Smart Enterprise Cloud Platform

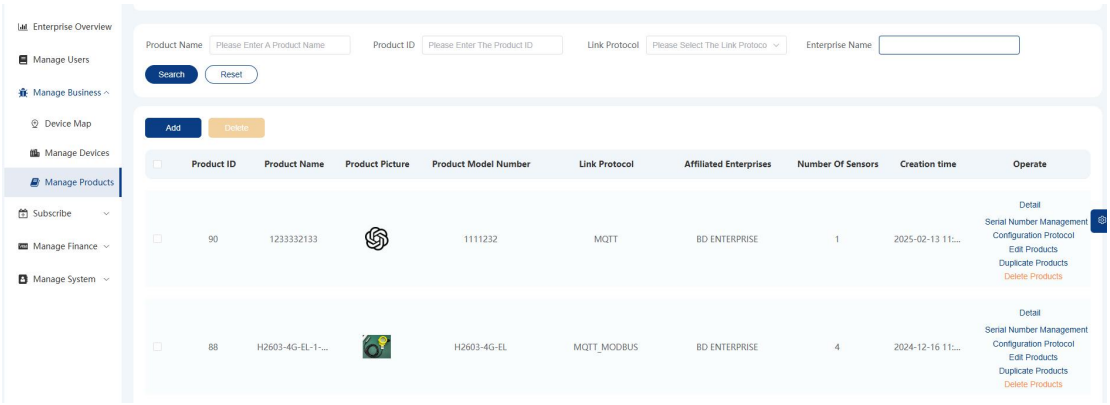
Introductory Video
Create New Product, New Device and New User

https://youtu.be/Vtm9KiQDIZk

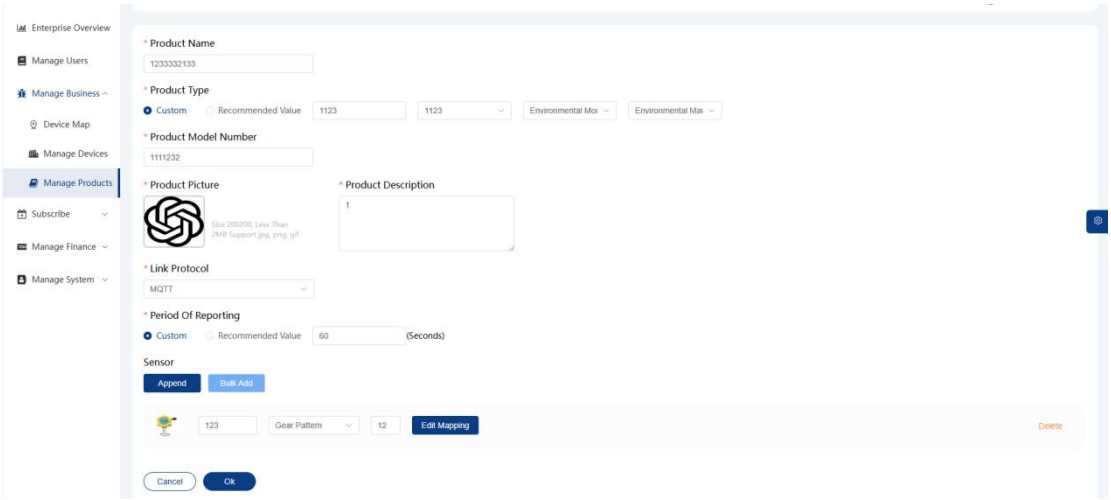
Ⅰ. Manage Products

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 textboxs 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.

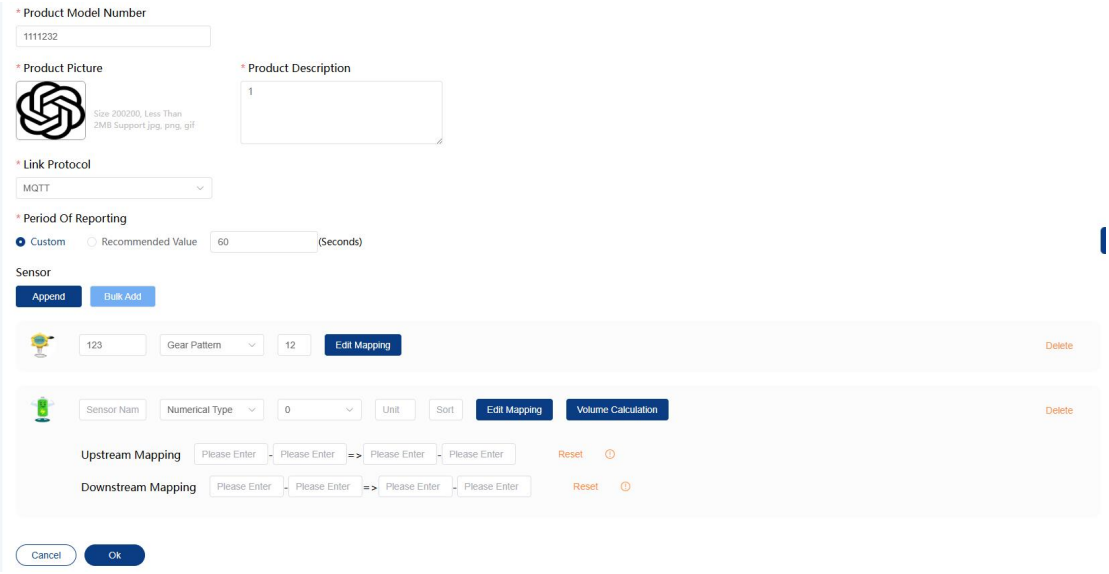
5. Enter Product Description:
In the fifth input field, enter a description of the product.

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



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-x1) * ((y2-y1)÷(x2-x1)) + y1

x: Actual uploaded value

The order for filling in other parameters is: x1~x2 => y1~y2

a. Upstream Mapping (Device → Server)

In the Upstream Mapping input field, enter the source range values (e.g., x1, x2).

After the → symbol, input the corresponding target range values (e.g., y1, y2).

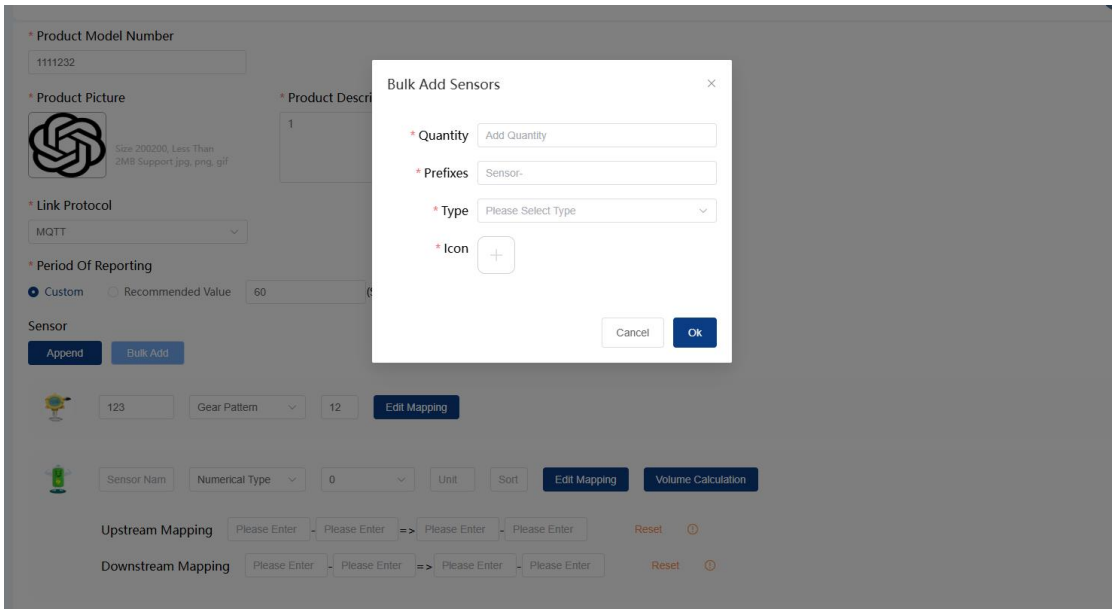
b. Downstream Mapping (Server → Device)

In the Downstream Mapping input field, input the target range values (e.g., y1, y2).

After the → symbol, enter the corresponding source range values (e.g., x1, x2).

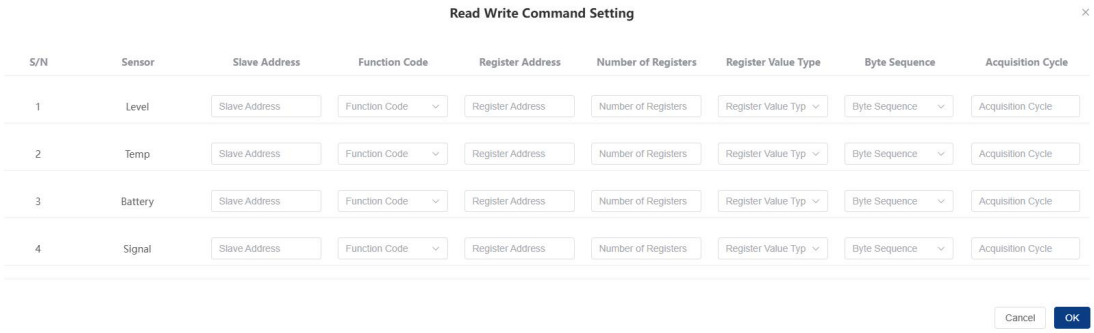
7 Bulk Add Sensors

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."



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

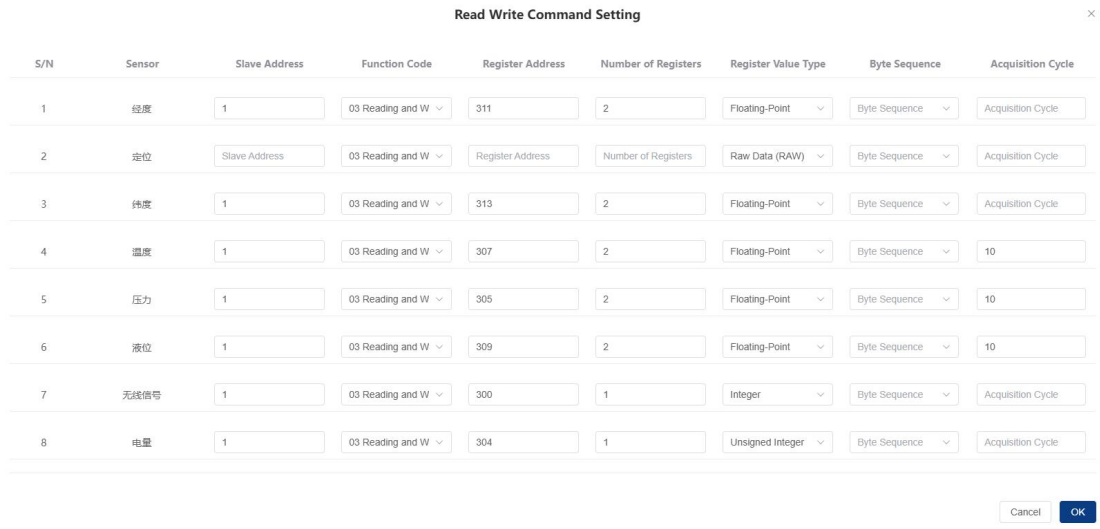
Enter the number of registers to read.

5. Register Value Type

Select the type of register value.

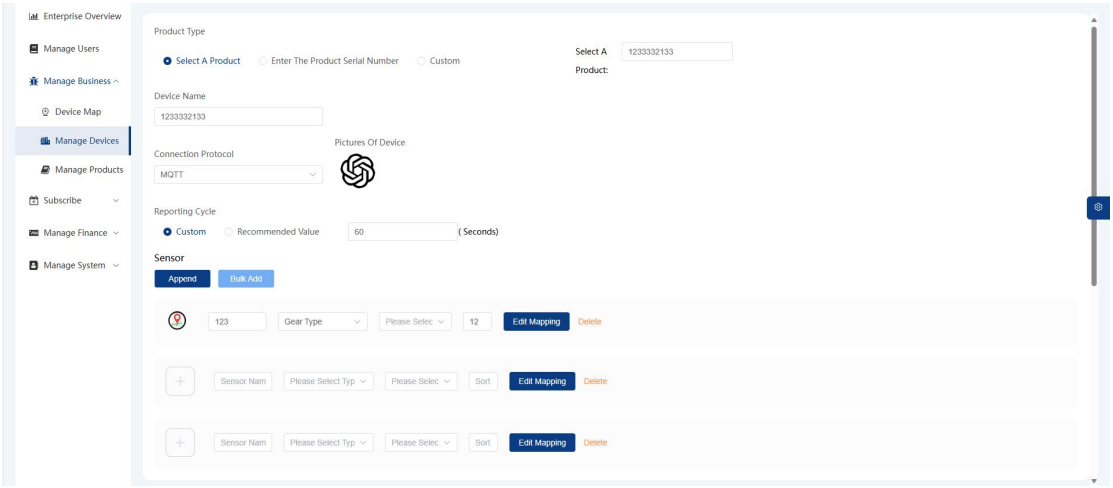
6. Byte Sequence
Select the byte order. The corresponding bytes from high to low are ABCD; for example, DCBA indicates the data's high and low bits are swapped.

7. Acquisition Cycle (Seconds)
Enter the collection interval in seconds.



2.1 Add New Devices

Go to Manage Devices and click on Add.



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."

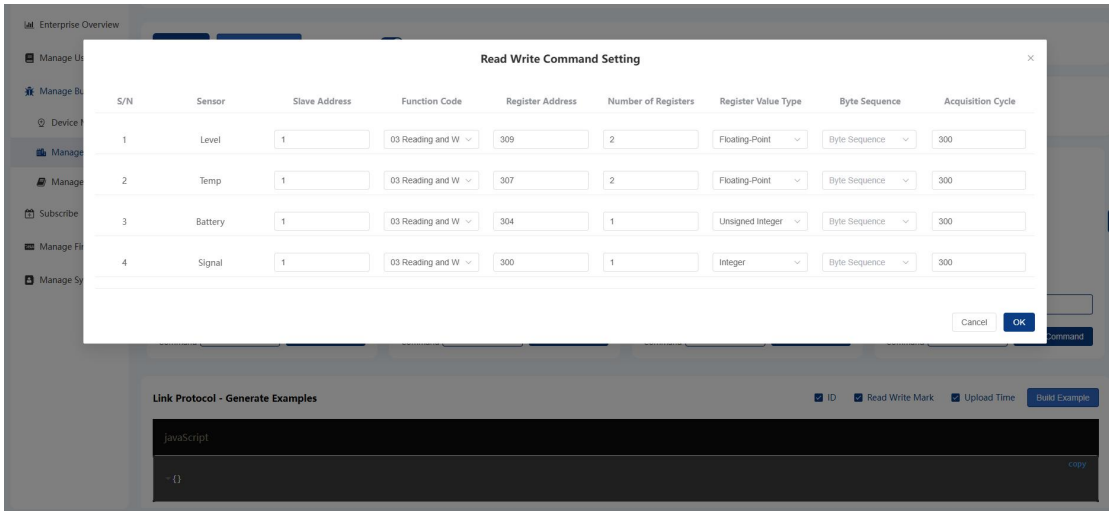
5. Reporting Cycle
Select "Recommended Value" or "Custom".
If "Custom" is selected, enter the interval in the "Time" input field, such as "60" seconds.
If no data is uploaded to the platform within the set time, the device will change to offline status.

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



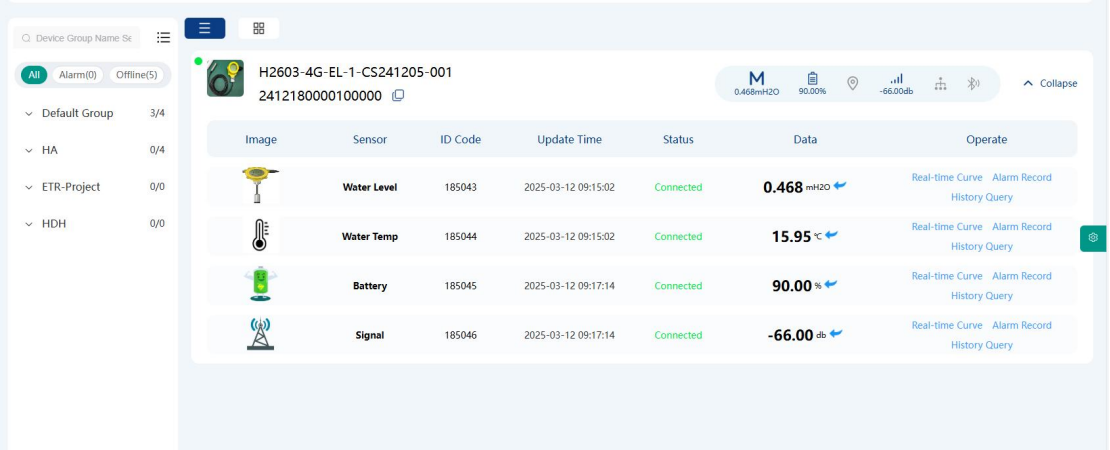
1. Manage Devices:
Device ID: 280
Device Serial Number: 3F52BFZ9SFY4Q7SP

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."



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℃, 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

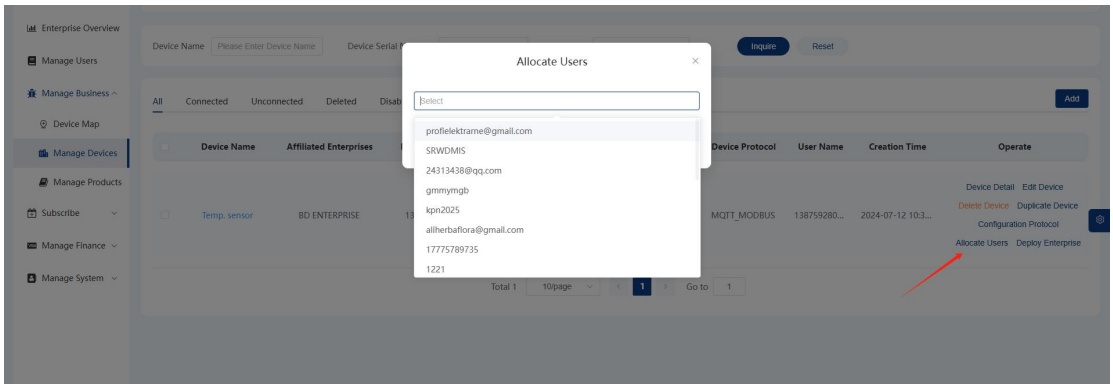
3. View Historical Data
Click the "Historical Query" button on the sensor info card to view the sensor's historical data records.

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."

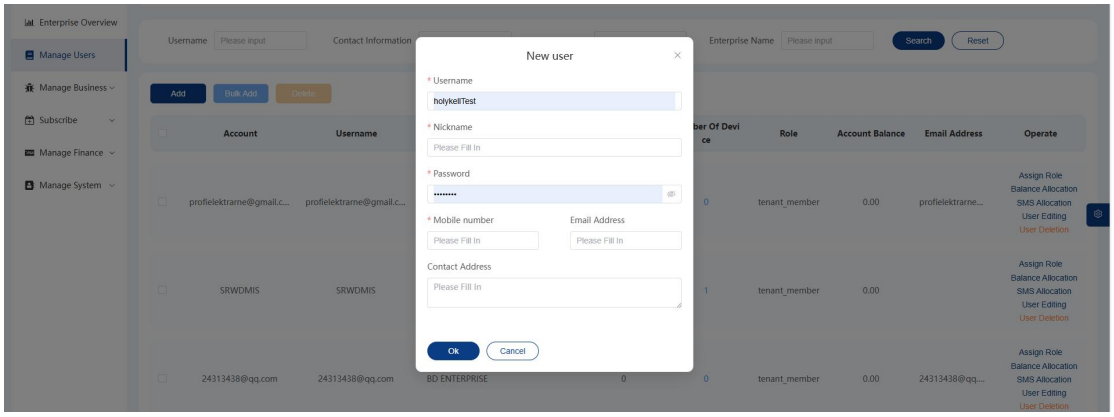


Enter Manage Device and click "Allocate"
On the interface, find the user account as shown in the image.
Use the search bar or browse the list to find the specific user account to which the device should be assigned.
Once found, click Save to complete the allocation.

Ⅲ. Manage Users

3.1. Create New User

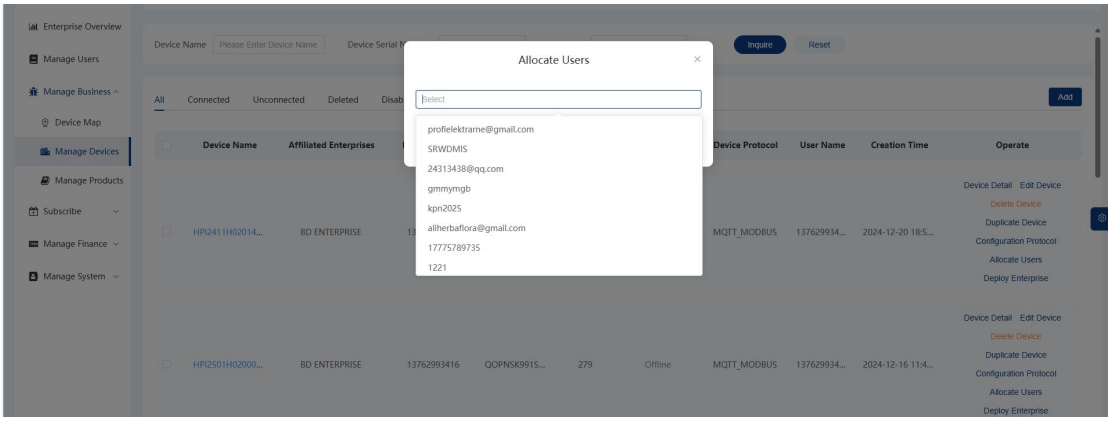
Enter the Manage Users page and click Add TO create new users.



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.

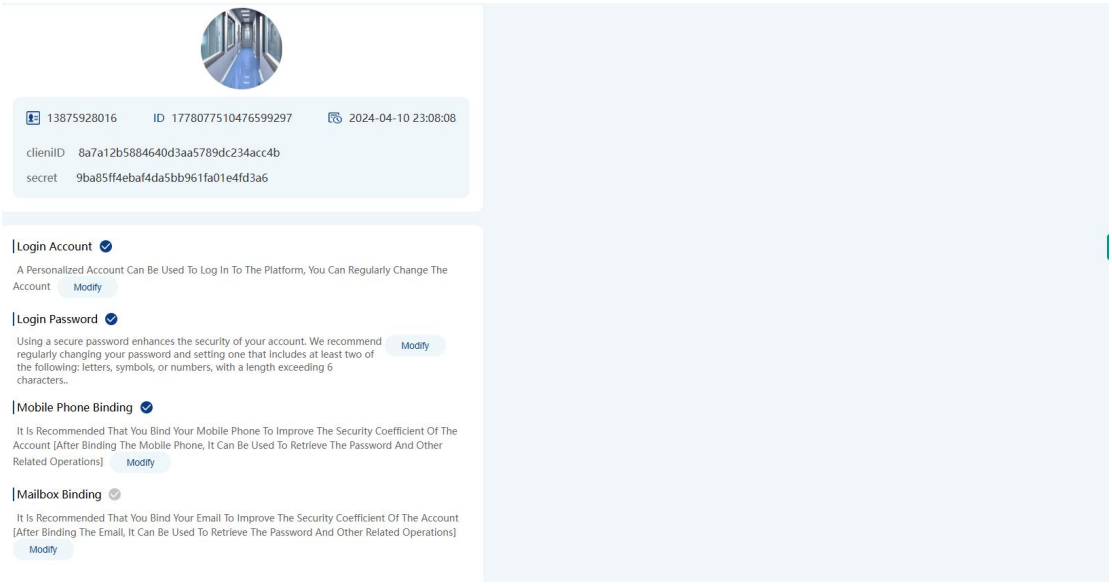
3.2. Allocate Device

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.

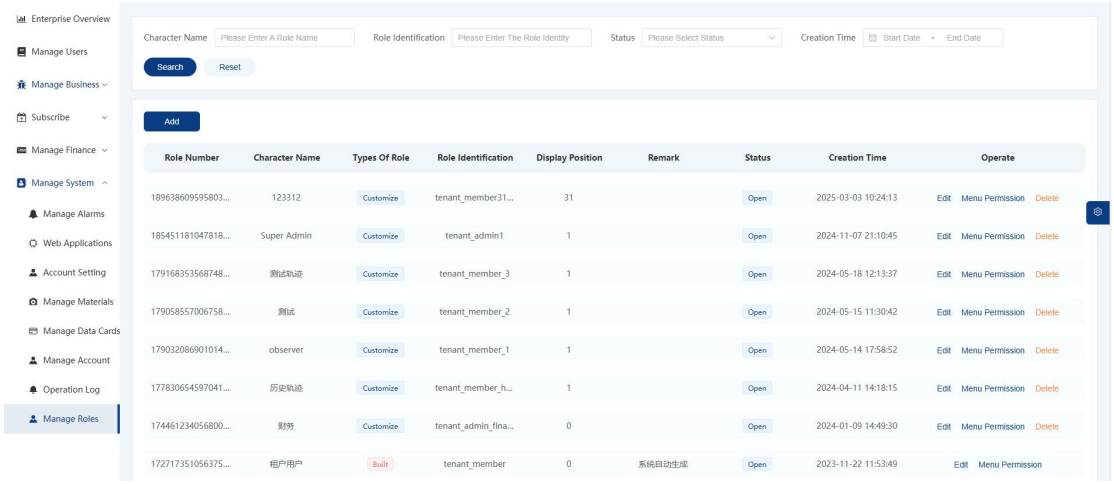
You can modify the login password.

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.

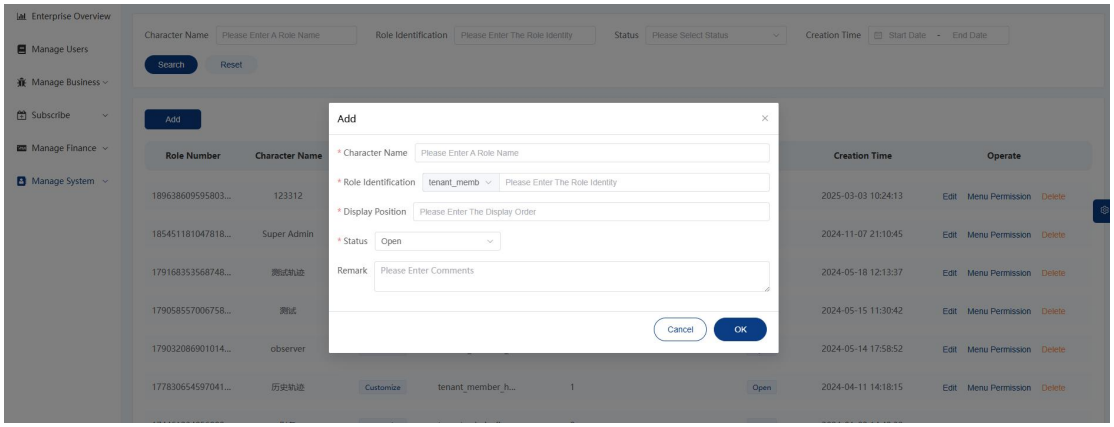


On Manage Roles page, you can view all the created roles. The list includes the following information:

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

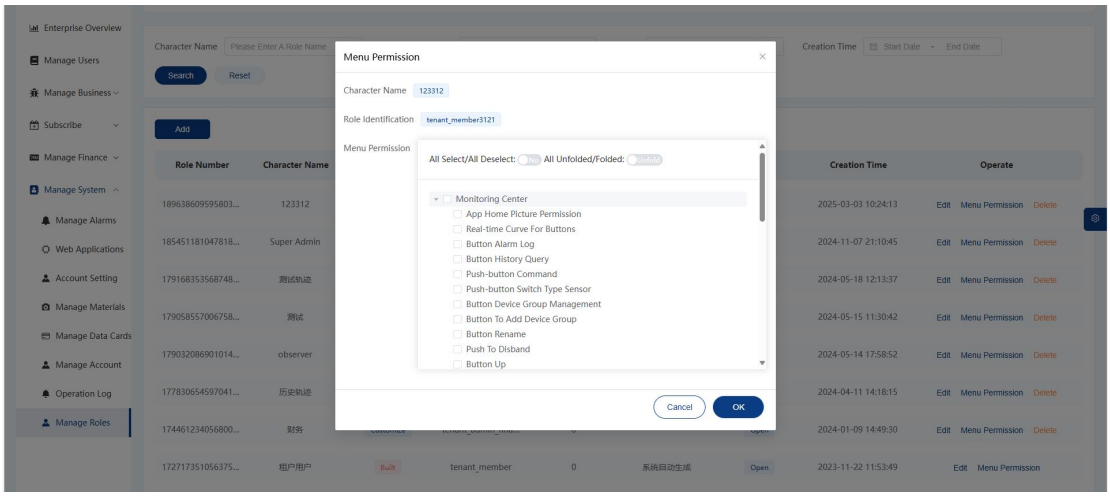
Click the "Add" button on the left side of the page to enter the role creation page. Fill in the relevant information and then click the "OK" button to create a new role.



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.