text" value="Number of Registers"/>	<input type="text" value="Register Value Typ"/>	<input type="text" value="Byte Sequence"/>	<input type="text" value="Acquisition Cycle"/>
2	Temp	<input type="text" value="Slave Address"/>	<input type="text" value="Function Code"/>	<input type="text" value="Register Address"/>	<input type="text" value="Number of Registers"/>	<input type="text" value="Register Value Typ"/>	<input type="text" value="Byte Sequence"/>	<input type="text" value="Acquisition Cycle"/>
3	Battery	<input type="text" value="Slave Address"/>	<input type="text" value="Function Code"/>	<input type="text" value="Register Address"/>	<input type="text" value="Number of Registers"/>	<input type="text" value="Register Value Typ"/>	<input type="text" value="Byte Sequence"/>	<input type="text" value="Acquisition Cycle"/>
4	Signal	<input type="text" value="Slave Address"/>	<input type="text" value="Function Code"/>	<input type="text" value="Register Address"/>	<input type="text" value="Number of Registers"/>	<input type="text" value="Register Value Typ"/>	<input type="text" value="Byte Sequence"/>	<input type="text" value="Acquisition Cycle"/>

1. Slave Address

Enter the slave address, ranging from 1 to 255.

2. Function Code

Click the dropdown menu to select the required function code, including Function code 01 (corresponding to write function code 05), Function code 02 (read-only), Function code 03 (corresponding to write 16-bit function code 06 and write 32-bit function code 10), and Function code 04 (read-only)

3. Register Address

Enter the register address according to the protocol, ranging from 1 to 65535.

4. Number of Registers

Enter the number of registers to read.

5. Register Value Type

Select the type of register value.

6. Byte Sequence

Select the byte order. The corresponding bytes from high to low are ABCD; for example, DCBA indicates the data's high and low bits are swapped.

7. Acquisition Cycle (Seconds)

Enter the collection interval in seconds.

Read Write Command Setting ✕

S/N	Sensor	Slave Address	Function Code	Register Address	Number of Registers	Register Value Type	Byte Sequence	Acquisition Cycle
1	经度	1	03 Reading and W	311	2	Floating-Point	Byte Sequence	Acquisition Cycle
2	定位	Slave Address	03 Reading and W	Register Address	Number of Registers	Raw Data (RAW)	Byte Sequence	Acquisition Cycle
3	纬度	1	03 Reading and W	313	2	Floating-Point	Byte Sequence	Acquisition Cycle
4	温度	1	03 Reading and W	307	2	Floating-Point	Byte Sequence	10
5	压力	1	03 Reading and W	305	2	Floating-Point	Byte Sequence	10
6	液位	1	03 Reading and W	309	2	Floating-Point	Byte Sequence	10
7	无线信号	1	03 Reading and W	300	1	Integer	Byte Sequence	Acquisition Cycle
8	电量	1	03 Reading and W	304	1	Unsigned Integer	Byte Sequence	Acquisition Cycle

Cancel OK

2.1 Add New Devices

Go to Manage Devices and click on Add.

The screenshot shows the 'Manage Devices' interface. On the left is a sidebar with navigation options: Enterprise Overview, Manage Users, Manage Business, Device Map, Manage Devices (selected), Manage Products, Subscribe, Manage Finance, and Manage System. The main content area is titled 'Product Type' and has three radio buttons: 'Select A Product' (selected), 'Enter The Product Serial Number', and 'Custom'. A 'Select A Product' dropdown is set to '1233332133'. Below this is the 'Device Name' field with the value '123332133'. The 'Connection Protocol' is set to 'MQTT'. The 'Reporting Cycle' is set to '60 (Seconds)'. There are 'Append' and 'Bulk Add' buttons. Below is a table of sensors with columns for Sensor ID, Sensor Name, Gear Type, Please Select, and Sort. The first row has a sensor ID of 123 and a gear type of 12. There are 'Edit Mapping' and 'Delete' buttons for each sensor.

1. Select Product

Click Add and the drop-down menu, select the product added in Manage Products.

2. Device Name

The "Device Name" input field will automatically sync the product name, which can be modified.

3. Pictures of Device

Click the "Add" button to upload or choose a device image.

4. Connection Protocol

The "Connection Protocol" section will automatically sync the product's protocol, such as "MQTT."

5. Reporting Cycle

Select "Recommended Value" or "Custom".

If "Custom" is selected, enter the interval in the "Time" input field, such as "60" seconds.

If no data is uploaded to the platform within the set time, the device will change to offline status.

6. Sensor

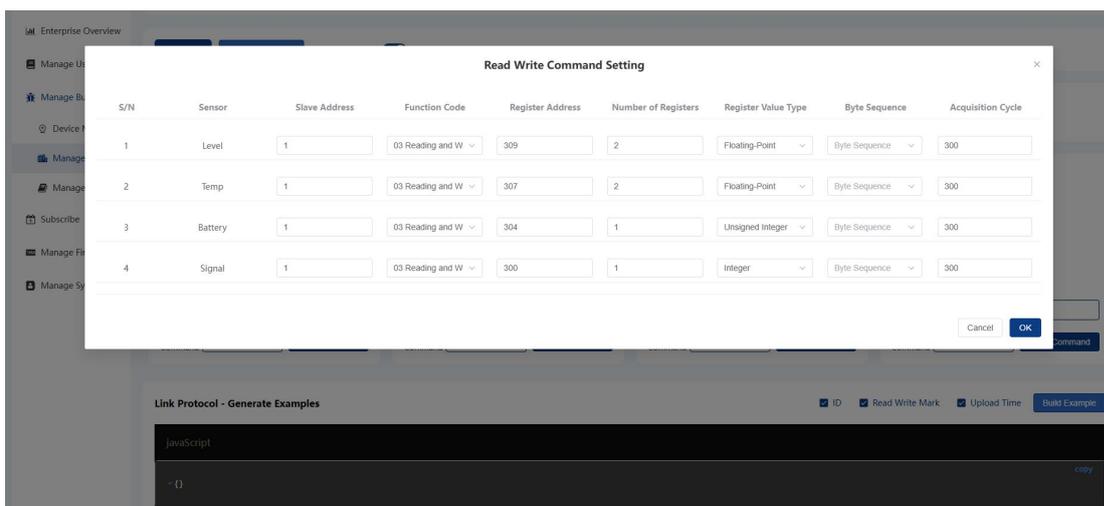
Automatically sync the product's sensor and its parameters.

7. Location

Mark the device installation location on the map.

2.2 Configure Protocol

On the device list page, click "Configuration Protocol" to enter Read Write Command Setting



1. Manage Devices:

Device ID: 280

Device Serial Number: 3F52BFZ9SFY4Q7SP

Link Protocol: mqtt_modbus
Creation Time: 2024-12-20 18:58:56

2. Sensor Configuration:

Sensor ID: Each sensor has a unique identifier.

Slave Address: The address of the sensor in the bus.

Function Code: Defines the read/write functionality of the sensor.

Register Address: The register address value for reading the sensor data.

Number of Registers: The number of registers used for reading sensor data.

Register Value Type: The data type of the register values for the sensor.

Byte Sequence: The byte order of the data.

Acquisition Cycle (Seconds): The time interval for data collection.

3. Bulk Edit:

Batch manual modification.

2.3 Device Monitoring:

On the device list page, click the device name to enter the device's "Monitoring Center."

Image	Sensor	ID Code	Update Time	Status	Data	Operate
	Water Level	185043	2025-03-12 09:15:02	Connected	0.468 mH2O	Real-time Curve Alarm Record History Query
	Water Temp	185044	2025-03-12 09:15:02	Connected	15.95 °C	Real-time Curve Alarm Record History Query
	Battery	185045	2025-03-12 09:17:14	Connected	90.00 %	Real-time Curve Alarm Record History Query
	Signal	185046	2025-03-12 09:17:14	Connected	-66.00 db	Real-time Curve Alarm Record History Query

1. Device Information

Device ID: 280

Device Serial Number: 3F52BFZ9SFY4Q7SP

Link Protocol: mqtt_modbus

Creation Time: 2024-12-20 18:58:56

2. Sensor Status

In the Monitoring Center, you can view the status information of multiple sensors.

Each sensor's information includes:

Sensor Name: For example, Water Level, Water Temp, Battery

Sensor ID: For example, 185043, 185044, 185045

Current Value: Displays the current reading of the sensor, for example, 0.468mH2O, 15.95°C, 90.00%

Status Icon: Displays the status icon of the sensor (e.g., temperature icon)

Disconnected Status: Displays the connection status of the sensor, currently shown as "Disconnected"

Last Update Time: Displays the last update time, for example, 2025-03-12 09:15:02

3. View Historical Data

Click the "Historical Query" button on the sensor info card to view the sensor's historical data records.

4. View Real-Time Curve

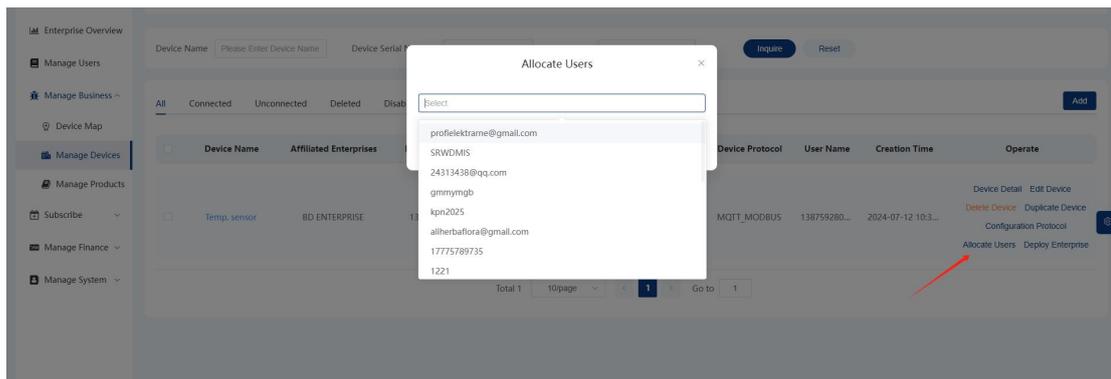
Click the "Real-Time Curve" button on the sensor info card to view the sensor's real-time curve data.

5. View Alarm Records

Click the "Alarm Record" button on the sensor info card to view the sensor's alarm record data.

2.4 Device Allocation

On the device list page, click "Allocate Users."



Enter Manage Device and click "Allocate"

On the interface, find the user account as shown in the image.

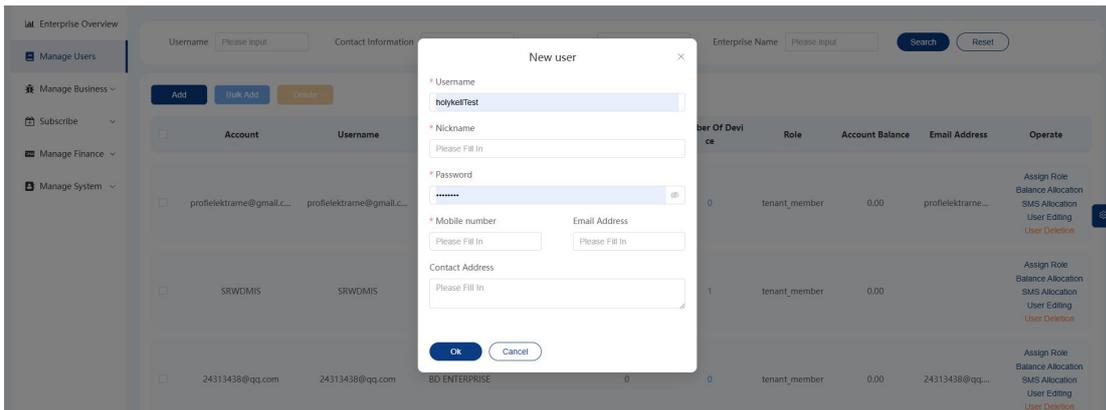
Use the search bar or browse the list to find the specific user account to which the device should be assigned.

Once found, click Save to complete the allocation.

III. Manage Users

3.1. Create New User

Enter the Manage Users page and click Add TO create new users.



In the "Username" field, enter the user's login name.

In the "Nickname" field, enter the user's nickname.

In the "Password" field, enter the user's password.

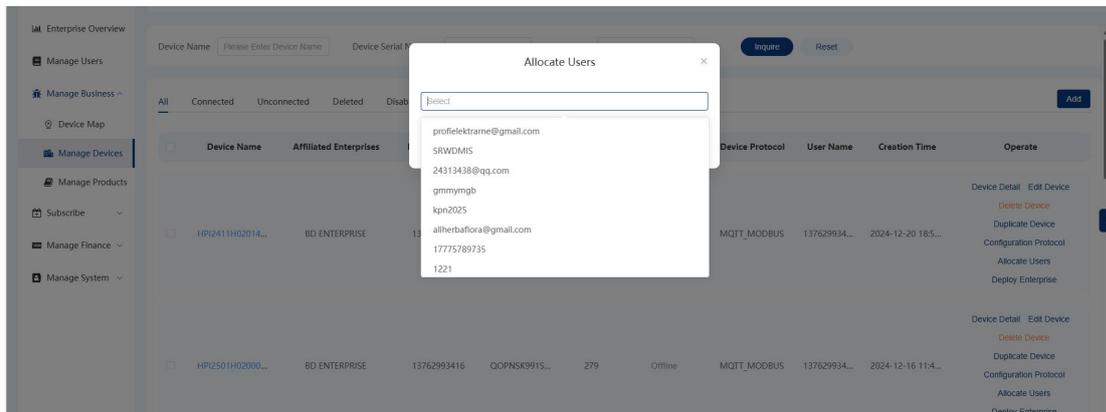
In the "Mobile number" field, enter the user's phone number.

In the "Email Address" field, enter the user's email address.

In the "Contact Address" field, enter the contact address.

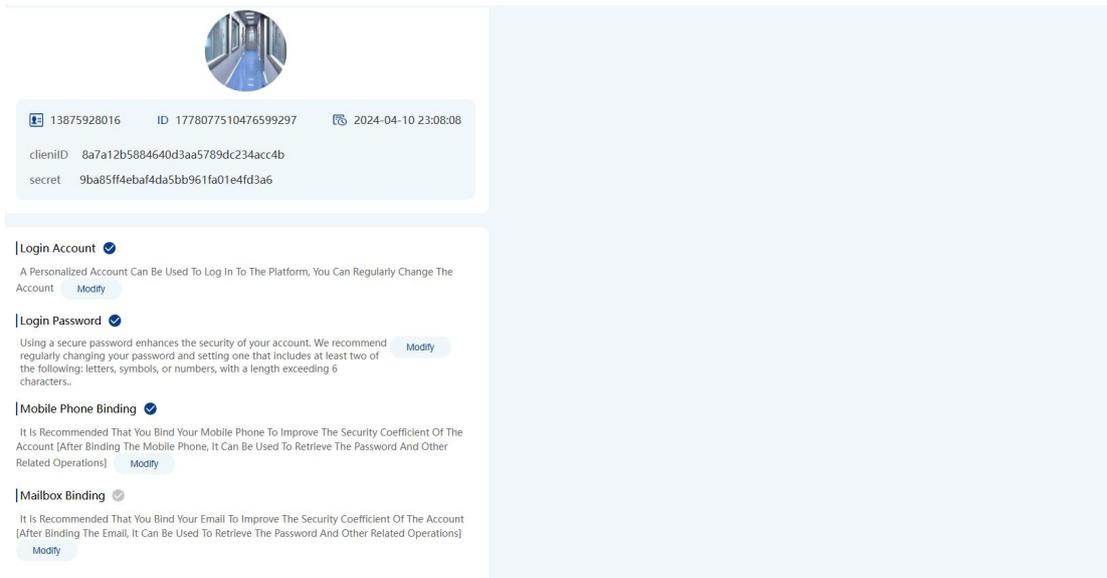
3.2. Allocate Device

On Manage Devices page, click "Allocate User". Once the allocation is complete, log into this account to view the allocated devices.



3.3. Manage Users

Click "Manage" to enter the User Management section.



1. Basic Information

It displays the current user's username.

Account ID: Displays the current user's unique identifier.

Client ID: Displays the current user's client identifier.

Secret: Displays the current user's access key.

Creation Time: Displays the current user's creation time.

2. Security Settings

You can modify the login account.

You can modify the login password.

You can modify the login mobile phone number.

You can modify the email address.

IV. Manage Roles

On the main interface, find and click the "Manage Roles" option to enter the role management page.

Role Number	Character Name	Types Of Role	Role Identification	Display Position	Remark	Status	Creation Time	Operate
189638609595803...	123312	Customize	tenant_member31...	31		Open	2025-03-03 10:24:13	Edit Menu Permission Delete
185451181047818...	Super Admin	Customize	tenant_admin1	1		Open	2024-11-07 21:10:45	Edit Menu Permission Delete
179168353568748...	测试轨迹	Customize	tenant_member_3	1		Open	2024-05-18 12:13:37	Edit Menu Permission Delete
179058557006758...	测试	Customize	tenant_member_2	1		Open	2024-05-15 11:30:42	Edit Menu Permission Delete
179032086901014...	observer	Customize	tenant_member_1	1		Open	2024-05-14 17:58:52	Edit Menu Permission Delete
177830654597041...	历史轨迹	Customize	tenant_member_h...	1		Open	2024-04-11 14:18:15	Edit Menu Permission Delete
174461234056800...	财务	Customize	tenant_admin_fina...	0		Open	2024-01-09 14:49:30	Edit Menu Permission Delete
172717351056375...	租户用户	Built	tenant_member	0	系统自动生成	Open	2023-11-22 11:53:49	Edit Menu Permission

On Manage Roles page, you can view all the created roles. The list includes the following information:

Role Number: Unique identifier.

Character Name: Custom name.

Role Identification: Divided into user-side role and enterprise-side management roles.

Status: Indicates whether the role is enabled.

Creation Time: The date and time the role was created.

Operate: Includes edit, delete, and menu permission operation buttons.

4.1. Add New Roles

Click the "Add" button on the left side of the page to enter the role creation page. Fill in the relevant information and then click the "OK" button to create a new role.

Add

* Character Name

* Role Identification

* Display Position

* Status

Remark

Character Name: Custom name.

Role Identification: Determine whether it is an enterprise-side role or a user-side role.

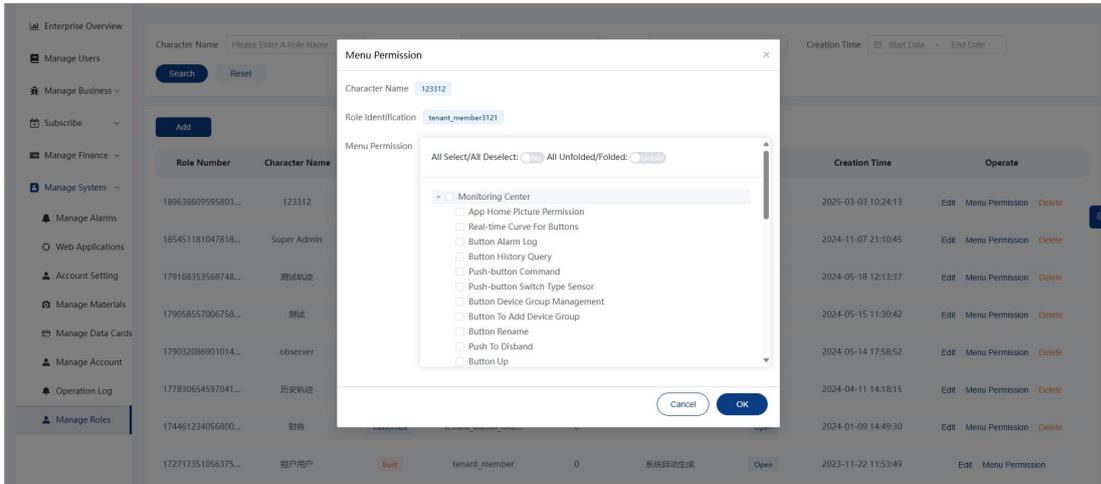
Display Order: The order in which the role appears in the list.

Status: Enable or disable the role.

Remark: Optional.

4.2. Permission Settings

Click the "Menu Permission" button to enter the detailed permissions page, where you can modify the role's permissions.



In the left menu, select the required permissions, which correspond to all the features available on the front-end user side.

The right-side list will display all the selected permissions.

Once the selections are complete, click the "OK" button at the bottom right to save the settings.

After saving, assign the role to the user, and the new permission settings will take effect.

4.3. Assign Roles

In Manage Users page, click the "Assign Role" button. Select the role from the dropdown menu, and multiple roles can be selected.

