XINJE Cloud Platform – Cloud Intelligent Manufacturing (V5.2)
User Manual

WUXI XINJE ELECTRIC Co., Ltd
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Runtime Environment

The system adopts a BS architecture and is recommended for use in the following browser environments, with a recommended resolution of 1920* 1080:

- Google Chrome (Google)

User Rights and Interests

Upon purchasing the XINJE Cloud Platform, you will receive a software usage license issued by XINJE Company, which contains your initial user information. Please log in to the monitoring platform as soon as possible after receiving this initial information and complete the necessary updates. The license document must be obtained legally from XINJE Company.

After obtaining the product usage authorization, XINJE Company has the obligation to ensure the legitimate rights and interests of the user. At the same time, the user has the responsibility to protect XINJE Company's copyright. The user shall not arbitrarily hand over the authorization to third-party units or individuals for use. If the above regulations are violated, the user will be fully responsible for this and all consequences arising therefrom. Our company will pursue the user's responsibility in accordance with relevant legal provisions.

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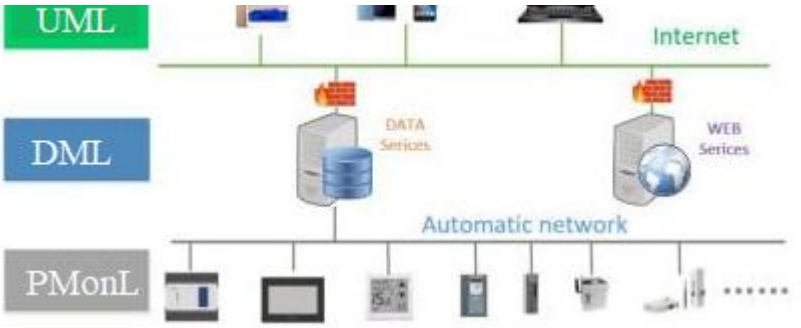
1. Platform Overview

1.1 Brief Introduction

Building on XINJE's years of deep industry expertise and extensive practical application of its products in the industrial sector, the XINJE Cloud Platform is an industry application platform designed for remote data acquisition. Its functionality includes device connectivity, device management, data storage, data visualization, data analysis, user management, maintenance work orders, and formulation management.

The platform requires no programming or software installation, demands no specialized skills, and enables rapid and convenient integration of products with systems, allowing users to create a customized IoT platform. Users can remotely monitor device data, configure parameters, and control functions via a computer or mobile app, anytime and anywhere.

- The most comprehensive suite of cross-platform interaction capabilities (WEB, APP, Mini Programs)
- Diverse and efficient connectivity and monitoring options (business systems, maps, video surveillance)
- Real-time, precise data sources (4G, RJ45, roaming-enabled Wi-Fi)
- Precise and efficient data pivot analysis (columnar charts, trend charts, and custom data pivot reports)
- More tightly integrated coordination among equipment (centralized monitoring of equipment systems composed of multiple PLC)
-



1.2 Service Object

- Remote diagnosis of equipment failures and real-time monitoring;
- After-sales reliability maintenance for equipment, such as after-sales maintenance for air compressors;
- Ensuring the authenticity of data from testing and inspection equipment, such as in lithium battery testing;
- Smart urban development, including wastewater treatment, waste recycling and treatment, and cold storage;
- Industries such as HVAC, logistics, smart agriculture, smart homes, and smart RVs.
- Formula and shift management in industries such as weighing and textiles.

1.3 On-Premises Private Deployment/Customization

- On-premises private deployment (using the customer's own servers, indefinite)

The complete XINJE Cloud software suite will be operated on the customer's own server, and XINJE will provide the following technical support:

① Deploy server software (on-site/remote) to ensure the platform operates normally;
② Provide one round of technical training, covering platform usage, routine server maintenance, and related activities;
③ One year of after-sales service will be provided, including routine software operation and maintenance, as well as modifications to information such as the logo.

- Custom Made

Based on the client's requirements, we provide customized development for the software interface, layout, or specific features, thereby meeting the client's personalized needs.

2. Hardware Option

2.1 Network Module Selection

XINJE XC and XD series PLCs, touchscreens, and mainstream market-brand models can be connected to the cloud platform via 4G/Wi-Fi/Ethernet; the selection of network modules is guided by the table below:

	XC series	XD series	XINJE Touchscreen	Modbus RTU	Other brands
A-BOX（-U）	√	√	√	√	√
A-BOX-4G	√	√	√	√	√
A-BOX-W	√	√	√	√	√
T-BOX	√	√	√	√	×
XD-4GBOX-ED	×	√	×	×	×
4GBOX	√	√	√	√	×
XD-WBOX-ED	×	√	×	×	×
WBOX	√	√	√	√	×

- XD-4GBOX-ED and XD-WBOX-ED require a PLC firmware version of V3.4.5 or later;
- XDE-series PLCs can directly access servers via their own network interfaces and connect to cloud platforms;
- For the XINJE TG series touchscreen network connection modules, the touchscreen firmware can only be downloaded remotely via USB;
- Market-leading brand products (Siemens 200smart, 1200, Mitsubishi Q series, 5U series, etc.) can access the server and connect to the cloud platform only via A-BOX modules.
- With the exception of the A-BOX series, production of all other network modules has been gradually discontinued.

2.2 Serial Port Connection for the Network Module

The serial port connection method for the network module is shown in the table below:

	RS232	RS485	RS422	XD Left extension port	Ethernet port
A-BOX（-U）	√	√	√	×	√
A-BOX-4G	√	√	√	×	√
A-BOX-W	√	√	√	×	√
XD-4GBOX-ED	×	×	×	√	×
4GBOX	√	√	×	×	×
XD-WBOX-ED	×	×	×	√	×
WBOX	√	√	×	×	×
T-BOX	√	√	×	×	√

Generally speaking, XINJE network modules (4GBOX, WBOX, T-BOX) can be connected to other devices that support the Modbus-RTU standard and integrated into a cloud platform.

3. Software Overview

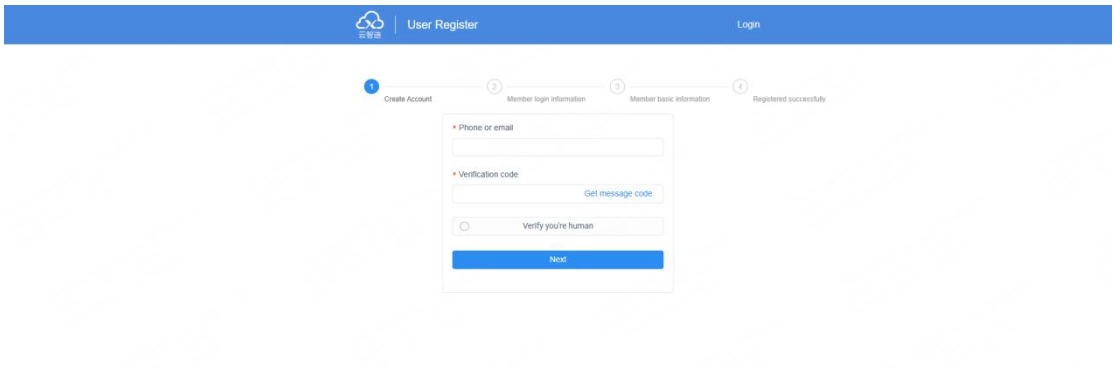
3.1 Registration and Login

3.1.1 Register

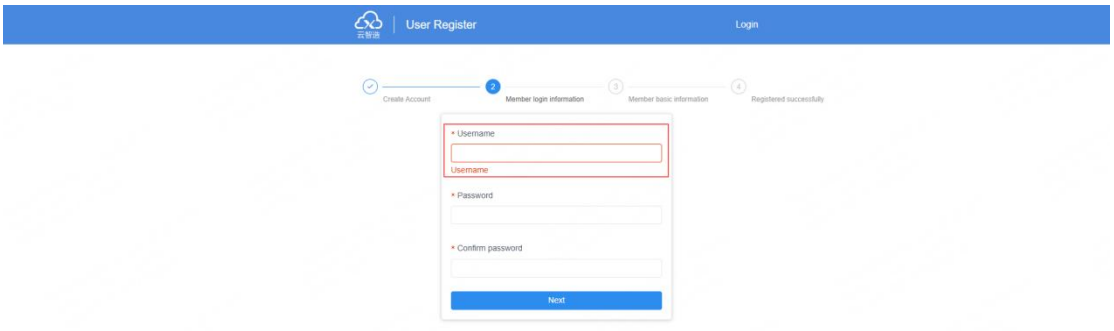
1、 Access the domain https://cloud.xinje.net via a web browser, click "Register," and you will be directed to the registration page:



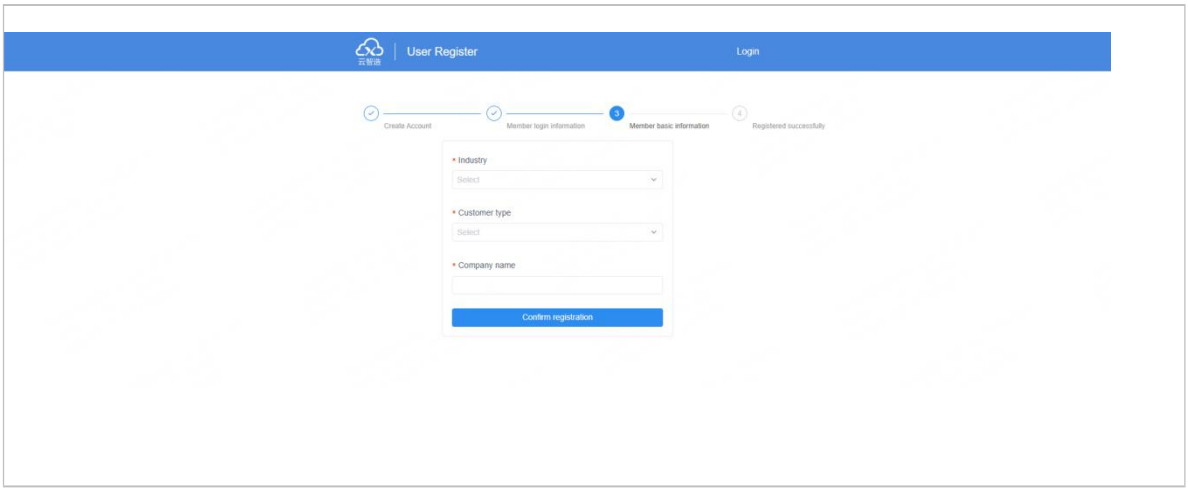
2、 Enter Your Mobile Phone Number or Email Address and Verification Code



3、 Enter your username and password (to be used for account login)



4、 Enter relevant information



5、 Confirm registration after entering the information; registration has been completed successfully.

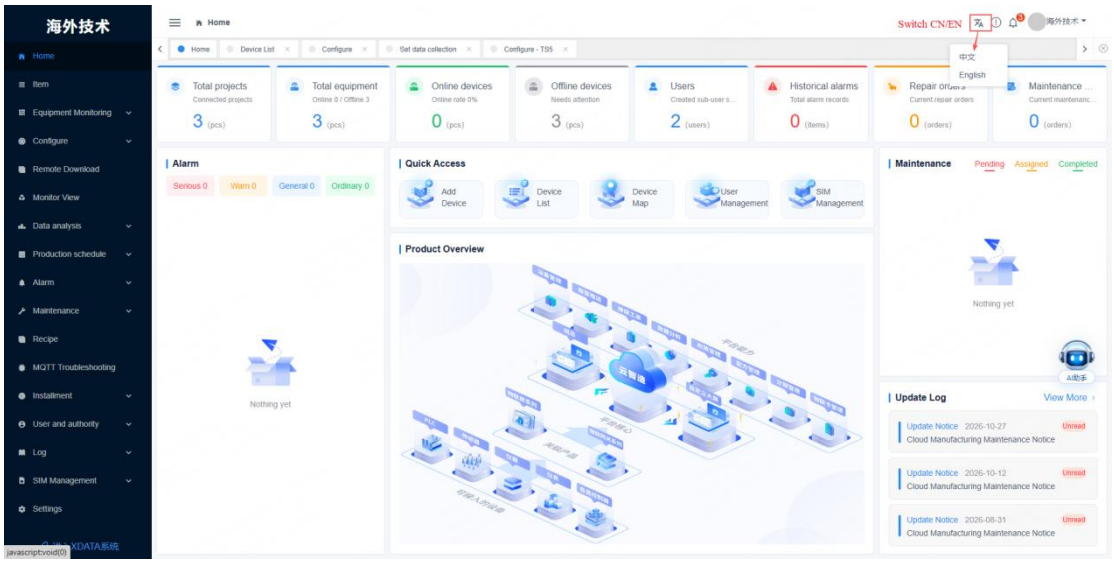
3.1.2 Entry



After successful registration, you will be directed to the login interface. You can log in using your account/ phone number/email address and password, or by entering a verification code.

If you have forgotten your username and password, click "Forgot Password" to proceed to the username and password recovery page.

4. Signboard



4.1 Global Toolbar



① Language switching between Chinese and English: Language switching across the entire platform interface is currently available only in Chinese and English.

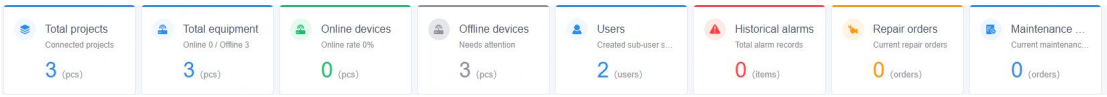
② User Manual: Click here to browse the Cloud Platform User Manual online.

③ System notification: View system maintenance notifications.

④ Account Name: You can log out of the current account

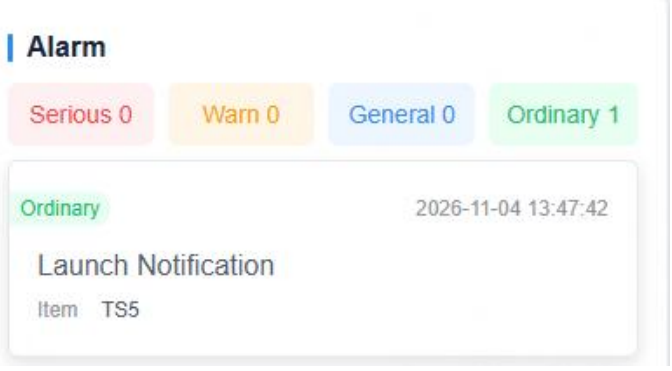
4.2 Information Bar

The platform information overview provides an intuitive view of the platform's operating status and allows you to monitor the status of project equipment.



4.3 Latest Alert

The latest alarm interface is presented in table form, displaying the most recent alarm information for all projects by timestamp; clicking on an entry directly navigates you to the project's historical alarm summary interface.

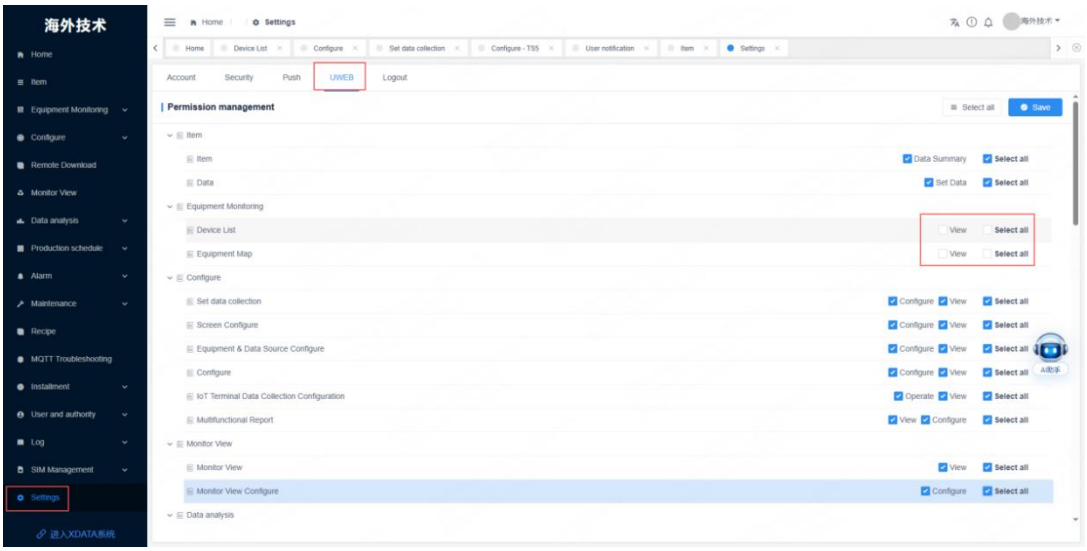


4.4 Quick Access

Click to navigate to the corresponding feature page.

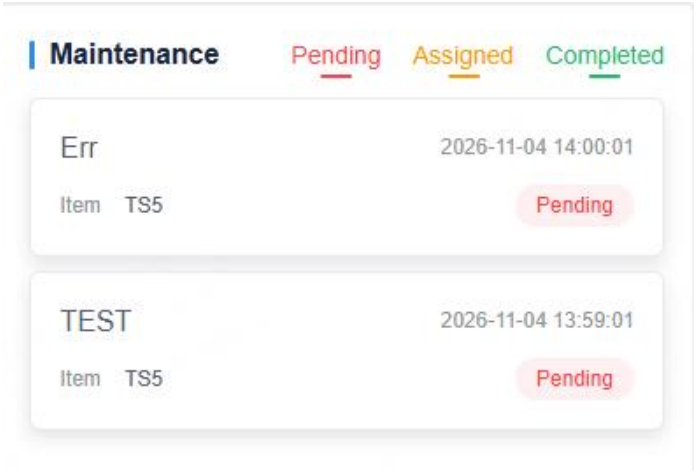


If clicking on the function entrance prompts no permission, you can check the corresponding permission in "System Settings" - "UWEB"



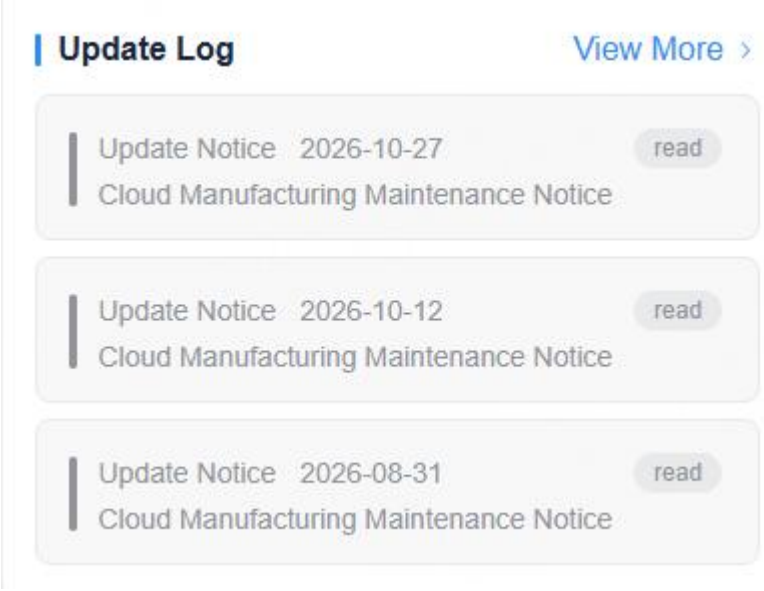
4.5 Latest Work Order

The latest maintenance interface is presented in table format, displaying the most recent maintenance information for all projects by date; clicking it takes you to the maintenance page.



4.6 Update Log

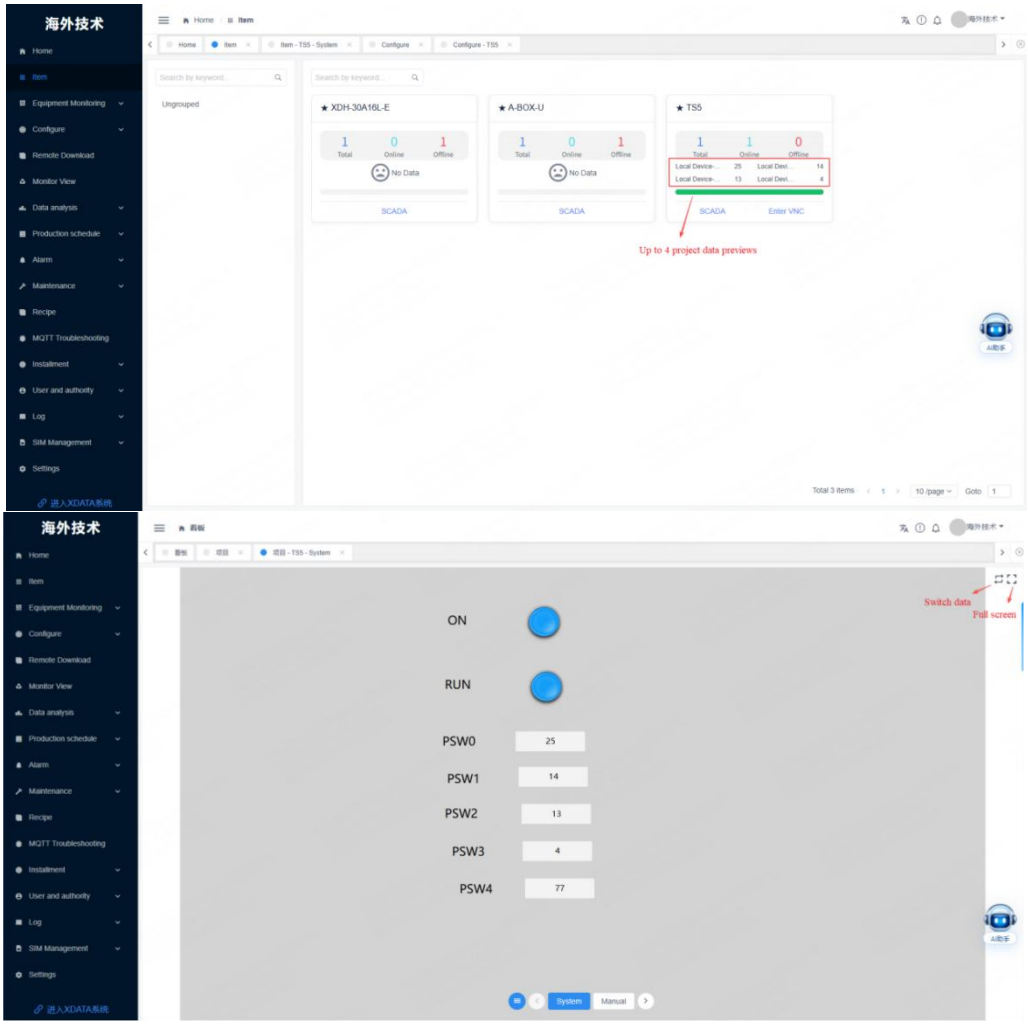
Display the latest 3 system notifications, with their reading status indicated; click "View More" for additional messages.



5. Project

The project menu displays all projects in separate sections. The green bar at the bottom of a project block indicates that the project has online equipment; a gray bar indicates that the project has no online equipment. Moving the mouse over the bar displays the names of the specific online and offline equipment under that project, as well as whether there are any communication failures.

Each project block displays up to 4 data points for intuitive visualization; clicking "Enter Configuration" takes you to the real-time monitoring interface for that project configuration, while clicking the upper-right corner of the interface switches the view to a data table or zooms in to full screen.



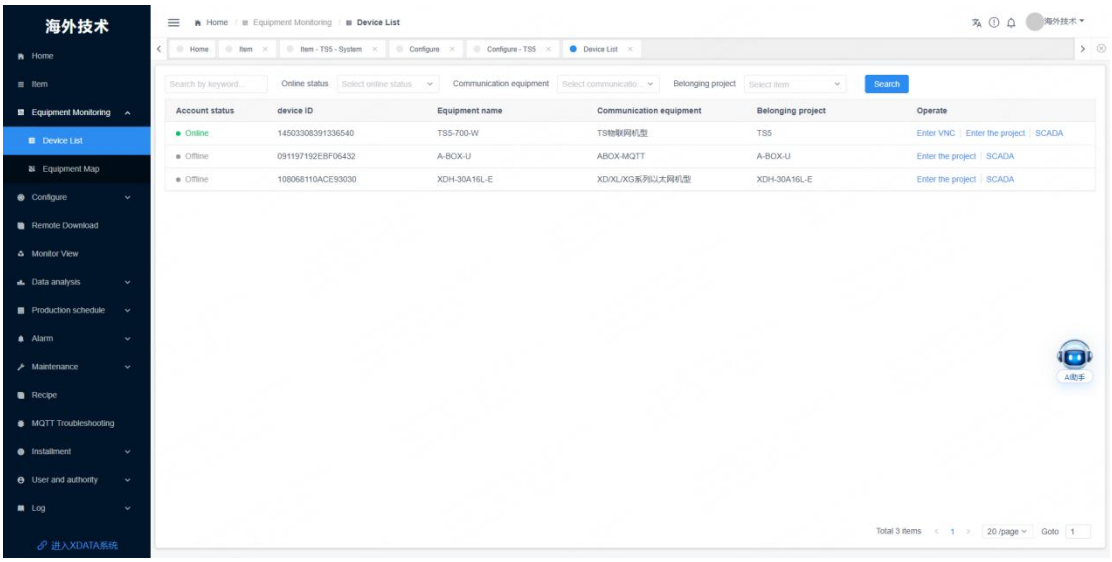
When the project has not been linked to a TS IoT device, only web-based configuration is available; once linked to a TS device, you can access the TS VNC remote interface. (See the figure below.)



6. Equipment Monitoring

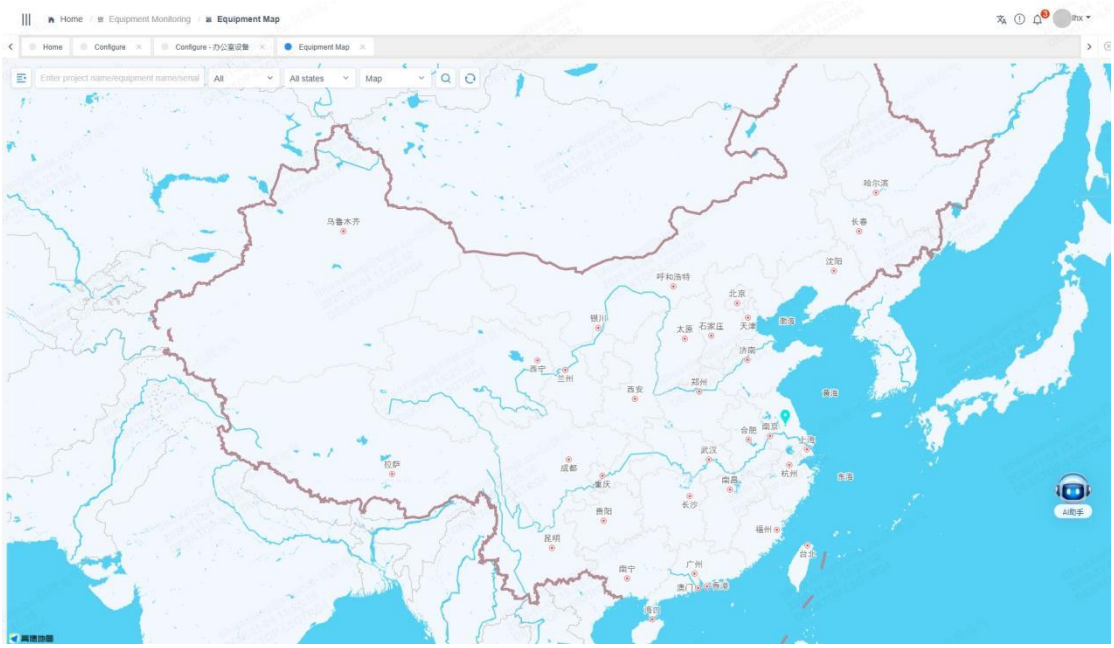
6.1 Equipment List

The display configuration menu lists all added devices; you can view the device status and also perform operations to access VNC, project configuration, or configuration settings.



6.2 Equipment Map

- The equipment map interface displays the geographic locations of all items and equipment that have been geolocated.
- Project positioning is represented by a solid blue icon It shows that moving the mouse over the icon displays the project name; clicking it takes you directly to the corresponding project interface.
- The equipment is online, indicated by a hollow green icon Shows an empty gray icon when offline It shows that moving the mouse over the icon displays the device name, online status, device information, and other details.
- The map supports satellite maps

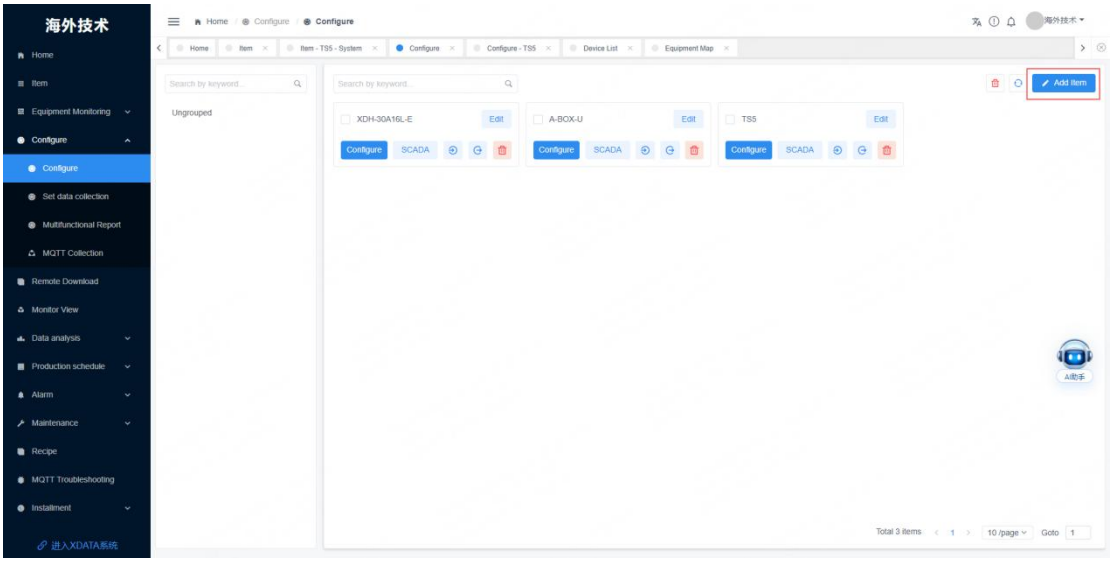


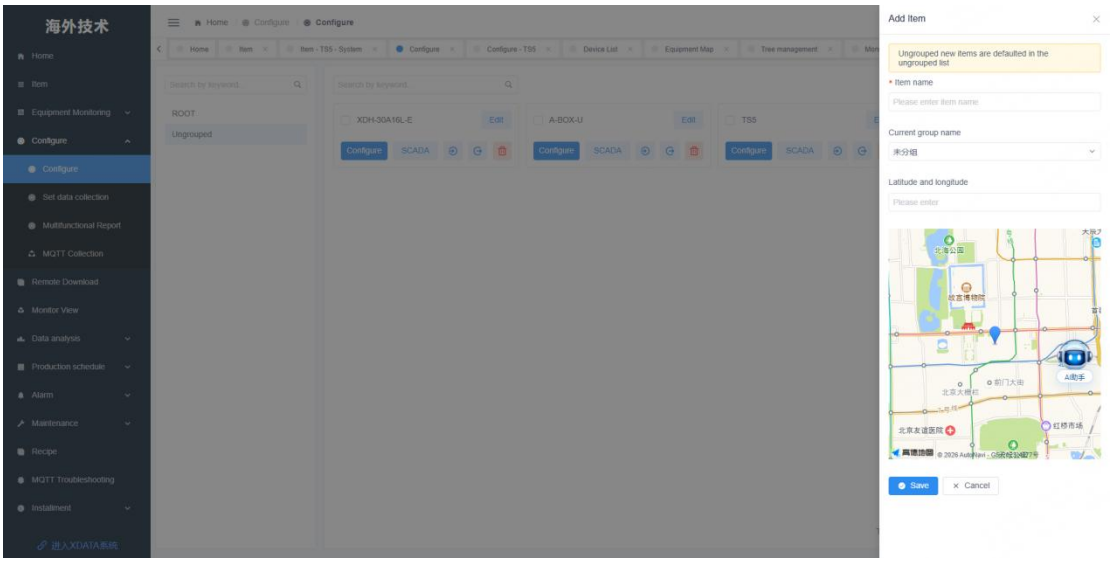
7. Configure

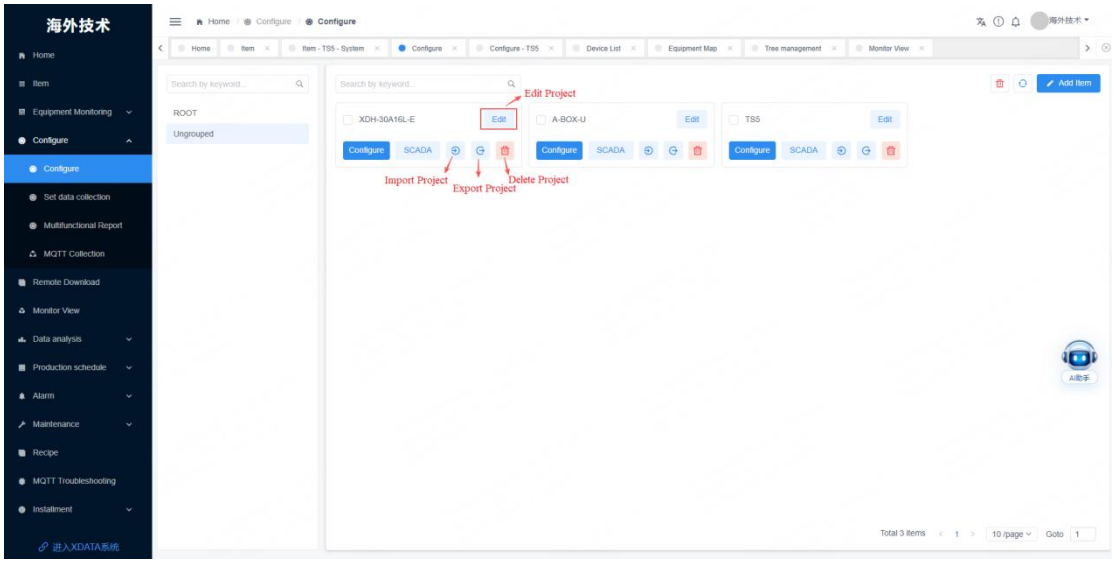
Steps for setting up platform equipment: "Create New Project" → "Enter Configuration" → "Add Equipment" → "Add Data Block" (or "Sync") →→ Import data into the "Data Processing Center."

7.1 Project Configuration

First, click "Create New Project," enter the project name, select a location, and click "Save" to complete the addition. Then click "Enter Configuration" and refer to the 7.1.1 Equipment Configuration section for instructions.







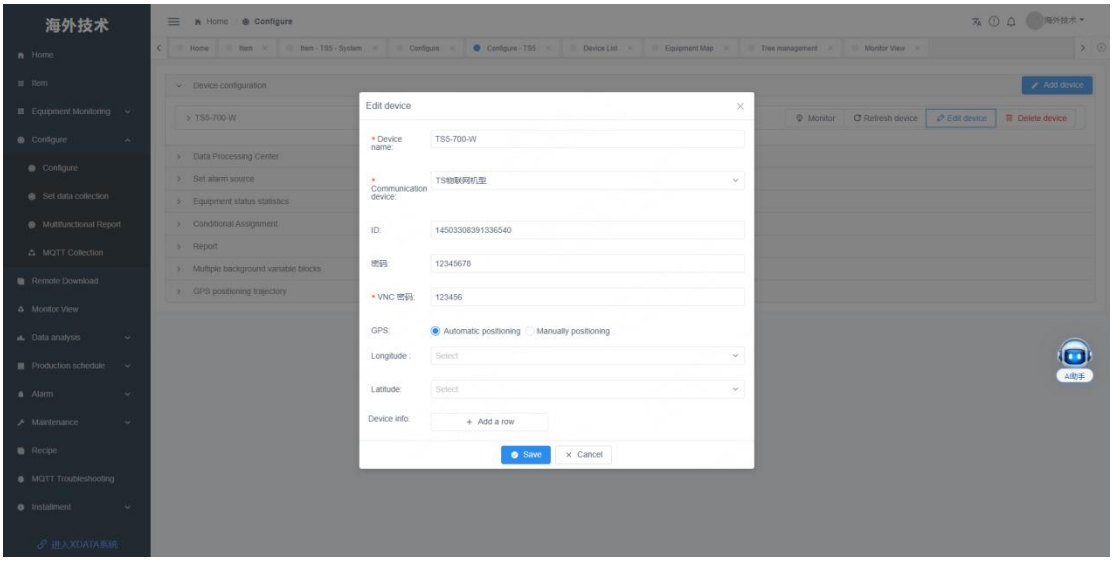
The project supports import, export, deletion, and editing, making it easy to use. Click the arrow to enter the configuration editing interface.

Project configuration is specifically divided into six configuration modules: Equipment configuration, project team status configuration, alarm source configuration, equipment status statistics, conditional value assignment, and reports.

7.1.1 Equipment Configuration

1、New Equipment

Click "Add Device," enter the device information; the red "*" indicates required fields. The device ID and password must match those of the connected device. Once the information has been entered, click "Save" at the bottom to complete the addition.

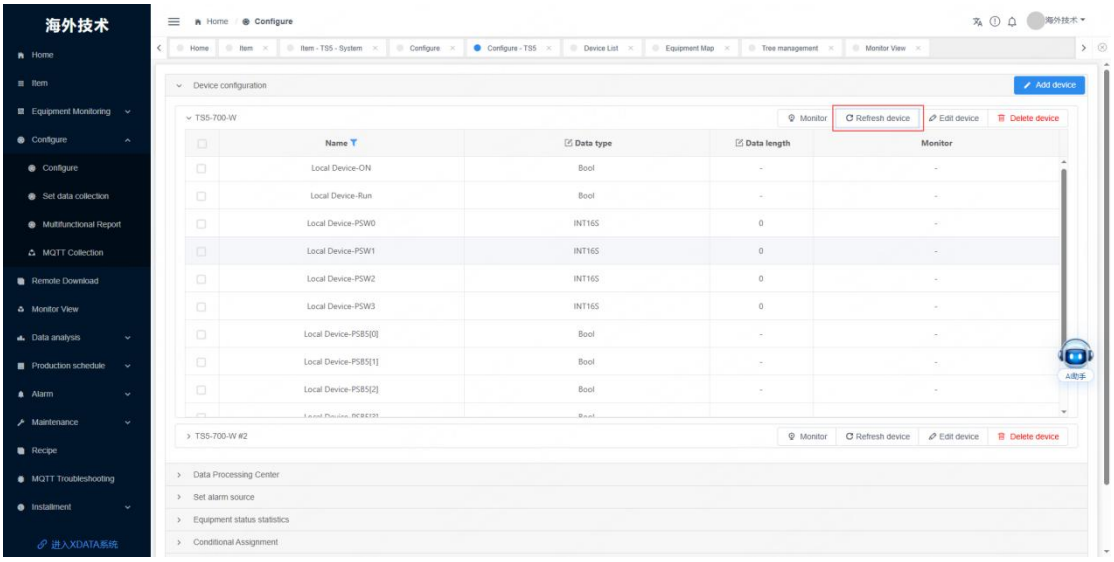


Step 1: Communication Equipment

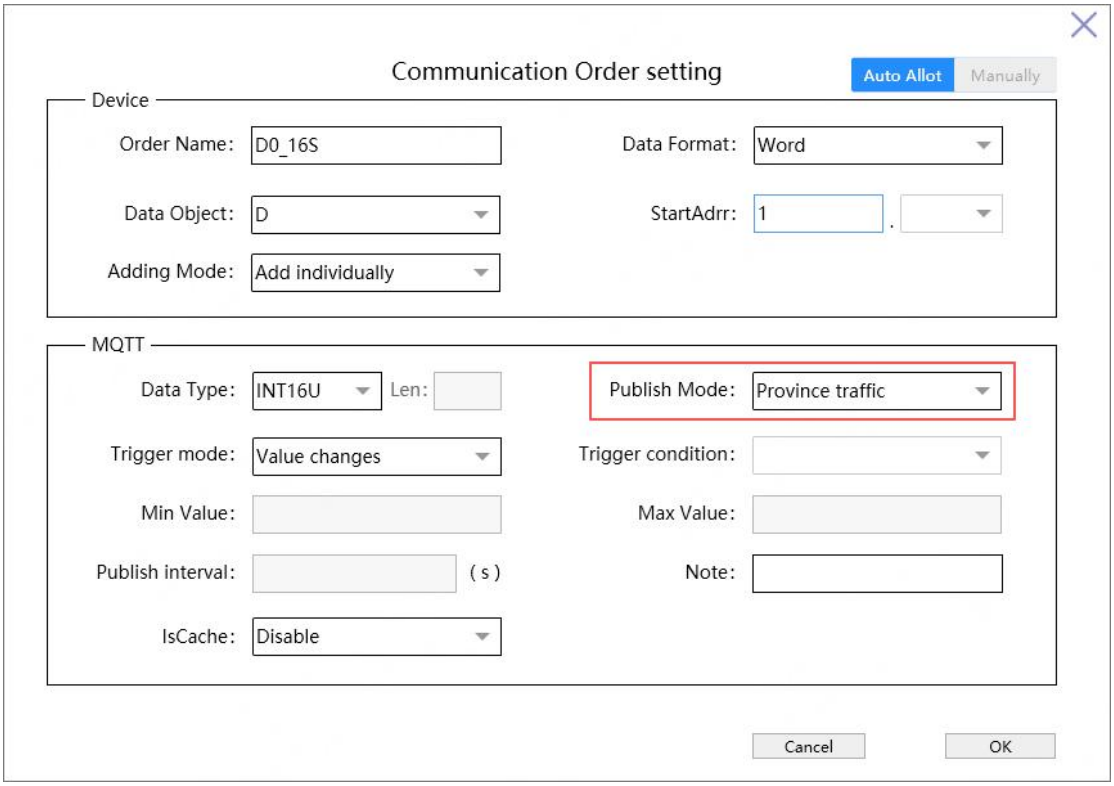
The following communication devices may be selected: ABOX, TS5 IoT models, 4GBOX, WBOX, TBOX/GBOX, XG series/XD/XL Ethernet models, TGM series transparent transmission, XD series PLCs, and LAN Modbus TCP.

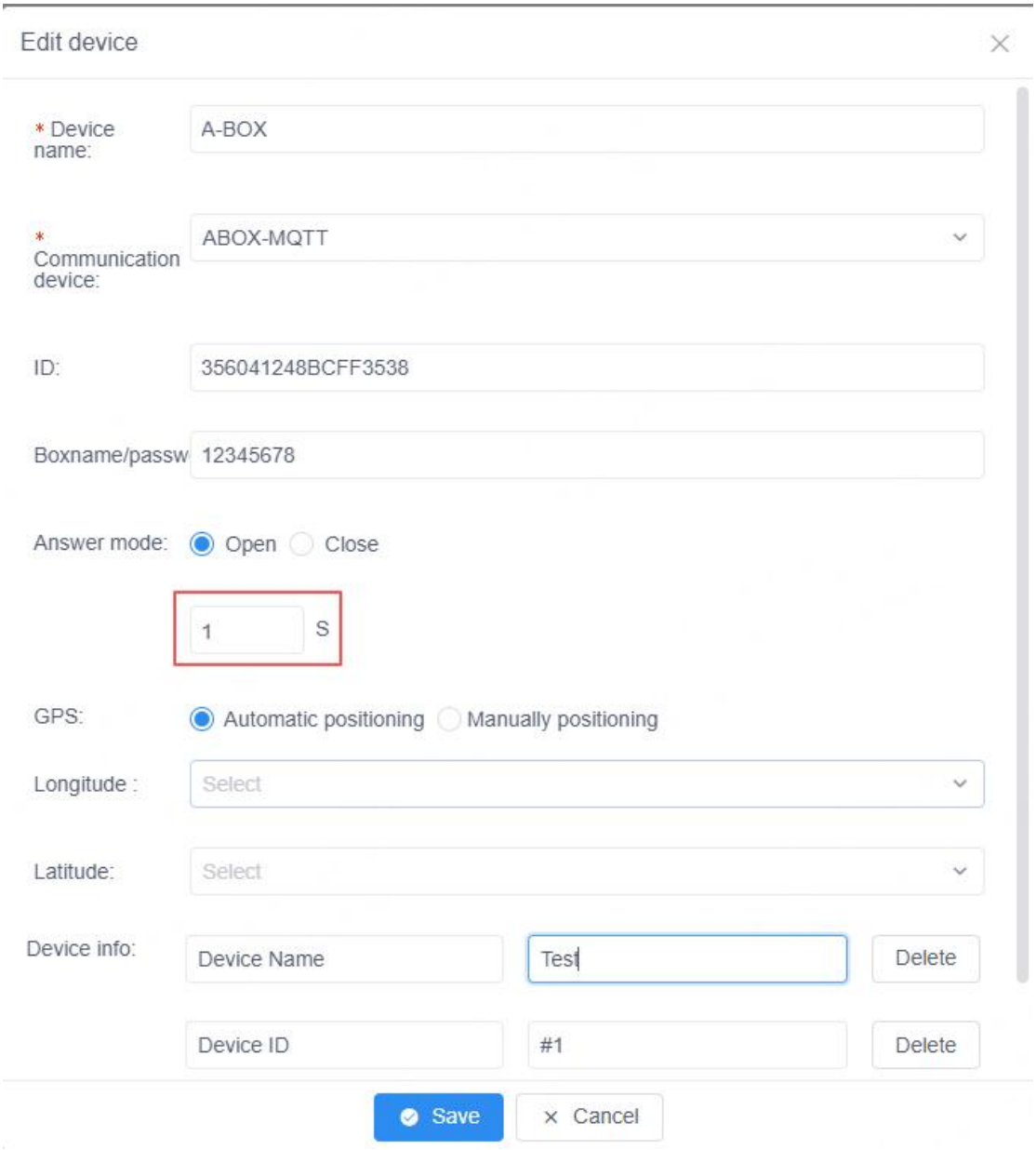
- For 4GBOX, WBOX, TBOX/GBOX, and XG series/XD/XL Ethernet models, the BOX ID and password must be entered.

- ABOX series gateway products (including ABOX-4G, ABOX-W, and ABOX-U) support two protocols: ABOX- XNET and ABOX-MQTT.
- For TS5 IoT models, the TS5 ID, password, and VNC password must be entered.

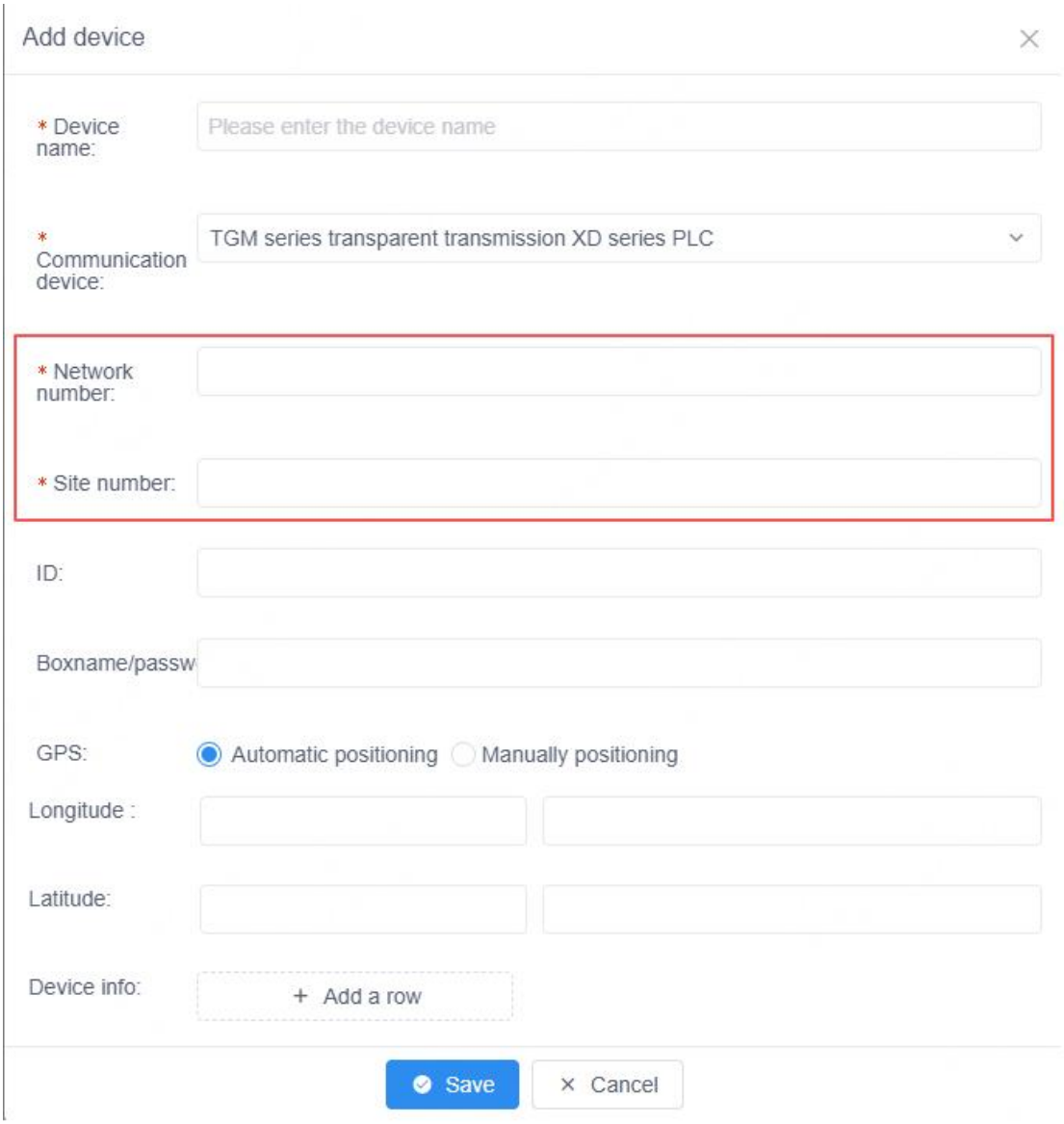


- If the MQTT protocol is enabled during the configuration of data points in BoxManager, you can select the ABOX-MQTT device in the platform and click "Sync" (as indicated by the arrow in the figure above); this will synchronize the data configuration table from ABOX, eliminating the need for secondary editing on the platform. For detailed ABOX configuration, refer to the "A-BOX (-U/4G/W) Remote Communication Module User Manual".
- ABOX-MQTT protocol communication "Response Mode": When Response Mode is enabled, the platform will periodically request data points published in ABOX with the publication mode set to "Response Mode " based on the response time. (As shown in Figures A and B)



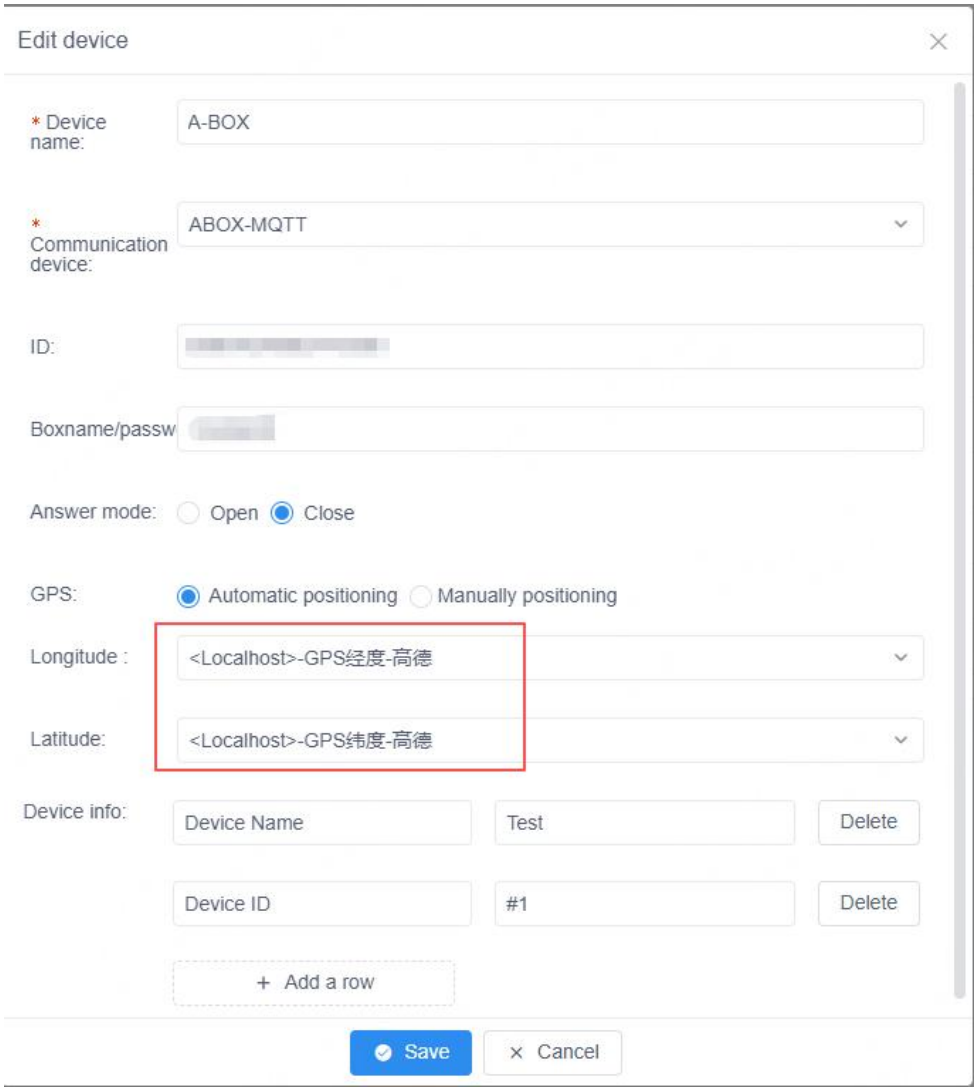


- For the TGM series transparent transmission and XD series PLCs, you must enter the network number, station number, BOXID, and the password for the TGM touchscreen; the network number and station number are the Xnet parameters configured when setting up Xnet communication between the TGM touchscreen and the PLC; the BOXID and BOX password are entered into the touchscreen as its ID and password.



■ The LAN Modbus TCP protocol is applicable only to cloud platform instances deployed within a customer's local area network. In wide-area network deployment scenarios, the xnet protocol may be used; in local area network deployment scenarios, the Modbus TCP protocol must be used.

Step 2: Device Positioning

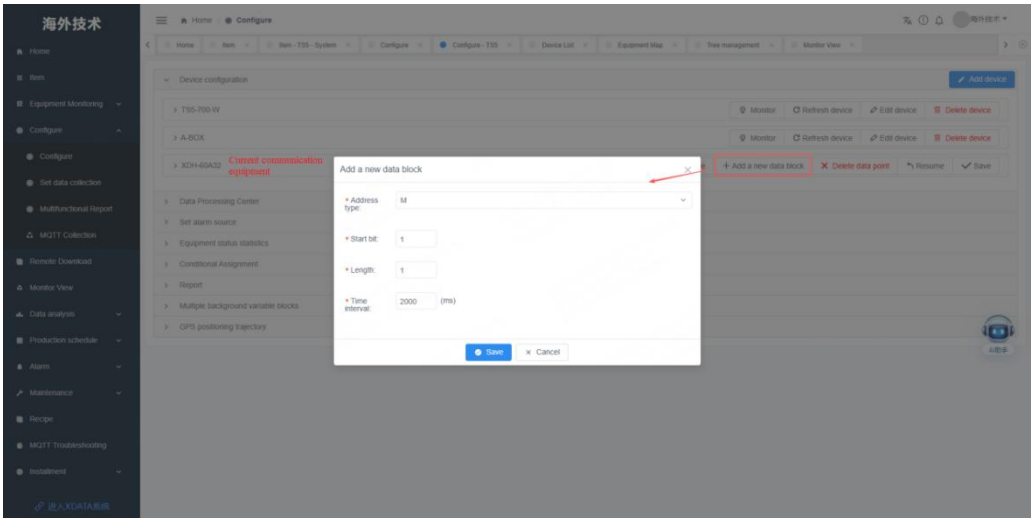


The gateway device supports GPS positioning. If the module itself includes a built-in GPS module (ABOX/ABOX-U/4 GBOX), a separate GPS antenna must be ordered; the GPS latitude and longitude values should then be entered into the latitude/longitude positioning register in the configuration interface. The device map will then display the device's location based on the latitude and longitude values stored in the register.

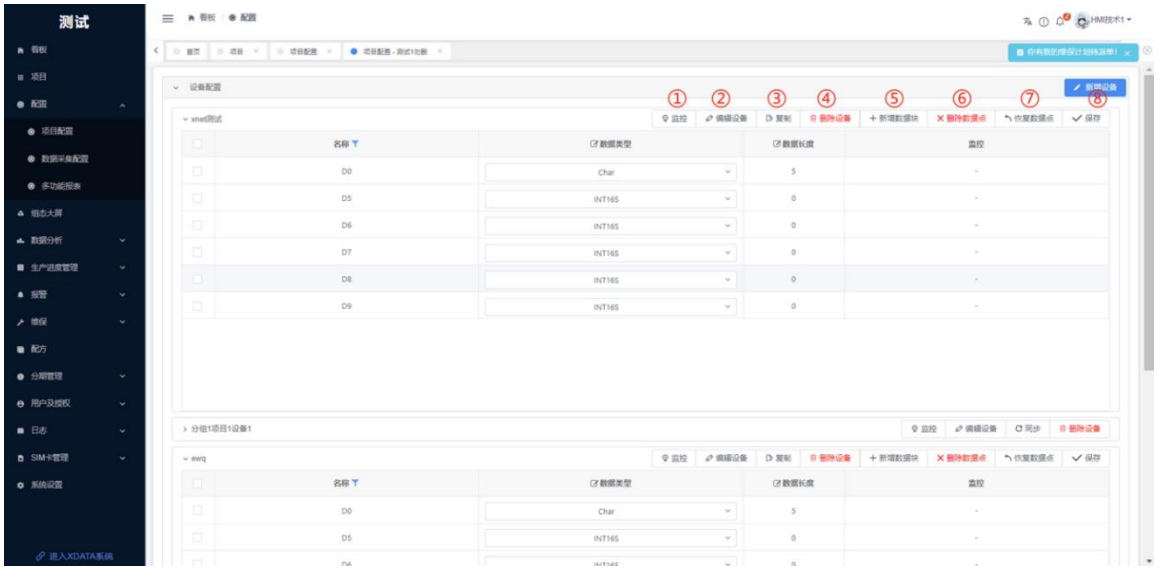
Step 3: Device Information

Equipment information: Click "Add a row," enter the information, and click the equipment's marker on the equipment map page to display the information

2. Add Data Blocks to the Device

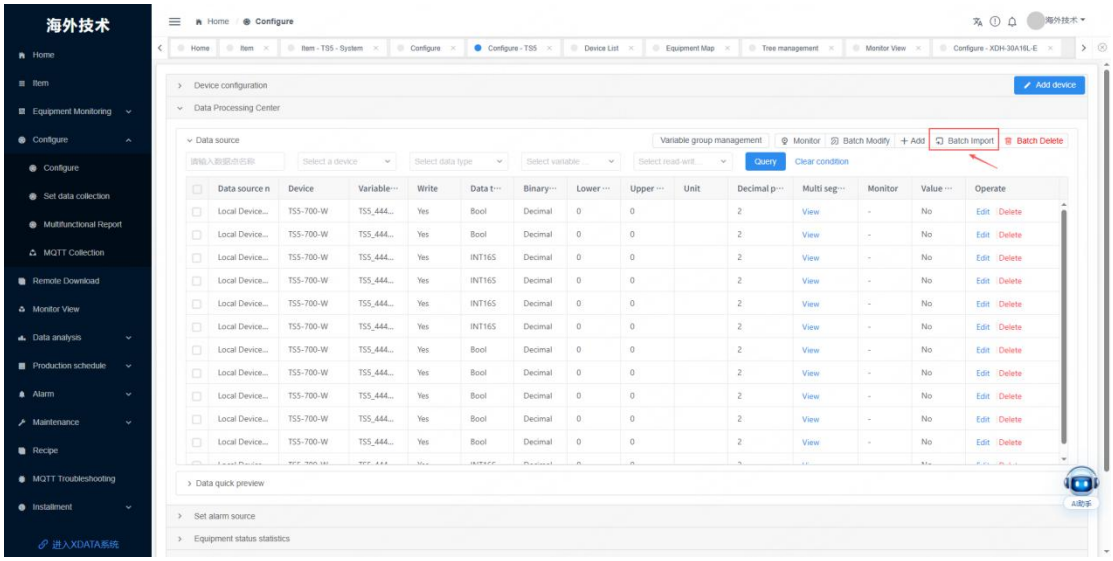


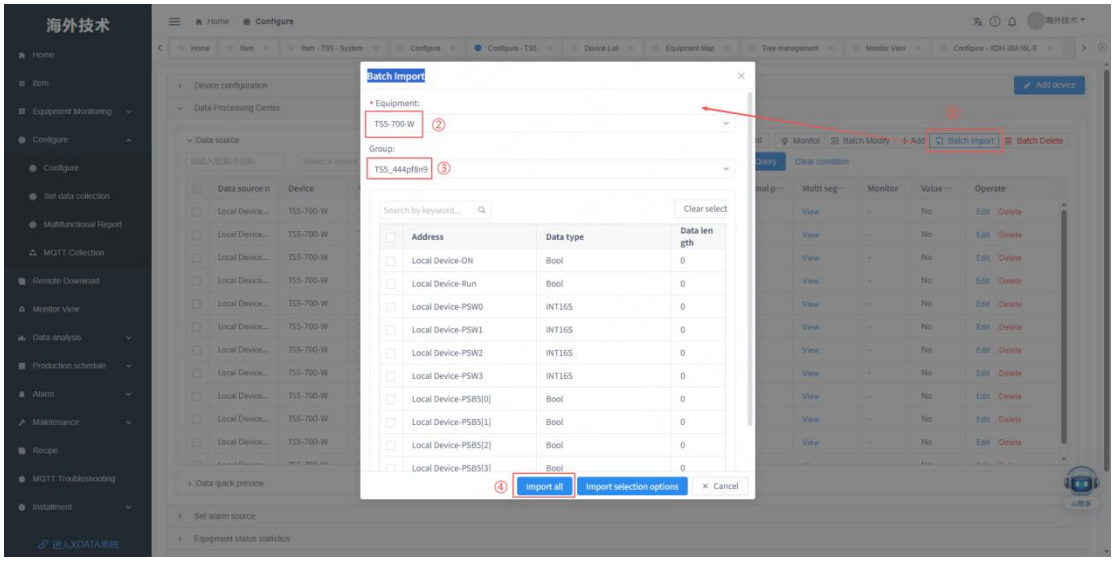
Menu bar button function overview:



NO.	Name	Function declaration
①	Supervisory control	Click "Monitoring" to obtain the current value of a data point for a single addition.
②	Editing equipment	Communication devices, register positioning, and device information can be modified.
③	Duplicate device template	You can copy and create data points for the device.
④	Delete device	The device can be deleted.
⑤	Add new data block	Select the data type, edit the starting address, and set the data block length (maximum block length: 200).
⑥	Delete data points	Perform a deletion operation on the added data blocks; the deleted data blocks do not participate in communication, thereby reducing traffic overhead.
⑦	Restore data points	Restore the deleted data points and re-edit them.
⑧	Preserve	Save the configured data points.

3. Data Processing Center—import data points from the data source and map them to the platform. For an introduction to the Data Processing Center, refer to 7.1.2 Data Processing Center.





NO.	Function declaration
①	Select the device that requires data points to be imported.
②	Select the variable group to import (if none is selected, the system will automatically generate one).
③	Click "Import All," or you can select the data points you wish to import.

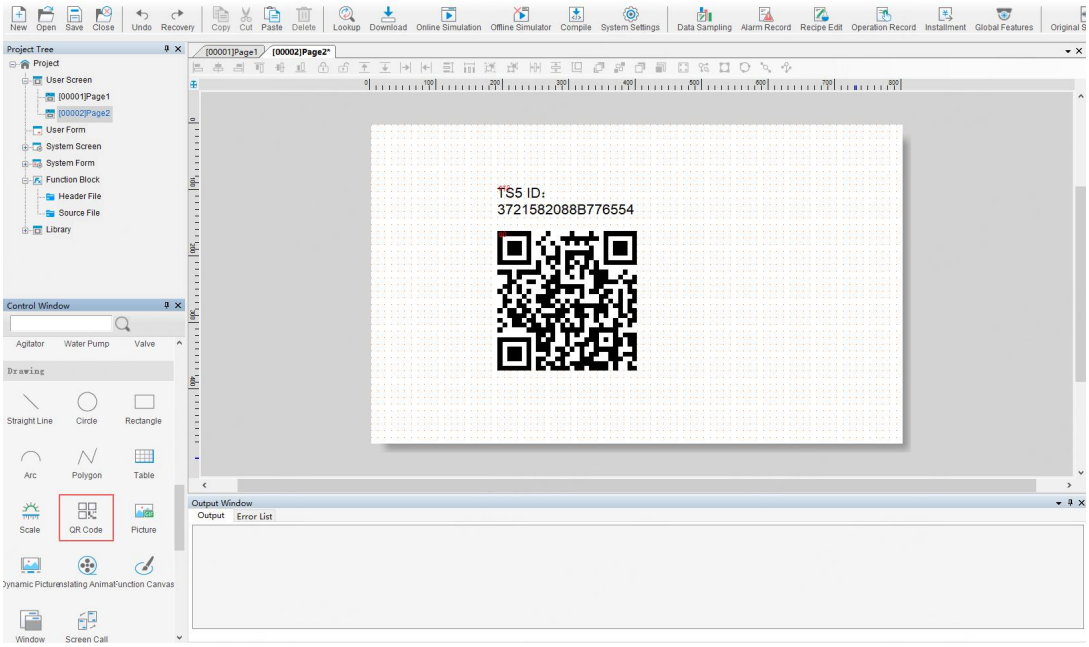
7.1.1.1 Quick Addition to the TS5 Series IoT Display

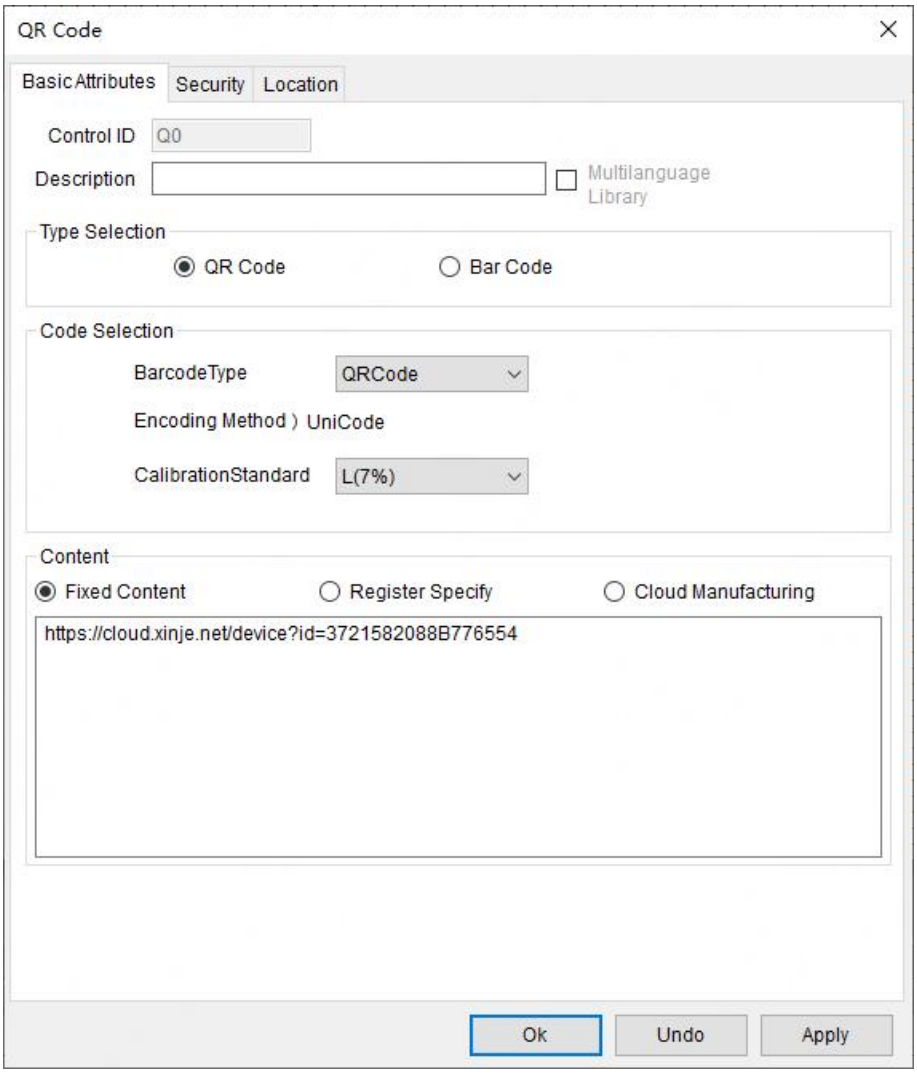
In addition to adding the TS5 IoT display via the PC interface, you can also quickly add it by scanning a QR code through a WeChat mini-program.

1) QR Code Generation

Open the TouchWin Pro tool, select the "QR Code" control, and enter the QR code content.

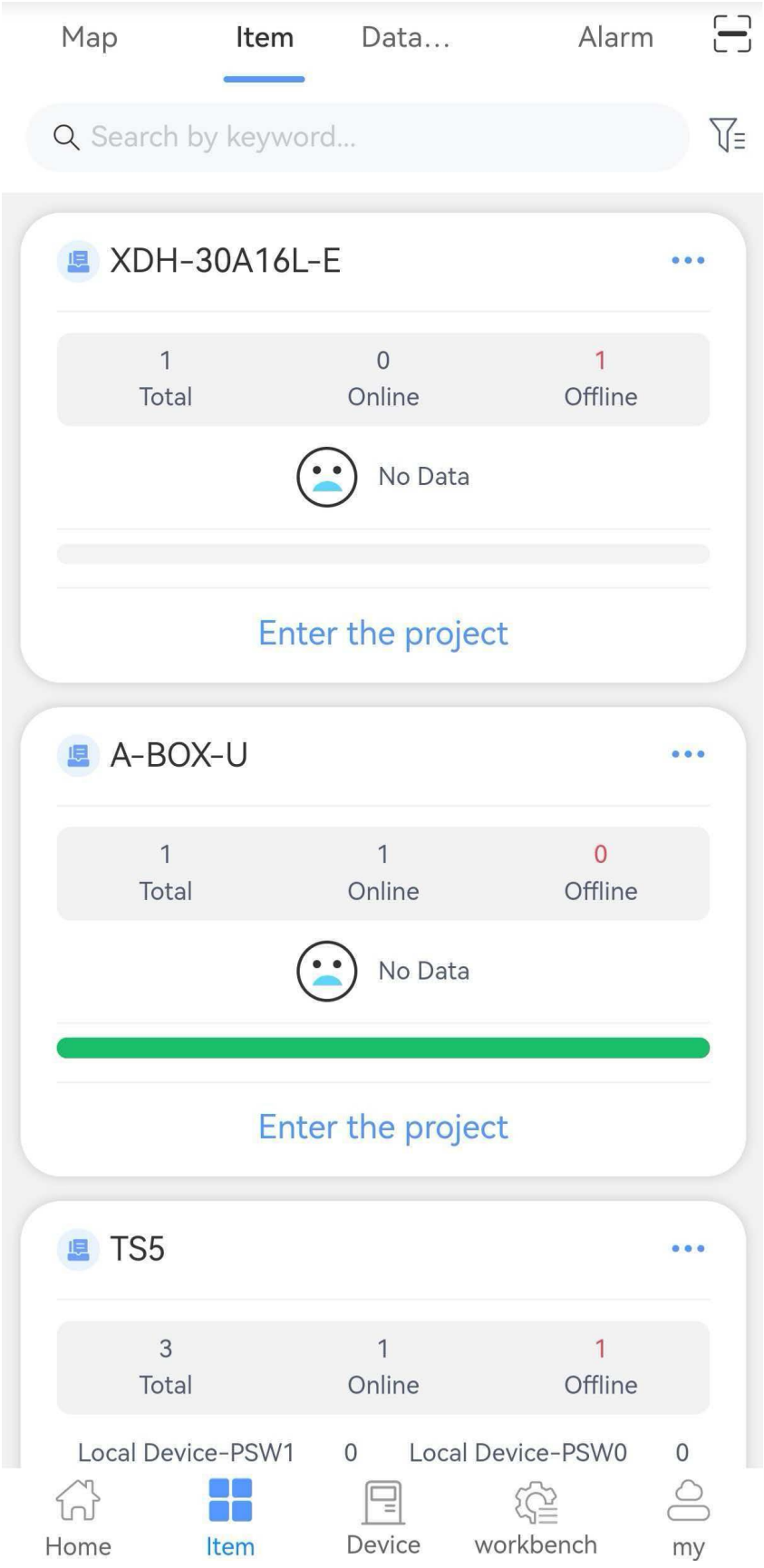
" https://cloud.xinje.net/device?id=3721582088B776554 ", where "3721582088B776554" is the TS5 ID, and " https://cloud.xinje.net/device?id=" is the fixed prefix.





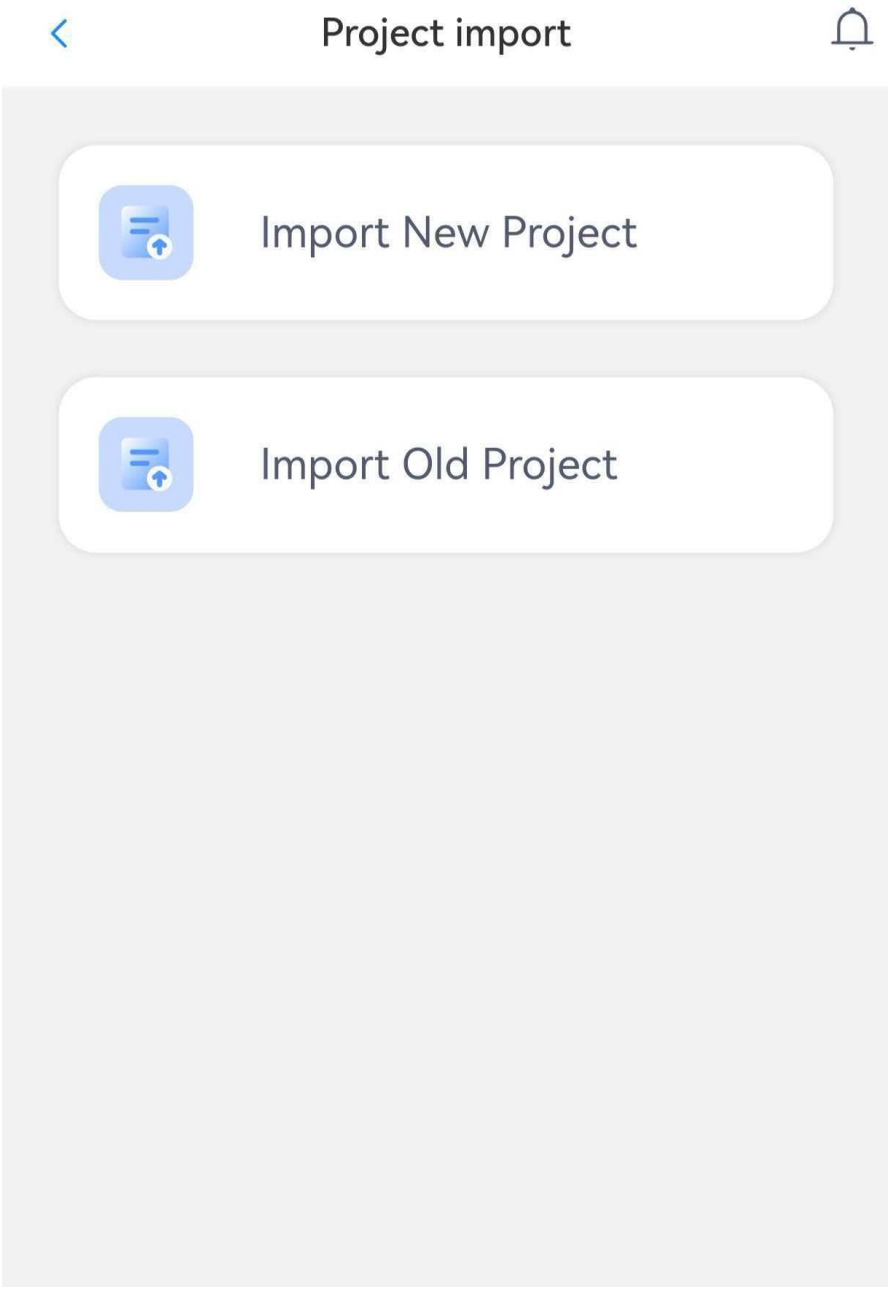
2) QR Code Scanning Feature

Tap the scan button in the upper-right corner of the WeChat Mini Program project overview page to enable the scanning function.

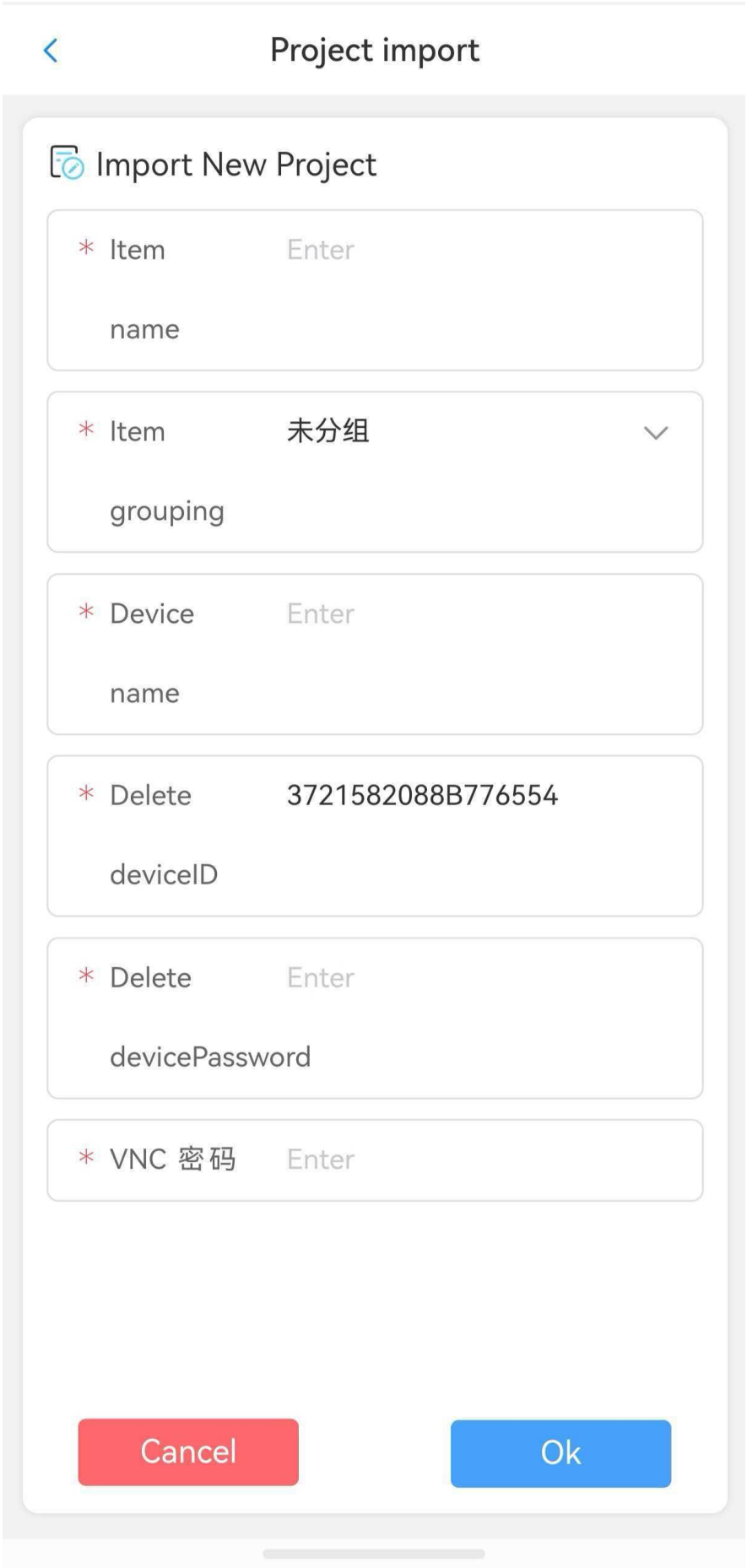


3) Equipment Addition

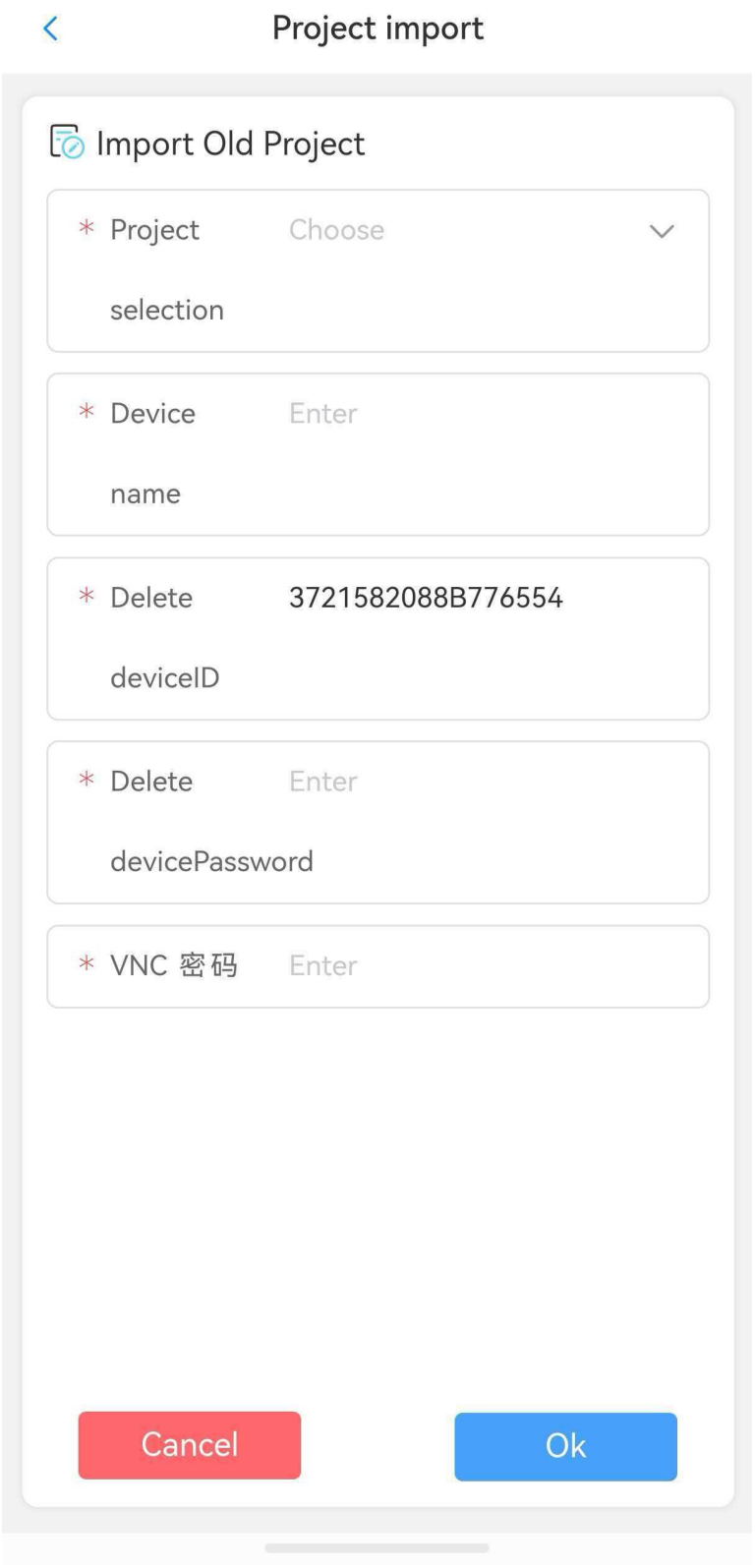
Scan the QR Code to Enter the Device Addition Page, Where You Can Choose to Add the Device to an Existing Project or Create a New Project for Addition.



Import a new project: edit the project name, select the project group, and edit the device name, TS5 password, and TS5 VNC password; the TS5 ID is automatically entered via a QR code, completing the device addition process.



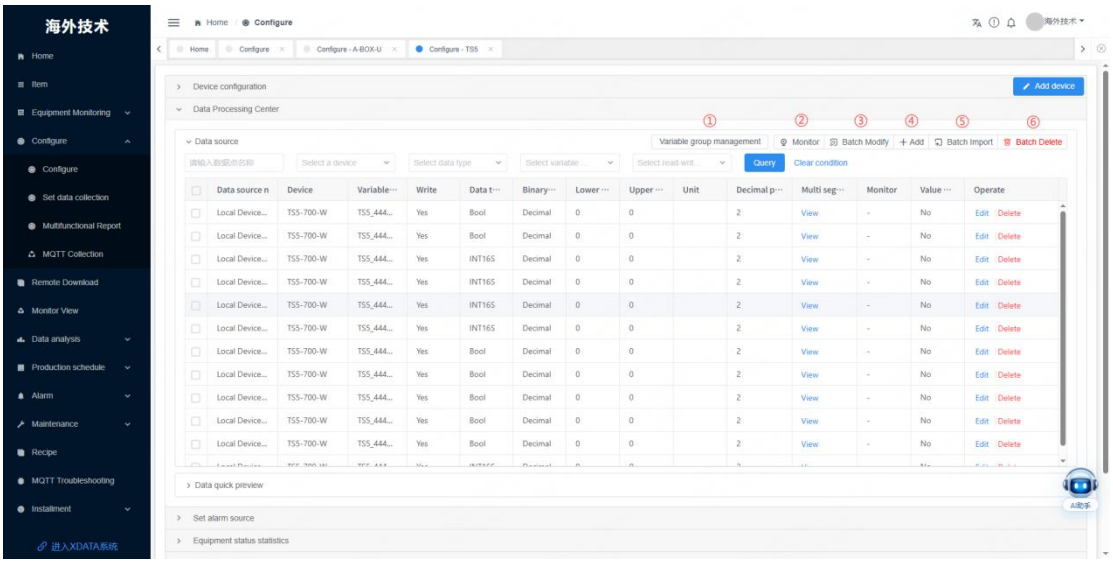
Import an existing project: Select the associated project, then edit the device name, TS5 password, and TS5 VNC password; the TS5 ID is automatically entered via a QR code, completing the device addition process.



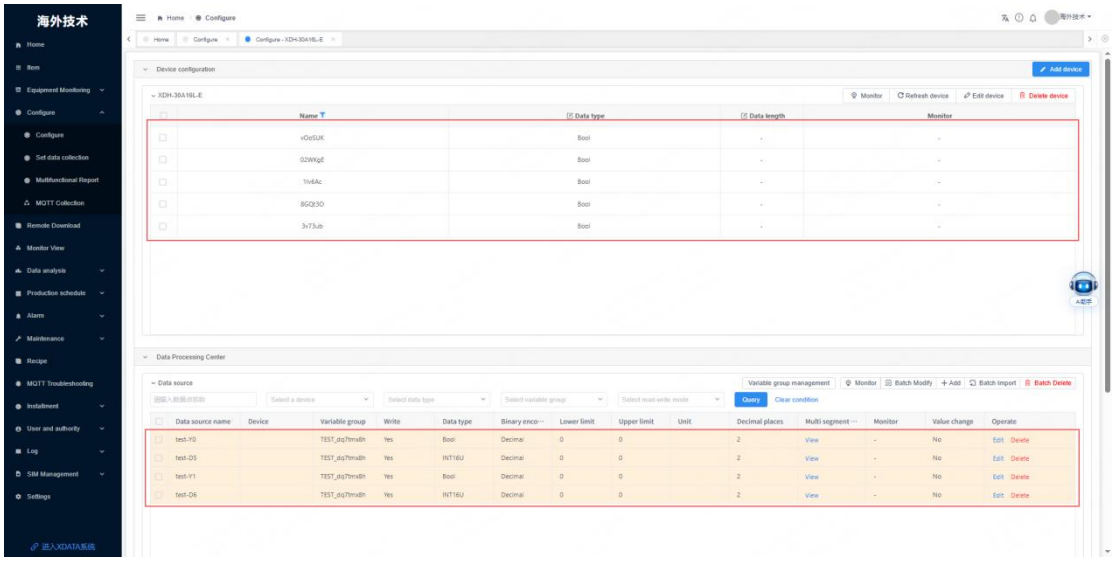
7.1.2 Data Processing Center

7.1.2.1 Data Source

Data sources are introduced as a concept within the XINJE IoT model; device data points are assigned values and assigned internal platform addresses for use, thereby preventing data point loss caused by device replacement or accidental deletion, which would otherwise render platform functions unusable and necessitate reconfiguration, resulting in significant redundant work. This adds a simple batch import step, reducing the considerable inconvenience caused by subsequent data point loss.

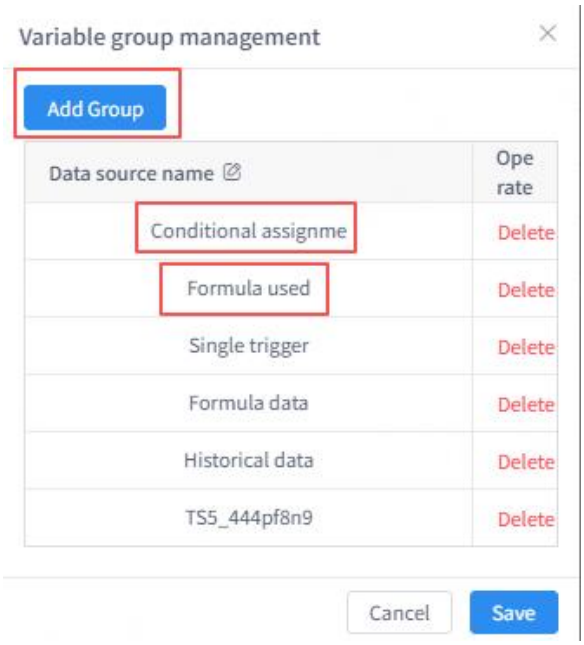


When an abnormal display is detected for a data point in the data processing center, the first step in troubleshooting is to enter the "Device Configuration" module of the system and confirm whether the abnormal data point has been deleted. If the data point is part of the device synchronization data, proceed to the device side to verify the data point list; an example of an abnormal display caused by desynchronization is shown below:



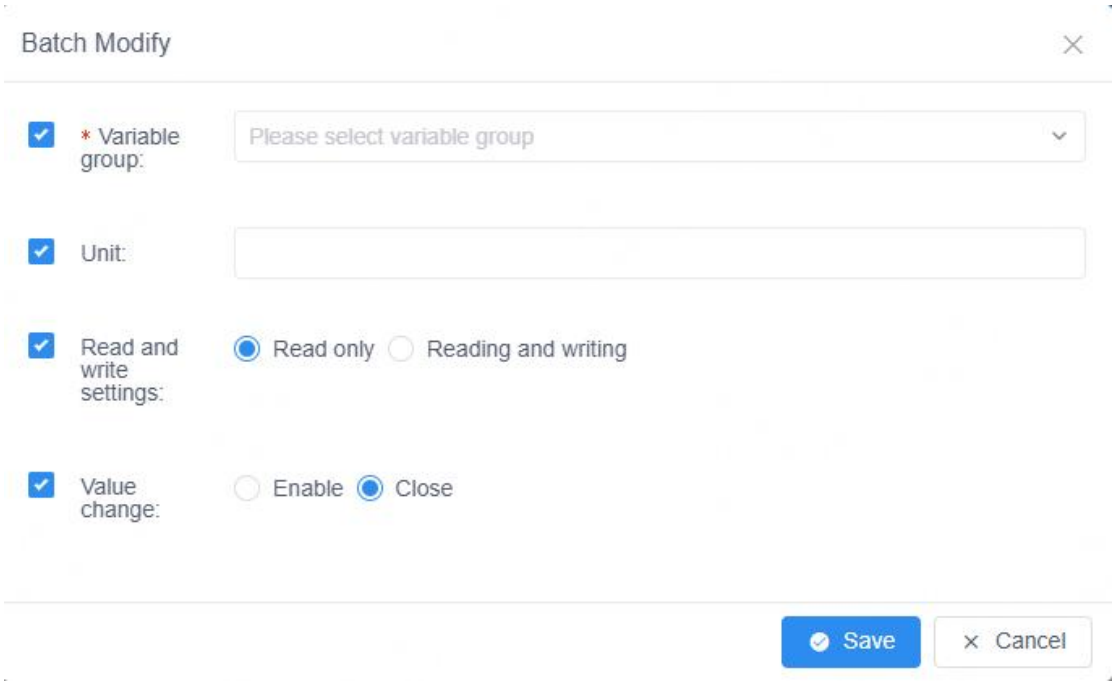
Function Introduction:

① Variable group management: Create containers for storing data sources; for example, data sources can be categorized into alarm data, historical data, configuration data, and so on, thereby facilitating platform configuration.

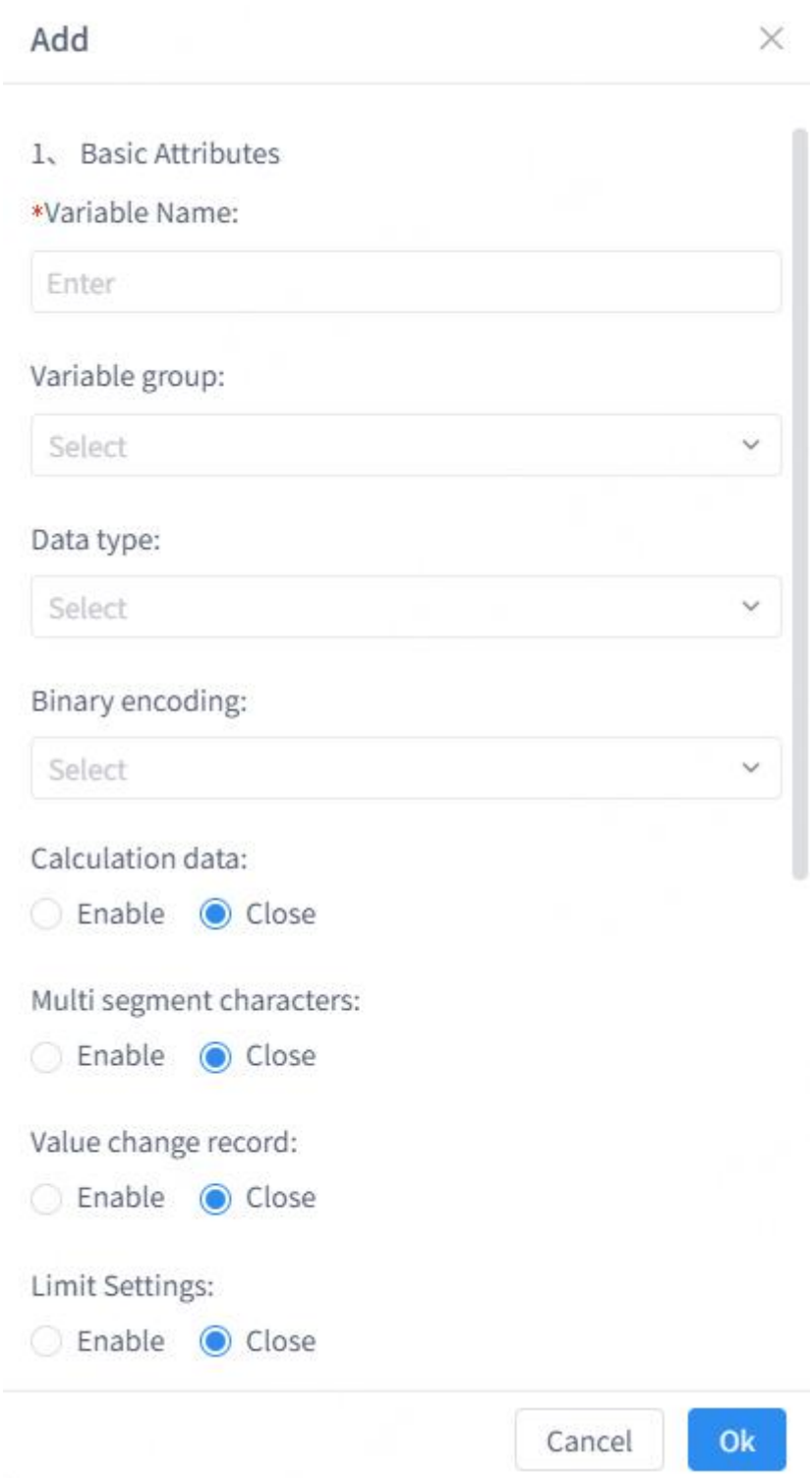


② Monitoring: The data source can process and compute the raw device data; the monitoring interface can then display the results of this processing.

③ Batch Modification: First select the data points, then click "Batch Modification." This allows you to configure multiple device data points at once for parameters such as "Variable Group," "Unit," "Read/Write Settings," and "Value Change."



④ Add: Clicking "Add" enables detailed data processing for data points on a single device.


Add
1、 Basic Attributes
*Variable Name:
Enter
Variable group:
Select
Data type:
Select
Binary encoding:
Select
Calculation data:
Enable
Close
Multi segment characters:
Enable
Close
Value change record:
Enable
Close
Limit Settings:
Enable
Close
Cancel
Ok

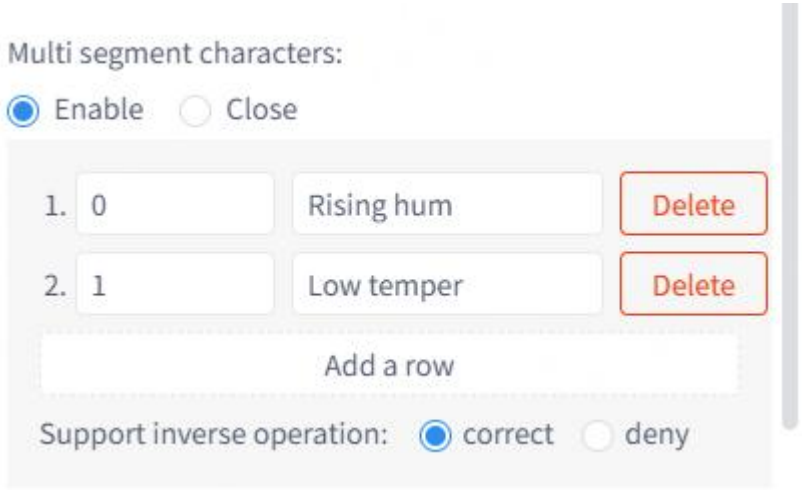
⑤ Batch import: Device data points can be imported in bulk into the platform as data sources. The default attributes of the data source will be set to "decimal" and "readable and writable"; the upper and lower limits are determined by the data type. Cloud computing and multi-string functionality are disabled. If further configuration is required, select a single data source for configuration.



⑥ Batch deletion: Multiple device data points can be deleted in bulk.

7.1.2.1.1 Multiple String Segments

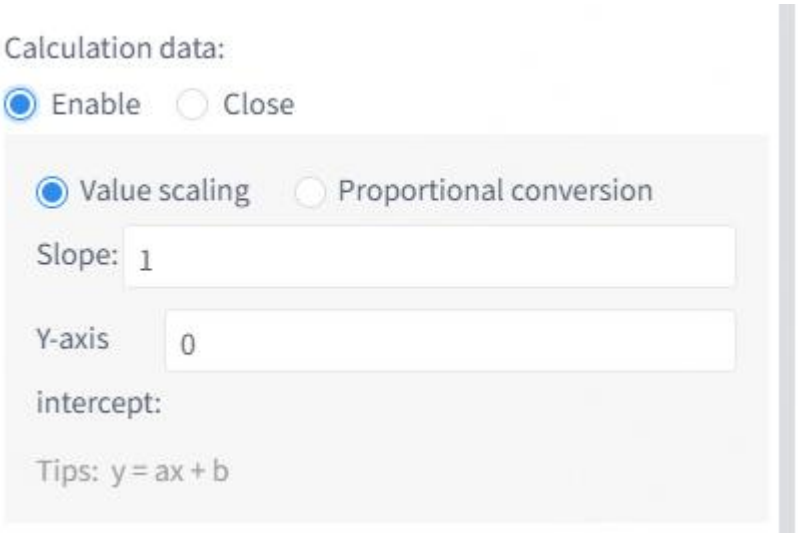
The multi-character string function displays the corresponding characters based on the value in the register. For example, when the value is 0 and you want to display a temperature alarm in the configuration, enter 0 in the string field and set the multi-character field to "temperature alarm." As shown in the figure:



Supports inverse operation: Select "Yes"; when the input character "temperature alarm" is displayed in the configuration data, it will write 0 to the corresponding register; Selecting "No" means that, when the configuration display shows the input field "Temperature Alarm," the entry is invalid; only the configured values "0" and "1" are permitted.

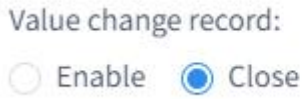
7.1.2.1.2 Data Calculation

Value scaling: i.e., displayed value (y) = slope (a) × read value (x) + intercept (b)
Ratio conversion: Primarily used for analog-to-digital conversion. Calculations are performed based on the formula displayed on the platform.



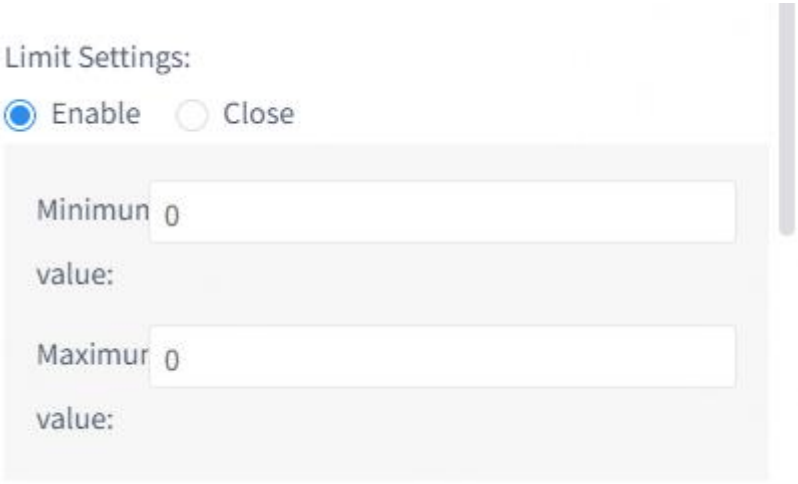
7.1.2.1.3 Value Change Record

Once this feature is enabled, changes in data points and the times at which they occur can be recorded. These change records can be viewed in the Logs → Value Change Logs.



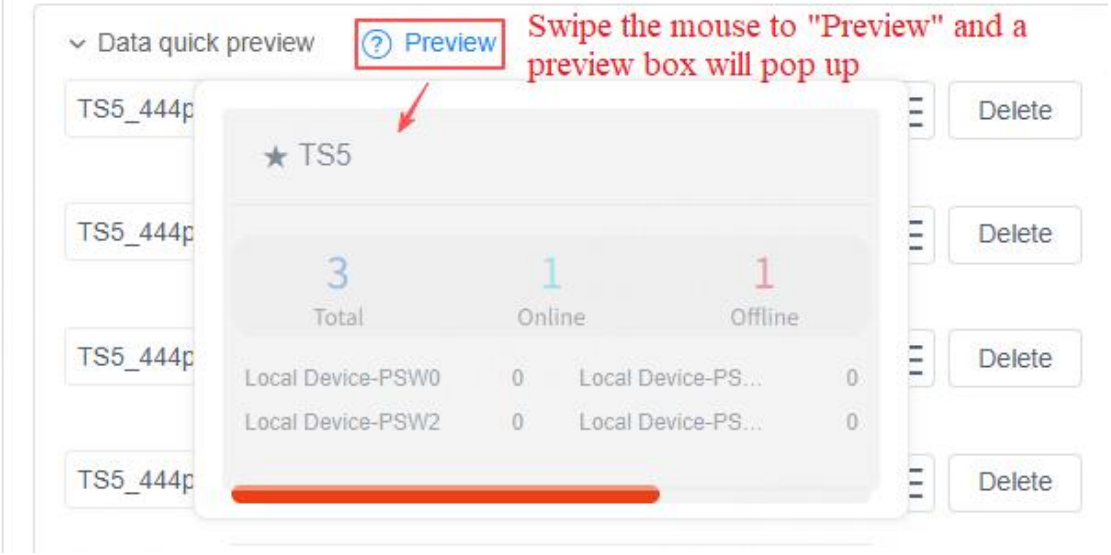
7.1.2.1.4 Upper and Lower Limit Settings

Once this feature is enabled, you can set upper and lower limit ranges.



7.1.2.2 Project Data Preview

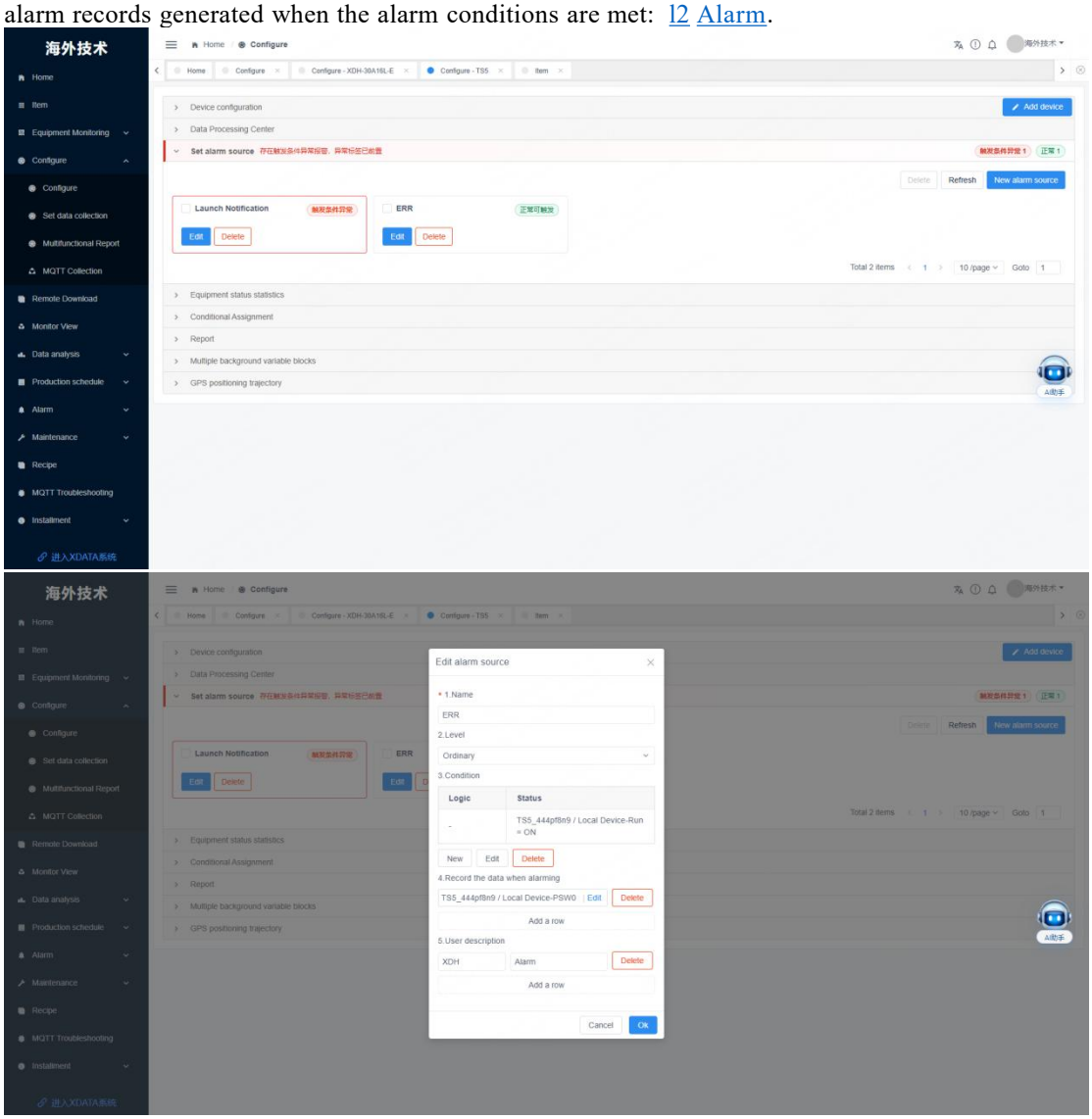
Select the data to be displayed on the device block within the project interface; a maximum of 4 items may be selected, and once confirmed, they will be displayed intuitively on the project page.





7.1.3 Alarm Source Configuration

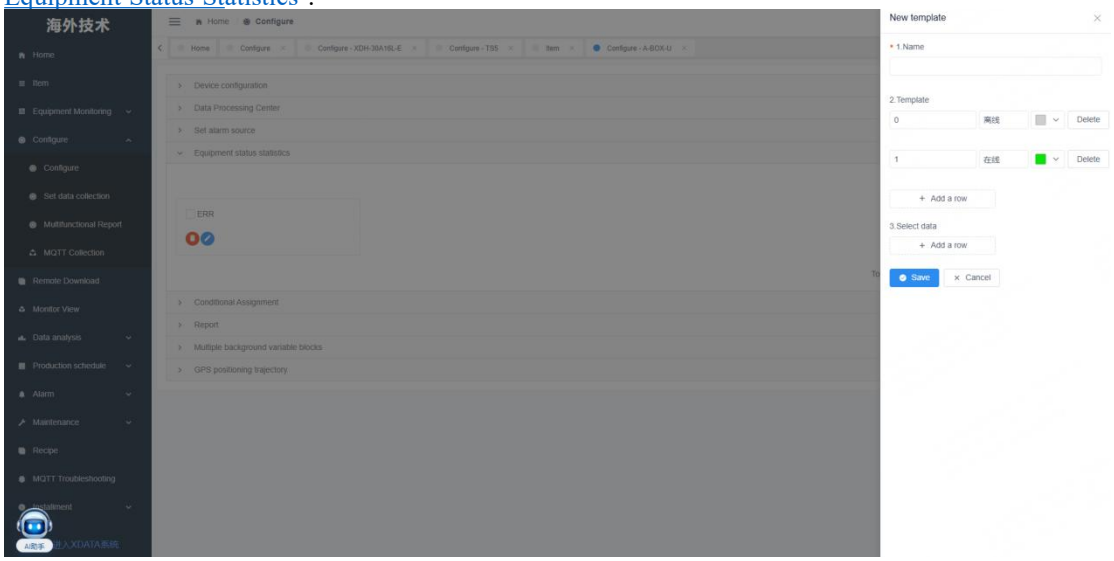
Alarm trigger conditions can be freely configured based on the status of data points; when a configuration anomaly occurs in the trigger conditions, a warning will be displayed in red text. To view the alarm records generated when the alarm conditions are met: l2 Alarm.



Project	Function declaration
Name	An alarm name can be configured.
Alarm Level	It is divided into four levels: normal, general, warning, and serious.
Set alarm conditions	It is possible to determine whether an alarm has been triggered based on the coil ON/OFF status and a comparison of the register value. (When the condition is met, record the alarm task.)
Data points recorded when the reporting duty occurs	You can add key parameters when an alarm occurs and directly select data points within a pre-configured data block.
User Description	The description of the alarm can be edited when an alarm occurs, allowing the operator to resolve it.

7.1.4 Equipment Status Statistics

Click "Add Template" → configure the template information →then click "Save." You can view this in 10.2 Equipment Status Statistics .



Project	Function declaration
Name	The name of the status statistics template.
Templet	A set of status strings corresponding to the values of the registers/coils. The platform will determine the corresponding status based on the register values.
Select data points	Specifically, the data points representing the device status within the device configuration data block are selected; the platform then records, based on the status strings corresponding to the values of these data points, the duration of each device state.

7.1.5 Conditional Assignment

The conditional assignment function enables cloud-based data transmission via the gateway device on the platform; it also allows data from the PLC-A communicating with Gateway A to be transmitted to the PLC-B communicating with Gateway B in the cloud.

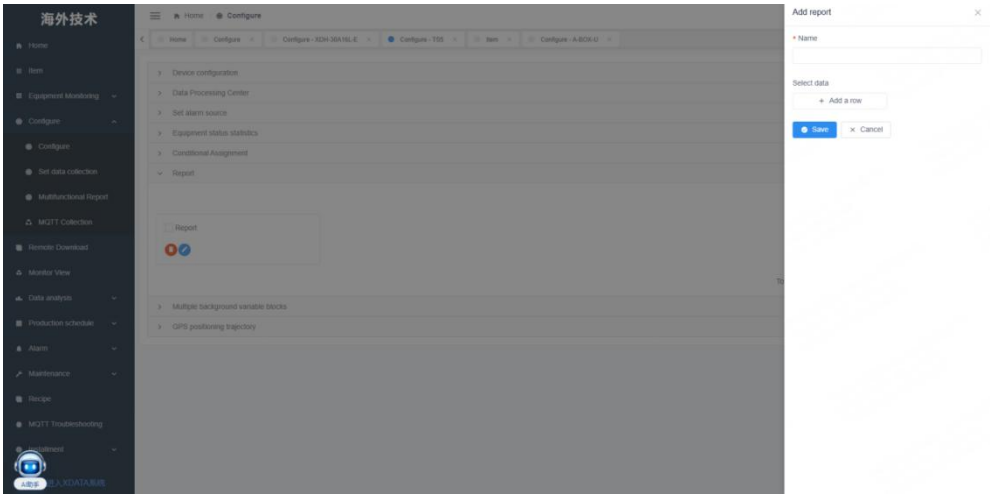


Project	Function declaration
Name	You can edit the name of this conditional assignment (value transfer).

Project	Function declaration
Periodicity	The write value assigns a value to the (written) data according to the preset cycle.
Conditionity	The write value assigns a value to the (written) data based on the specified logical conditions.
Original data	You can choose to write constants or variables to the target data address (select variable data points from other or devices under the same gateway).
Target data	The address where the data is written.

7.1.6 Report Forms

Click "Add Report," enter the name and data, and the cloud will automatically calculate annual, monthly, and daily reports, which can be viewed in 10.3 Report.



The bound data point need only be the cumulative production register in the PLC; the PLC does not need to perform daily calculations to generate daily production figures. Instead, the platform performs a difference calculation daily based on the cumulative value in the register to generate the day's production data.

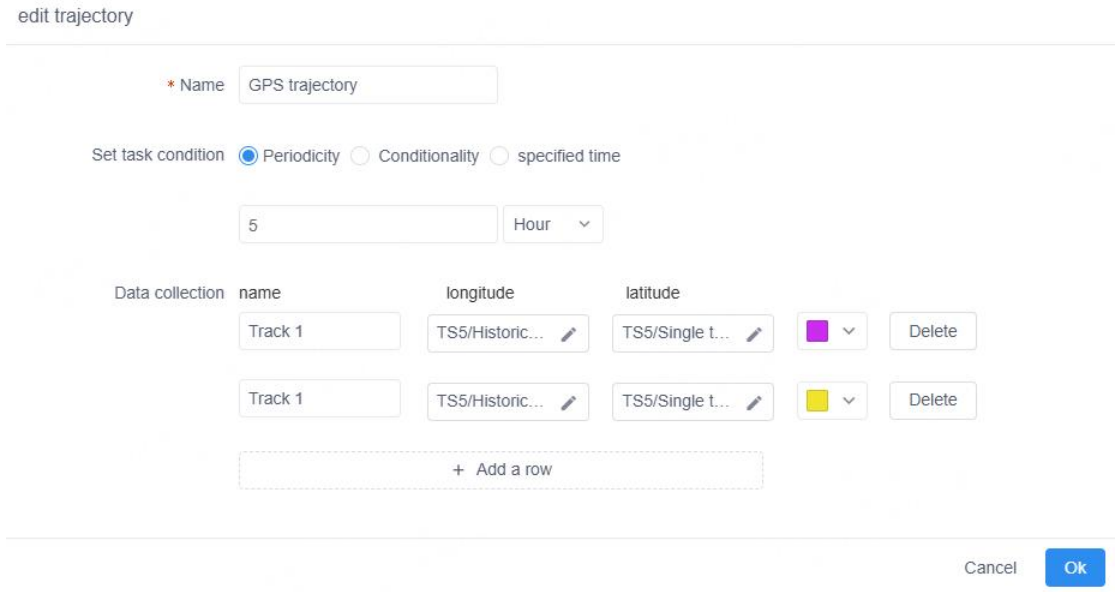
7.1.7 Multivariate Context

Click "Add Variable Block" to enter the variable block configuration page. Multiple variable backgrounds are primarily used to bind a set of data points to a single configuration control, allowing specific variables to be specified via a variable selection control for display. For detailed application procedures, refer to 7.2.2.6 Multiple Variable Controls.

Project	Function declaration
Add a column	Add a column of variables; identical columns represent the same data meaning. When configuring the binding, bind the column name.
Add a line	Add a line of variables; each line represents a new set of data points. When configuring a binding, this is used to specify the particular data points within the variable group to which the configuration is bound.

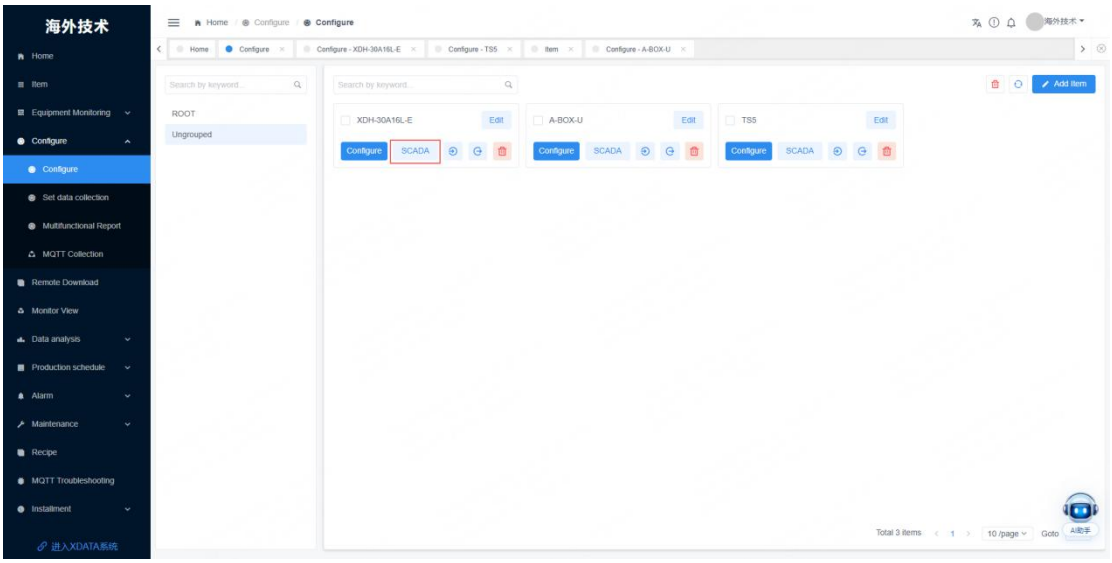
7.1.8 GPS Positioning Trajectory

Click "Add Trajectory" to enter the trajectory configuration page. Configure the method for collecting latitude and longitude data: periodic collection, conditional collection, or collection at a specified time. Click "Add Row" to create a new GPS trajectory; you can then set the latitude and longitude data points and the trajectory color separately.

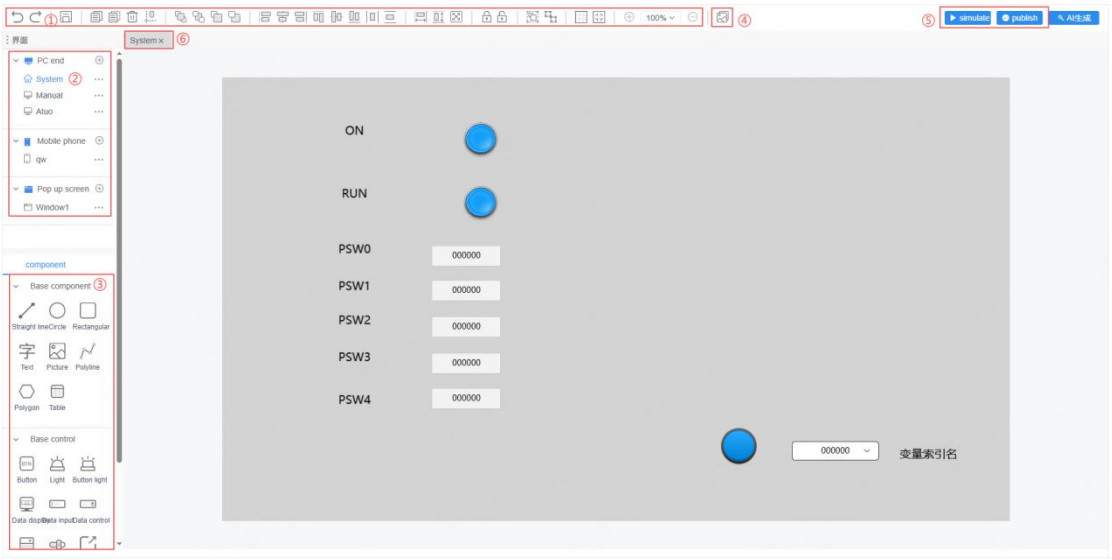


7.2 Configuration Page Setup

The page configuration is shown in the figure, go to Configuration ->Project Configuration ->Enter Configuration to configure.



Upon entering the configuration interface, the screen will appear as shown in the figure, resembling a touchscreen software editor.

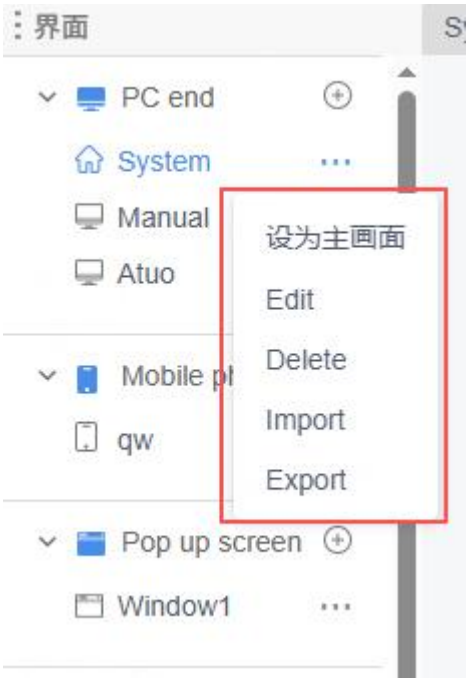


Order number	Name	Function declaration
①	Tool bar	It can be used for configuring interface layers, as well as for control alignment, grouping, and other operations.
②	Page Add Bar	You can add new pages, as well as perform operations such as importing and exporting pages.
③	Control Bar	Provide control components for customers to use in configuring the interface; users can drag components onto the canvas with the mouse and double-click a component to bind data points and perform other operations.
④	Gallery	Custom image library uploads are supported; supported image formats include PNG, JPG, GIF, and BMP, with a maximum file size of l MB.
⑤	Mock Release	Once configuration editing is complete, you can simulate the configuration in the editing area and publish the configuration project.

7.2.1 A Quick Introduction to Video Editing



click ,Enter the screen name. If the mobile-end configuration is not edited, the mobile end will default to displaying the PC configuration screen. Once the mobile-end configuration has been added and edited, the newly added mobile-end configuration monitoring screen will be displayed on the mobile device, while the PC-end configuration will not be displayed. Screen information can be deleted, edited, imported, and exported.



Click "New" to enter the configuration editing interface. You can perform comprehensive configuration editing using the existing controls in the function bar and the function keys above them: select a control with the mouse, hold it down and drag it directly into the editing area, and double-click

it to modify its configuration properties. Once editing is complete, you can click 

View configuration effect

Once completed, click 

valid.

7.2.2 Control Overview

For more detailed instructions on how to use the controls, please scan the QR code below or follow the "XINJE Technology" official WeChat account and click on the "Industrial Internet" section.

7.2.2.1 Basic Components

Basic elements: straight lines, circles, rectangles, text, images, broken lines, polygons (draw broken lines/polygons by holding Ctrl and clicking the left mouse button), and tables. Drag the element into the editing area, double-click to modify its properties, and use the zoom controls to enlarge or shrink it.

7.2.2.2 Basic Controls

Basic controls: buttons, indicator lights, button indicator lights, data display, data input, data control, combo -box input, slider input, screen navigation, and variable images.

Note: For operational details regarding the functionality of multiple background variables, refer to 7.2.2.6 Multiple Variable Controls.

■ Button/indicator light/button indicator light

Name	Function Declaration
Basic Style	You can configure the position, size, angle, transparency, display state, control style, and label text. Note: The image status corresponds to the status displayed by the indicator light in the data source.
Data source	Bind data points to the button indicator lights and execute event selections. Note: Bit wise indexing of variables and splitting the variable type into 16/32-bit components allow operations to be performed on any individual bit independently. Event execution: includes inversion, setting, resetting, constant assignment, incrementing, and decrementing. Supports multi-state indicator lights for variable-length characters.
Control Settings	Only when the conditions are met and the configuration requirements are satisfied can controls be operated in the configuration interface. Note: Conditional enablement—controls can be operated only when the configuration conditions are met.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.
Dynamic behaviour	The control can be moved upward or rotated on the configuration interface based on the specified conditions/proportions.

■ Data Input/Display

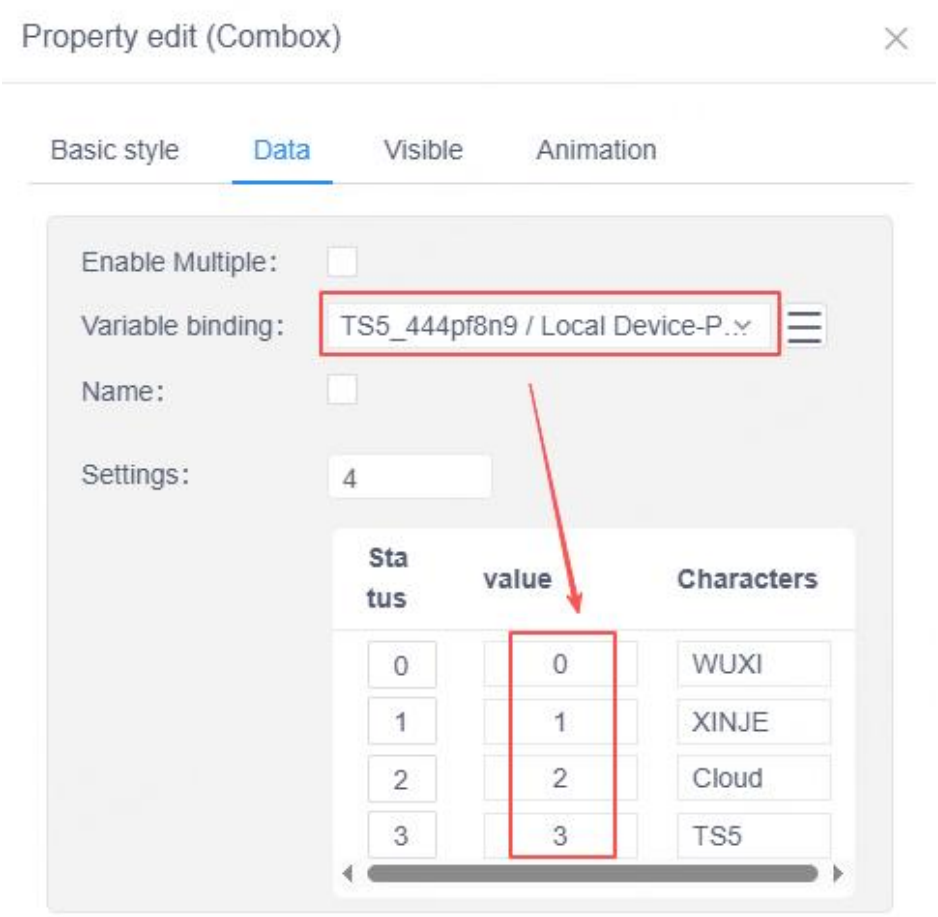
Name	Function Declaration
Basic Style	You can configure the position, size, angle, transparency, control style, and text style.
Data source	Variable binding, unit display, variable name display, and display settings (number of integer digits/ digits after the decimal point to retain, upper and lower limit constraints) are available. Note: The unit/variable name will retrieve information from the data points in the device configuration. Display settings: only the specified integer and decimal places are displayed. For example, if the current value is set to 1234.56 and the integer places are set to 3 and the decimal places to 1, the displayed value will be 234.5; if the decimal input value is set to 12.3, the value actually written to the register will be 123.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.
Dynamic behaviour	The control can be moved upward or rotated on the configuration interface based on the specified conditions/proportions.

■ NC

Name	Function declaration
Basic Style	You can configure the position, size, angle, transparency, control style, and text style.
Data source	Variable binding, variable name display, execution settings, and display settings can be configured. Functionality Implementation: Configuration  Once the configuration is complete, each click of the up/ down adjustment buttons will allow you to add or subtract from the variable address according to the preset value.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

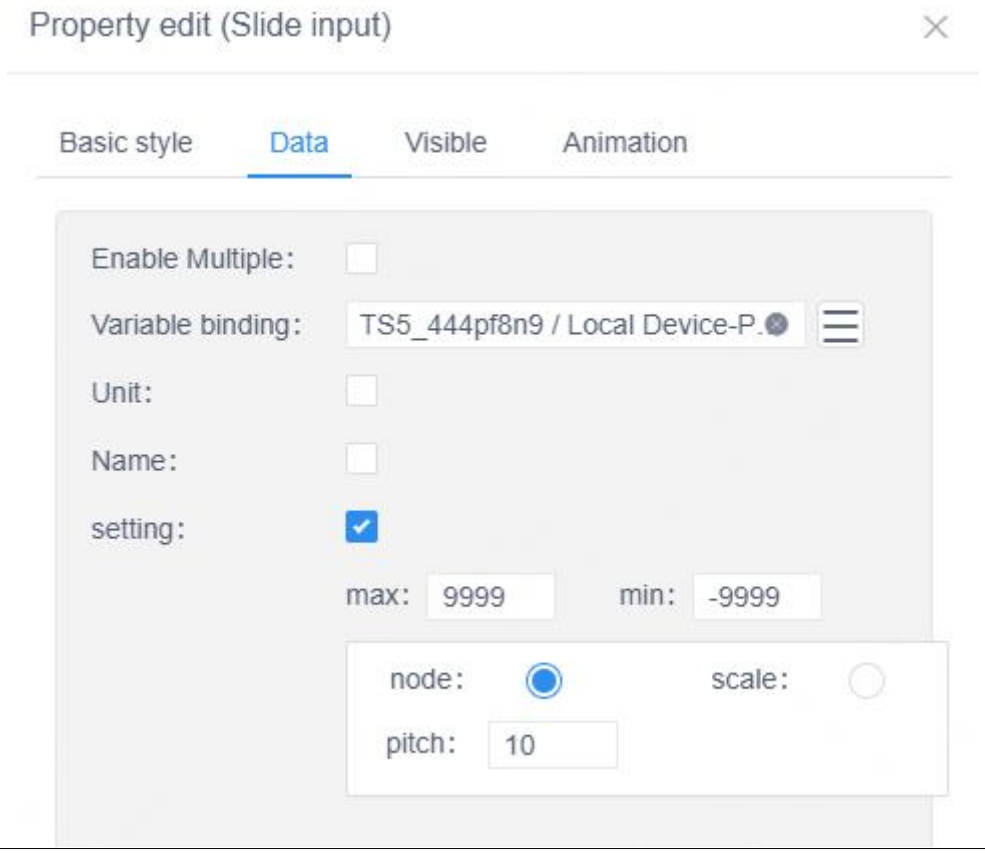
Dynamic behaviour	The control can be moved upward or rotated on the configuration interface based on the specified conditions/proportions.

■ Combination input

Name	Function declaration
Basic Style	You can configure the position, size, angle, transparency, control style, and text style.
Data Source	Variable binding, variable name display, execution settings, and display settings can be performed. Function implementation: Display different characters based on the preset value of the variable address. For example, when D0=0, display the character "Wuxi", and when D0=1, display the character "XINJE". 

	
Display Settings	Only when the configuration conditions are met can this control be displayed on the configuration interface.
Dynamic behavior	The control can be moved up/rotated on the configuration interface according to the set conditions/proportions.

■ Swipe input

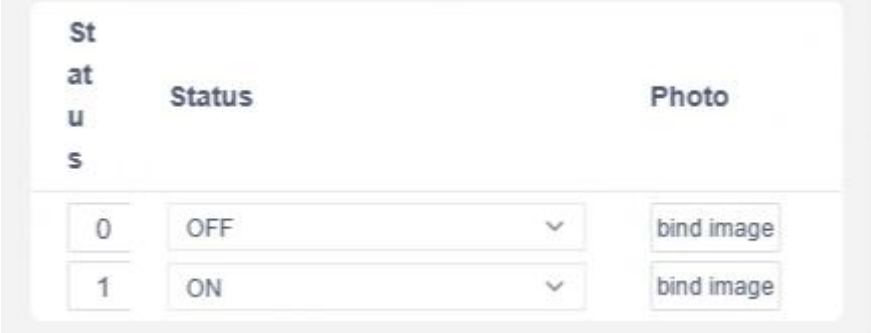
Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, control style, and text style
Data source	Variable binding, variable name display, and sliding settings can be performed (the upper limit of sliding can be set). Note: Sliding settings are divided into node sliding and proportional sliding. Node sliding: calculates the value of each section based on the set number of sections and the upper and lower limits; Proportional sliding: The minimum sliding range is 1% of the upper and lower limits. 
Display Settings	Only when the configuration conditions are met can this control be displayed on the configuration interface.
Dynamic behavior	The control can be moved up/rotated on the configuration interface according to the set conditions/proportions.

■ Scene Transition

Name	Function declaration
Basic Style	You can configure the position, size, angle, transparency, control style, and label text.
Data source	You can bind pop-up screens or screen transitions and select the pop-up or transition screen. Note: Closing the pop-up box requires the use of an advanced control—the function key.

Name	Function declaration
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.
Dynamic behaviour	The control can be moved upward or rotated on the configuration interface based on the specified conditions/proportions.

■ Variable Image

Name	Function declaration
Basic Style	You can set the position, size, angle, and transparency.
Data source	Bind variable image data points, select the number of states, and choose images that meet the state display requirements. Note: Word variables are indexed by bit and their types are split into 16/32 bits to operate on a single bit. The control will display the bound image based on the conditions. 
Display Settings	Only when the configuration conditions are met can this control be displayed on the configuration interface.
Dynamic behavior	The control can be moved up/rotated on the configuration interface according to the set conditions/proportions.

7.2.2.3 Advanced Controls

Advanced controls: circular charts, bar charts, fluid animations, carousel animations, historical curves, real-time curves, date and time, real-time events, historical events, weather, video controls, function keys, and function domains. Drag them into the editing area and double-click them to modify their properties. In video surveillance, the address used for invocation is the live video streaming address of Fingstone Cloud. (At present, only live video streaming from Fingstone Cloud can be invoked.)

■ Dash Board

Name	Function declaration
Basic Style	You can configure the position, size, angle, and transparency.
General property	Configure the control's filling method, maximum and minimum values, and variable binding.
Extended Attrib- Ute	Scale settings, percentage display settings, and color-change settings upon reaching the upper and lower limits.

■ Circular Chart/Bar Chart

Name	Function declaration
Basic Style	You can configure the position, size, angle, transparency, and control fill color/background color/border color settings.
General property	Configure the control's filling method, maximum and minimum values, and variable binding.

Extended Attrib- Ute	Scale settings, percentage display settings, and color-change settings upon reaching the upper and lower limits.

■ Fluid (Ctrl + left-click mouse to finish drawing)

Name	Function declaration
Basic Style	You can configure the position, opacity, and fluid style settings.
Mobile Enabl- ement	Selection of the fluid flow regime.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Variable Image

Name	Function declaration
Basic Style	You can configure the position, opacity, and fluid style settings.
Animation materials	Add animation material images.
Animation settings	Set the rotation mode for switching animation material images. Note: Single way mode: The bound material images can be switched in a 0-1-2 loop. Round trip mode: The bound material images are cycled 0-1-2-1-0.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Historical Curve

Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, style (line chart/bar chart/travel chart), and refresh cycle settings. Note: The refresh cycle setting can be set to seconds/minutes/hours/days/months/years. Data points are only recorded when the front-end configuration is turned on, and when the configuration is turned off and reopened, statistical calculations will be performed again. This data is not recorded in the database.
Data Source	Can add curve variables and set curve colors.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Real-Time Curve

Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, and style (line chart/bar chart/pie chart).
Data Source	Add curve variables and set curve colors (the front-end configuration refreshes the latest data every 2 seconds).
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Date And Time

Name	Function declaration
Basic Style	You can configure the position, opacity, and fluid style settings.
Data Source	You can choose to display date+time/date/time.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Rolling Text

Name	Function declaration
Basic Style	You can set the position, text style, transparency, background color, and scrolling text content.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Embedded Web Page

Name	Function declaration
Basic Style	You can set the location, transparency, and webpage loading URL.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Hyperlink

Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, display state, control style, label text, and redirect webpage address.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Real time events

Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, display state, control style, label text, and redirect webpage address.
Real time events	Select event triggered data points, meet conditions, and display event information after meeting conditions. Note: When the configuration is opened, events that meet the conditions are displayed, and events that do not meet the conditions disappear.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

■ Historical Event

Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, and title content.
Historical Event	Select event triggered data points, meet conditions, and display event information after meeting conditions. Note: When the configuration is opened, the event that meets the conditions will be displayed. If the conditions are not met, the event will not disappear. When the event is met for the second time, it will be recorded again. Close the browser
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

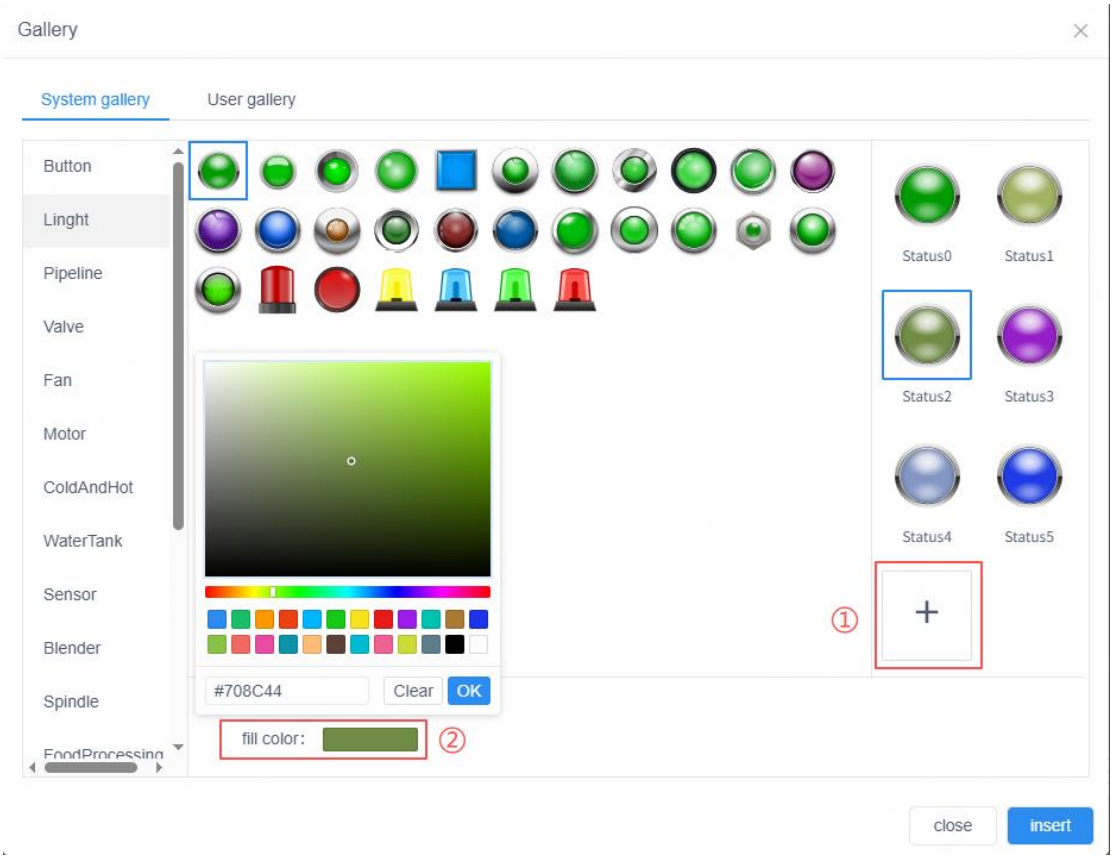
■ Function keys/functional domains

Name	Function declaration
Basic Style	You can set the position, size, angle, transparency, display state, control style, and label text. Note: The functional domain will not be displayed on the front-end and will be operated based on the set triggering conditions.
Function	You can set/reset/retrieve the reverse coil, set data, jump to the screen, and turn on/off pop ups.
Display Settings	This control will be displayed in the configuration interface only when the specified conditions are met.

7.2.2.4 Gallery

The gallery consists of the system gallery and the user gallery. If a user wishes to add their own gallery, they can click on the menu bar Click the icon, then select the User Gallery to add your own images. (Batch addition is not currently supported)

■ System Gallery

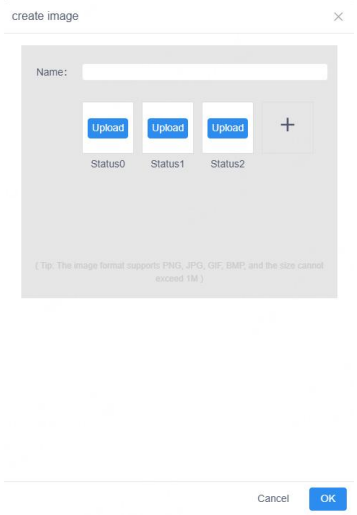


The system library provides a selection of SVG styles. Click the indicator light in the style bar on the right ① to add a new indicator light state; select the desired indicator light state, then use ② to change the display color of that state. Each indicator light style on the canvas can be configured independently.

■ User Gallery

The User Gallery provides a storage area for customers to upload their own media library content.





7.2.2.5 Video Surveillance Integration Procedure

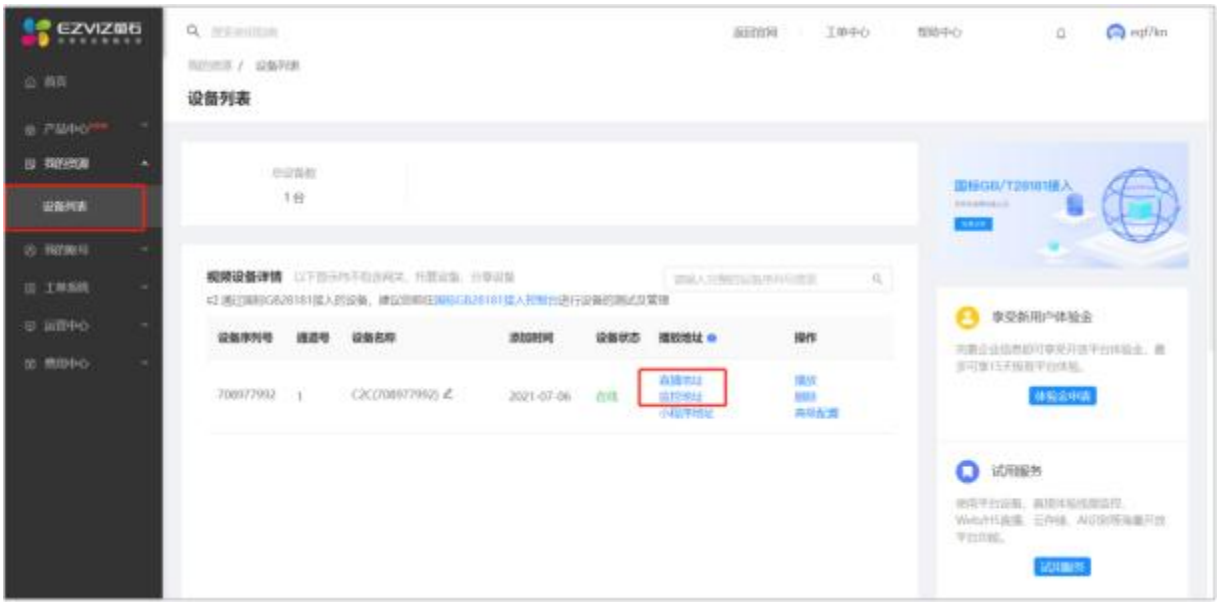
1、First, visit the official Fluorite Cloud website and enter your login credentials. Click "Open Platform."



2、Then click "Console" to enter the Fluorite Open Platform.



3、Then check the "Device List."

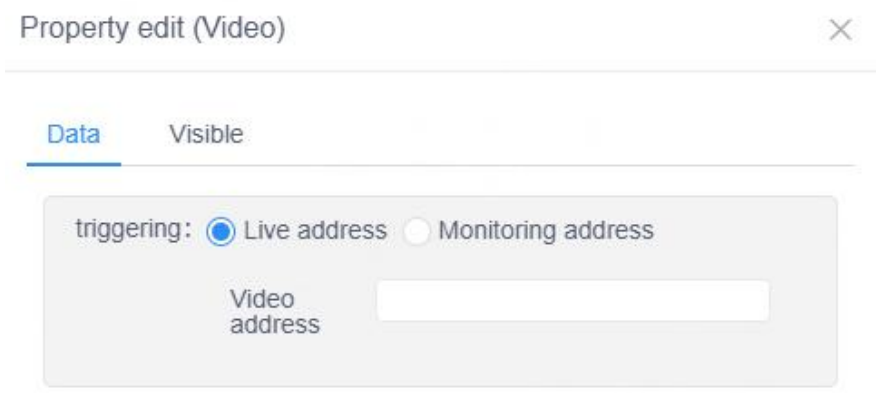


4、Click "Live stream address/monitoring address." There are two playback interfaces; choose whichever one provides smoother performance.

① "Live stream address"

Copy the HLS (URL) interface (with the.m3u8 extension) to the video address bar of the Cloud Intelligence Manufacturing "Video" control for use.





② "Monitoring address"

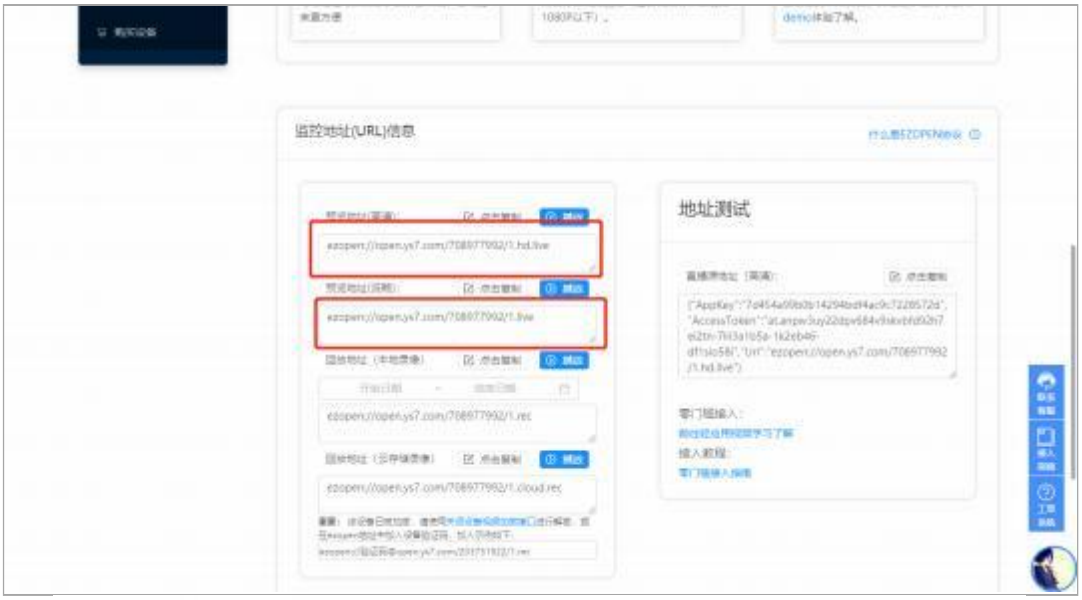
Step 1: Go to My Account>> App Information>> copy the AppKey into the "AppKey" field of the "Video" control;

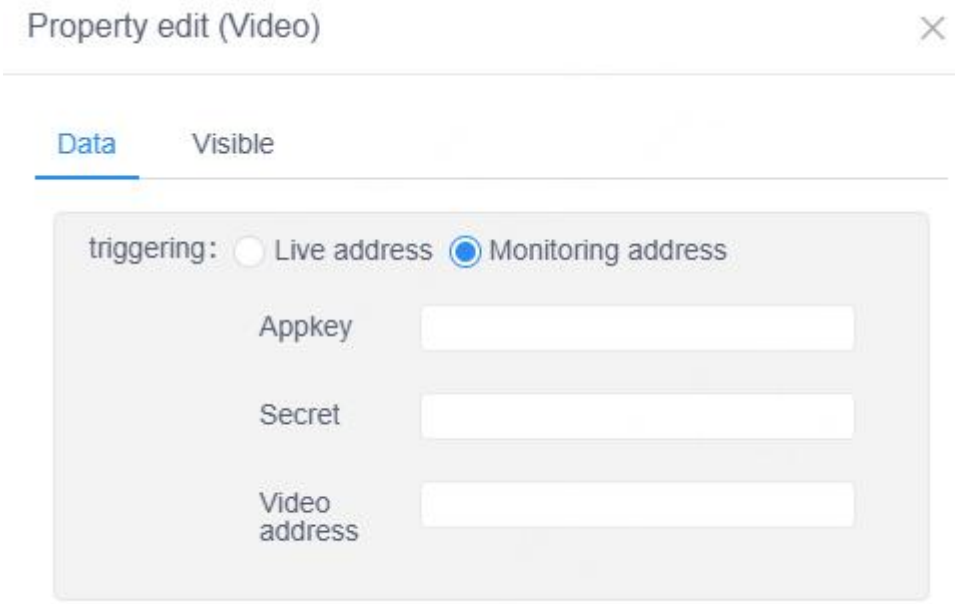


Step 2: In My Account>> App Information>> copy the Secret into the "Secret" field of the "Video" control;



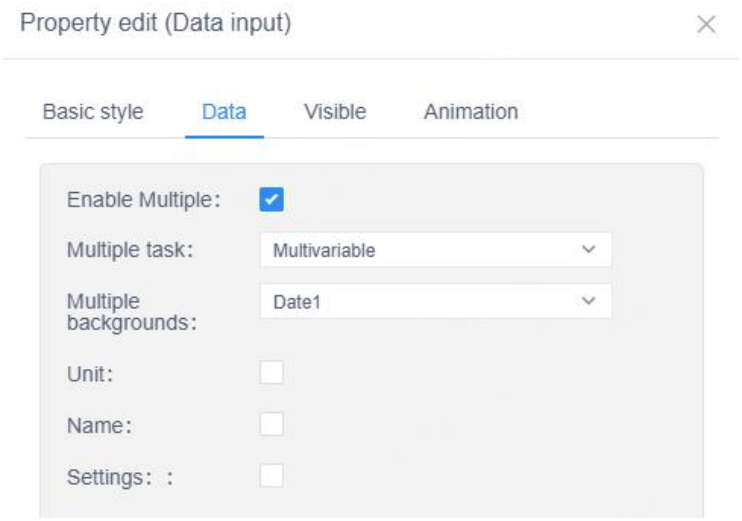
Step 3: Device List>> Monitoring Address>> Copy the source address of the internal live stream into the "Video" control.





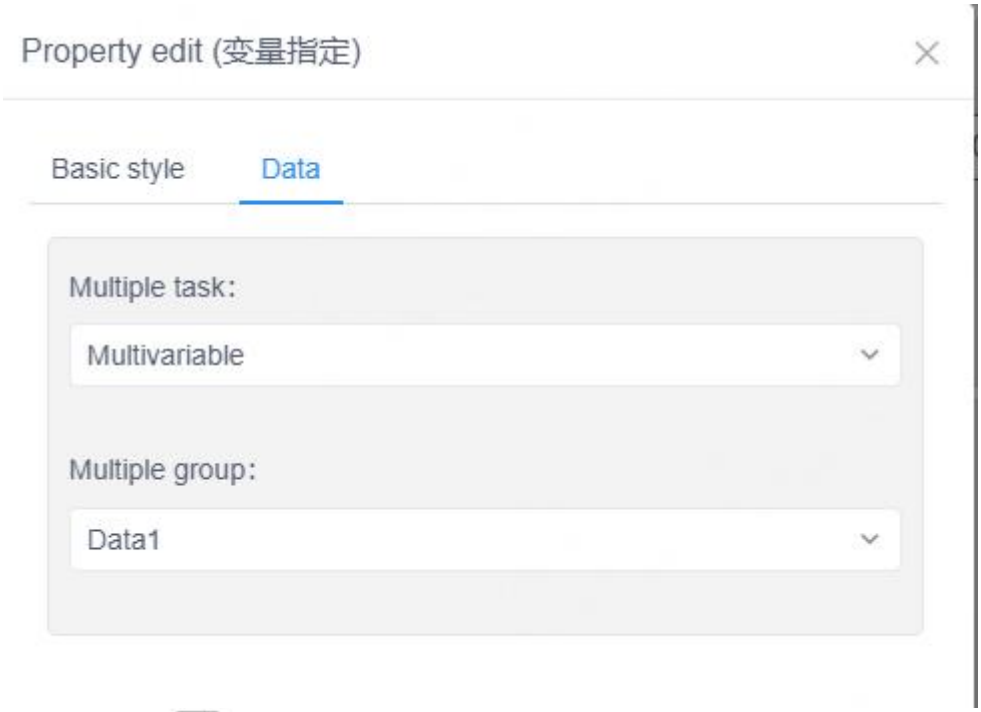
7.2.2.6 Multi-Variable Controls

The control now includes the "Enable Multiple Variable Backgrounds" feature. Once enabled, users can select configured multiple variable background tasks and bind them to background variables (columns), and then use the multiple-variable control to select variable groups (rows).





Variable specified control : button control, configured with multiple variable background tasks and variable groups (rows), can bind controls with the same variable background task in the current configuration screen, and display the variable groups bound to the variable specified control.





Variable selection control : a drop-down list control for configuring multiple variable background tasks. When this control is clicked, all variable group (row) names under the configured background task are displayed in a drop-down list; after selecting a variable group (row) name, the control bound to the same variable background task within the current configuration interface displays the variable group to which that control is bound.

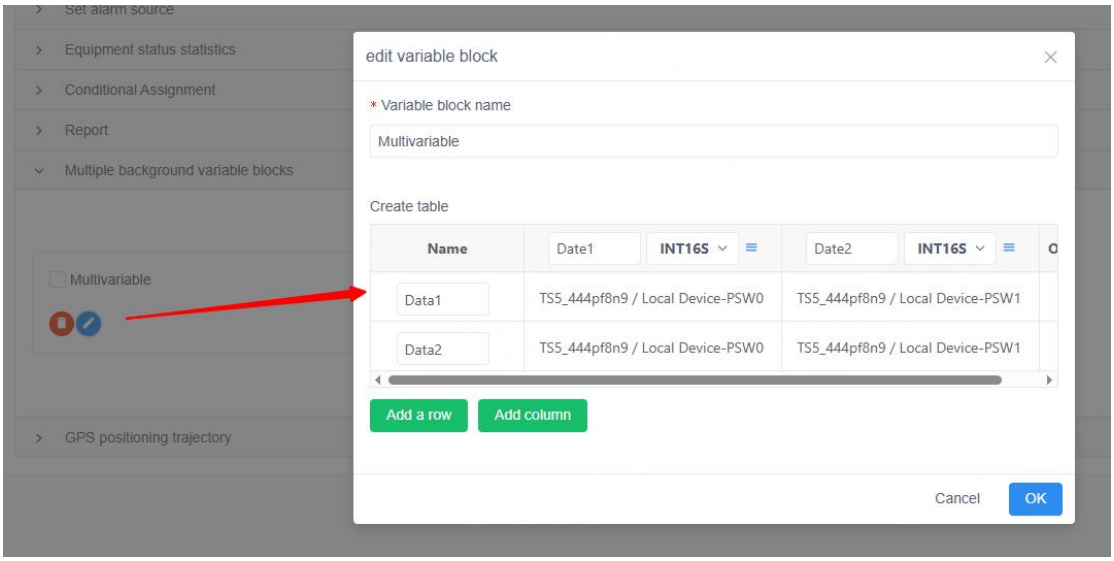


Variable index name control  :Text display control: configure a multi-variable background task. It is used to display, within the current page, the name of the variable group (row) selected by the multi-variable background task associated with this control.

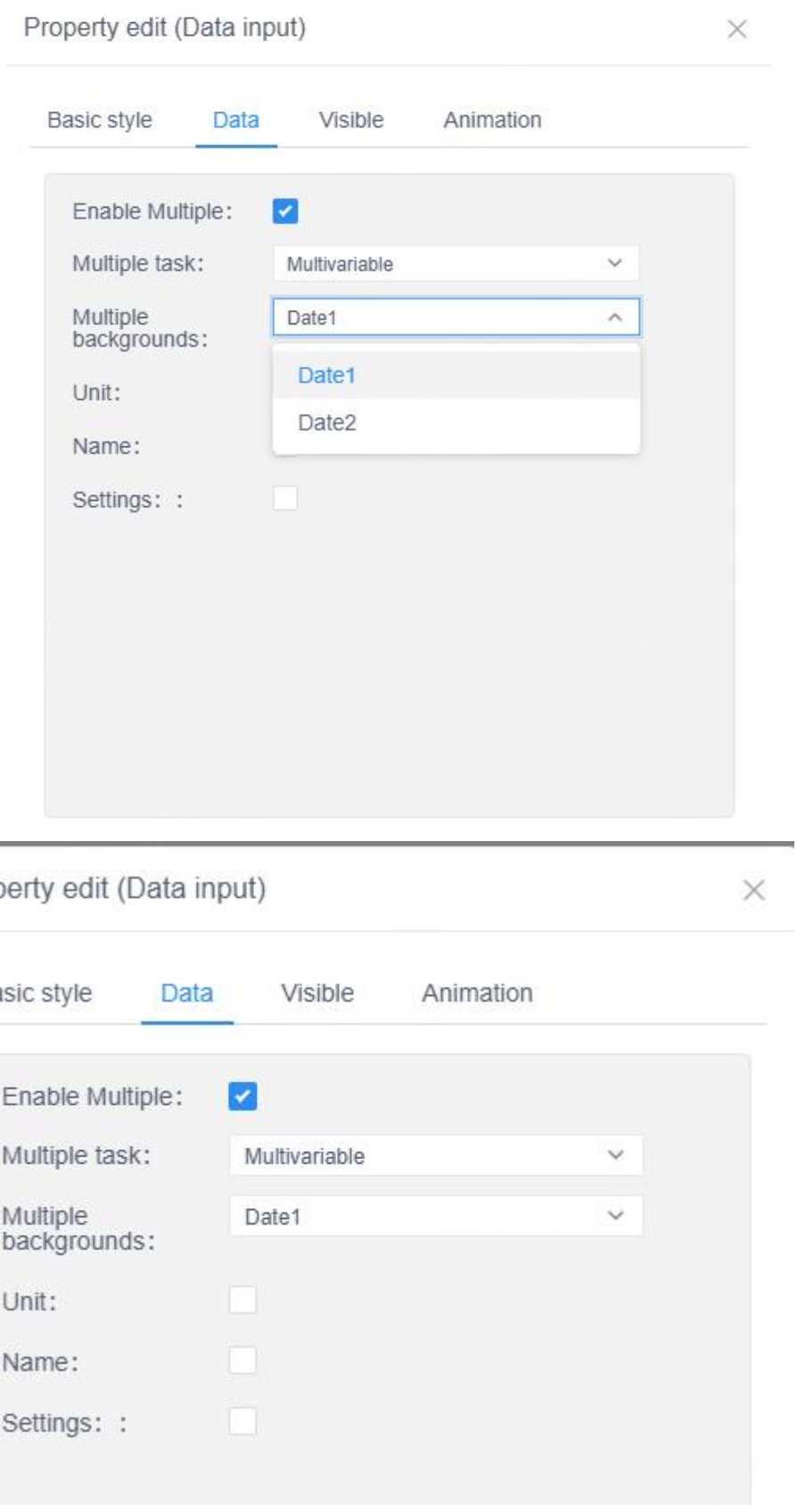


■ Example: A data input/output device with different addresses

1、In "Project Configuration" → "Multiple Background Variable Blocks" → "Create New Variable Block," configure a 2×2 layout: the addresses in the first row are D0 and D10, while those in the second row are D1 and D11:



2、 "Project Configuration" → "Enter Configuration" → "Basic Controls"; drag two "Data Input" elements onto the configuration page using the mouse. The data source settings are shown in the figure:



3、Add Two "Variable Specification" Entries to the Configuration Page; the Data Source Settings Are Shown in the Figure:



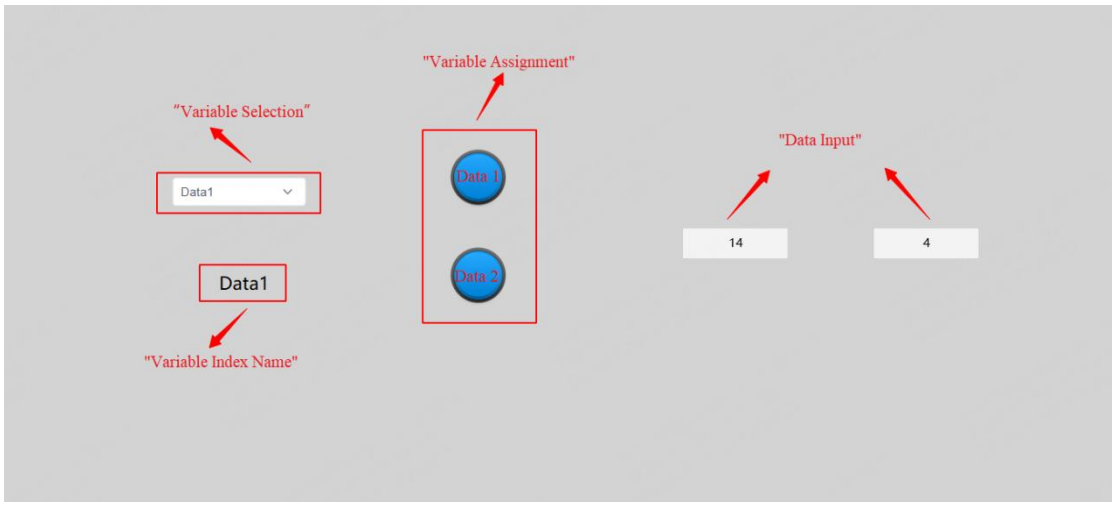
4、Add "Variable Selection" and "Variable Index Name" to the configuration page; the data source settings are shown in the figure:

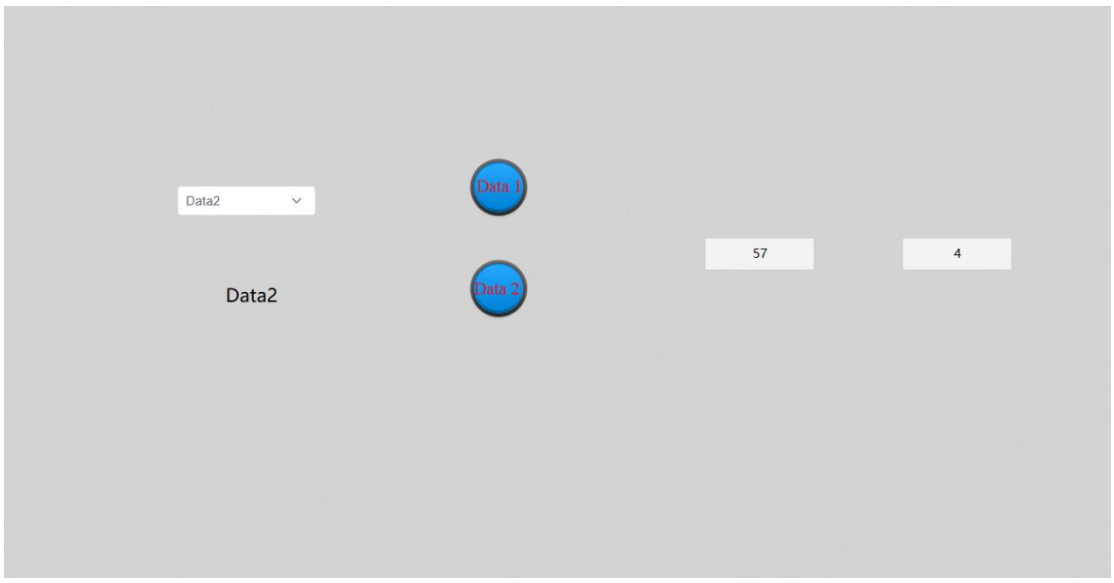




5、 "Project" → "Enter Configuration": when the "Variable Selection" control is set to "Row 1" or when the "Variable Specification" control marked "Row 1" is clicked, the data input fields display the values of the first-

row addresses D0 and D 10 configured in the "Multiple Background Variable Block," respectively, and the corresponding address data can be modified; the "Variable Index Name" control displays "Row 1." When the "Variable Selection" control is set to "Row 2" or when the "Variable Specification" control marked "Row 2" is clicked, the data input fields display the values of the second- row addresses D1 and D11, respectively, and the corresponding address data can be modified; the "Variable Index Name" control displays "Row 2." As shown in the figure:

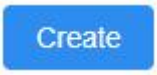




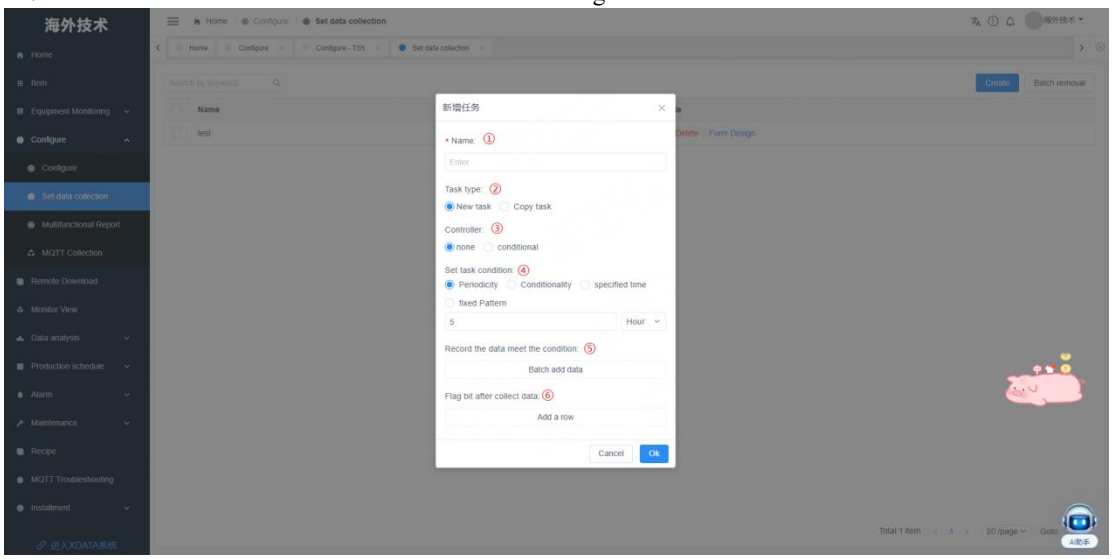
7.3 Data Acquisition Configuration

Once the historical data has been edited, the configured data points are stored in the cloud-based MySQL database according to the configured logic and can be viewed in 10.1 Historical Data. The data table supports exporting to Excel files.

Configuration steps:

1、Click "Add New" 

Create a data storage task.

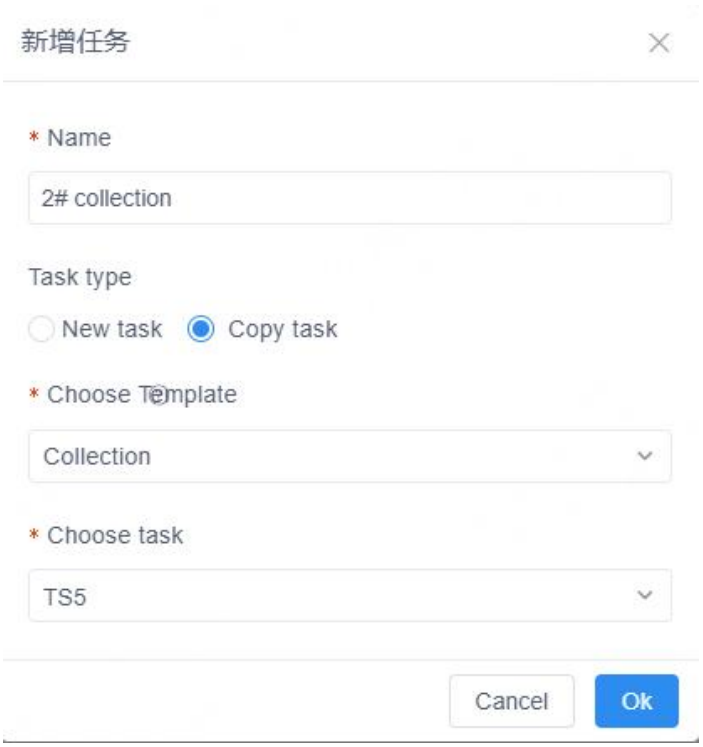


2、Configure ①②③④⑤⑥content to complete the task creation.

① Name: The name of the editing task.

② Add new task categories.

- New task: Parameters are reset to their default values.
- Task duplication: Quickly add the same data-collection task using the same device template.



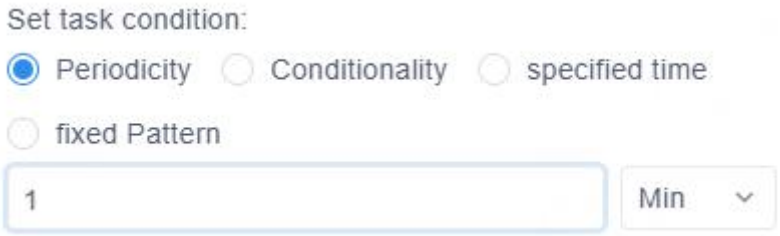
Task template: The content in the drop-down selection refers to all points configured in the historical data collection task that belong to the same project. If multiple projects are configured in a single historical data collection task, they will not be displayed here.

Project Selection: Select a project that has been added to the current account, then click OK; the location in the original task template will be automatically replaced with the location in the newly selected project. If no match is found, the field will be left blank or will not be displayed.

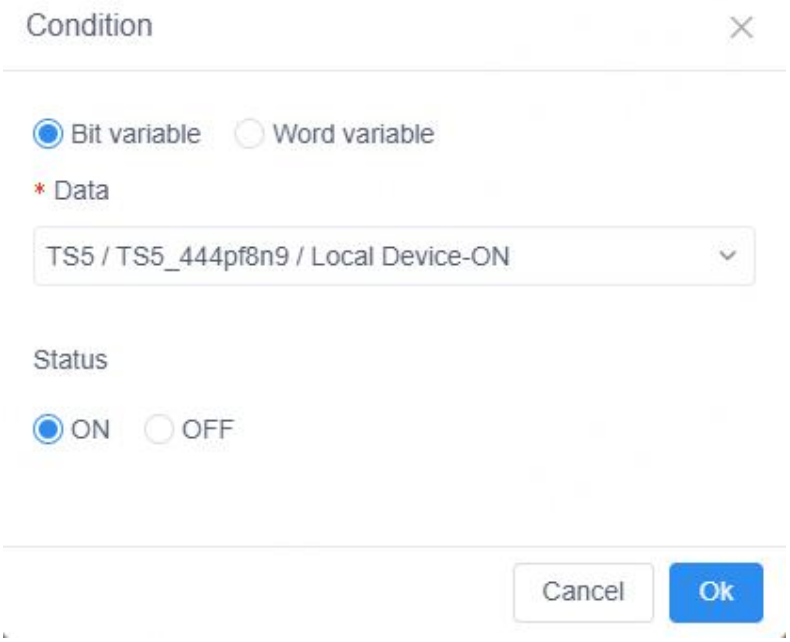
③ Data Acquisition Control: Set the acquisition flag bit.

④ Set task conditions: define the conditions for data point acquisition.

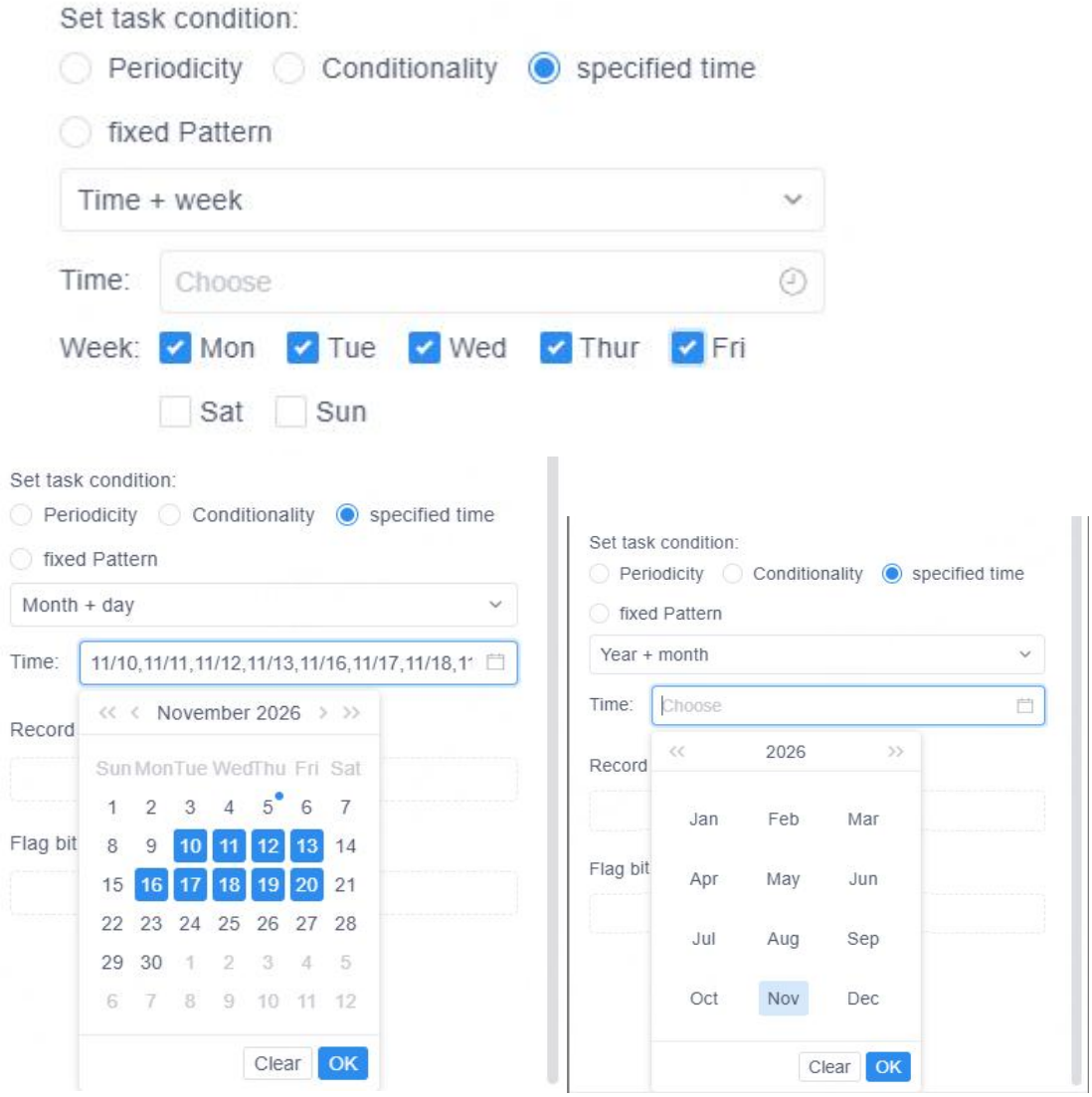
- Periodicity: Data points can be collected according to a preset cycle; the minimum collection interval can be set to 1 minute.



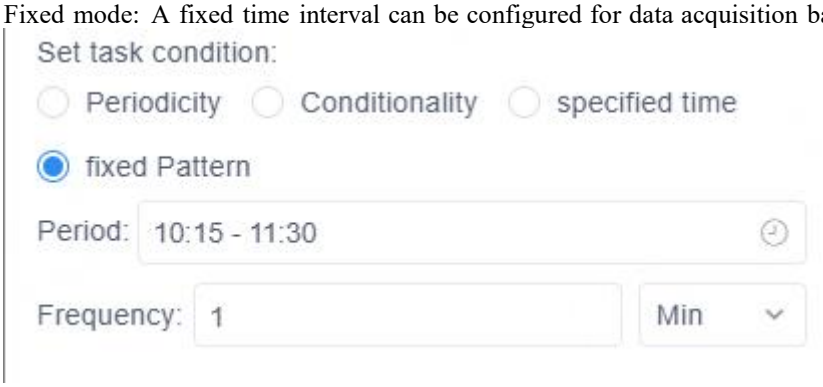
- Conditional: Data points can be collected when the variable value satisfies the specified condition.



- Scheduled time: Data points can be collected based on a preset time (alarm mechanism).



- Fixed mode: A fixed time interval can be configured for data acquisition based on the sampling frequency.



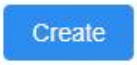
⑤ Record data points that meet the specified conditions: Any data points in a project whose equipment configurations have been set can be selected in bulk; when the conditions configured in ③④are satisfied, the data points will be saved.

⑥ Flag after data acquisition: Once data collection and storage are complete, trigger the preset coil.

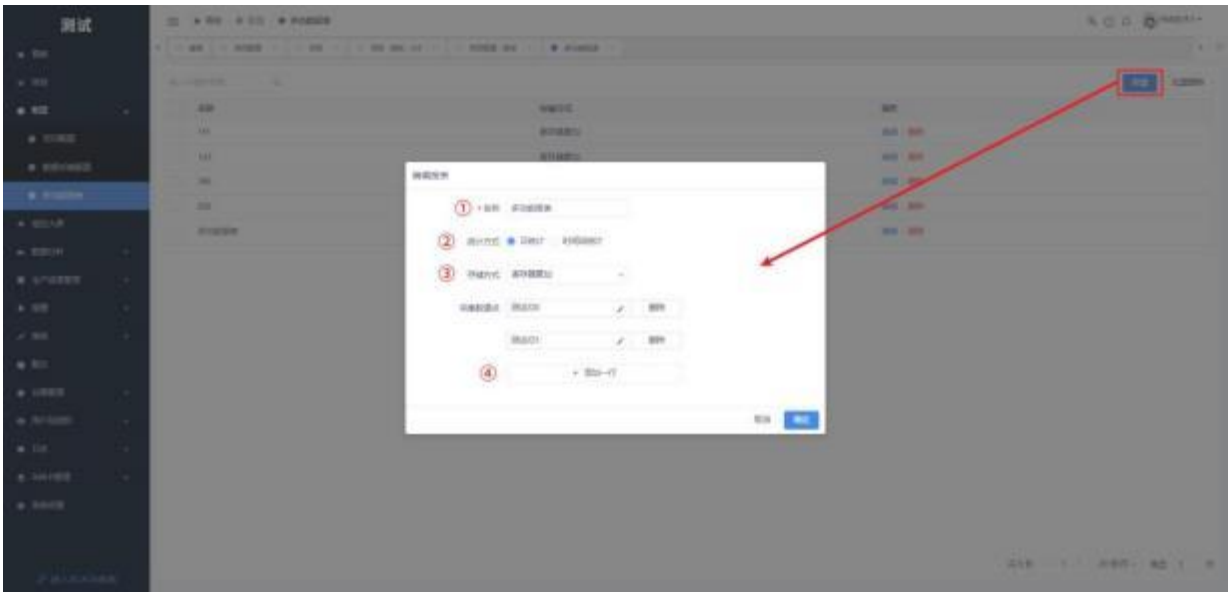
7.4 Multi-Functional Report Configuration

The multi-functional report comparison feature allows internal reports to support cross-project data point selection, facilitating data comparison, supporting additional data collection methods, and enabling more data statistical analysis methods. This can be viewed in Data Analysis → Multi-functional Report Dashboard.

Configuration steps:

1、Click "Add New" 

Create a data save task for the report.

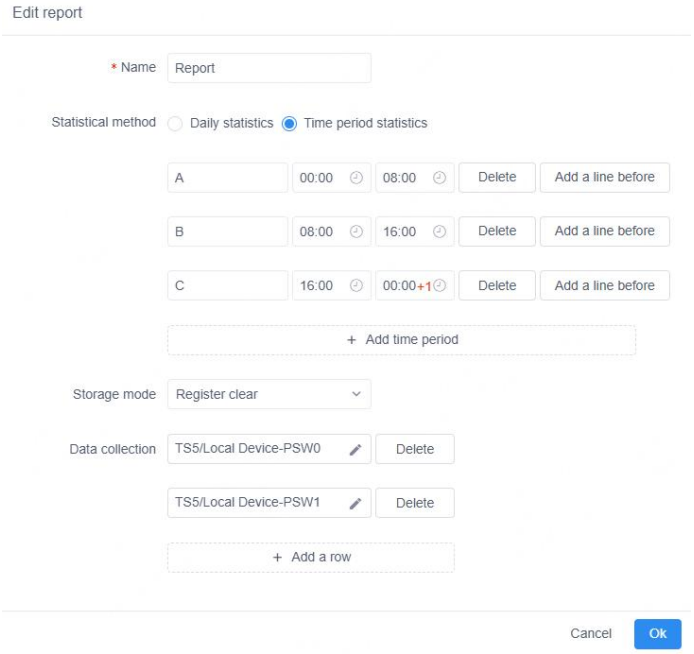


2、Configure ①②③④content to complete the task creation.

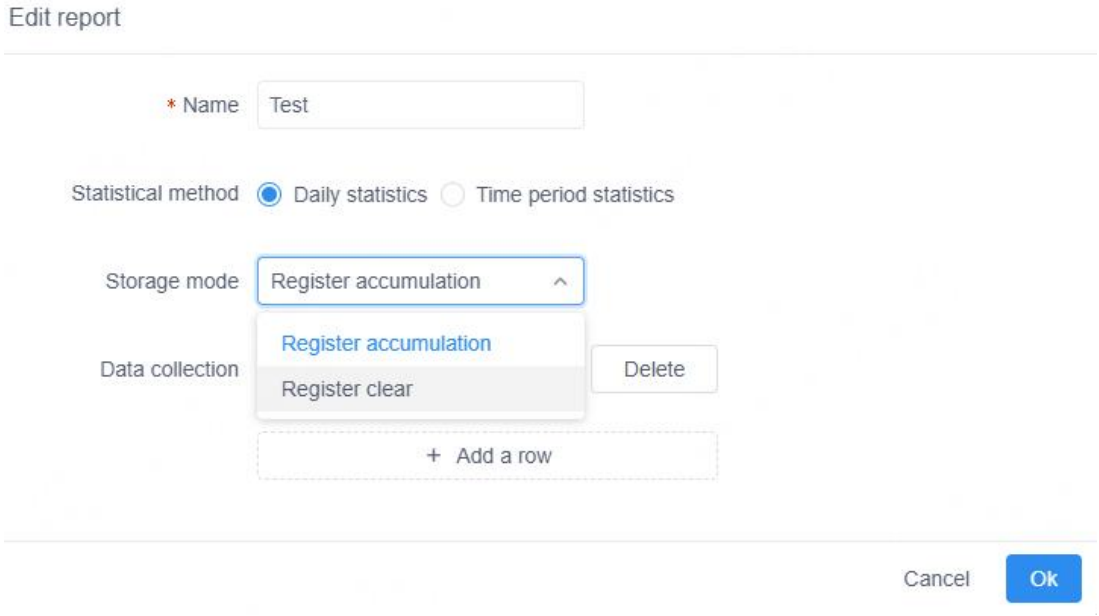
① Name: Edit Task Name

② Statistical method: Configure the report statistical method; currently, two options are supported. If you require a special statistical method, please contact the local XINJE sales representative for feedback.

- Daily Statistics: The final results of report collection are calculated on a daily basis; data is refreshed every 5 minutes, and the data for the current day is compiled at 24:00.
- Time interval statistics: The final results of report data collection are calculated based on a predefined time interval and refreshed every 5 minutes; the time span may not exceed 24 hours. The value of each data point is recorded, and this approach is commonly used for shift-based report statistics.



③ Storage method: Based on the calculation rules for the collected data points; if there are additional collection rules, please contact a XINJE sales representative for feedback.



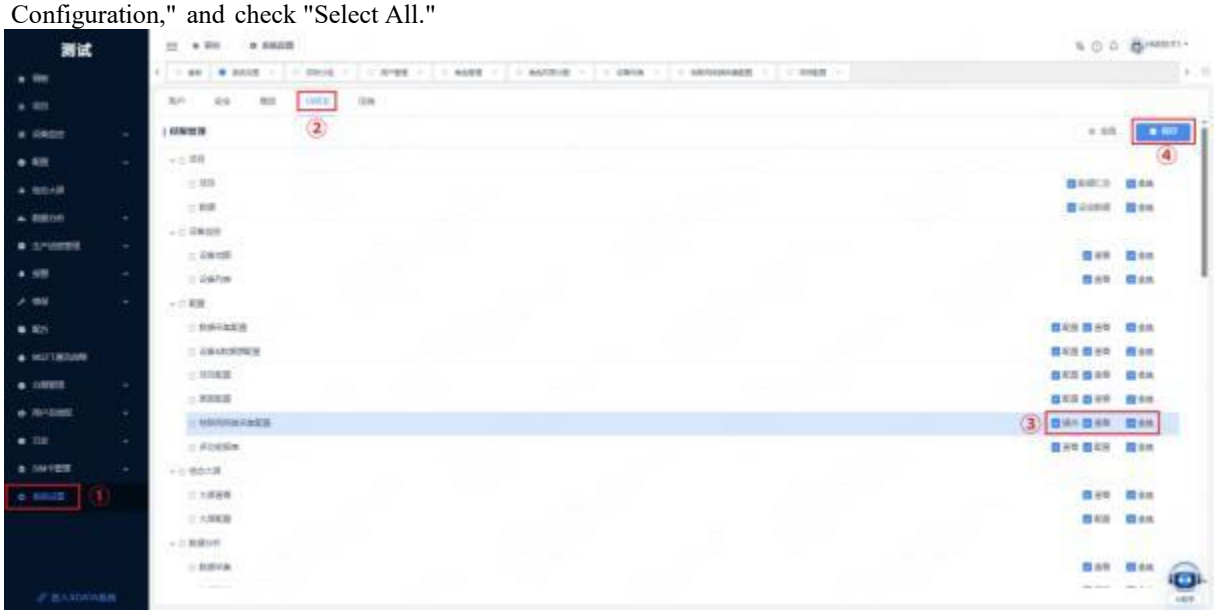
- Register clearing: This means that the statistical register value is reset to 0 after each final data acquisition; the system then generates a daily/monthly/yearly report by summing the values obtained from each acquisition.
- Register accumulation: the register value is not reset to zero after each final data acquisition; the system calculates the value for the current day (current time period) by subtracting the value acquired during the previous day (previous time period) from the value acquired during the current acquisition, ultimately generating a daily, monthly, and annual report.

7.5 IoT Terminal Data Acquisition and Configuration

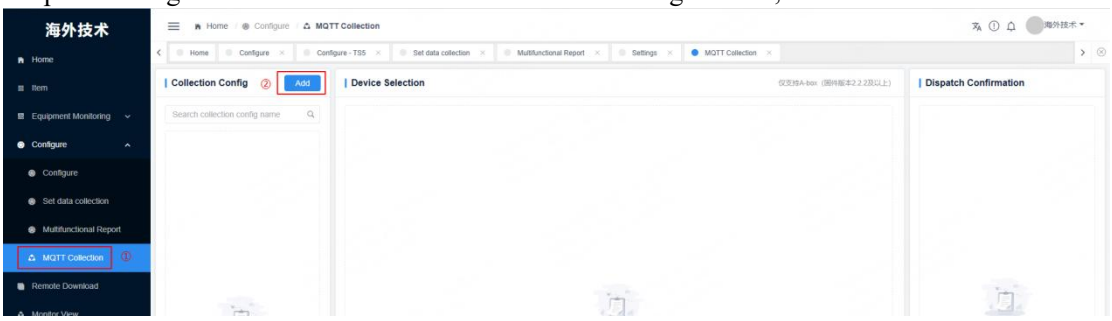
Map the address of the communication device to an internal ABOX address, enabling real-time monitoring of PLC data by the cloud platform. Note: Only A-box (firmware version 2.2.2 or later) is supported.

Configuration steps:

1、Open "System Settings" → "UWEB" → "IoT Terminal Data Acquisition Configuration," and check "Select All."



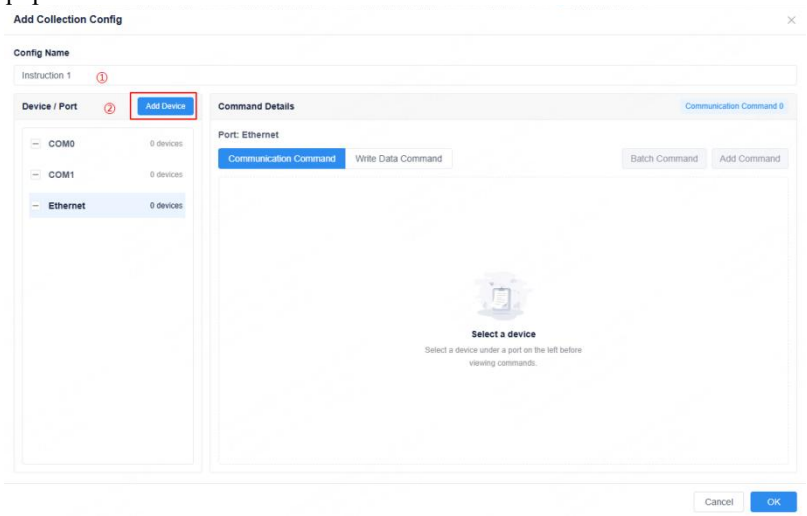
2、 Open "Configuration" → "IoT Terminal Collection Configuration", click "Add".



3、Configure ①②③④⑤⑥⑦⑧content to complete the task creation.

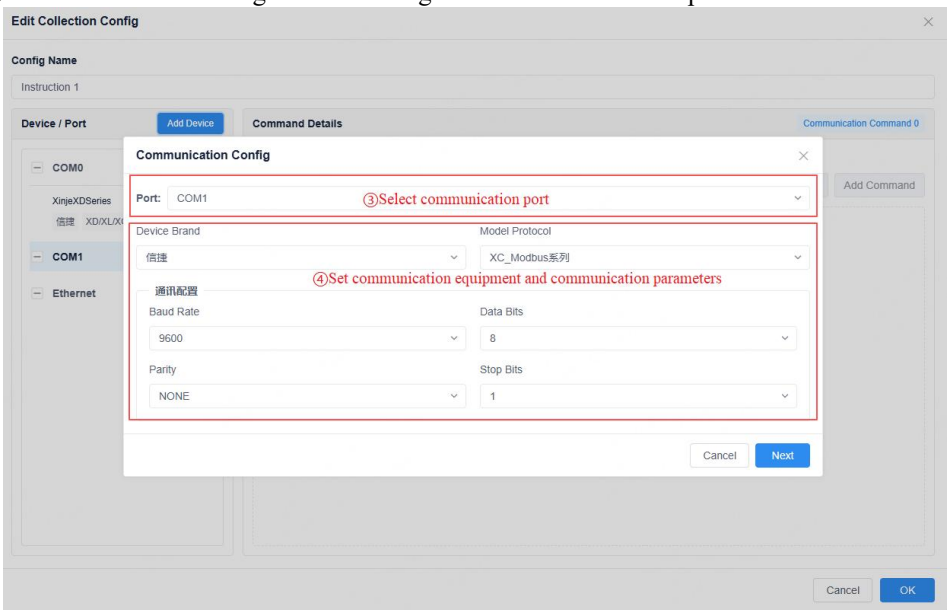
① Configuration name: Manually enter a custom name

② Add New Equipment: Click "Add New".



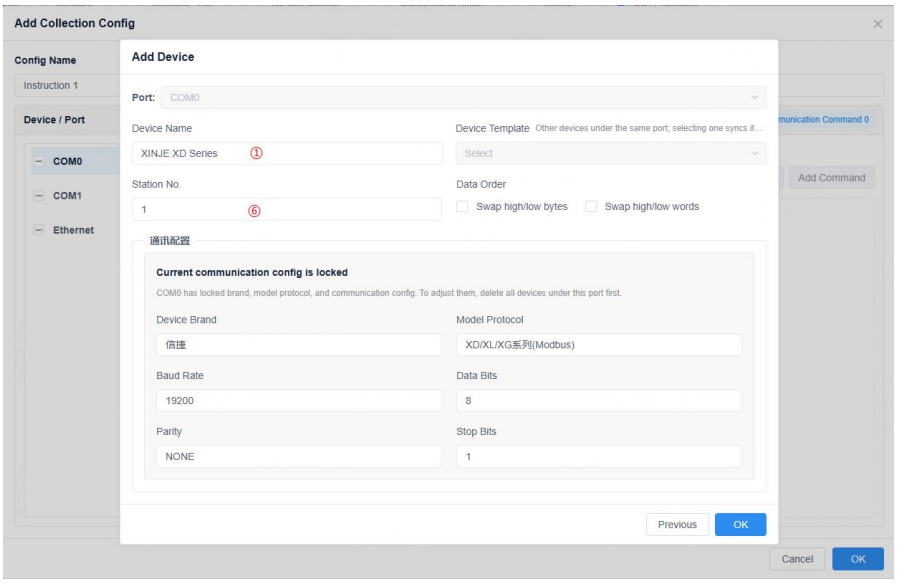
③ Communication port: Select the communication port for device connection

④ Communication configuration: Configure the communication parameters to match those of the device.



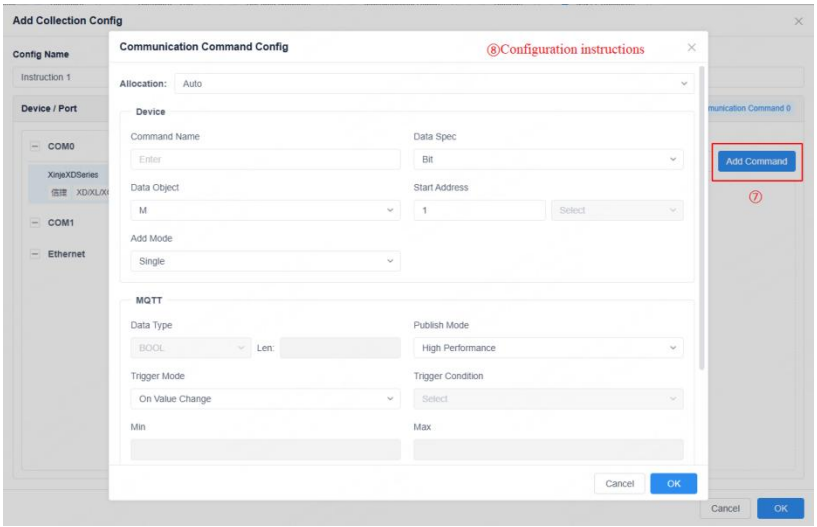
⑤ Equipment Name: Manually enter equipment name

⑥ Site ID: Matches the equipment ID



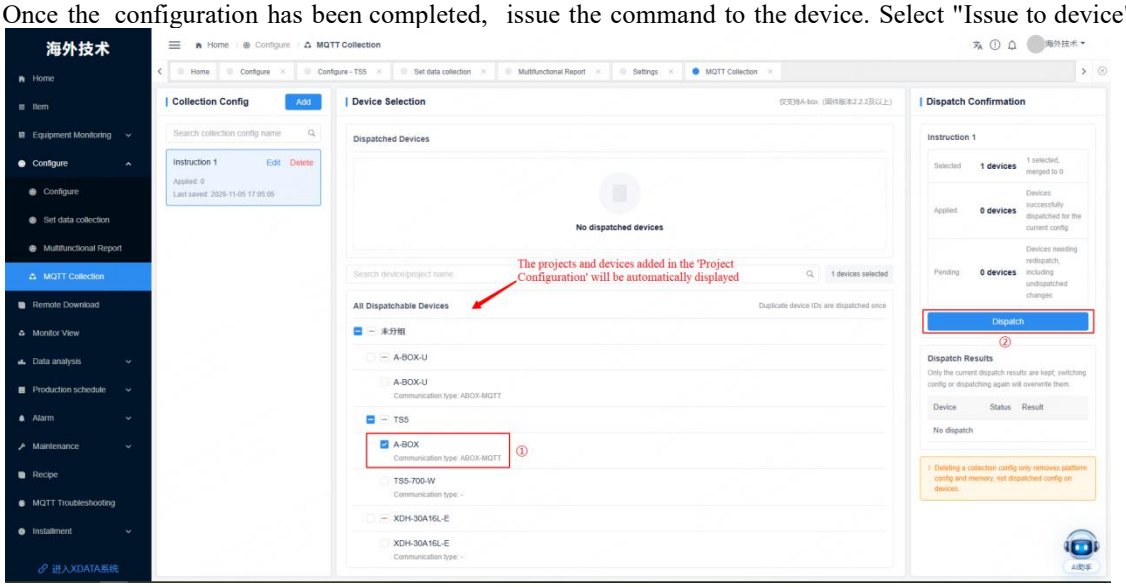
⑦ Add instruction

⑧ Configuration command: Parameters related to the configuration command

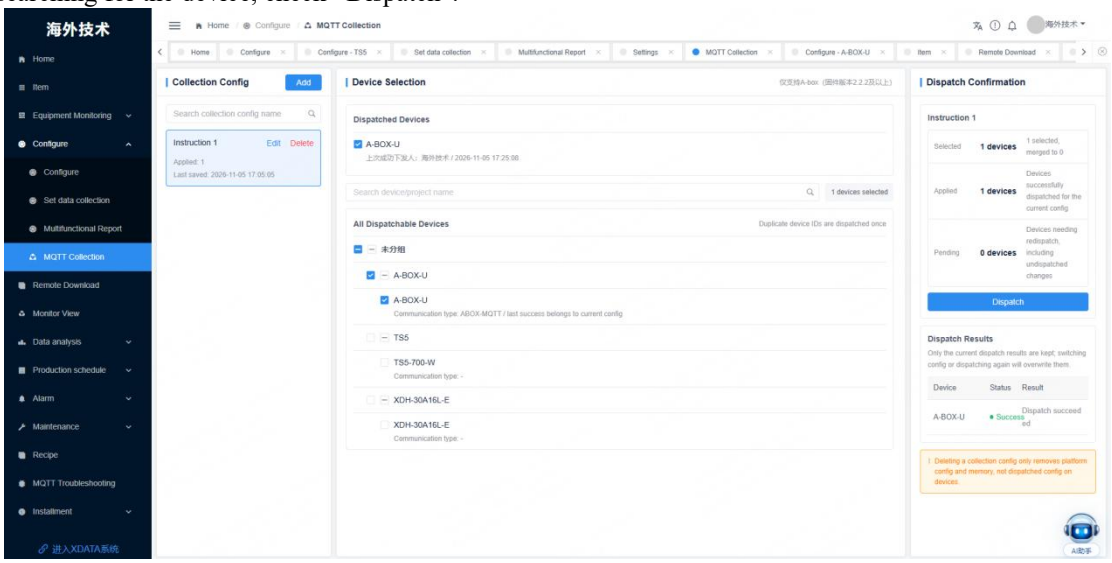


Name	Function Declaration
Instruction Name	Name the current instruction.
Data Specifications	Choose Bit (coil) or Word (register).
Data Object	The internal address of the PLC.
Start Address	Specify the starting address of the PLC.
Adding Mode	Single addition: one instruction maps to one address; Batch addition: A single instruction maps multiple addresses (with the same data type).
Data Type	The data types for PLC objects are divided into INT16U, INT16S, INT32U, INT 32S, INT64S, Float, Double, and Char []
Release Mode	Response pattern: The platform requests data once, and ABOX responds once; High performance: ABOX autonomously determines release conditions; once the conditions are met, data is released.
Triggering Method	Triggering modes include: triggering upon value change, triggering upon condition fulfillment, and triggering at a fixed time interval (high performance).
Trigger Conditions	Trigger conditions are categorized as: less than, within range, greater than, not equal to, and outside the range.
Minimum/Maximum	When the trigger condition is "trigger upon condition fulfillment," only data within the range specified for the trigger condition is published.
Release Interval	When the trigger condition is "fixed-time trigger," data can be published at scheduled intervals based on the configured publishing interval.
Message Cache	When the device is offline (not powered off), data can be stored in the gateway after message buffering is enabled. A maximum of 30,000 node records can be cached.

4、 Once the configuration has been completed, issue the command to the device. Select "Issue to device":



After searching for the device, check "Dispatch":



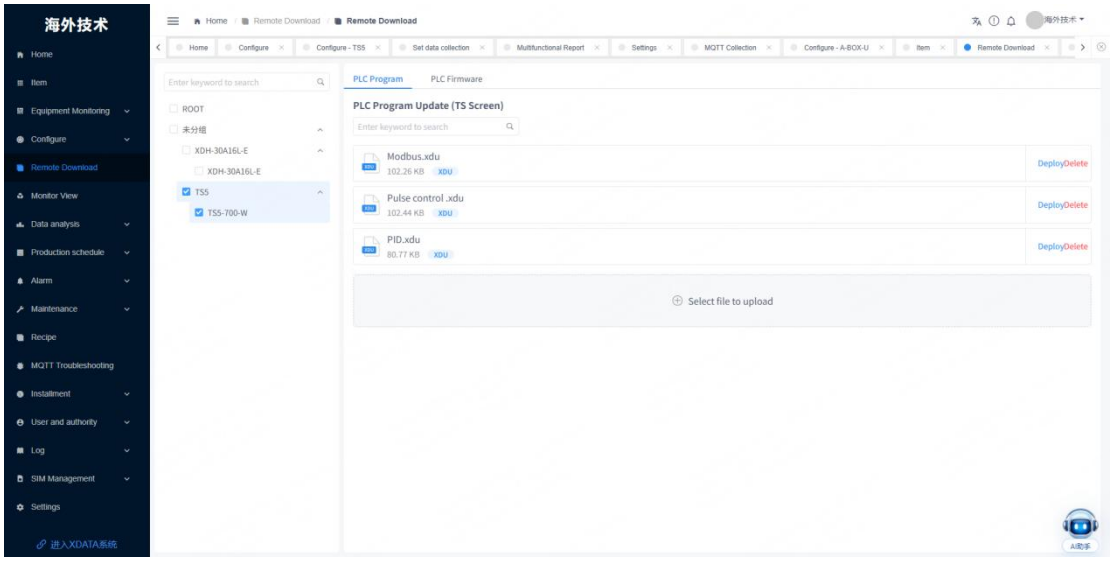
When a single device ID has multiple names, the system will automatically select all associated device names under that ID, enabling one-click issuance of unified commands.

8. Remote Download

Using the "Remote Download" feature of the Cloud Intelligent Manufacturing Platform, a PLC program or PLC firmware can be downloaded to a TS-series IoT display that is connected to the platform; the TS-series IoT display then forwards the data to the XINJE PLC with which it has established a connection.

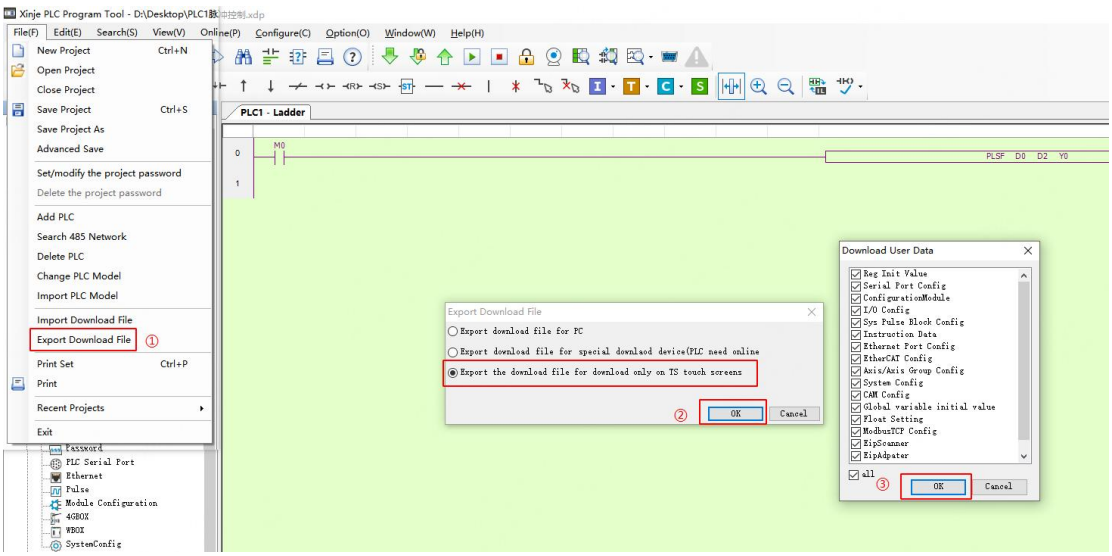
- TS IoT Display System version: 2.4.1 or later.
- PLC official website software version: 3.8.1_20260129 or later
- Remote downloads support only XINJE PLCs (excluding the XD1, XD2, and XL1 series); the maximum number of devices that can be downloaded at one time is 10.
- Before performing a remote download operation, ensure that the TS IoT display has a stable network connection; otherwise, the download may fail.

8.1 Remote Download of PLC Programs

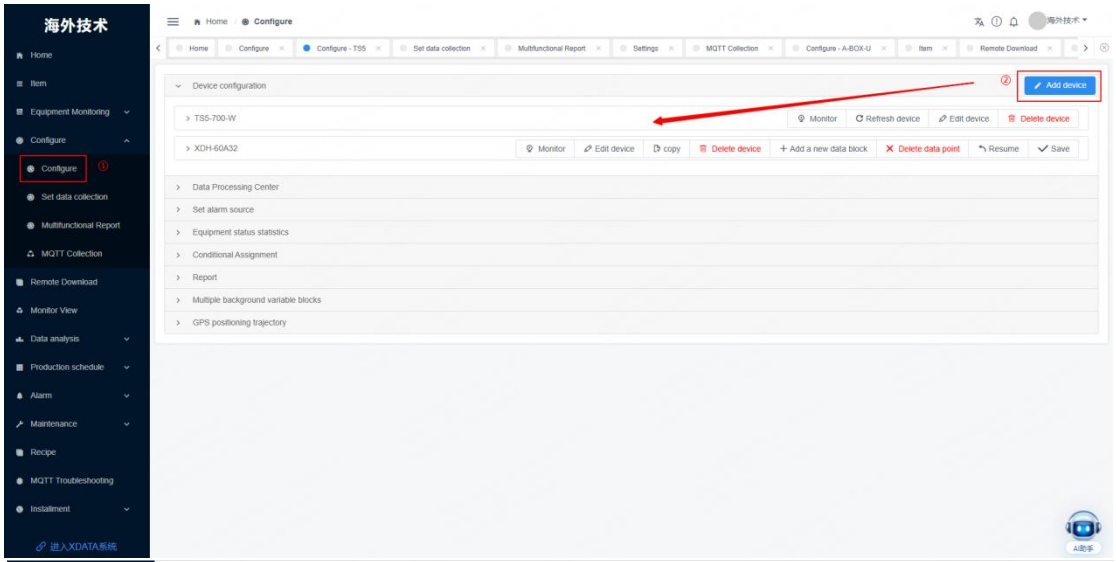


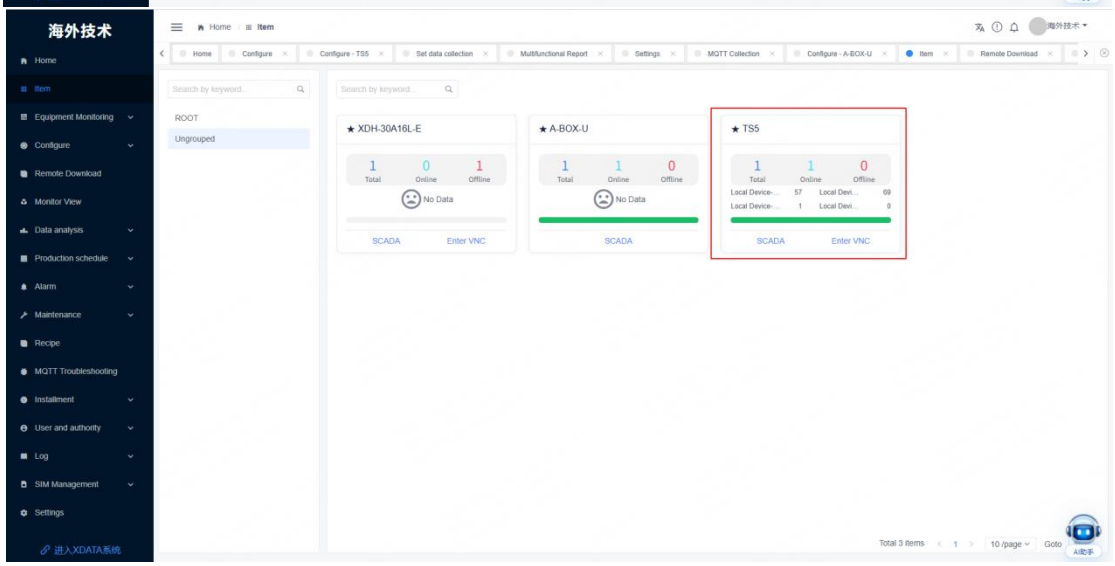
Operating Steps:

1、In the PLC software, sequentially click [File (F)] →[Export Download File] →[Export Download File for TS Touchscreen Download only], and export the PLC program file in.xdu format.



2、After successfully connecting the serial port or network port of the PLC to the TS IoT display, log in to the XINJE Cloud Platform, add the TS IoT display device project, and confirm that the TS display is in remote online status.





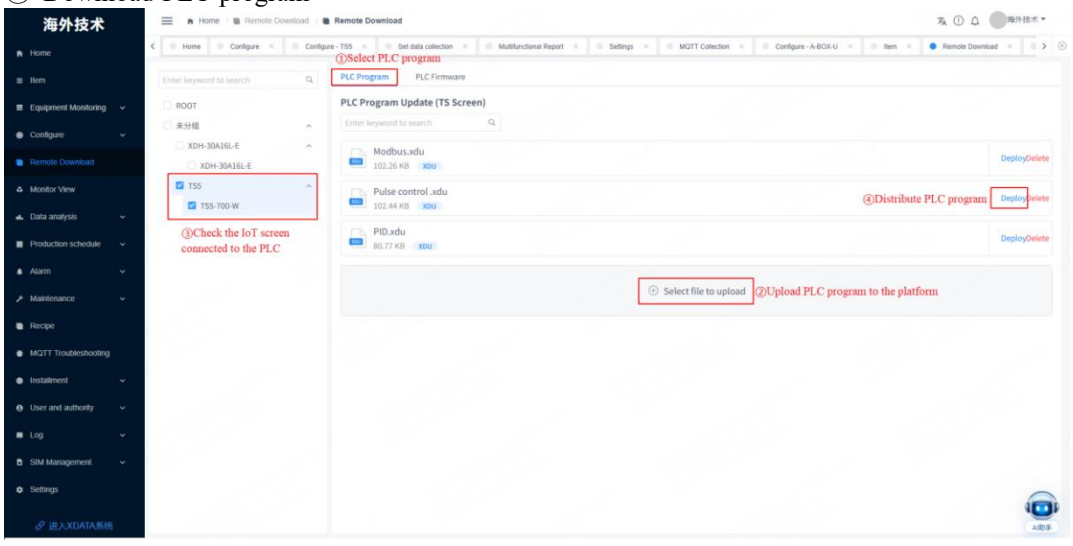
3、Go to the [Remote Download] Page:

① Select "PLC Program"

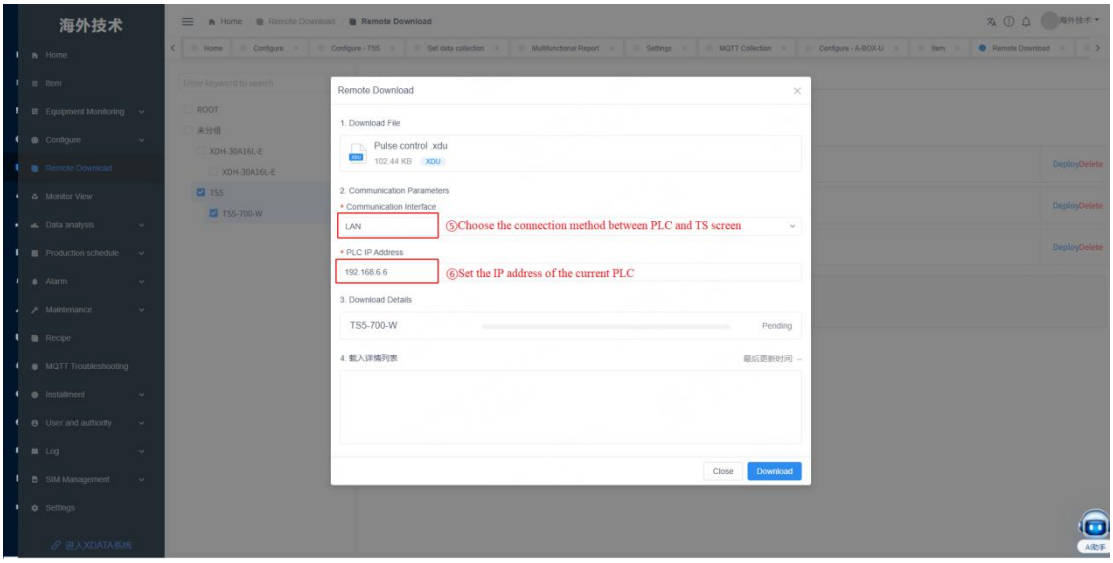
② Upload the program file exported from the PLC software to the platform.

③ Select the added TS IoT display devices

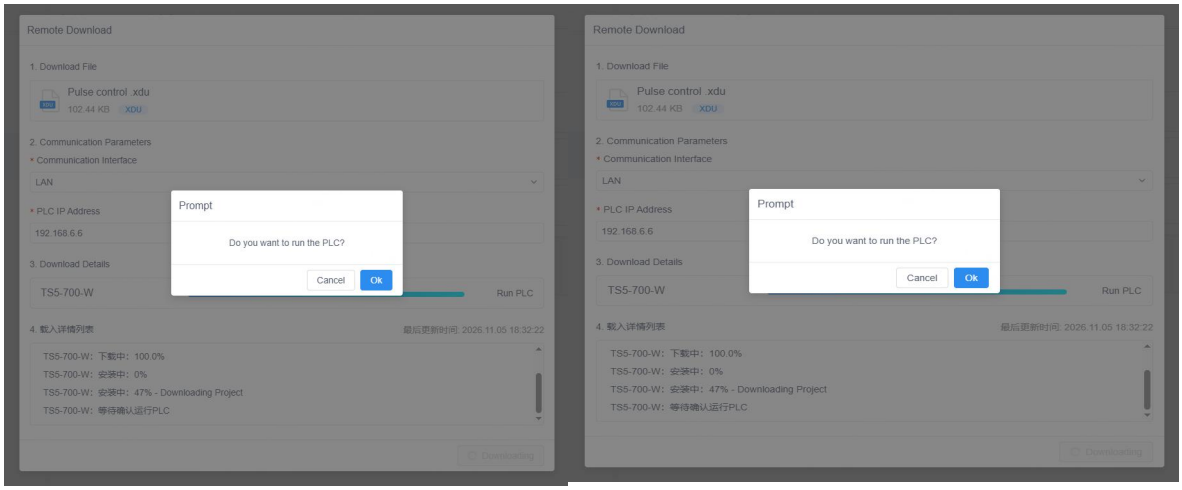
④ Download PLC program



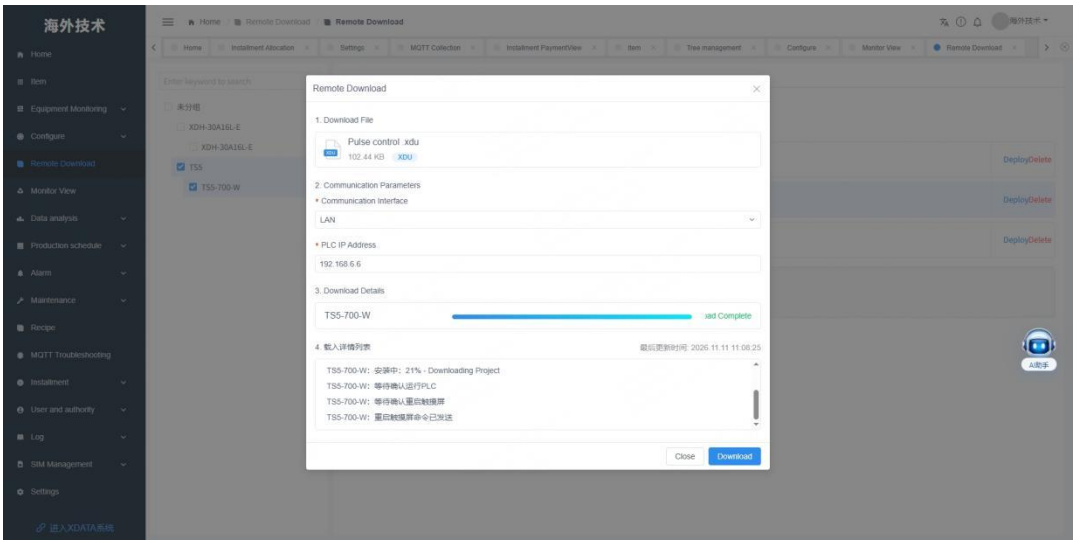
⑤ Select the connection method between the PLC and the TS IoT display (the communication interface must match the interface type actually used by the device).
⑥ Configure PLC communication parameters: when connecting via the network interface, enter the PLC's IP address; when connecting via the COM port, configure the PLC's COM port communication parameters.



4、When the download is nearly complete, the platform prompts you whether to run the PLC and whether to restart the touch screen (the restart prompt box appears for only 1 minute; it is recommended that you select "OK"; otherwise, you will need to manually restart the device).



5、Once the interface displays "Download Complete," the remote download operation has been completed.



8.2 Remote Download of PLC Firmware

Operating Steps:

1、The firmware package can be downloaded from the official website (www.xinje.com). First, confirm whether the firmware update for this model supports either a network interface or a serial port; the firmware update interval can be found in the official website's "Operating Instructions for Firmware System Updates for XD, XL, andXG Series PLCs ".

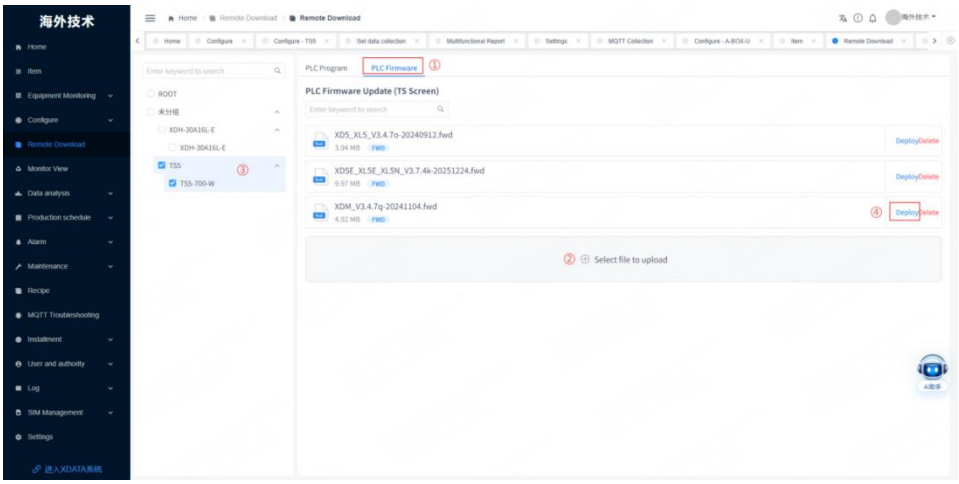
2、Go to the [Remote Download] page:

① Select "PLC Firmware"

② Upload the PLC firmware file to the platform

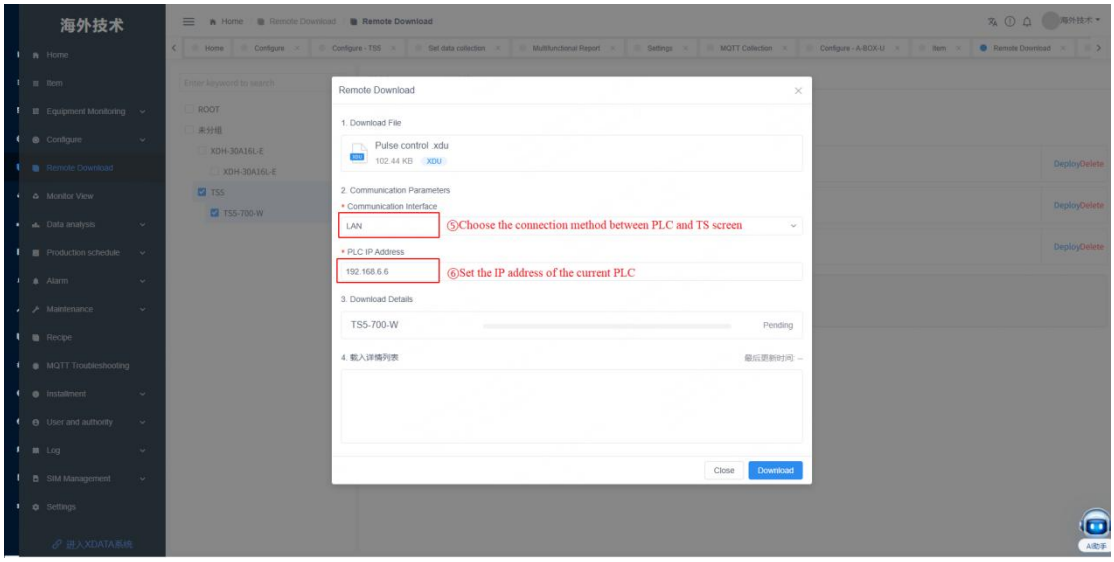
③ Select the added TS IoT display devices

④ Download PLC firmware

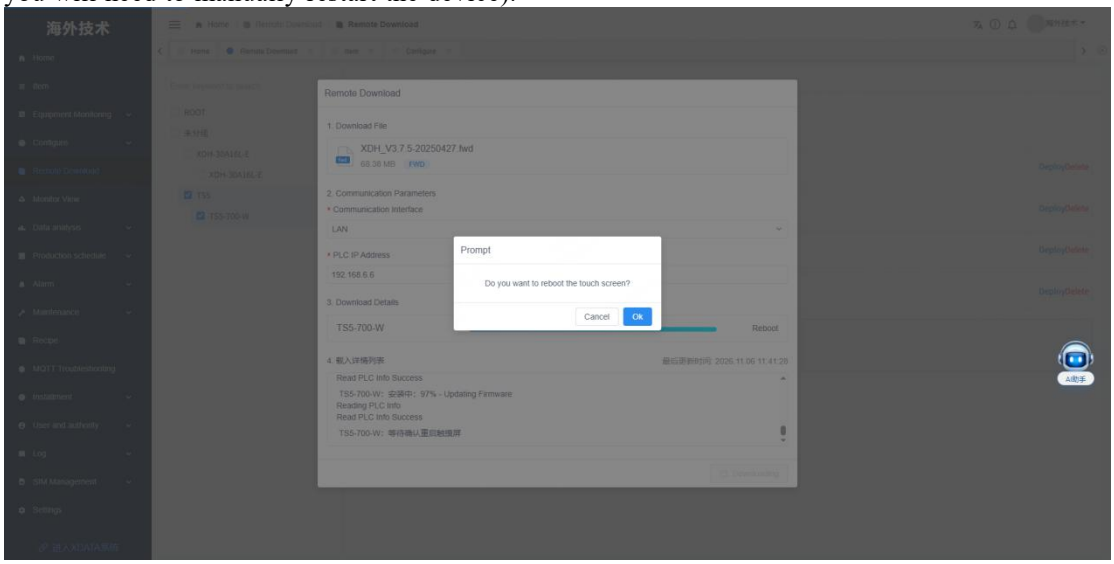


⑤ Select the connection method between the PLC and the TS IoT display (the communication interface must match the interface type actually used by the device).

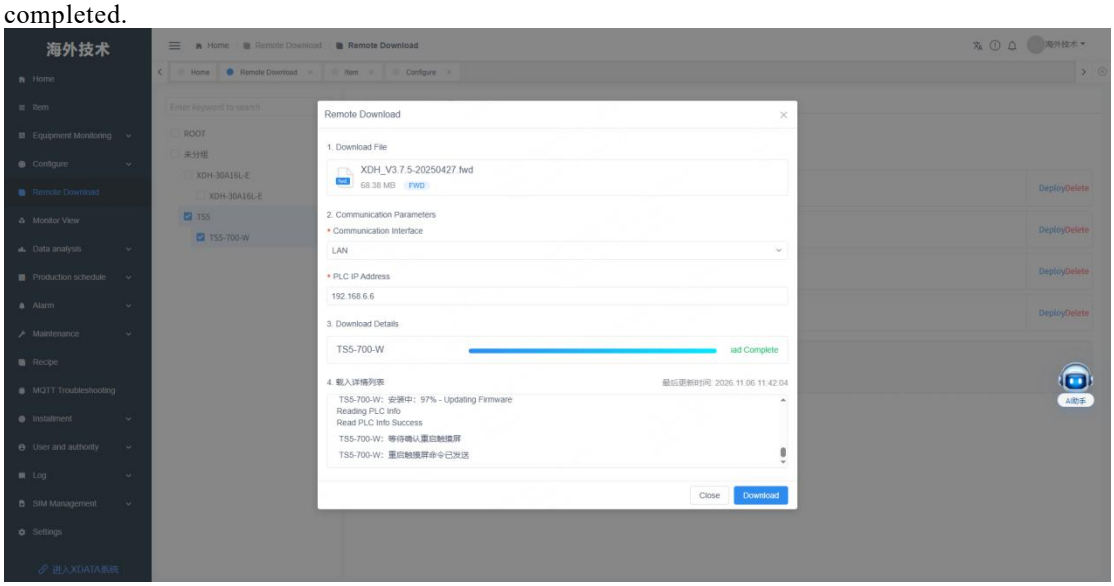
⑥ Configure PLC communication parameters: when connecting via the network interface, enter the PLC's IP address; when connecting via the COM port, configure the PLC's COM port communication parameters.



3、 When the download is nearly complete, the platform prompts you whether to restart the touchscreen (the restart prompt appears for only 1 minute; it is recommended that you select "OK"; otherwise, you will need to manually restart the device).

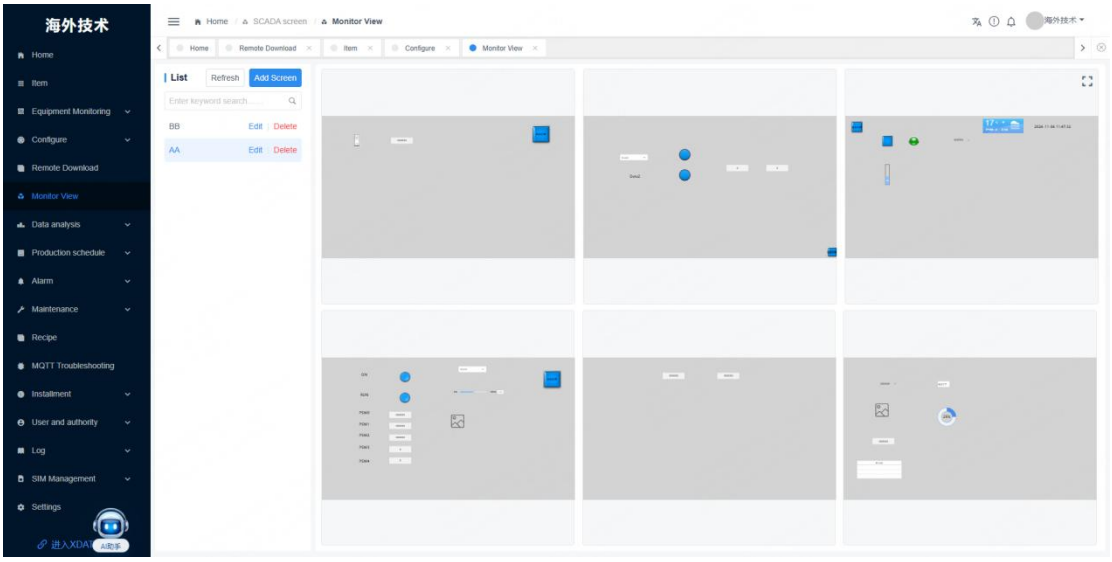


4、 Once the interface displays "Download Complete," the remote download operation has been completed.



9. Configuration Dashboard

The configuration screen can combine and arrange edited images into a display screen for display.

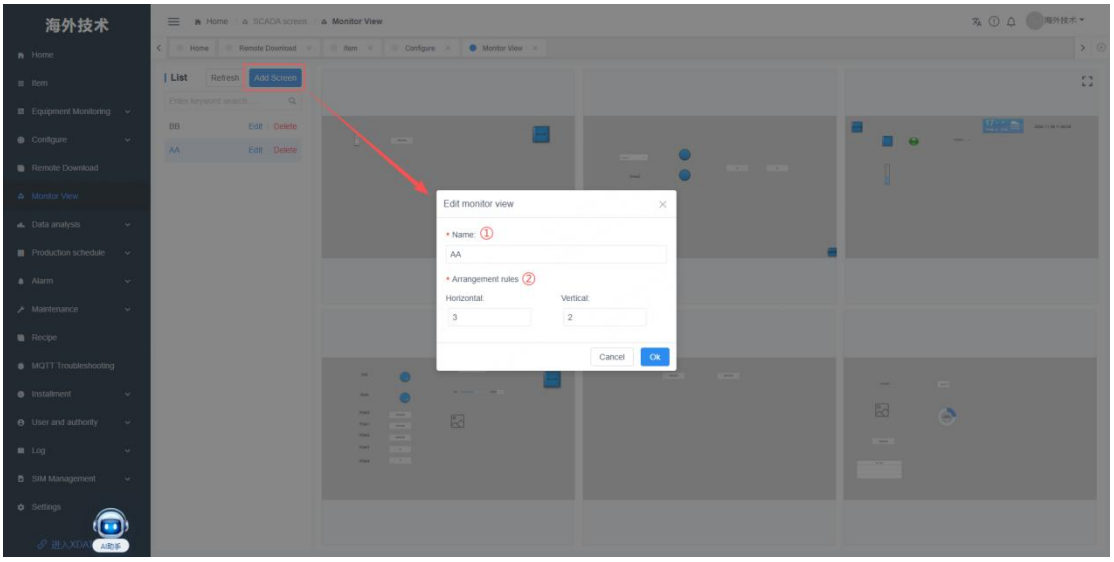


operating steps:

1、Click the "Add Large Screen" button on the large-screen configuration interface in the function bar

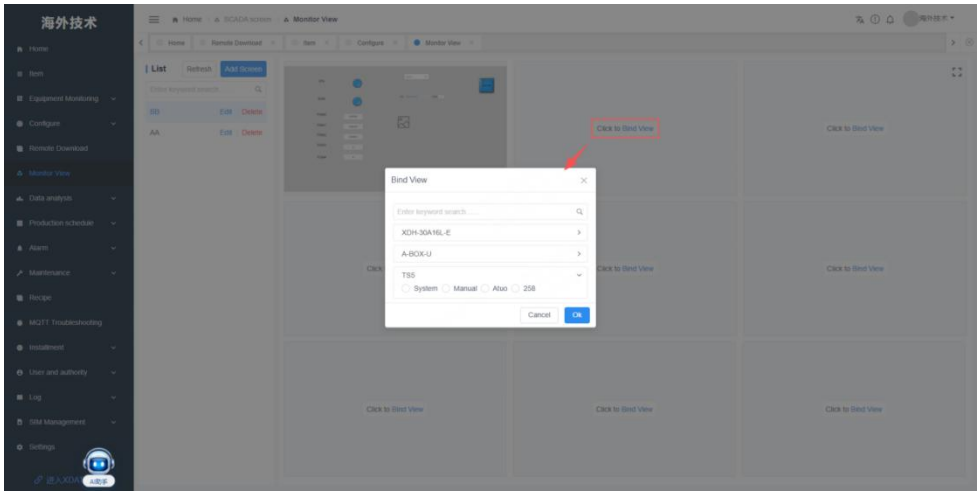


Configure the newly added large screens.

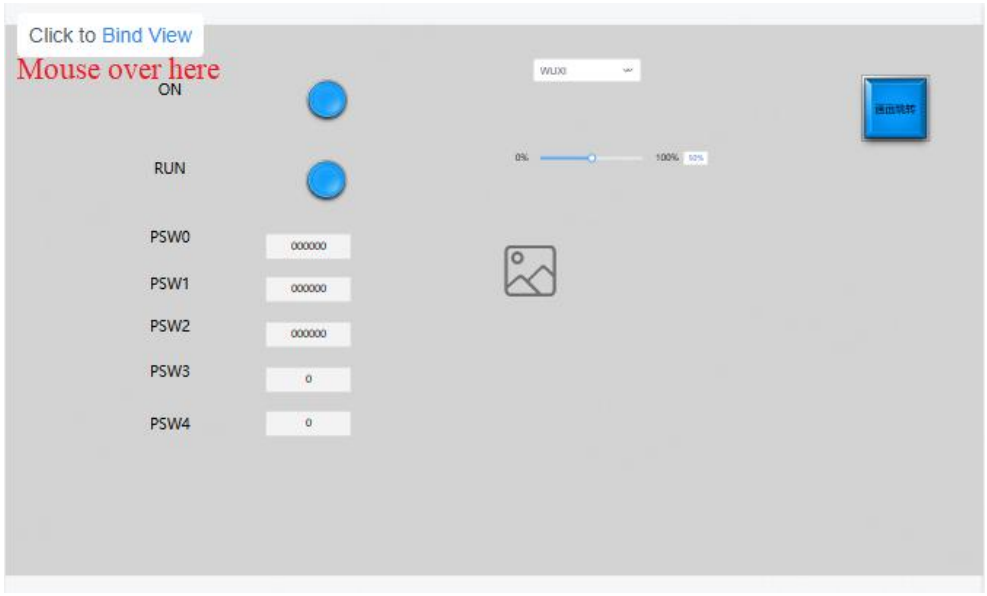


NO.	Name	Function Declaration
①	Name	You can edit the name of the large screen, often summarizing it as an on-site project.
②	Arrangement rules	You can set the number of rows and columns for sorting on the large screen. Maximum of 16 frames.

2、 Click Click to Bind View select the image you want to display.



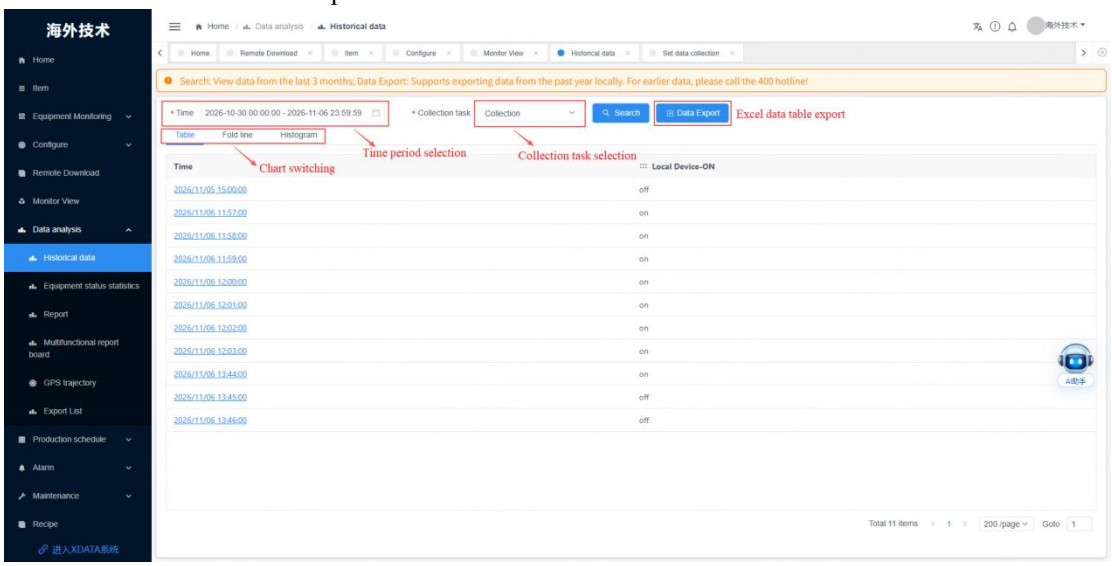
3、Modify the bound screen: When the mouse hovers over the upper-left corner of the screen, a pop-up will appear in the interface Click to Bind View .



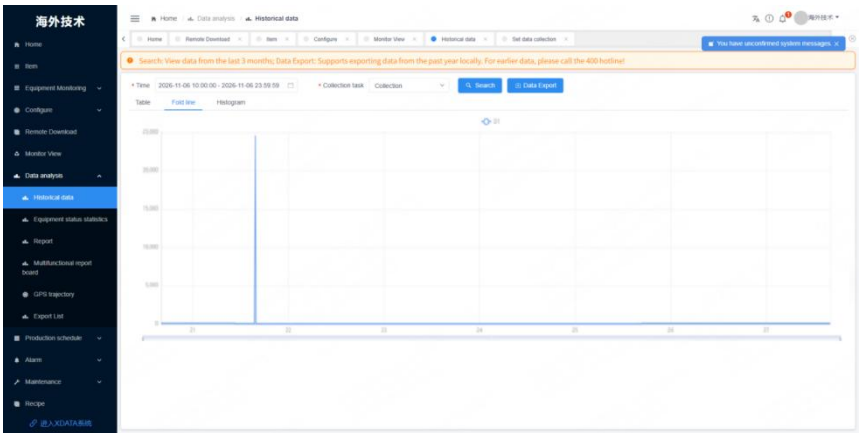
10. Data Analysis

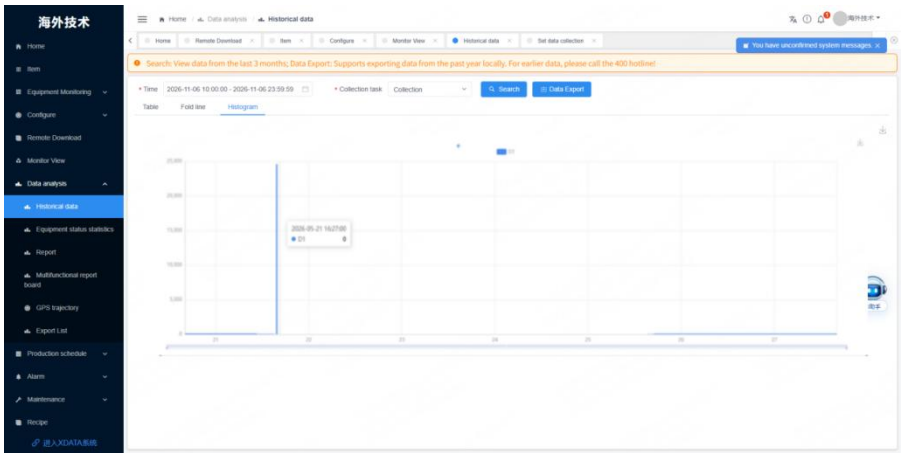
10.1 Historical Data

The historical data function block allows you to query data collected by tasks configured in the data collection settings within a user-specified time period; it supports three display formats—tables, line charts, and bar charts—with tables exportable to Excel.



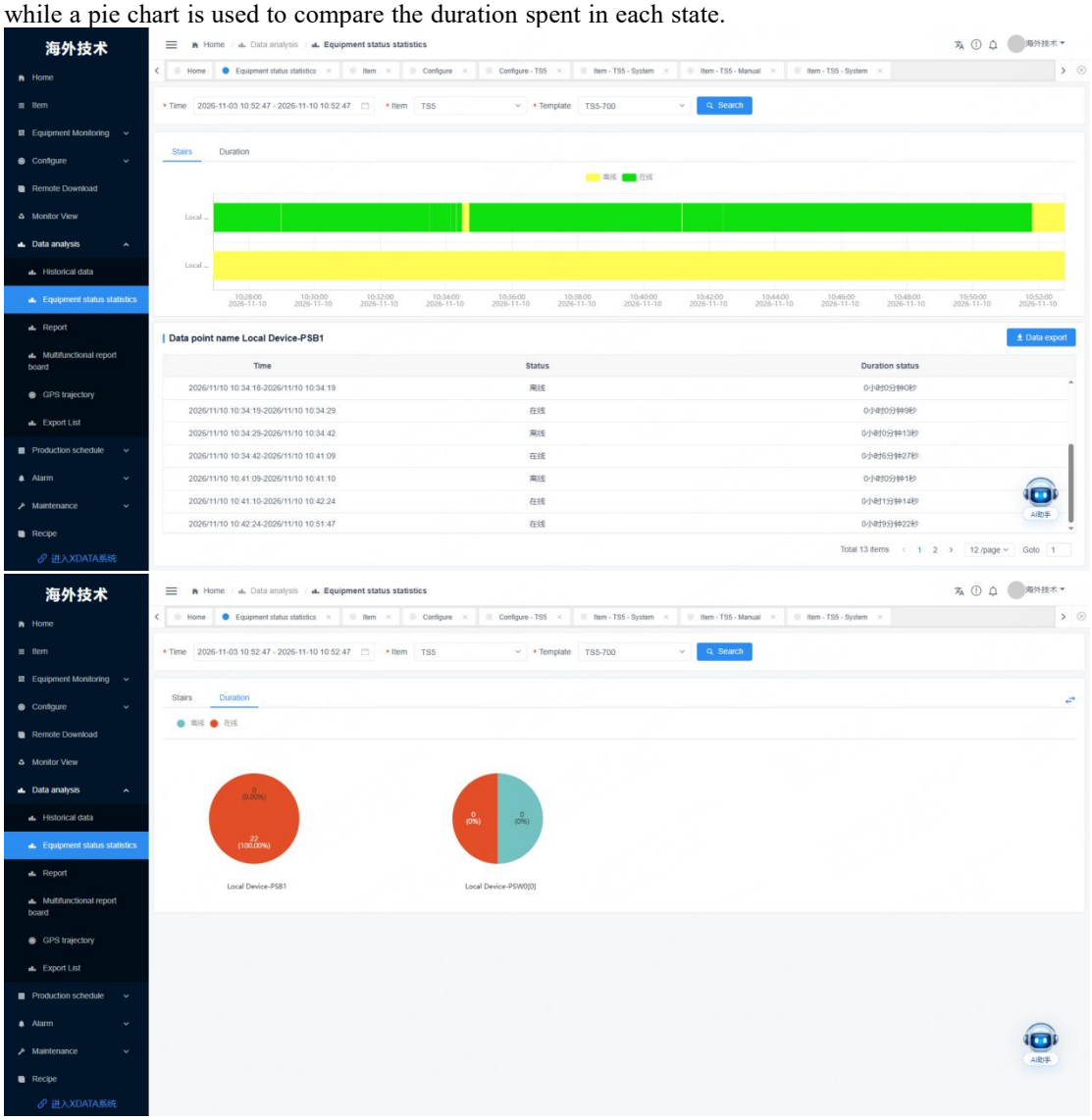
Select the start and end times, choose the data collection task you wish to view, and click "Query" (you may also manually enter the query date, e.g., 20260627). You can freely switch between tables, line charts, and bar charts.





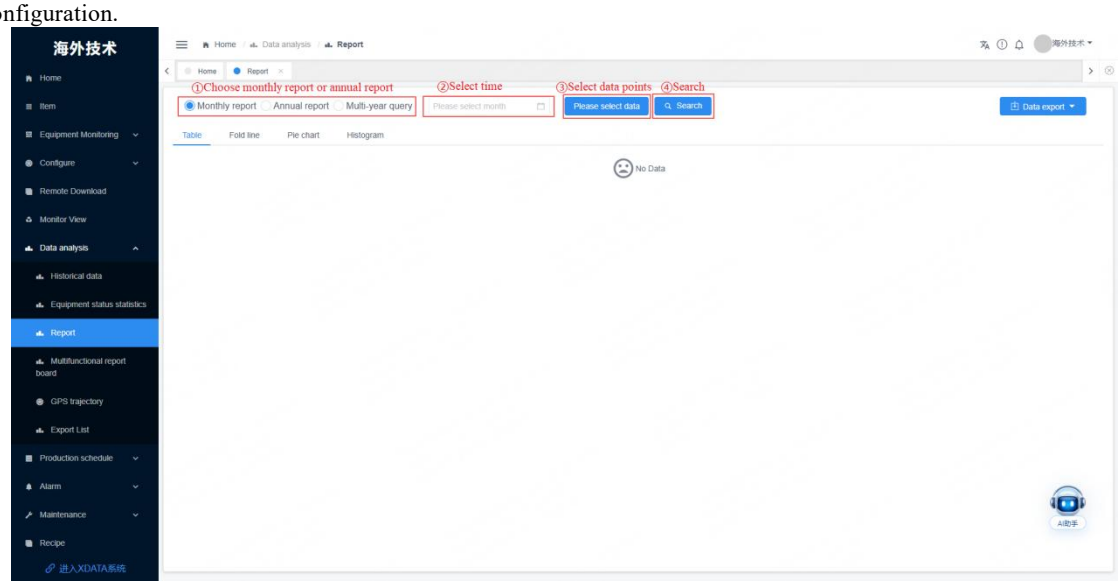
10.2 Equipment Status Statistics

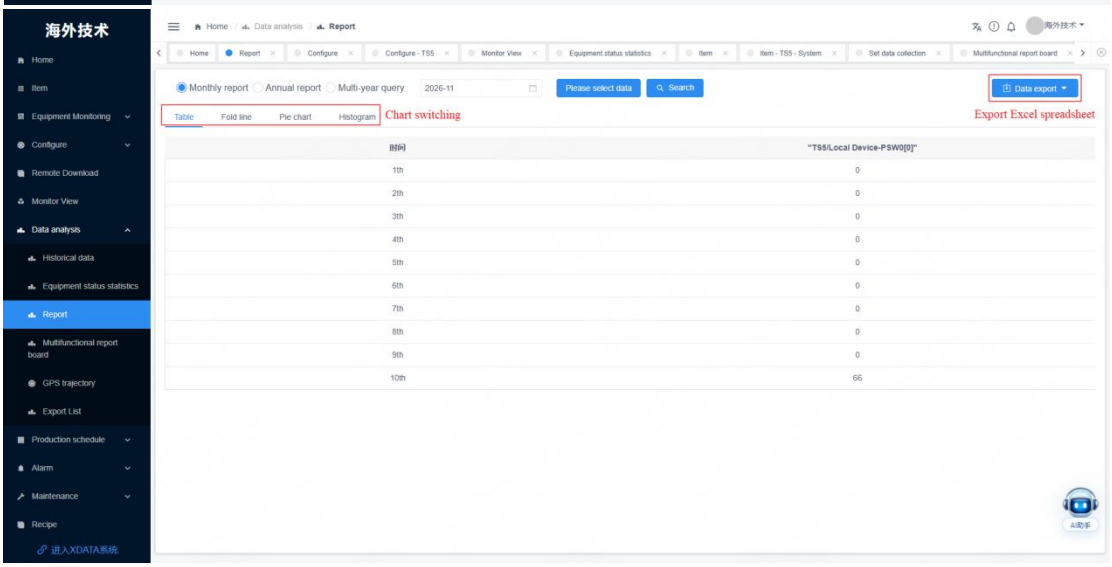
Device online status statistics record the operating status of devices monitored by the gateway; the operating status can be retrieved based on the Device Status Statistics configuration. Configure the templates configured in the settings for statistical analysis. A step chart is supported for viewing the time points of state transitions, while a pie chart is used to compare the duration spent in each state.



10.3 Report Forms

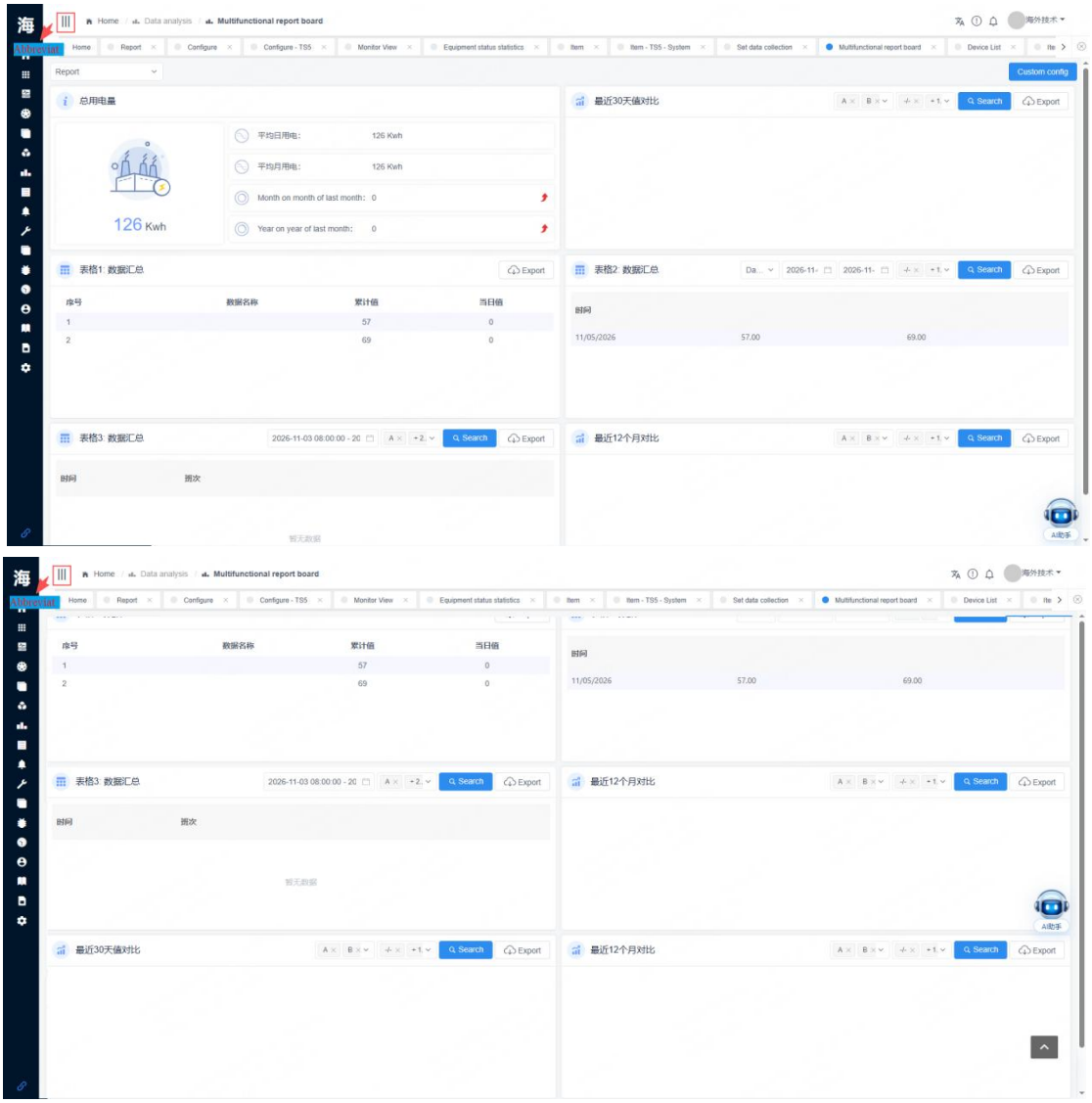
Report data: Cloud report data points correspond to the report data registers in the PLC; the register data in the PLC is continuously accumulated, and the cloud automatically performs calculations at 0:00 daily to generate and record the daily output. Reports can be viewed on a daily, monthly, or annual basis, with support for four display formats: tables, line charts, pie charts, and bar charts. For the data points required for statistics, refer to Section 7.1.6 Report Forms for configuration.



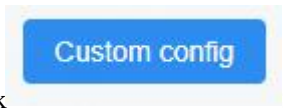


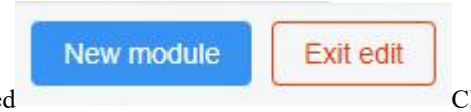
10.4 Multi-Functional Report Dashboard

Compared with standard reporting functionality, multi-functional reporting supports the arrangement of multiple charts within a single interface and presents them in a dashboard format, making it easier for customers to compare report data.

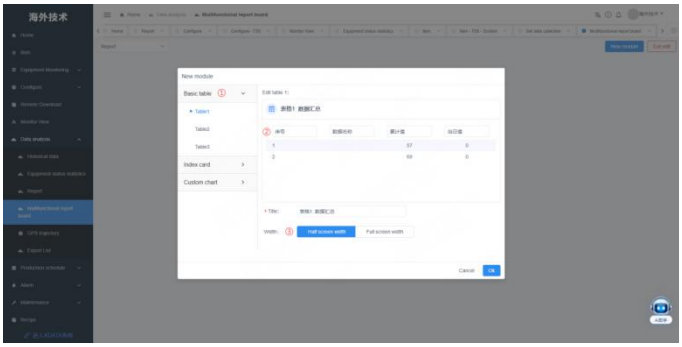


Configuration Steps:

1、Click 

Subsequently, it appeared 

Click "Add Module" to add new charts to the existing dashboard. Configure ①②③to complete the setup.



① Select the charts you want to display;

② The fields displayed in the chart can be customized;

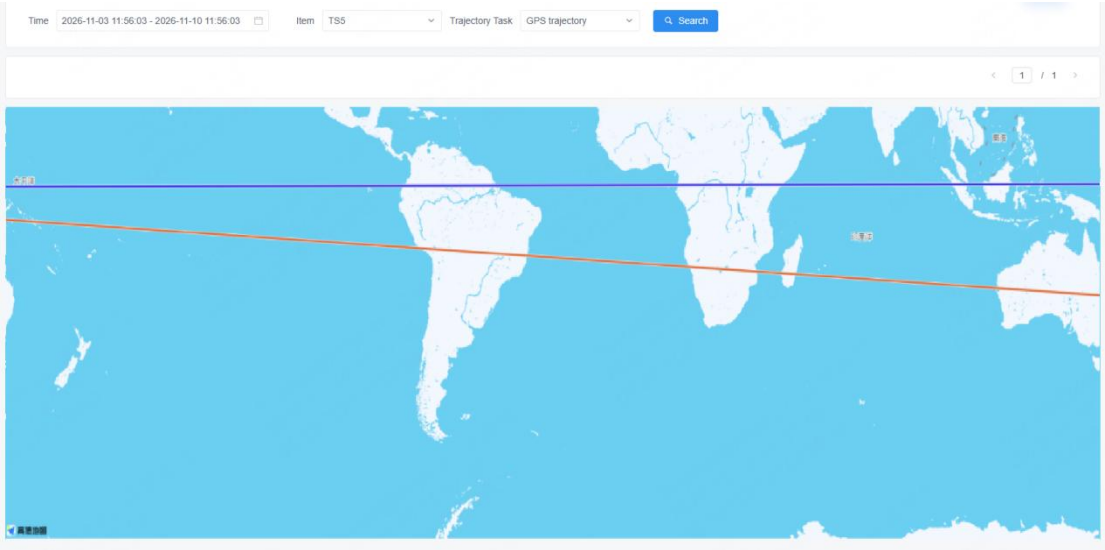
③ Whether the chart should be displayed in full-screen or split-screen mode on the dashboard.

2、Click on the chart panel  You can edit individual charts,  You can delete this chart.

Currently, dashboard does not support reordering by dragging items; please wait for a version update.

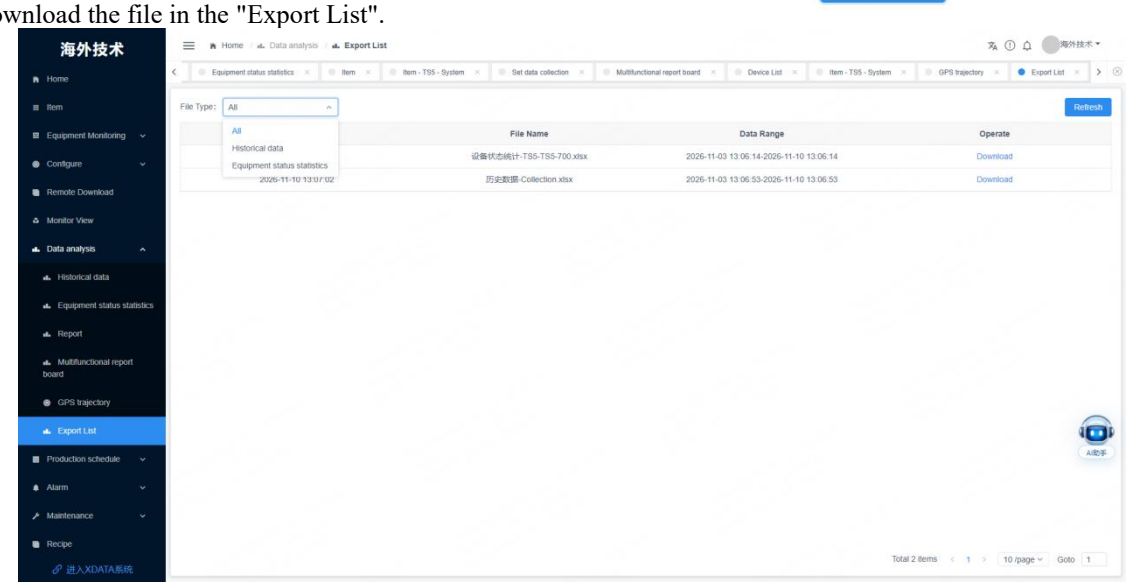
10.5 GPS Geographic Trajectory

The GPS geographic trajectory can display the movement path of configured points; you can also select a query time range, item, and trajectory task.

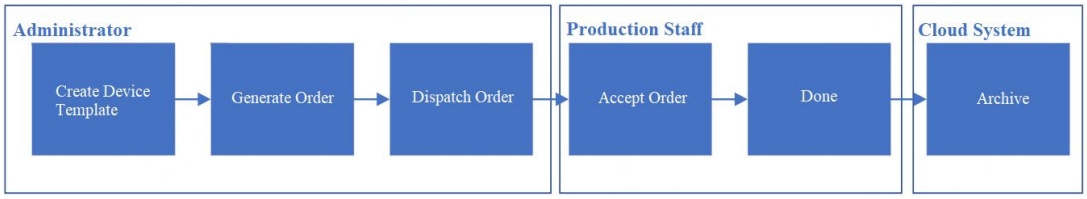


10.6 Export List

After clicking on the "Historical Data" and "Device Status Statistics" sections Data export , view the task and download the file in the "Export List".

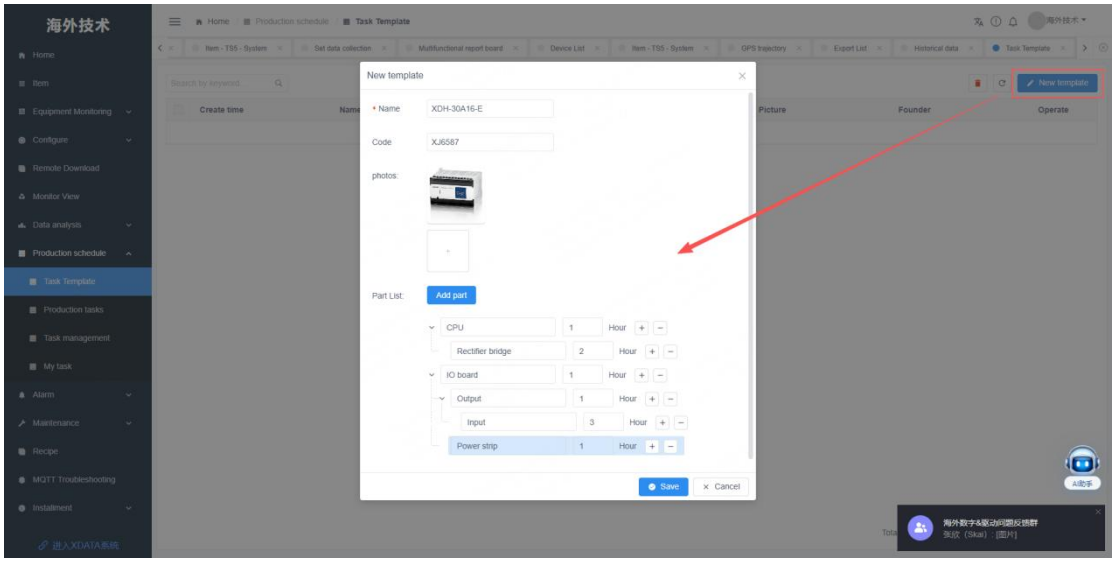


11. Production Schedule Management



11.1 Task Template

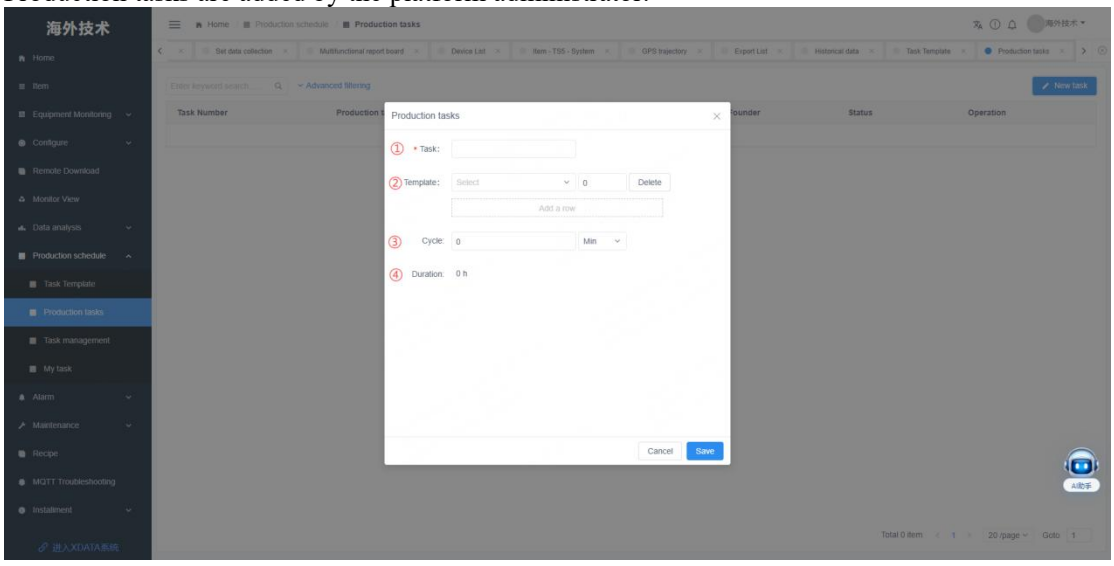
Create a template for production equipment/parts using the task template; edit the component list in the production template and record the time required for each component, thereby facilitating the calculation of production task durations.

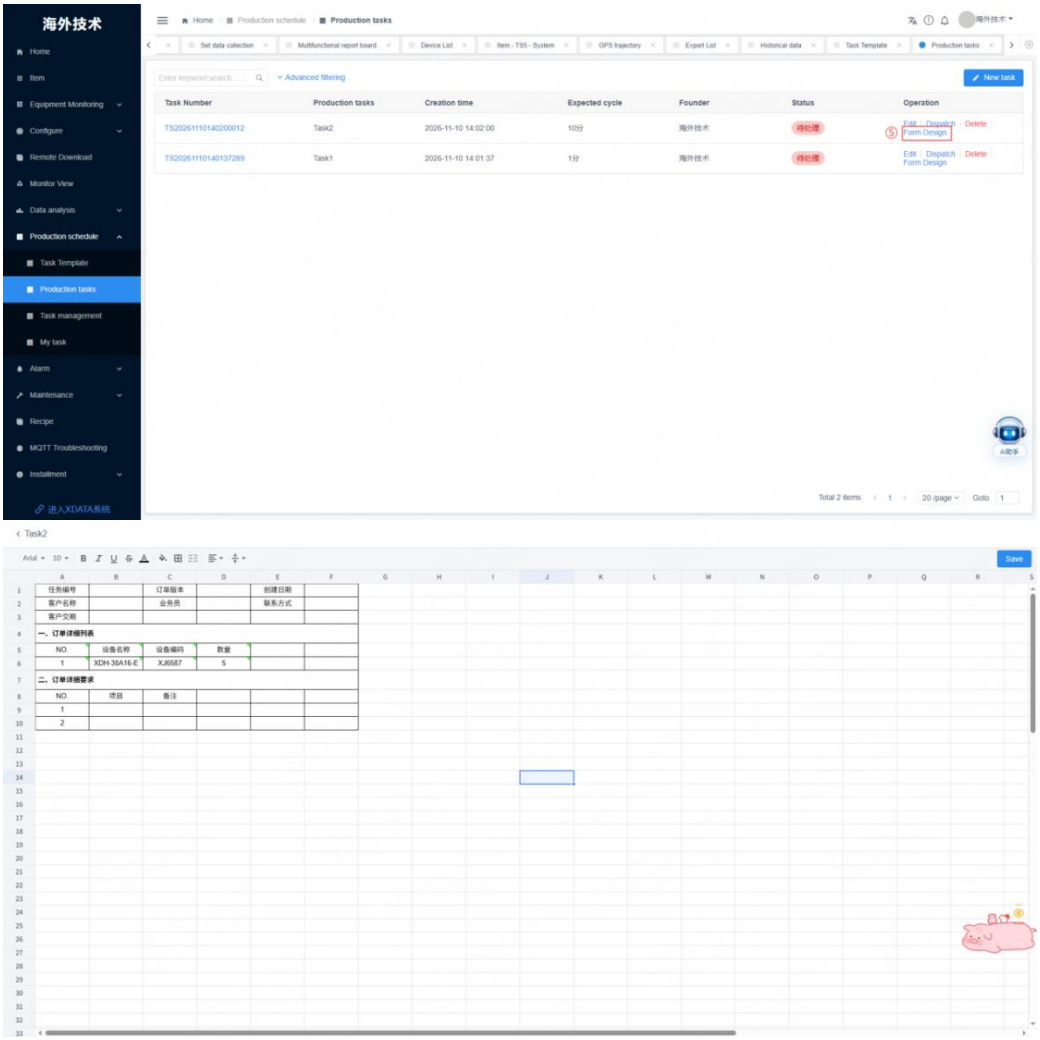


11.2 Production Tasks

11.2.1 New Task

Production tasks are added by the platform administrator.

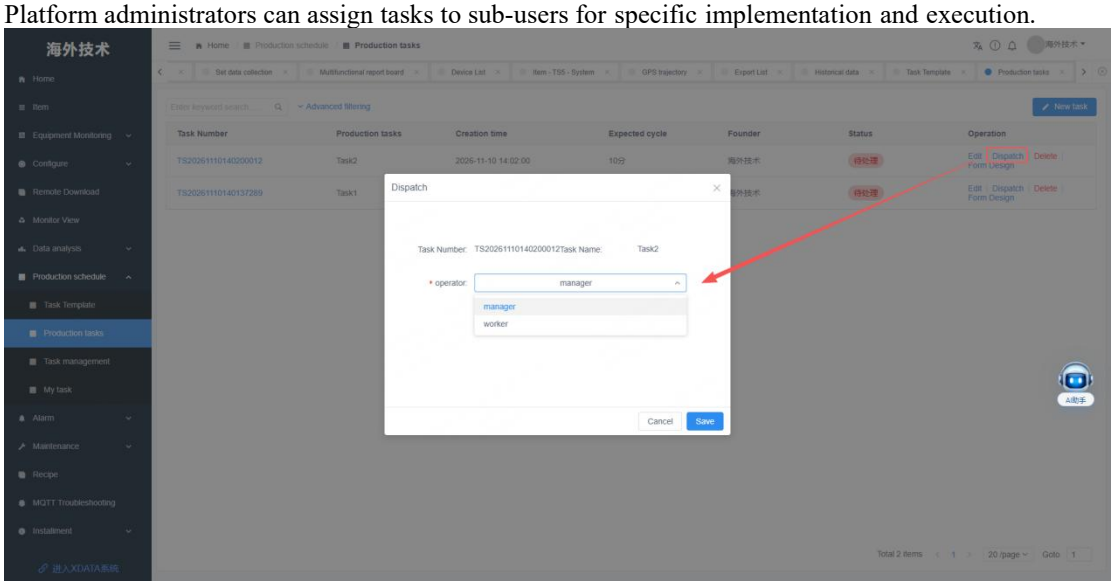




NO.	Name	Function Declaration
①	Production Tasks	Define the task name, for example: xxx order.
②	Template Selection	To add this task, you need the equipment/part template for production, as well as the quantity.
③	Estimated Cycle	The workshop supervisor shall enter the estimated production time.
④	Reference Duration	The duration provided by a system in which the time required to produce one template is multiplied by the quantity.
⑤	Form Design	After creating the task, you can edit the order information associated with the task for archiving and record-keeping.

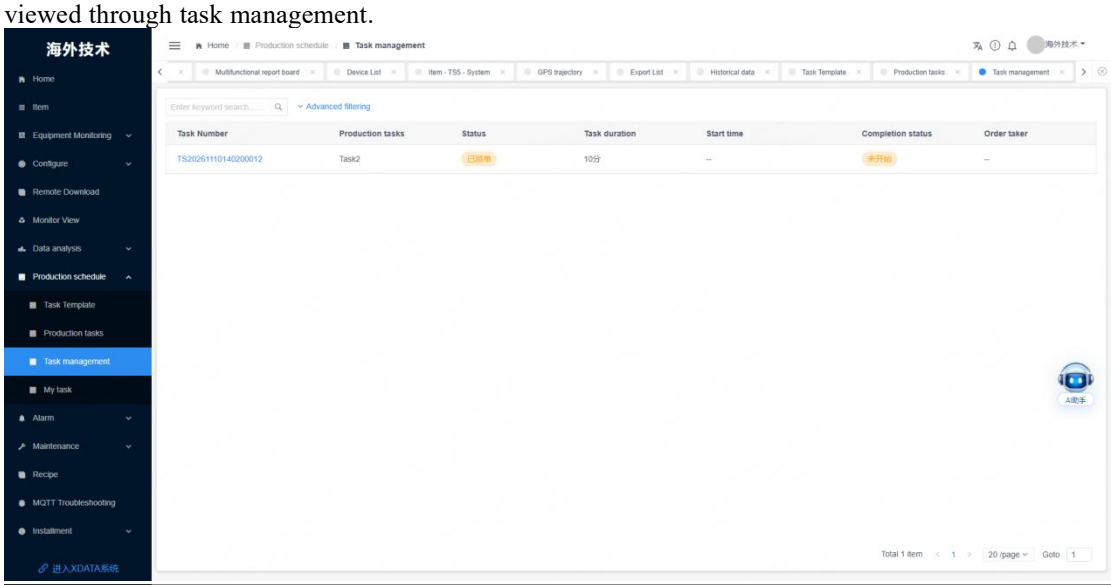
11.2.2 Task Assignment

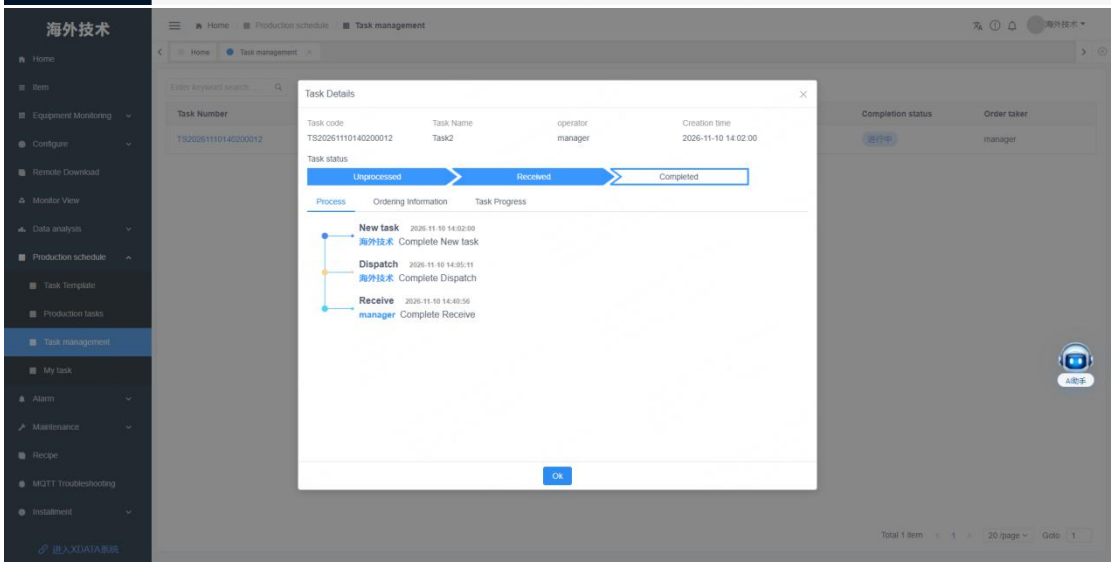
Platform administrators can assign tasks to sub-users for specific implementation and execution.



11.3 Task Management

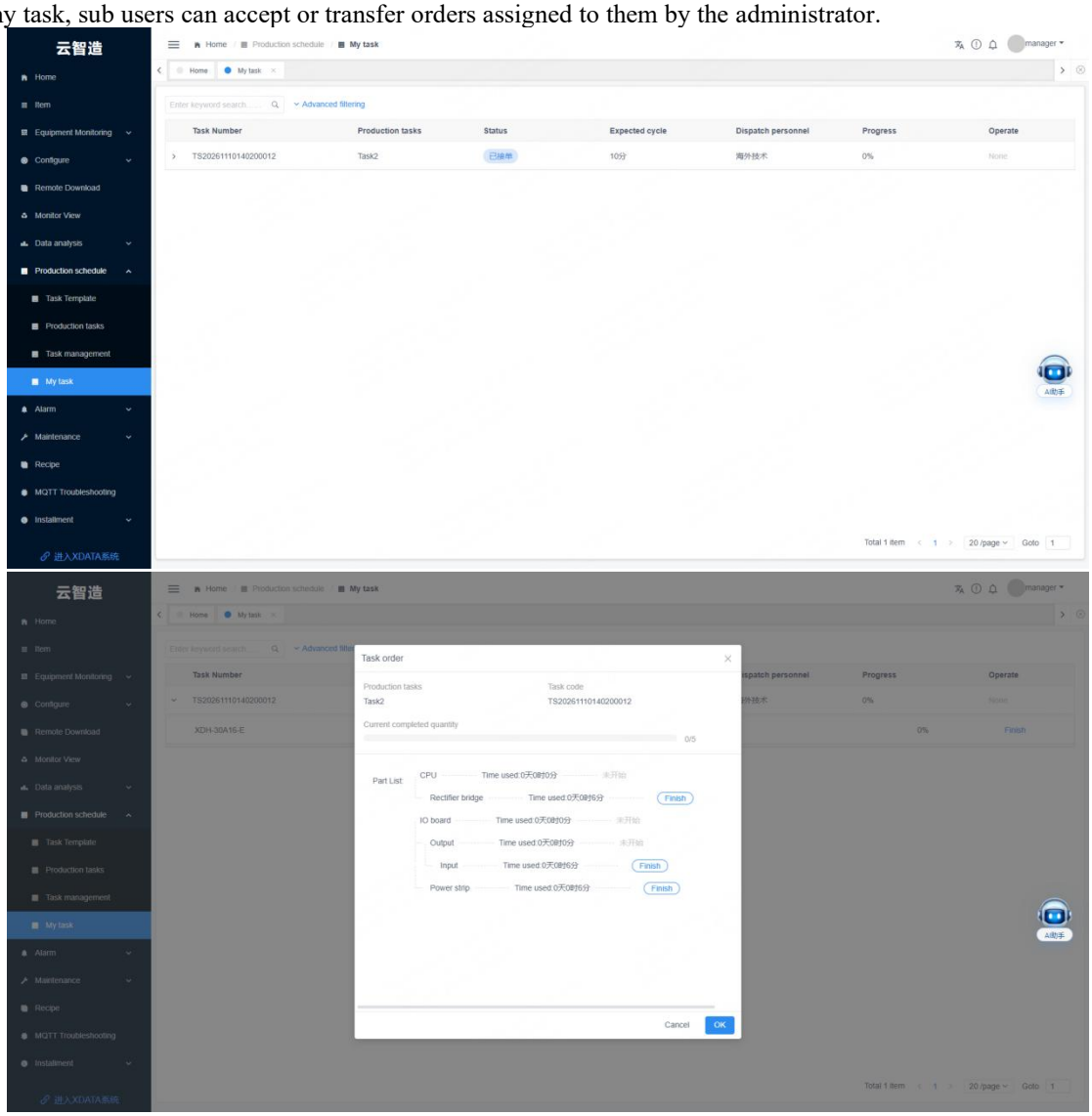
Information such as the completion status of created orders and order dispatch status can be archived and viewed through task management.





11.4 My Task

In my task, sub users can accept or transfer orders assigned to them by the administrator.



- After accepting the order, click the task number to expand the task details.
- Click "Complete" to expand the component list of the device/part template.
- Each time a component is clicked as complete, the current completion time for that component is recorded.
- Only after all sub-components have been completed can you click "Complete" for the parent component.
- Once all components have been marked as complete, the number of completed device/part templates is incremented by 1.
- Once the task is completed, record the total duration, compare it with the estimated duration to determine whether the task was completed beyond the time limit or within the time limit, and then archive the record.

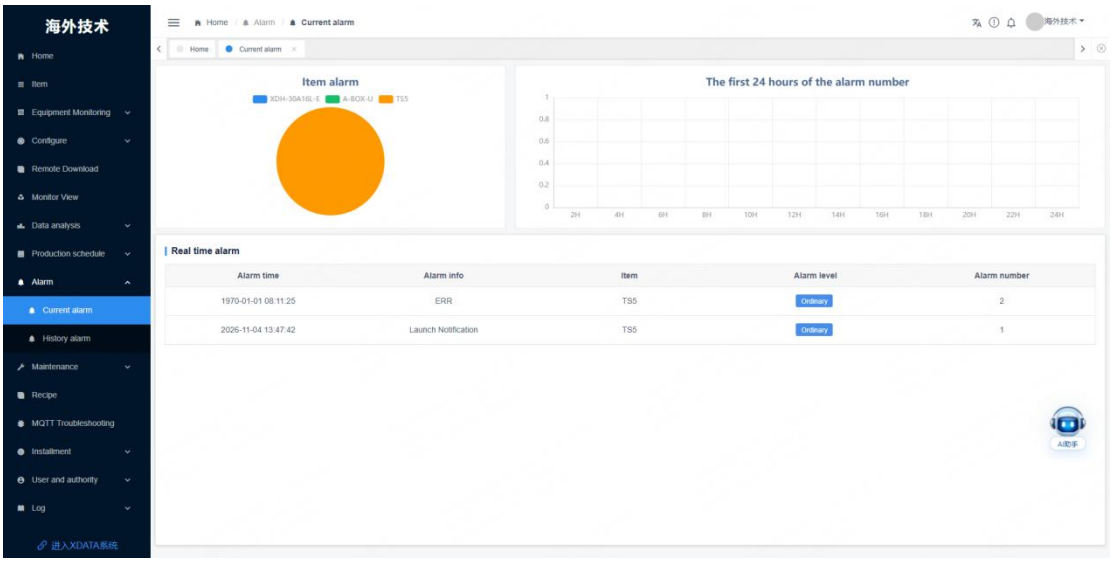
12. Alarm

The alarm function bar will summarize the triggering status of alarm tasks with configured alarm sources within the project.

- For the configuration of alarm sources, please refer to:7.1.3
- For the operation of pushing alarm information, please refer to:20.3

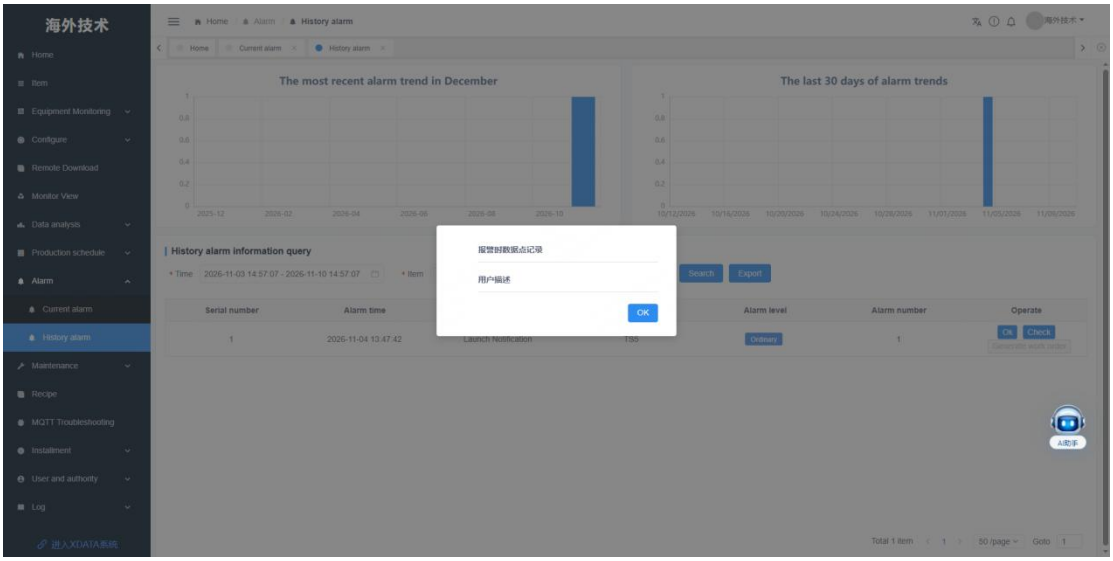
12.1 Current Alarm Summary

The pie chart displays the proportion of each item's alarm count to the total number of alarms. Move the cursor to the pie chart to view the item name, alarm quantity, and proportion. The bar chart displays the number of alarms in every two-hour time period within the last 24 hours. Real time alarms present the latest alarms from all items in a list format. You can click the dropdown menu to select the specified item to view the corresponding alarm information.

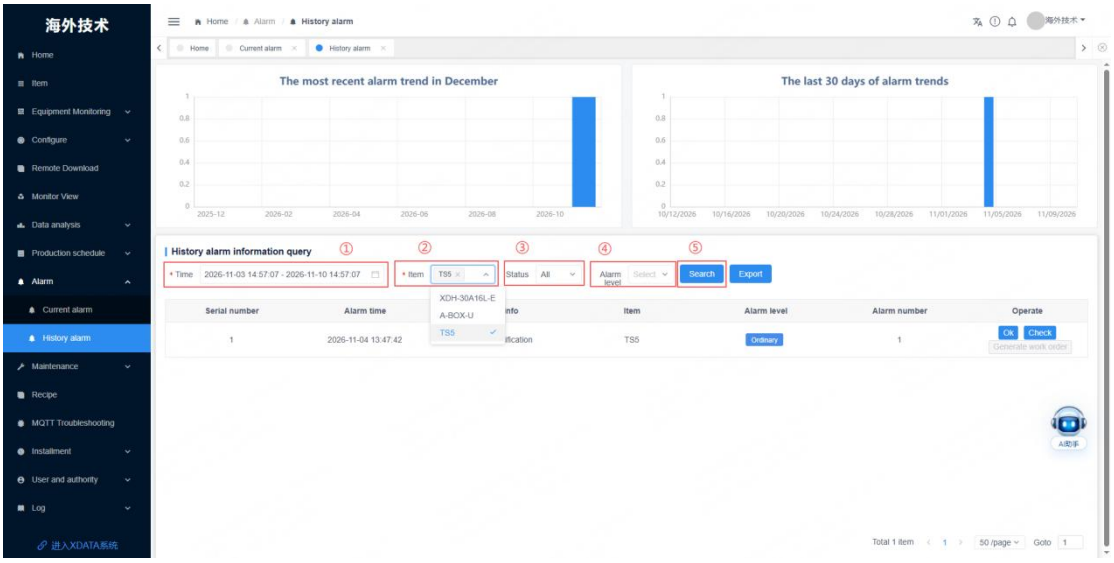


12.2 Historical Alarm Summary

The bar chart displays the number of alarms for each month over the most recent year, as well as the number of alarms for each day over the most recent 30 days; move the cursor over the bar chart to view the specific number of alarms.



To query historical alarm information, select "Start–End Time," choose query criteria such as "Item," "Status," and "Alarm Level," and finally click "Query."



- The system will automatically match the time in the corresponding time zone based on the time zone information of the user's location and display it accordingly.
- All historical data records, including timestamps such as the recording time and alarm occurrence time, are displayed in the local time of the access location.

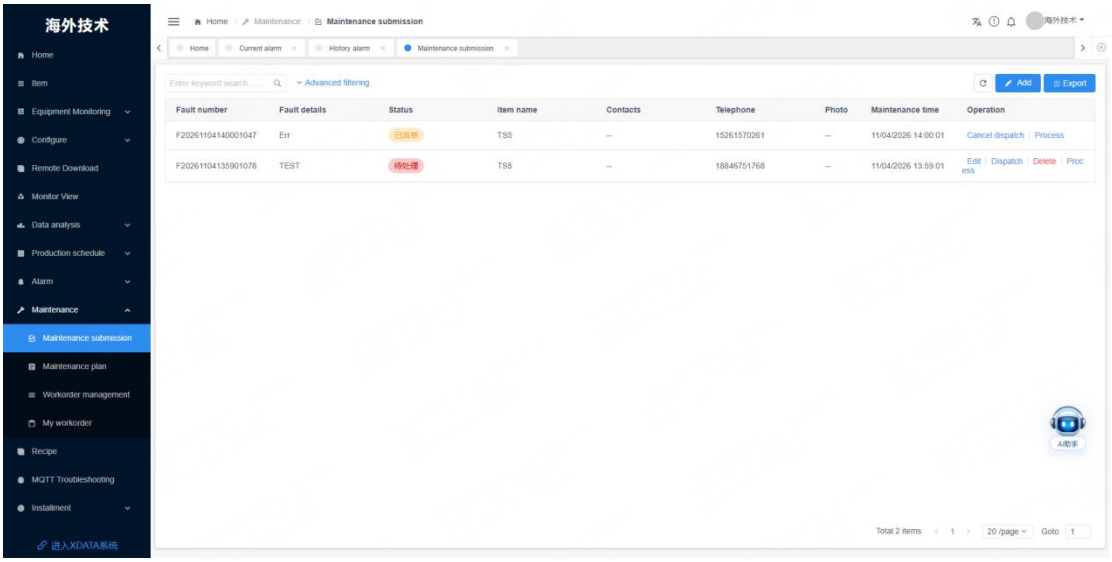
13. Maintenance

13.1 Maintenance Submission

Users can submit a repair request here, and a service request can be dispatched. Once dispatched, maintenance personnel can accept the request in "My Service Requests" and select "Complete Service Request. "

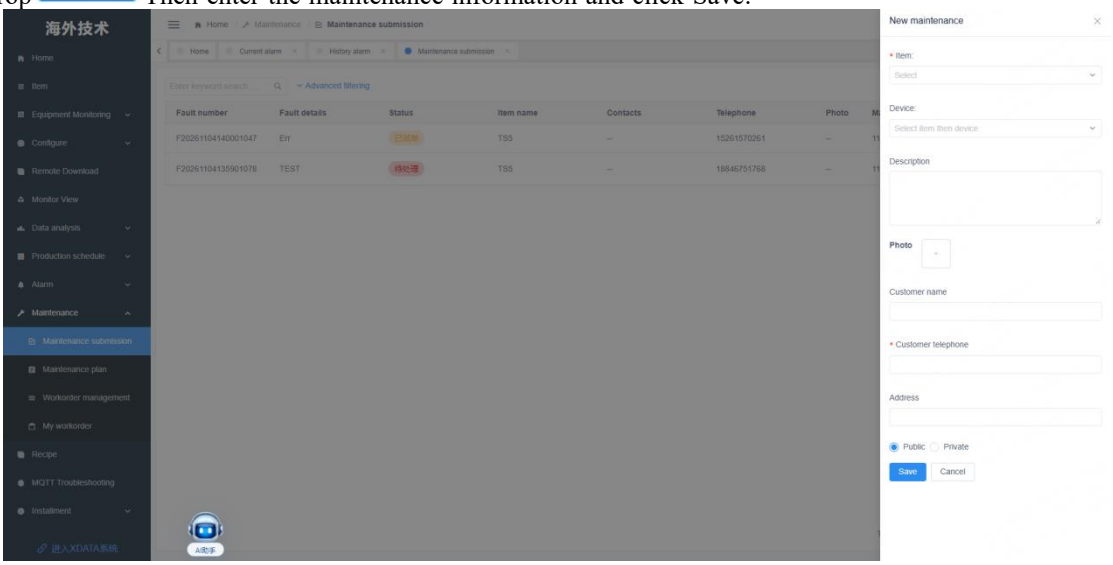
13.1.1 Submit a Repair Request

Users with repair request permissions can create a device repair request via the web interface on a computer or the mobile app.



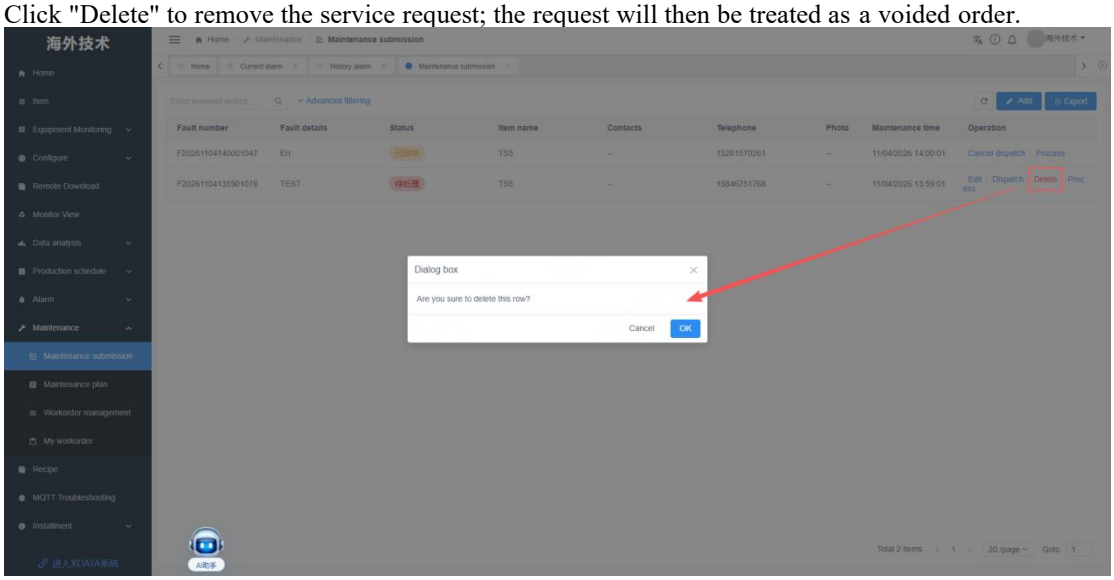
Drop 

Then enter the maintenance information and click Save.



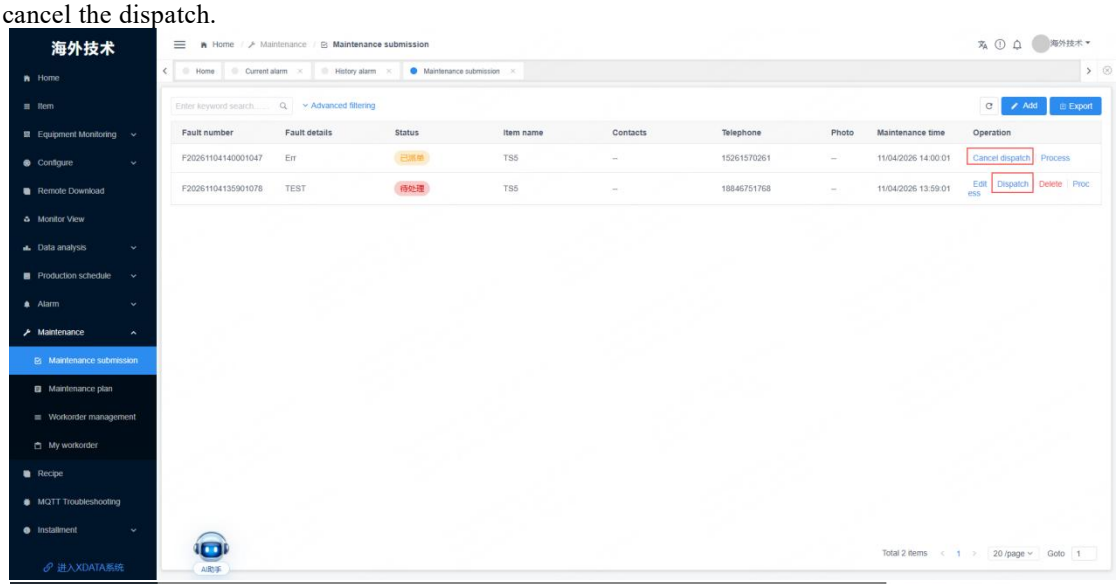
13.1.2 Delete Repair Request (Void)

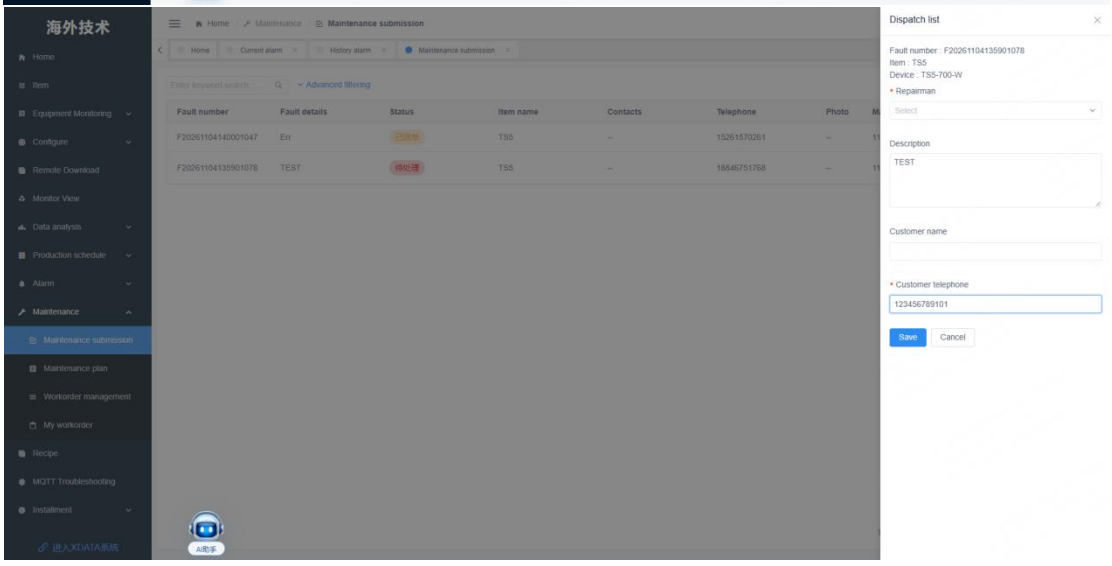
Click "Delete" to remove the service request; the request will then be treated as a voided order.



13.1.3 Assign Order / Cancel Order

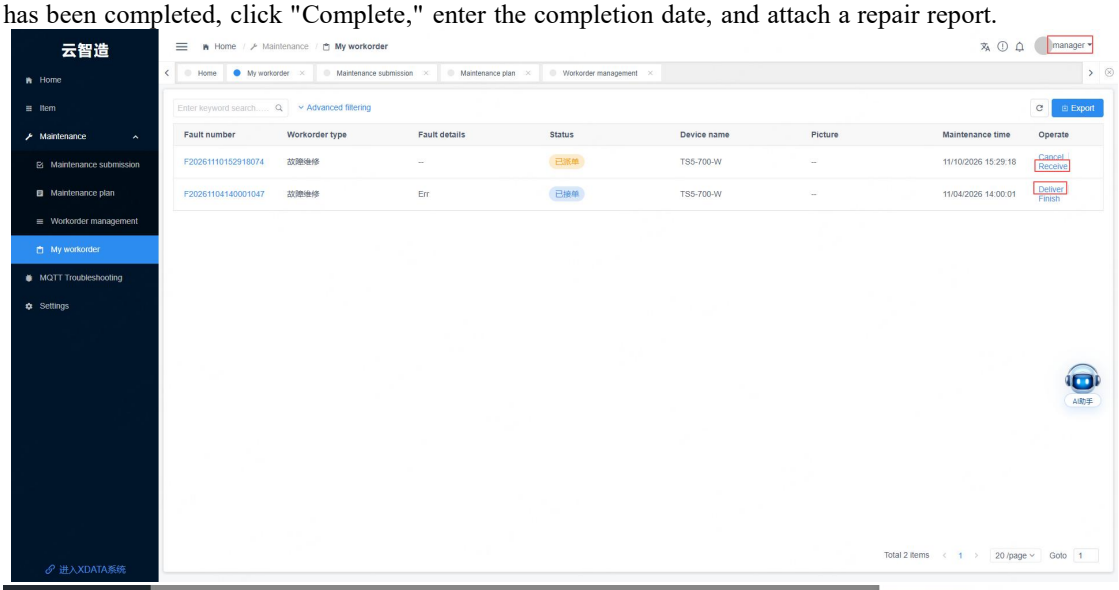
Users with dispatching permission can dispatch orders on the web version of the computer or mobile app. After dispatching, a work order will be generated, and specific work order details can be viewed in the 'Work Order Management'. If the wrong after-sales personnel are dispatched, the administrator can also cancel the dispatch.

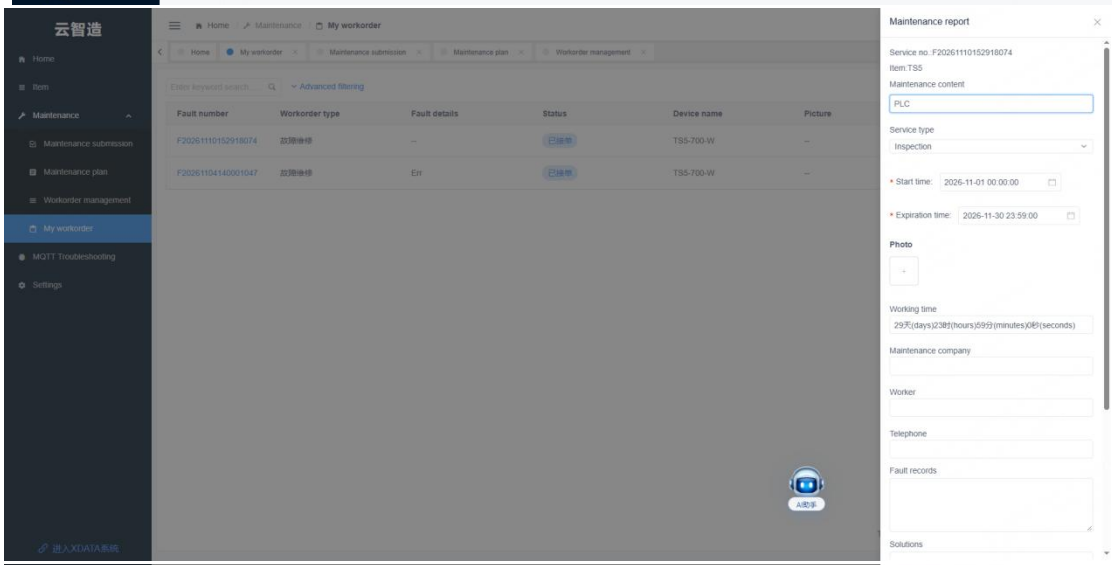


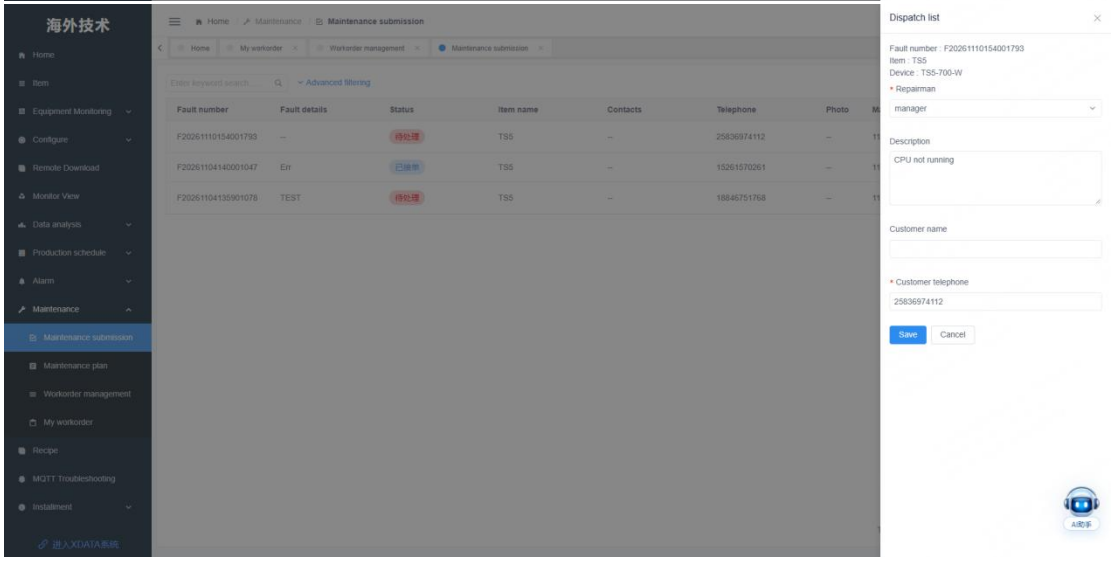


13.1.4 Accept Order / Forward

On the web version for desktop computers and the mobile app, log in with a user account that has been assigned a work order and possesses the necessary work-order permissions. On the [My Work Orders] page, you can view the work orders assigned to you; after accepting one of them, you can further transfer it to your sub-users and receive a notification for the repair/maintenance work order. Once the maintenance work order has been completed, click "Complete," enter the completion date, and attach a repair report.



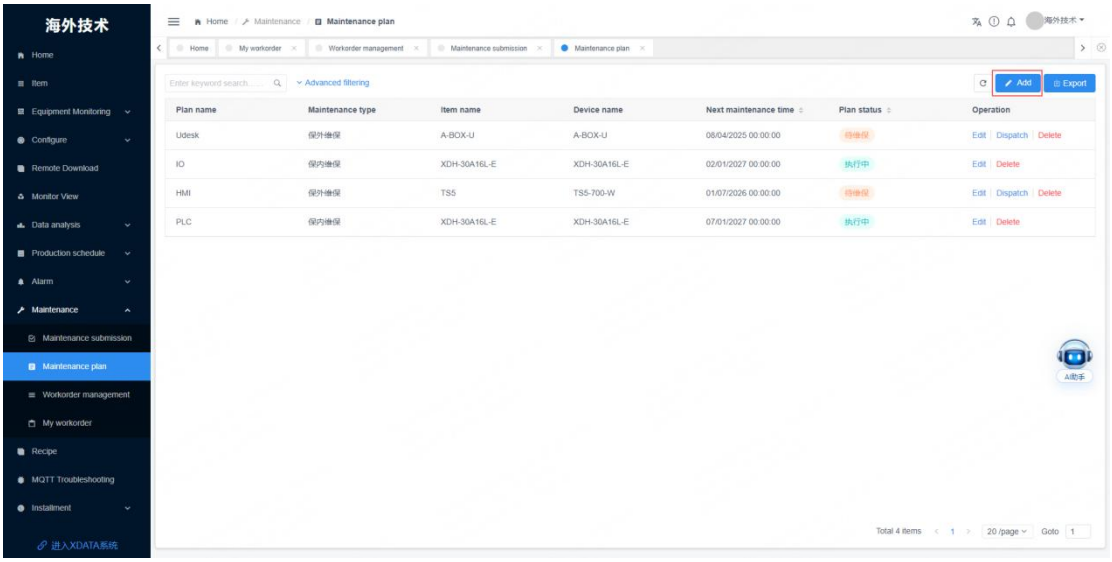


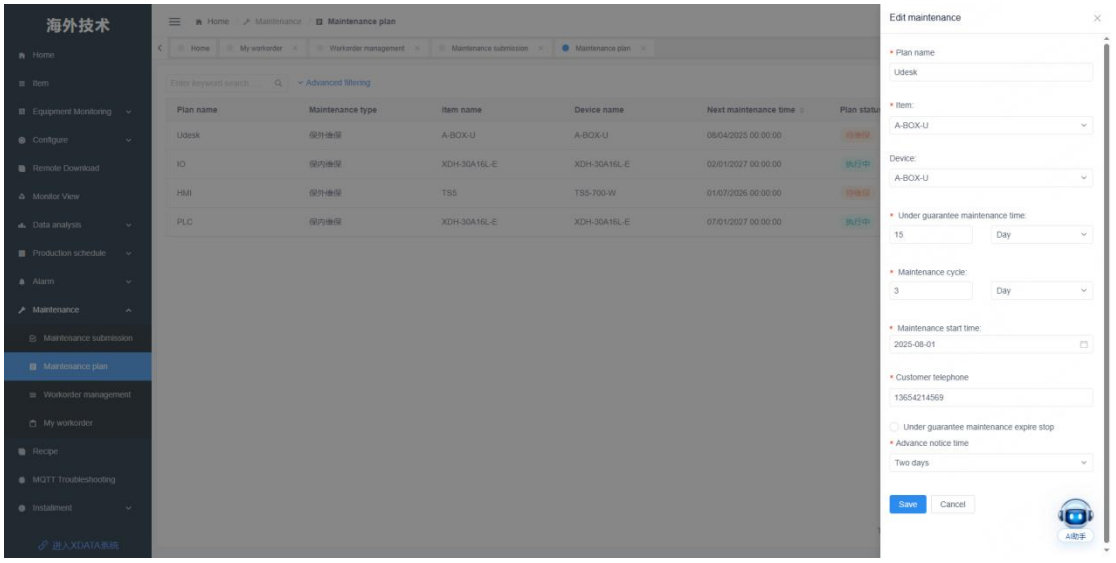


13.2 Maintenance Plan

Users can create maintenance schedules based on the equipment's factory date; once the schedule expires, work orders can be issued, and maintenance personnel can process those work orders through the app.

13.2.1 Add Plan



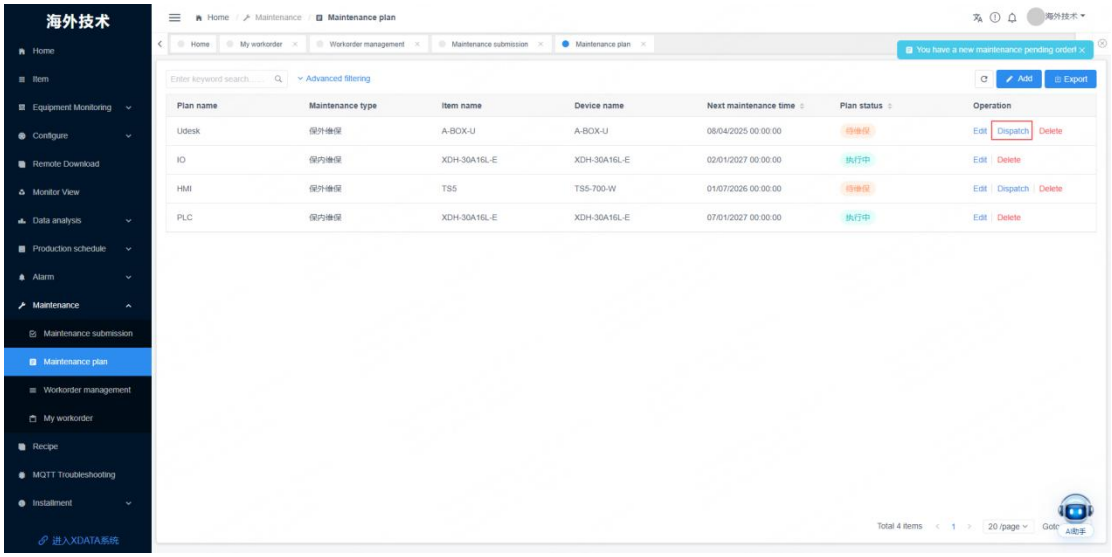


Example:
In-service maintenance period: 1 year; maintenance cycle: 3 months
Maintenance start date: February 10,2027
Advance work order dispatch time: 3 days

Only plans in the pending maintenance status can be assigned; once assigned, a work order will be generated.

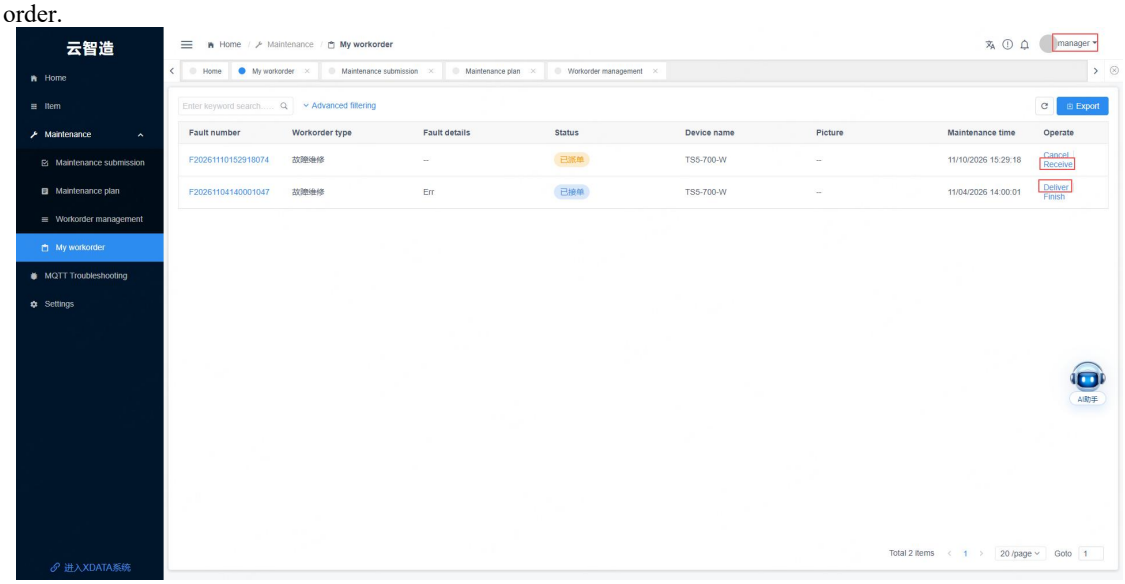
13.2.2 Scheduled Work OrderAssignment

When the scheduled maintenance period arrives, the "Dispatch" option will appear; click "Dispatch" to assign a work order to the scheduled maintenance item.


海外技术
Home
Item
Equipment Monitoring
Configure
Remote Download
Monitor View
Data analysis
Production schedule
Alarm
Maintenance
Maintenance submission
Maintenance plan
Workorder management
My workorder
Recipe
MQTT Troubleshooting
Installment
进入XDATA系统
Home / Maintenance / Maintenance plan
Home
My workorder
Workorder management
Maintenance submission
Maintenance plan
You have a new maintenance pending order!
Enter keyword search
Advanced filtering
Add
Export
Plan name
Maintenance type
Item name
Device name
Next maintenance time
Plan status
Operation
Udesk
保外维保
A-BOX-U
A-BOX-U
08/04/2025 00:00:00
Edit
Dispatch
Delete
IO
保内维保
XDH-30A16L-E
XDH-30A16L-E
02/01/2027 00:00:00
Edit
Delete
HMI
保外维保
TS5
TS5-700-W
01/07/2026 00:00:00
Edit
Dispatch
Delete
PLC
保内维保
XDH-30A16L-E
XDH-30A16L-E
07/01/2027 00:00:00
Edit
Delete
Total 4 items
20 /page
Go to
AI助手

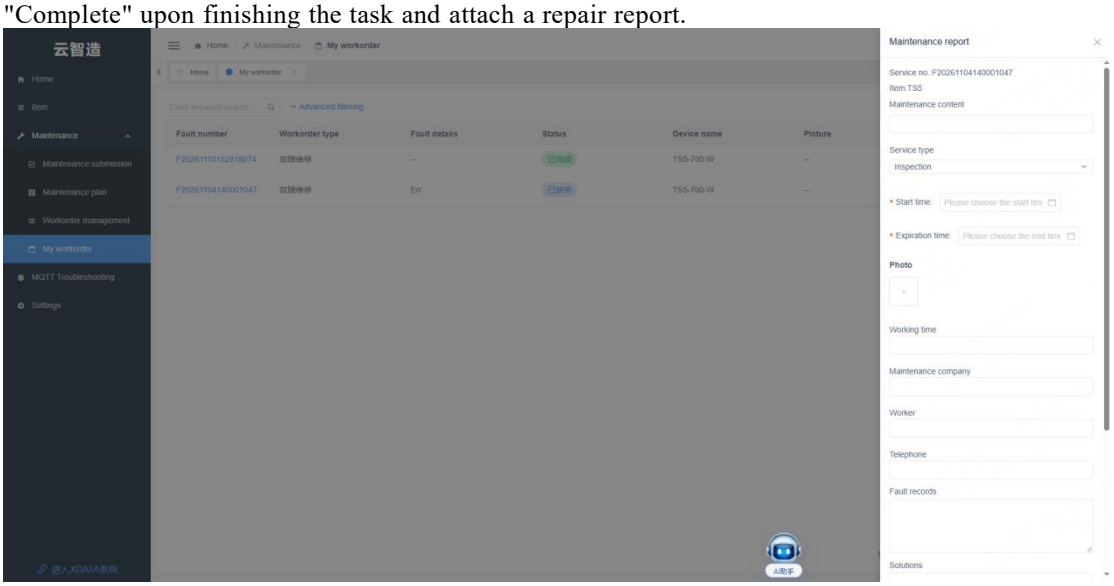
13.2.3 Work Order Acceptance / Transfer

On the desktop client or mobile app, log in to a user account that has been assigned a work order and possesses the corresponding work-order permissions. In [My Work Orders], you can view the work orders assigned to you, or further transfer a work order to one of your sub-users; you will also receive a notification for the maintenance/repair work order.



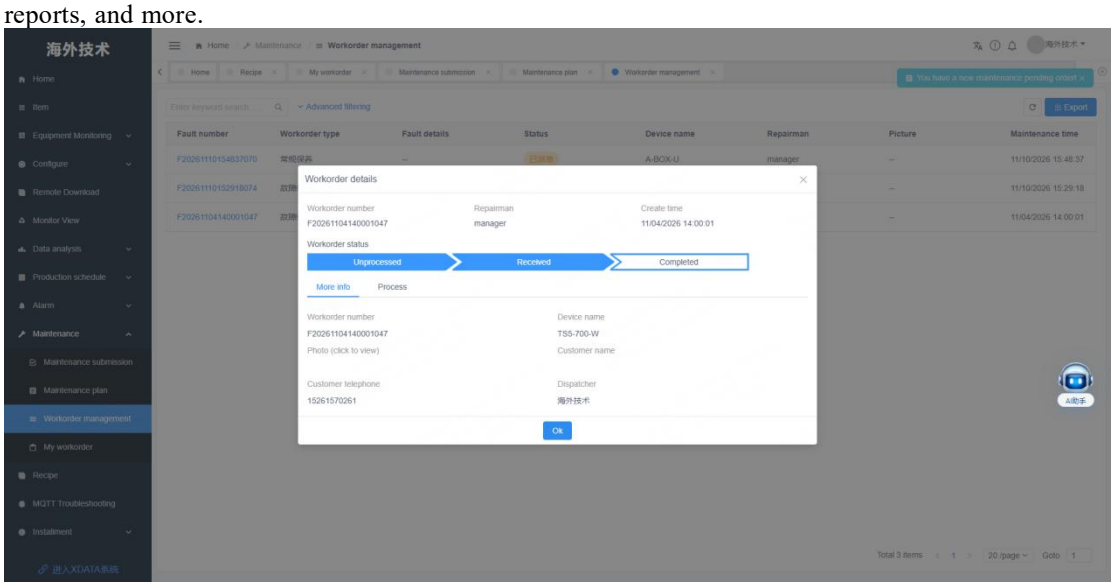
13.2.4 Accomplish

On the web version for desktop computers and the mobile app, users with work-order permissions can view the work orders assigned to them in [My Work Orders]. After accepting a work order, they can click "Complete" upon finishing the task and attach a repair report.



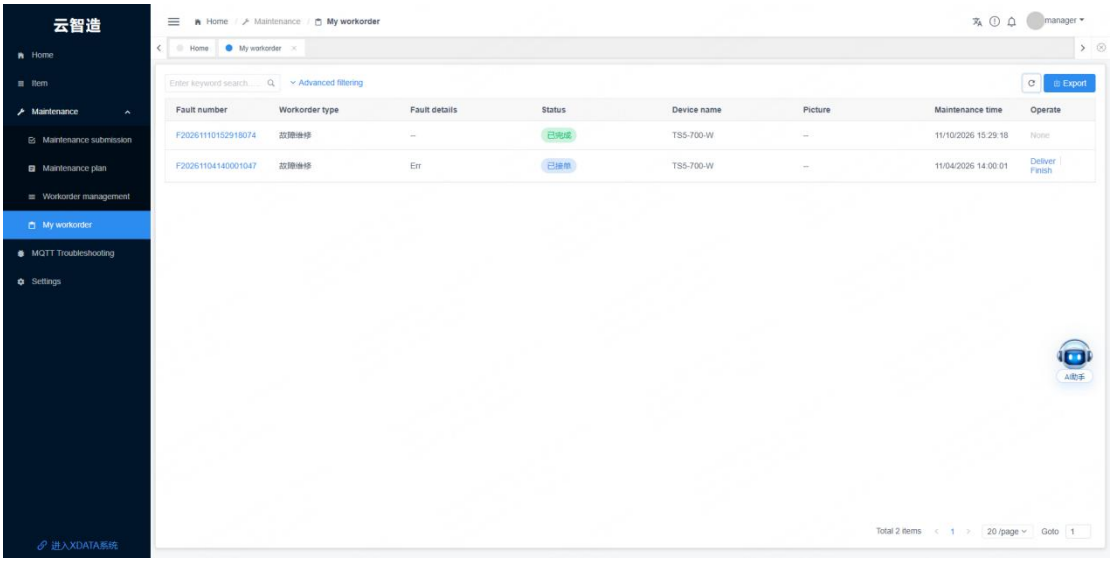
13.3 Work Order Management

In [Work Order Management], you can view work order details, including work order information, workflows, reports, and more.



13.4 My Service Ticket

All service tickets assigned to the current account are located here; you can receive tickets, mark tickets as completed, and fill out repair or maintenance reports. These operations can also be completed via the mobile app.

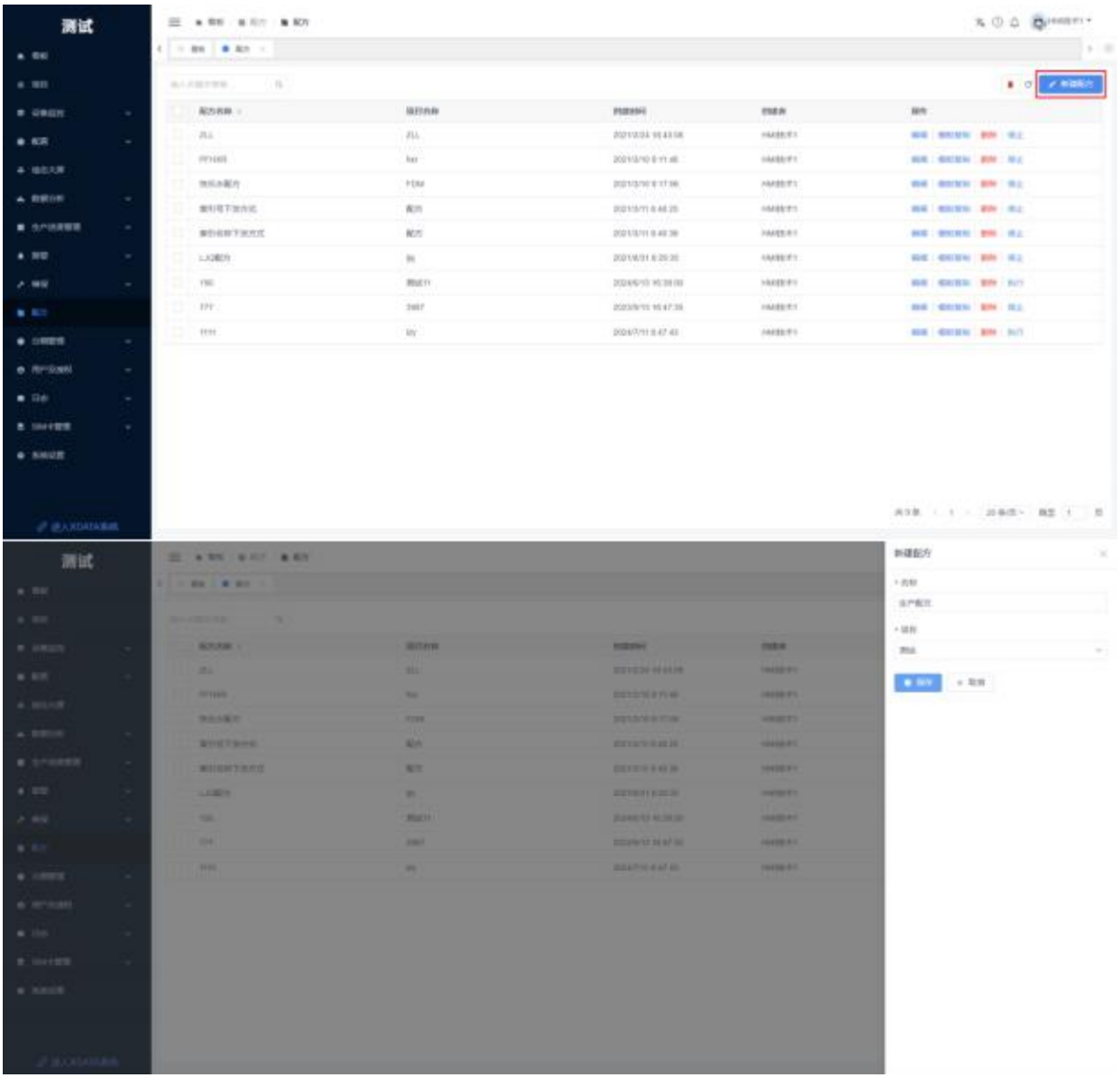


14. Recipe

The cloud platform's configuration feature supports storing source data in a database; its data storage capacity far exceeds that of a touchscreen, and data can be flexibly filtered and automatically distributed.

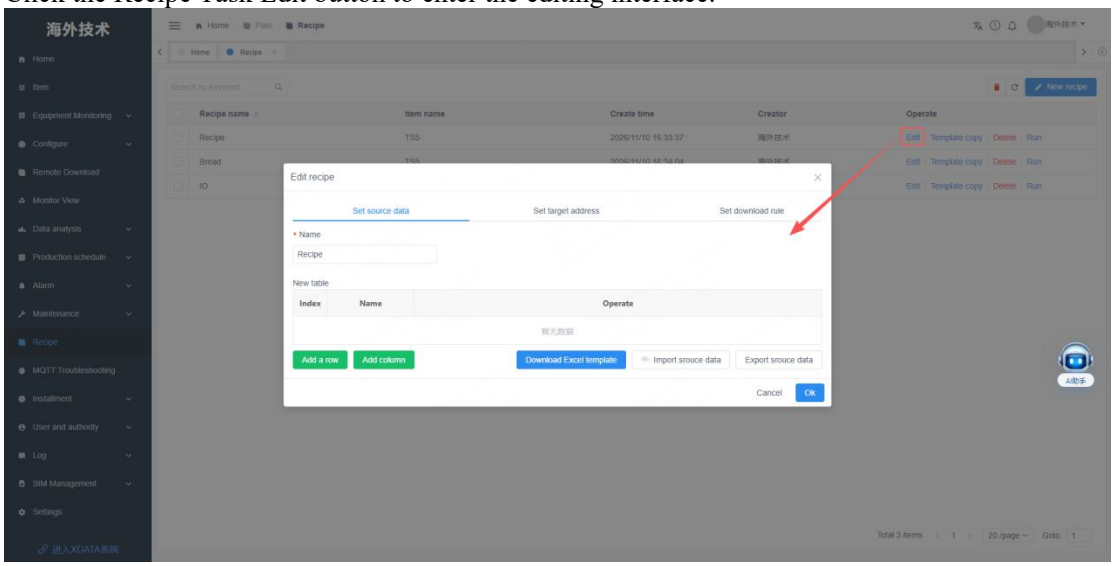
14.1 Create Recipe Task

Click "Create New Recipe" to create a recipe task.

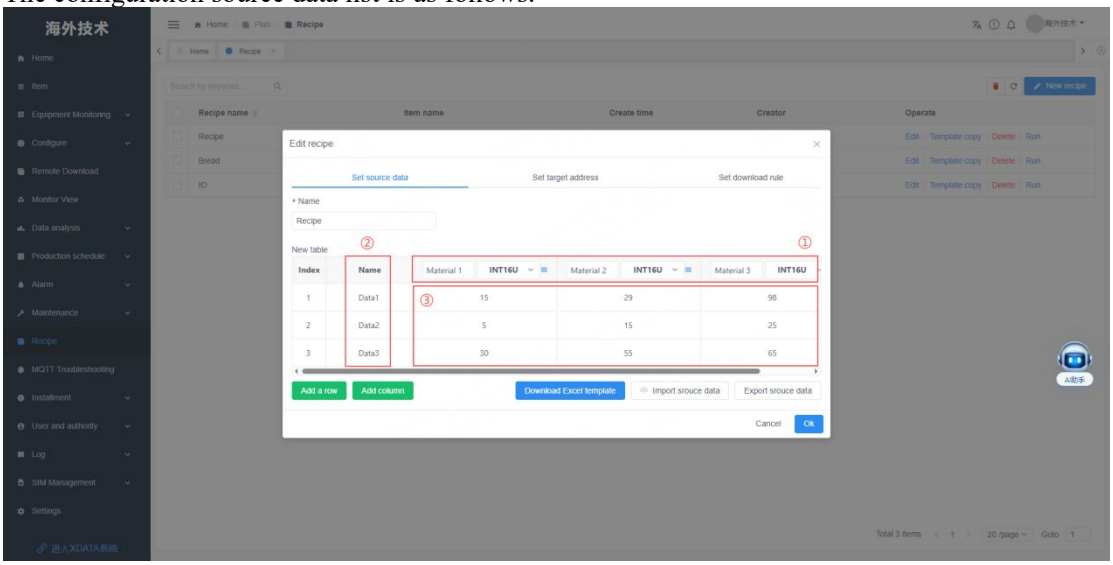


14.2 Configure Source Data

Click the Recipe Task Edit button to enter the editing interface.



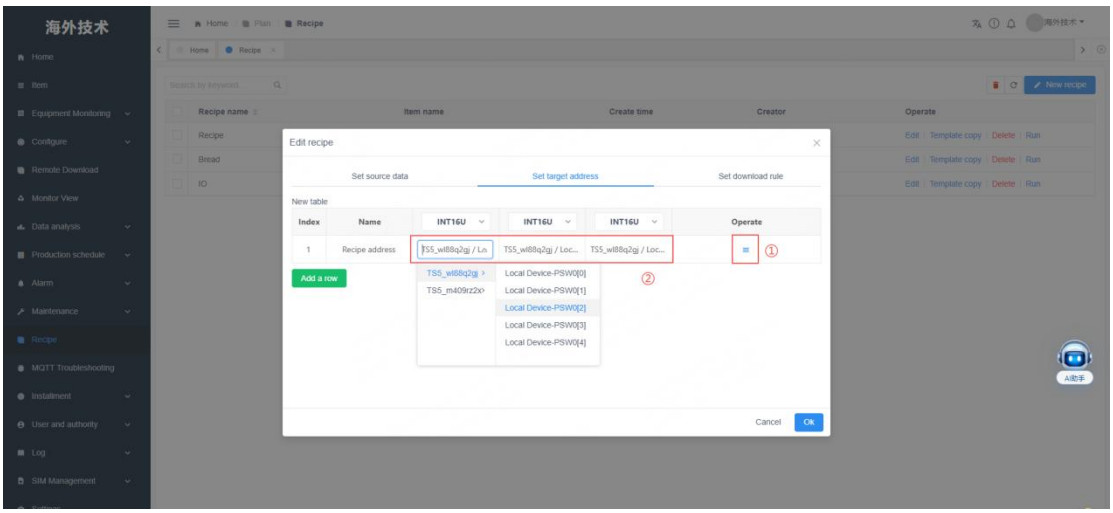
The configuration source data list is as follows:



NO.	Name	Function Declaration
①	Data Type	Click You can insert or delete a row; after adding a column, first edit the name (required) and then configure the data type (required).
②	Index Name	Specify the exact meaning of each line of data; when deploying the rules, you can search for the formula's starting line by editing its name.
③	Data Content	Edit the specific formula data; store the data in a cloud-based database for security, stability, and reduced risk of loss.

14.3 Configure Target Address

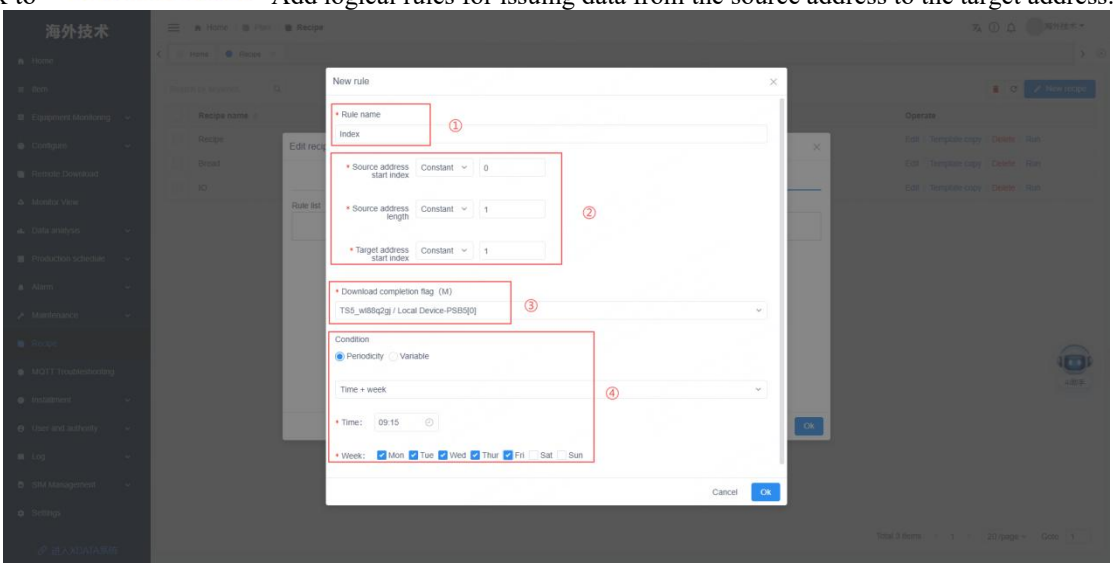
Click to Set target address configure the target address, which is the variable register data point that needs to be written to the source address data.



NO.	Name	Function Declaration
①	Add Row	Since the columns of the source address table have already been configured, it is only necessary to increase the number of rows for the target address.
②	Bind and distribute data points	The target address point for binding source data distribution.

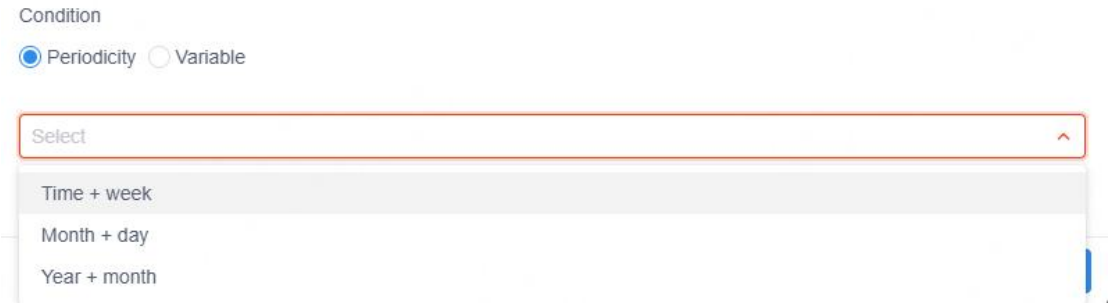
14.4 Configure Distribution Rules

Click to Set download rule Add logical rules for issuing data from the source address to the target address.

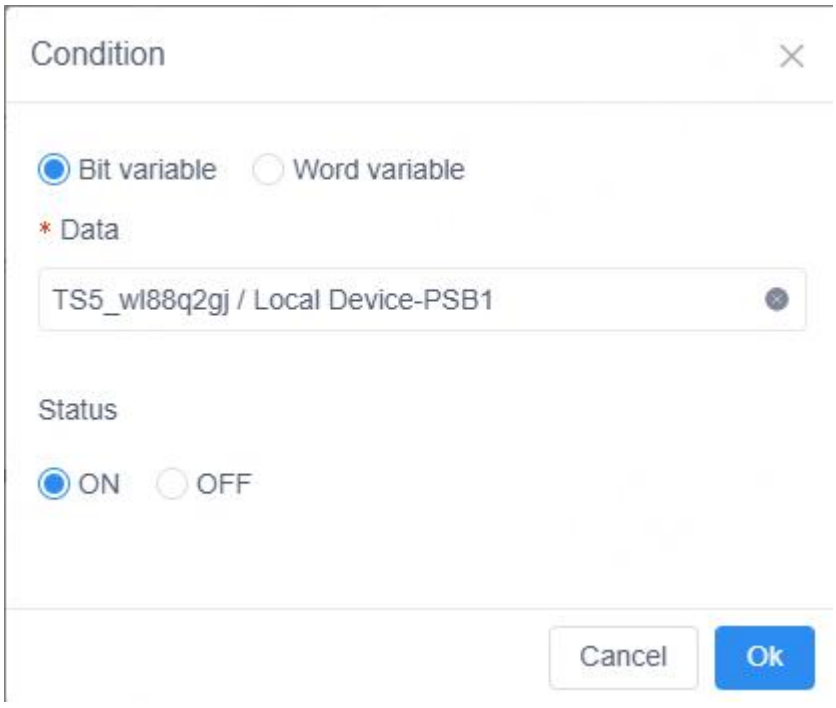


NO.	Name	Function declaration
①	Rule Name	Name this rule, for example: morning shift production, circular production, etc. Custom.
②	Source address starting index	Which is the starting point of the configured source address.
	Source address length	How many entries are issued from the starting index.
	Starting index of target address	What is the starting point of the target address issued.

③	Issue the completion flag	Once the formula has been successfully issued, the platform sets the flag to ON, enabling the system to proceed with the next step and preventing equipment production scrap caused by a failed issuance.
④	Configuration Settings	Periodicity: The time point for issuance can be specified. (As shown in Figure A) Variable: The output can be triggered when a variable condition is met, for example, when the coil is ON/OFF, or when the register value satisfies the condition specified by the test operator. (As shown in Figure B)



Graph A



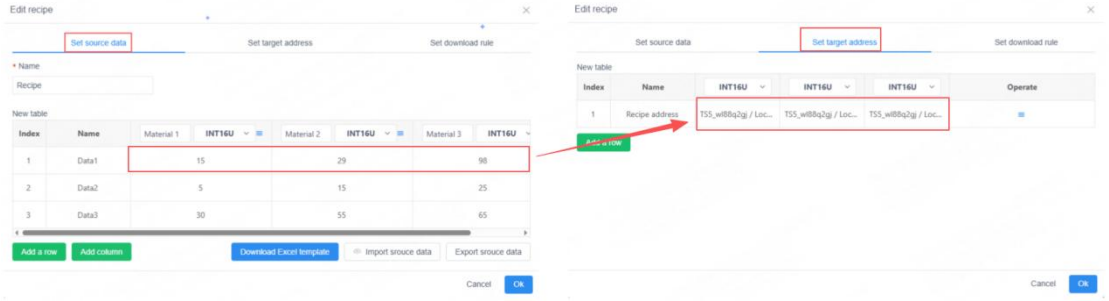
Graph B

Example l: Target address start index configuration: constant, l

Source address length: Configuration: constant, l

Target Address Starting Index Configuration: Constant, l

When the Conditions Are Met at This Point, the Data in the First Row of the "Configuration Source Data" Field Will Be Sent to the Register Configured in the First Row of the "Configuration Target Address" Field.

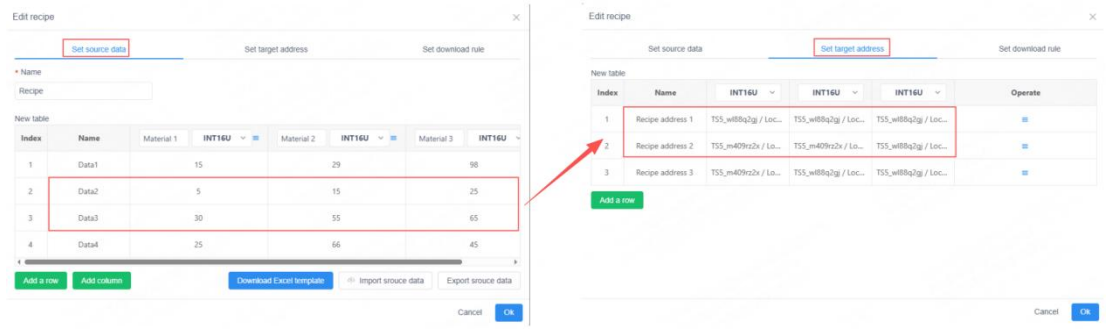


Example 2: Target address starting index configuration: constant, 2

Source address length: Configuration: constant, 2

Target address start index configuration: constant, 1

When the conditions are met at this point, the data in rows 2–3 of the "Configuration Source Data" field will be sent to the registers configured in rows 1–2 of the "Configuration Target Address" field.

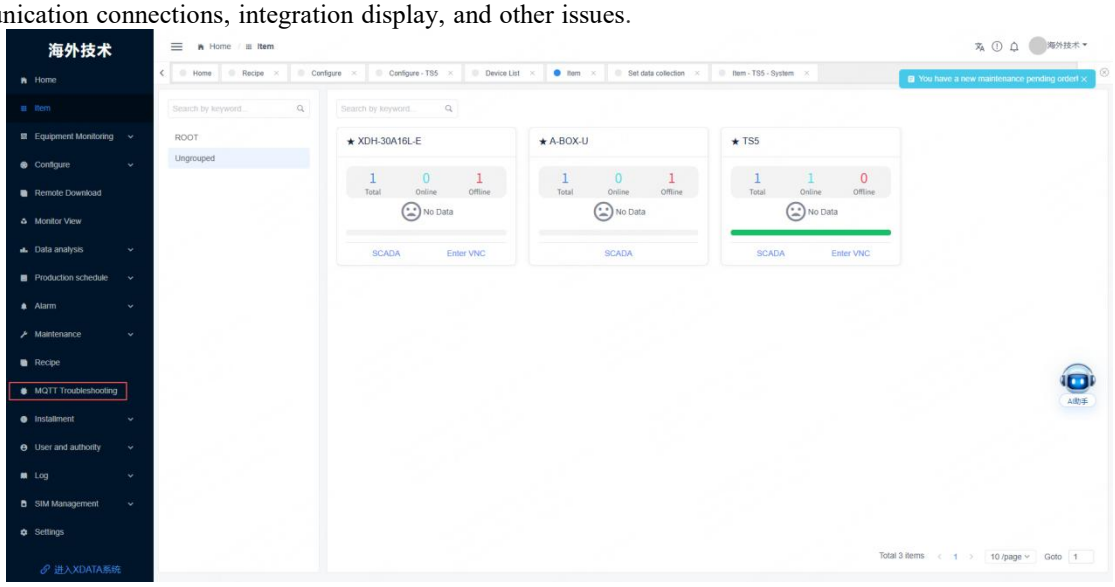


Example 3: When the source address, origin address, and destination address are bound to variables, the value of the register is used as a condition to implement the dispatch of the source address to the destination address.

Note: If the variable bound to the starting index of the target address is of the "Chinese character" type, filter the index name.

15. MQTT Communication Failure

Helps customers complete secondary development for the MQTT protocol, making it easier to troubleshoot communication connections, integration display, and other issues.



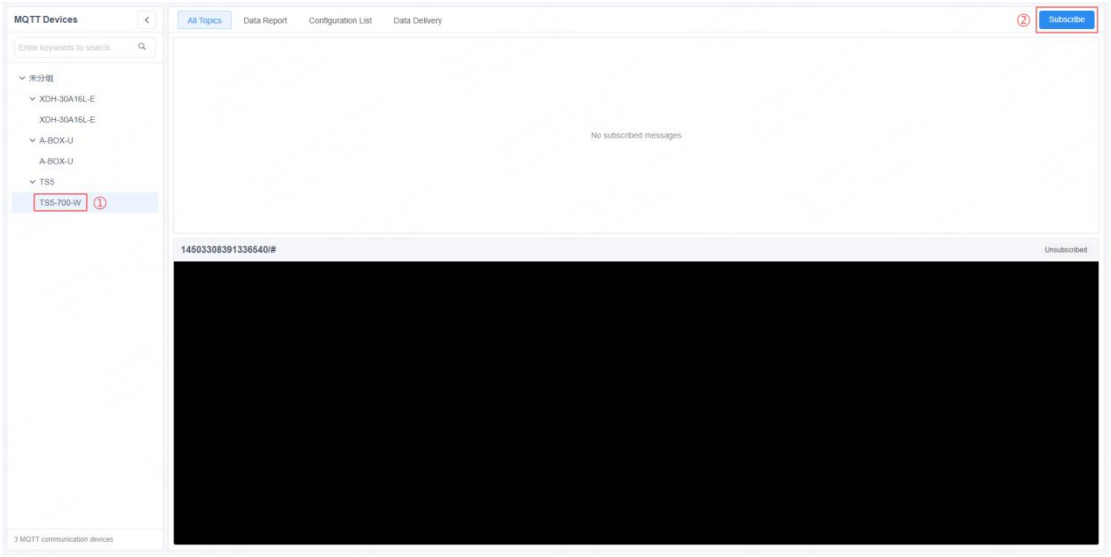
15.1 Subscribe

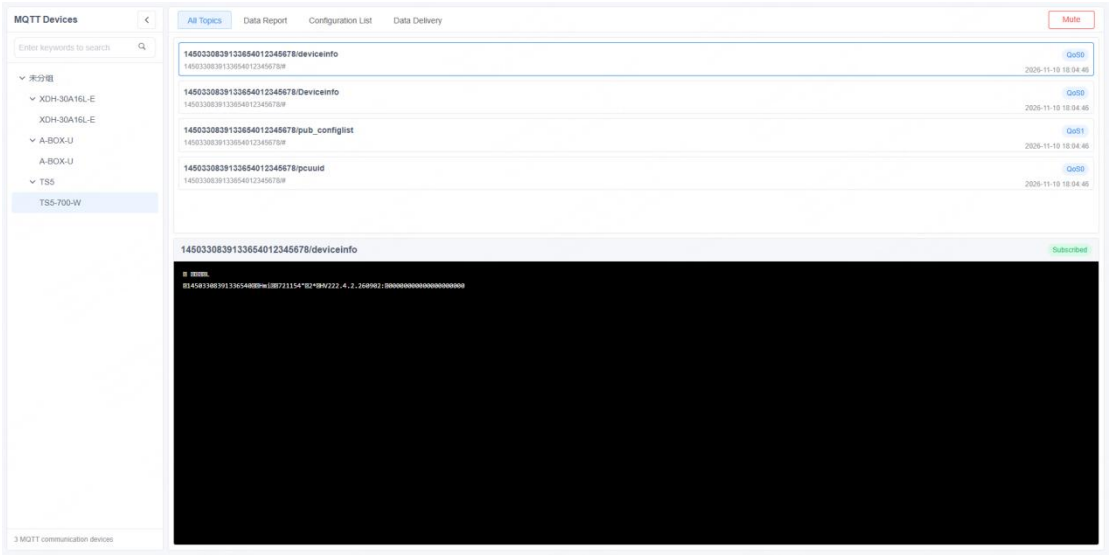
Once you have accessed the MQTT communication fault page, you can search for projects and devices in the left sidebar. Select a topic, then click "Subscribe"; clicking "Silent" will stop the subscription, and all subscriptions will be automatically disconnected after the webpage is closed.

Taking the TS5-700-E as an example:

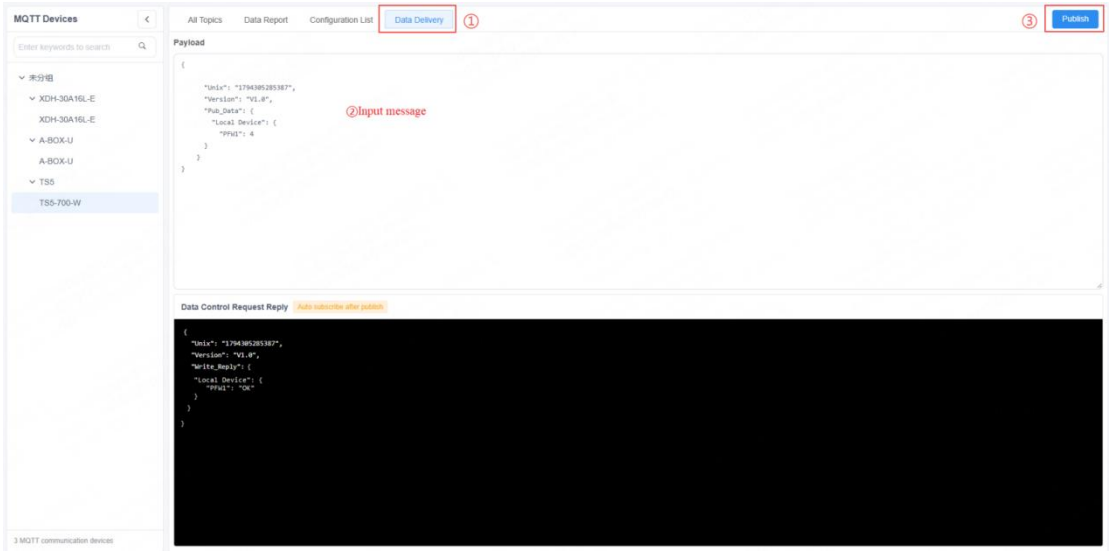
1、After completing the network configuration for the TS5-700-E, add the new device to the cloud platform project, enter parameters such as the device name, TS5-700-E device ID, and password, and place a numeric control [PSW0] on the screen display.

2、Navigate to the "MQTT Communication Failure" page in the cloud platform, select the name of the device you want to debug, and click "Subscribe."





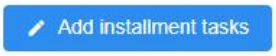
3、When sending data to the TS5 display, the correct message format must be entered; otherwise, clicking "Publish" will prompt: " Please enter valid JSON." For a detailed explanation of MQTT messages, refer to Chapter 8-6-5 of the TS display user manual, "TouchWin Pro Editing Software User Manual".



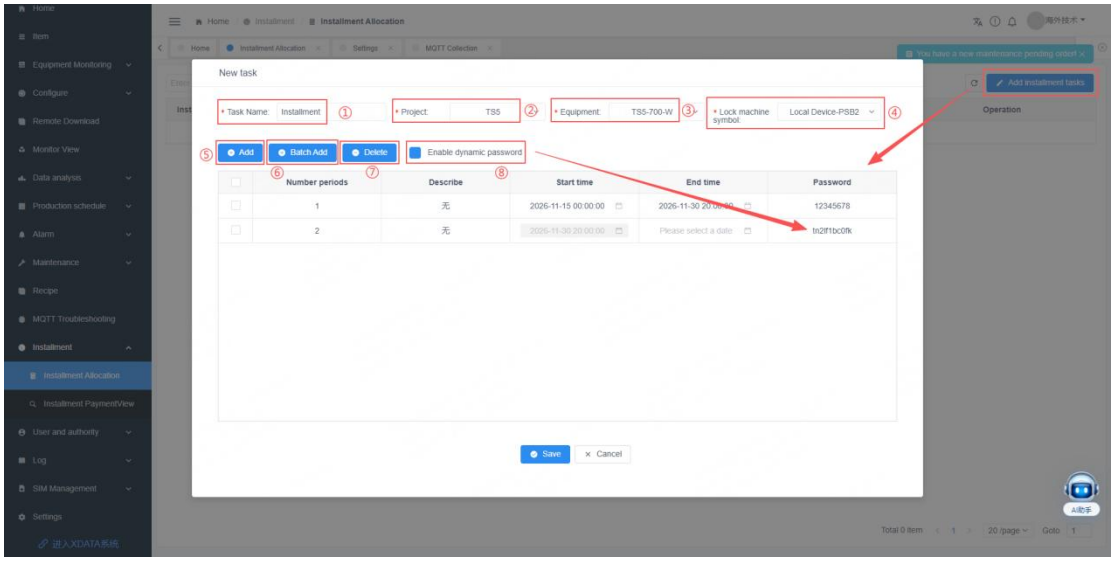
16. Installment Configuration

Add installment task → Installment period expires without unlocking → Set the device lock flag to ON → The program uses this flag together with the gateway communication flag and gateway connection flag to lock the device → The customer enters the current period's unlock password → The device lock flag is automatically set to OFF → The device can operate normally.

16.1 Installment Configuration

Add installment tasks in the installment configuration section to lock devices. Click to 

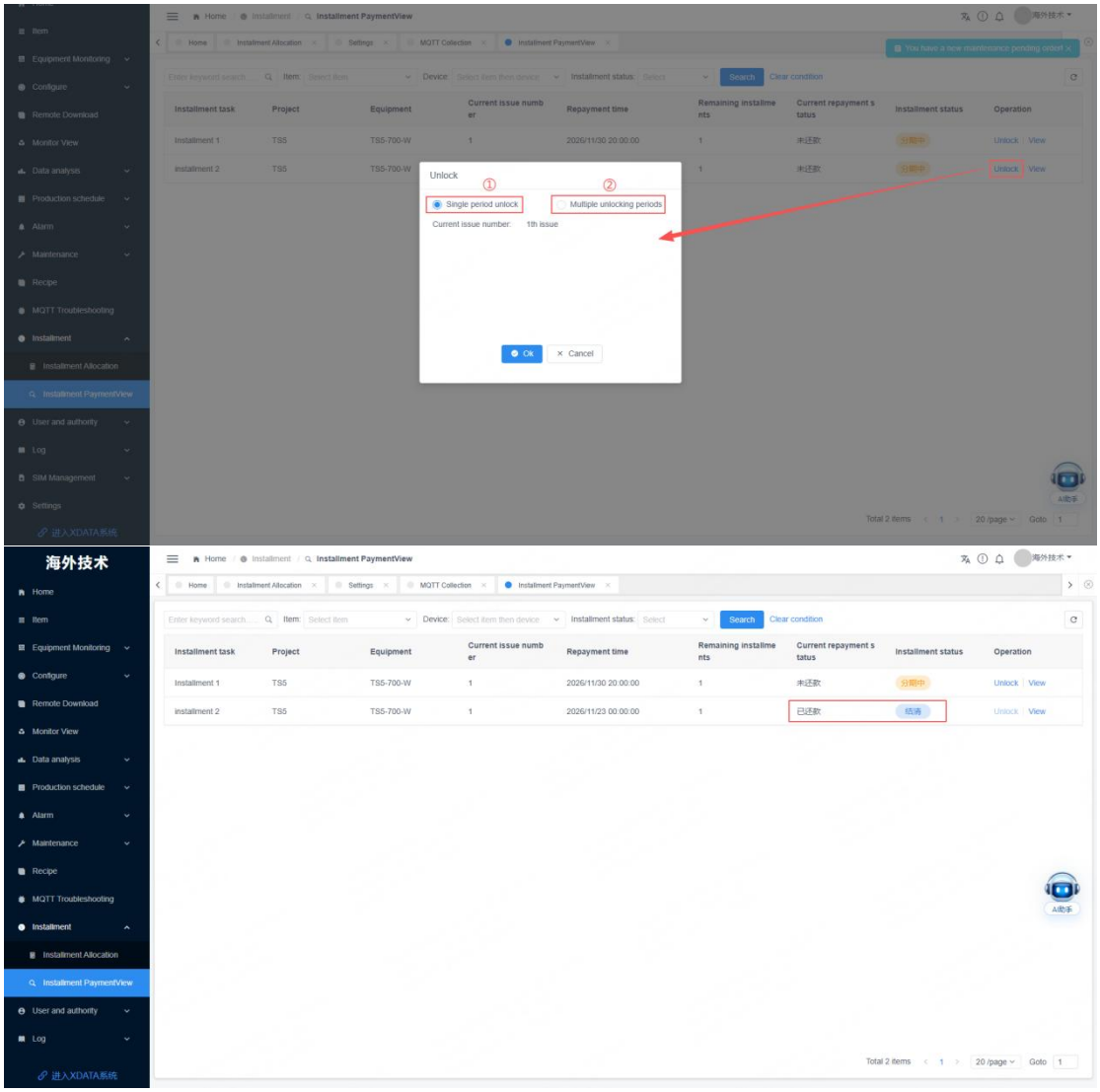
create installment tasks.



NO.	Name	Function Declaration
①	Task Name	Edit the installment task name.
②	Project selection	Select a installment plan.
③	Equipment selection	Select equipment that requires installment payments.
④	Device Lock Indicator	A boolean variable; if it remains unlocked upon expiration, this flag will be set to ON.
⑤	Add	Add a single-cycle lockout duration.
⑥	Batch Add	You can add the device locking duration for multiple sessions.
⑦	Delete	Select the number of installments to perform the deletion operation.
⑧	Dynamic password	When checked, installment plans can be added individually or in bulk; the password will be generated automatically.

16.2 View in Installments

Used for customers to unlock their devices for use.



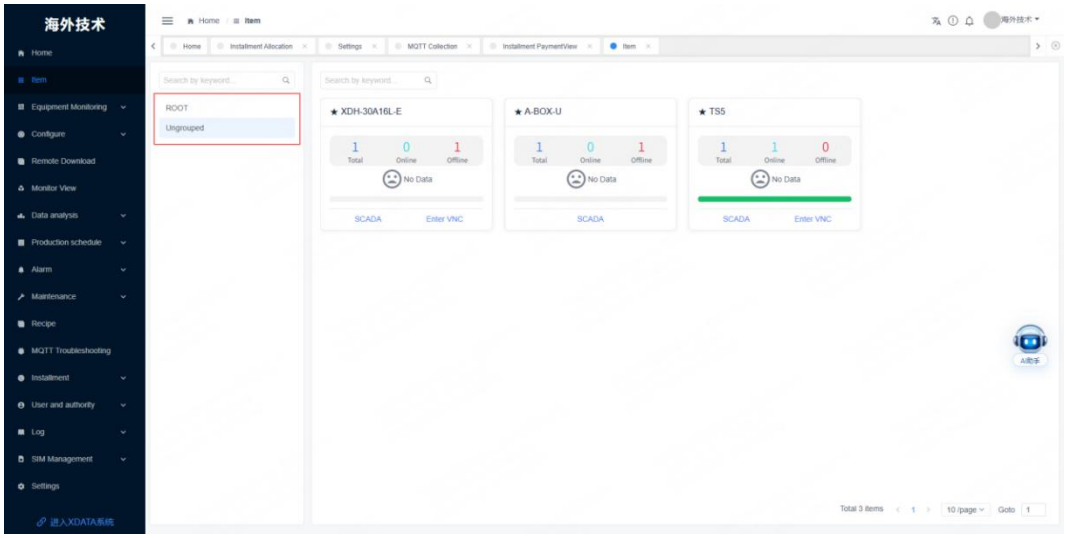
NO.	Name	Function Declaration
①	Single-session unlock	This can unlock the current quest.
②	Multi-stage Unlock	Multiple installment phases can be unlocked; to unlock up to Phase 8, simply select "Unlock up to Phase 8."

- When the overdue multiple-installment status/installment plan only allows customers to unlock additional installments.
- Please stay tuned for the mobile version.

17. Users and Authorization

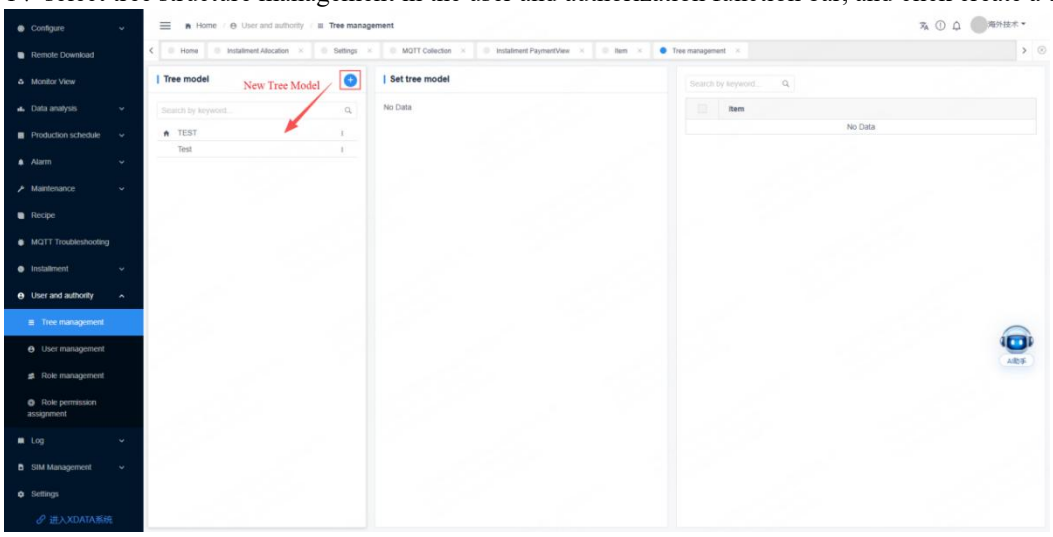
17.1 Project Grouping

Each account can create multiple tree models; you can designate one as the main tree, and when viewing projects, you can filter and view them according to the tree you have configured.

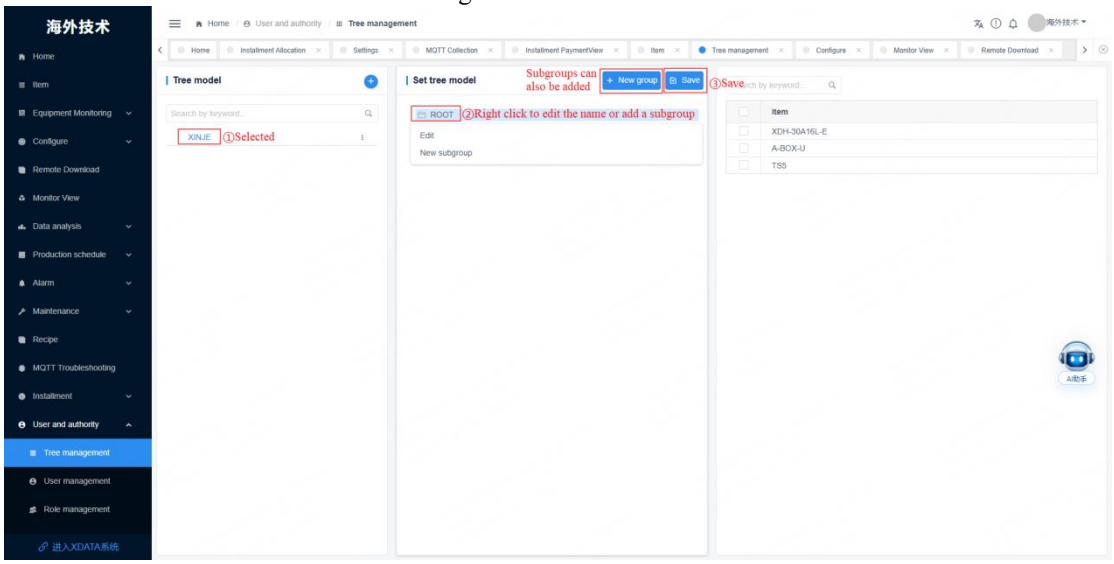


17.1.1 Creating and Using Trees

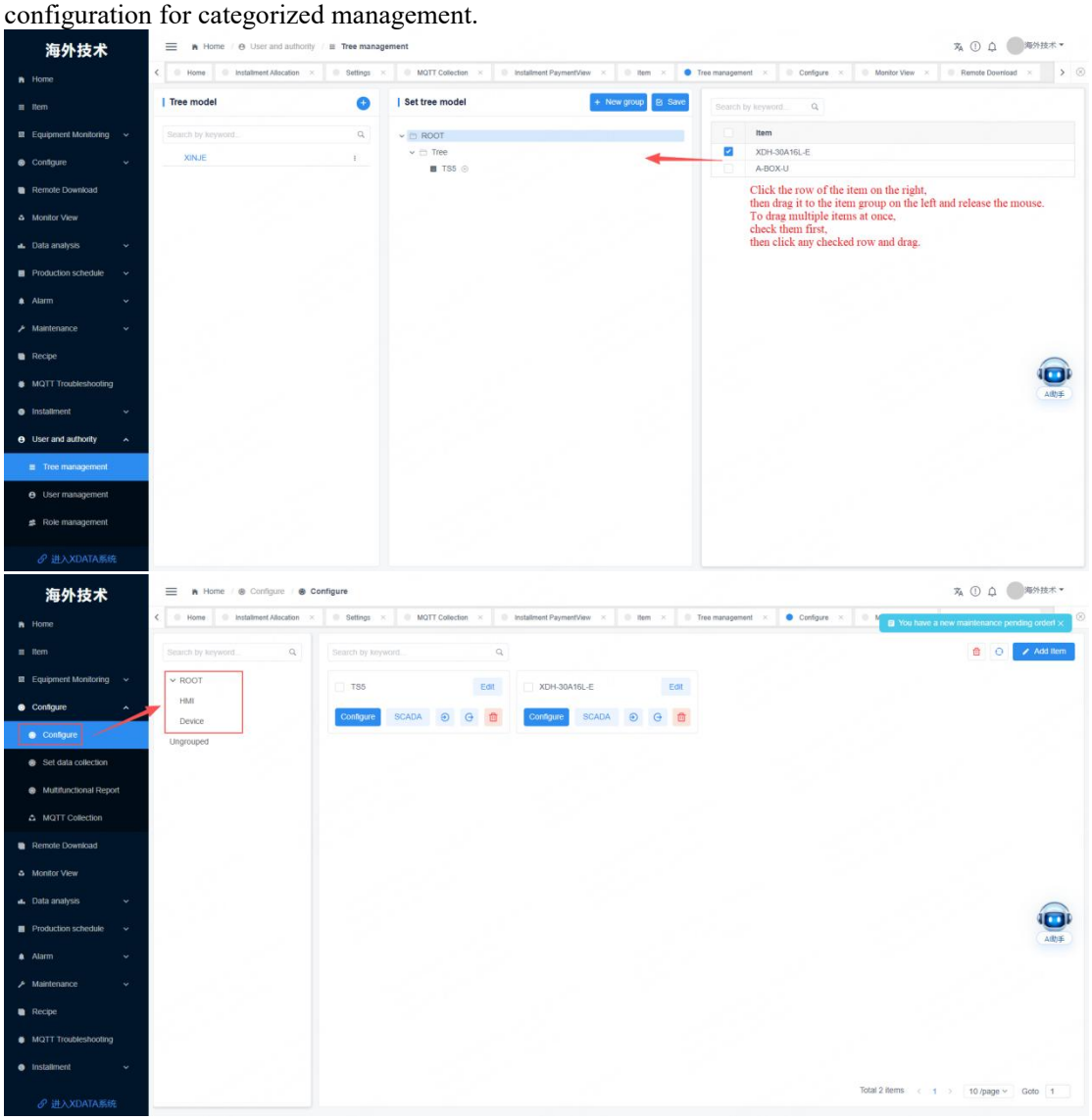
1、select tree structure management in the user and authorization function bar, and click create a tree model.



2、Select the created tree model and configure it.



3 、 Select the item in the right-hand section, left-click and drag it to the node in the tree model configuration for categorized management.



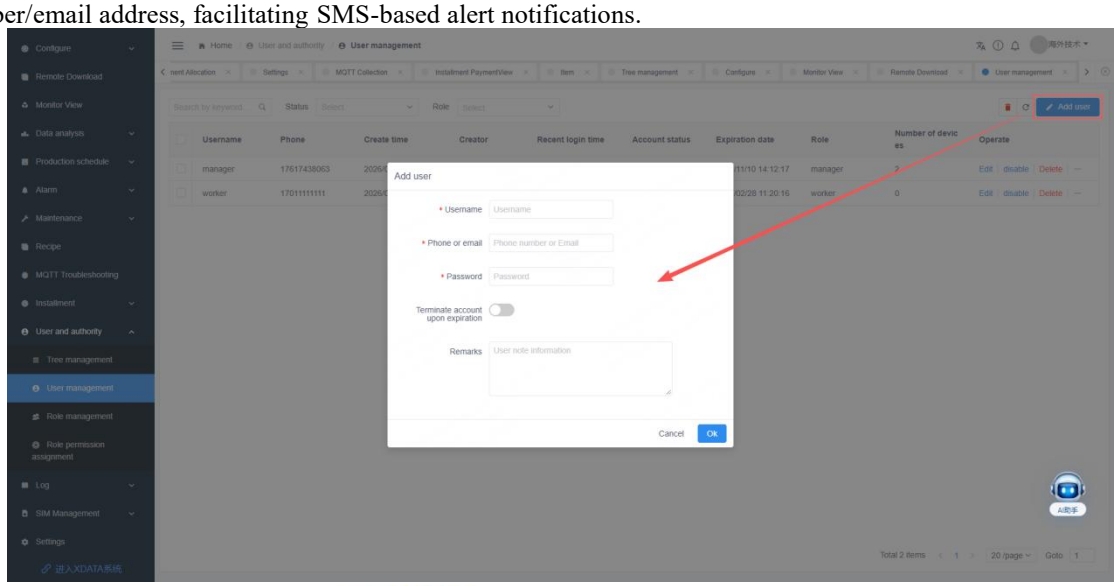
17.2 User Management

User management displays all sub-users managed under the current account. An account registered and logged in using a mobile phone number or email address serves as the top-level root account; newly added users become subordinate accounts under that account. A parent account can delete, edit, assign roles to, and manage the assignment tree, as well as projects and project interfaces under the nodes of that tree.

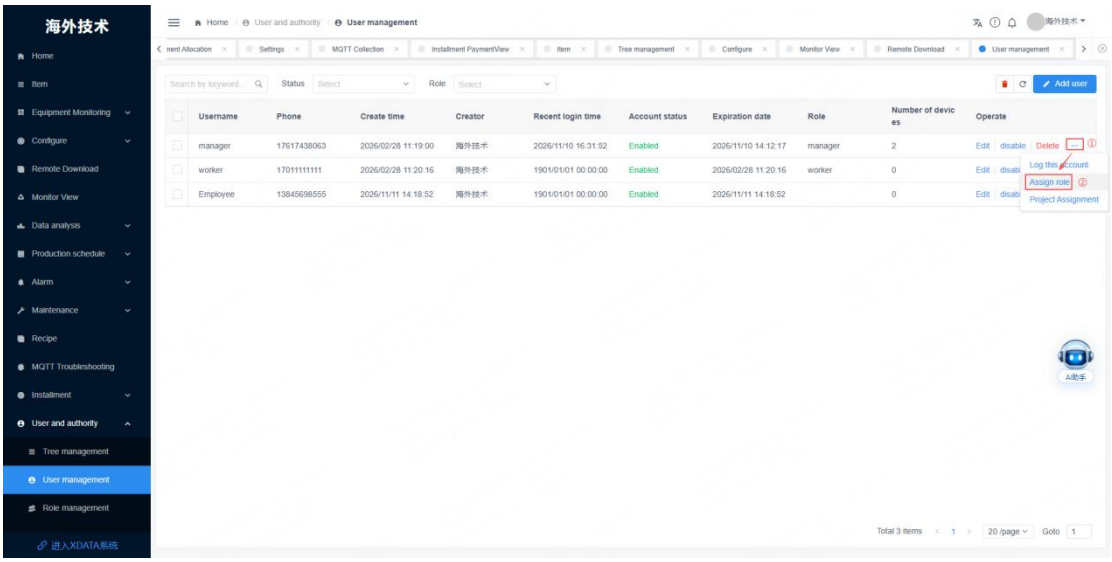
17.2.1 User Creation

1 、 First, refer to 17.3 Role Management to create a new role; then refer to 17.4 Role Permission Assignment to assign permissions to the role.

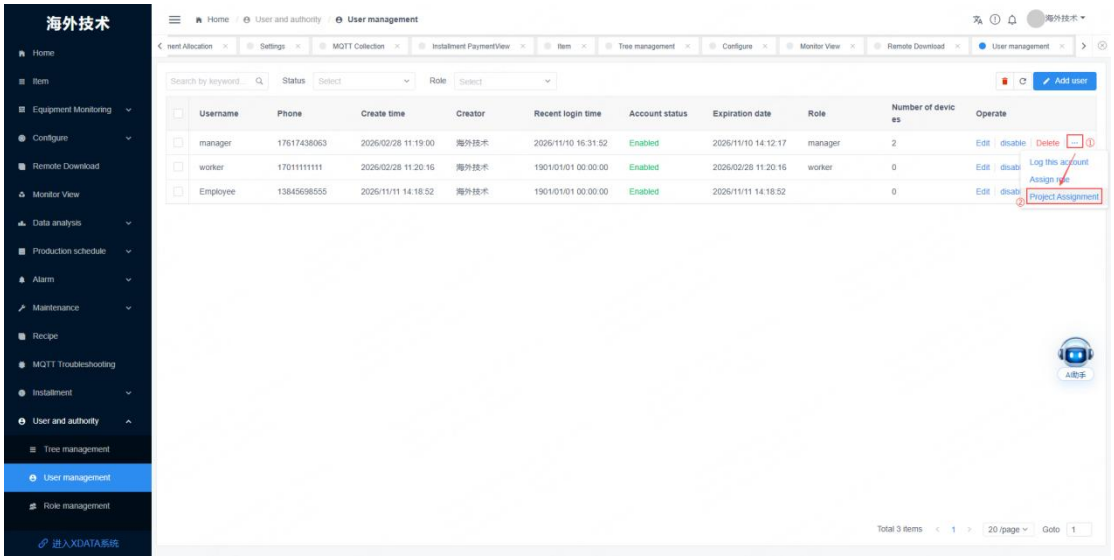
2 、 Click "Add New User Add user ",Create a user; the username will be linked to the mobile phone number/email address, facilitating SMS-based alert notifications.

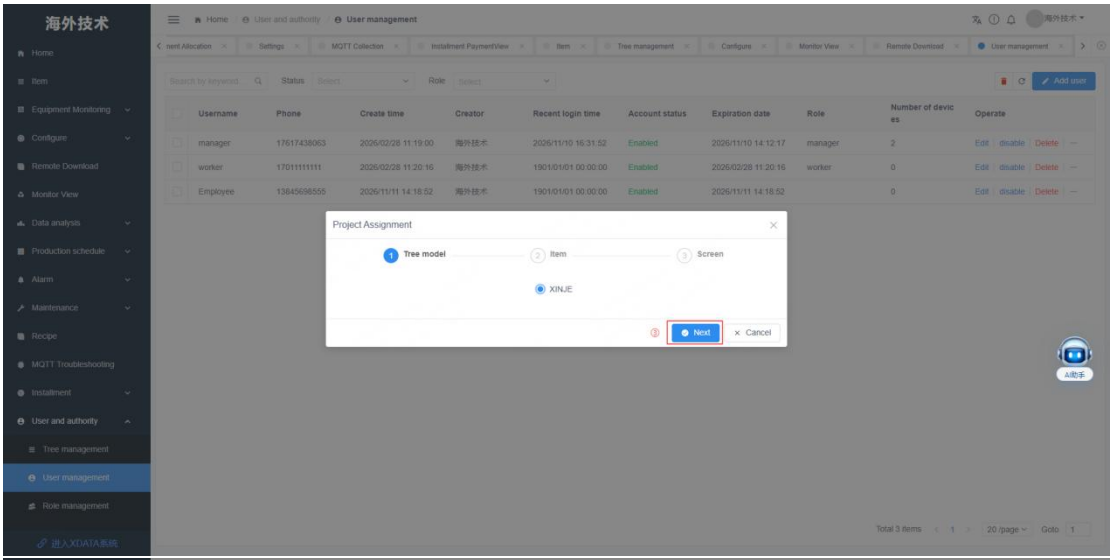


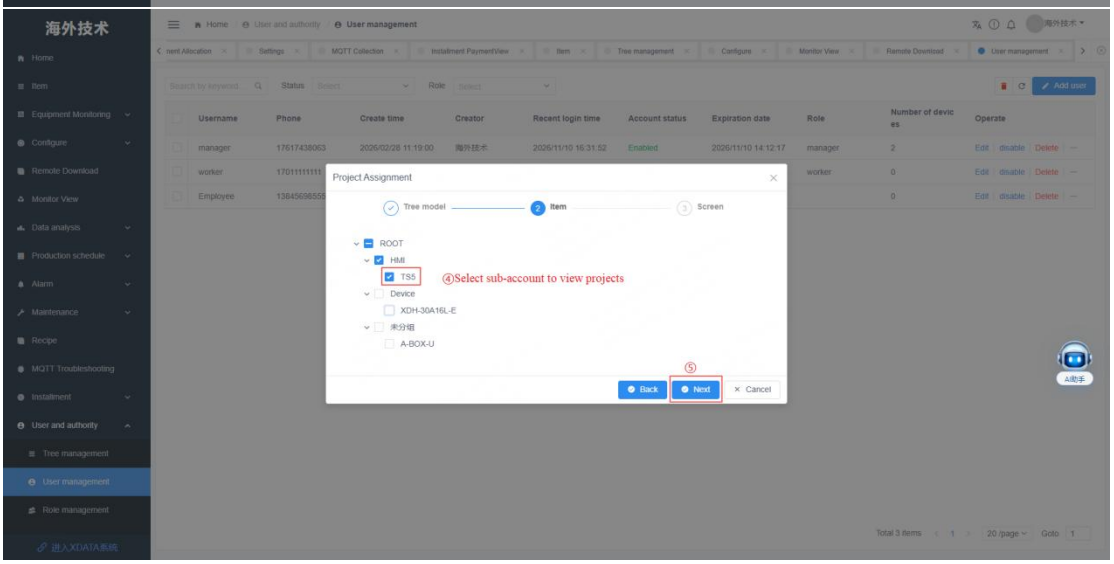
3 、 Click ••• Expand options Assign role The permissions associated with the role will be inherited by the user account.



4、 click ••• Expand option Project Assignment Select the tree model → select the project → select the view. After assignment, the created user can only view the assigned tree, project, and view.

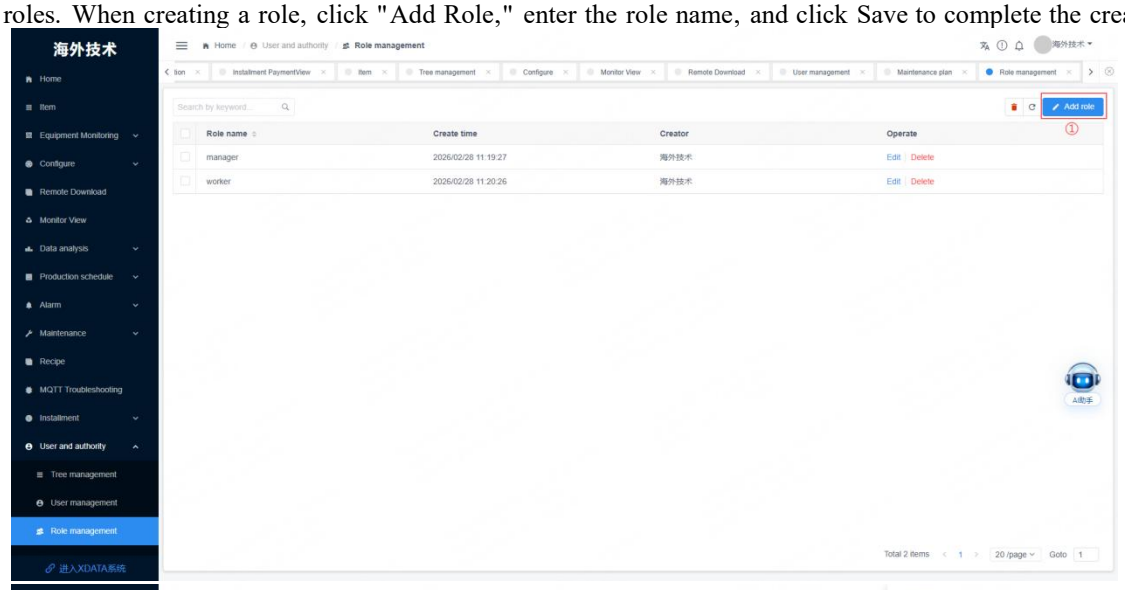


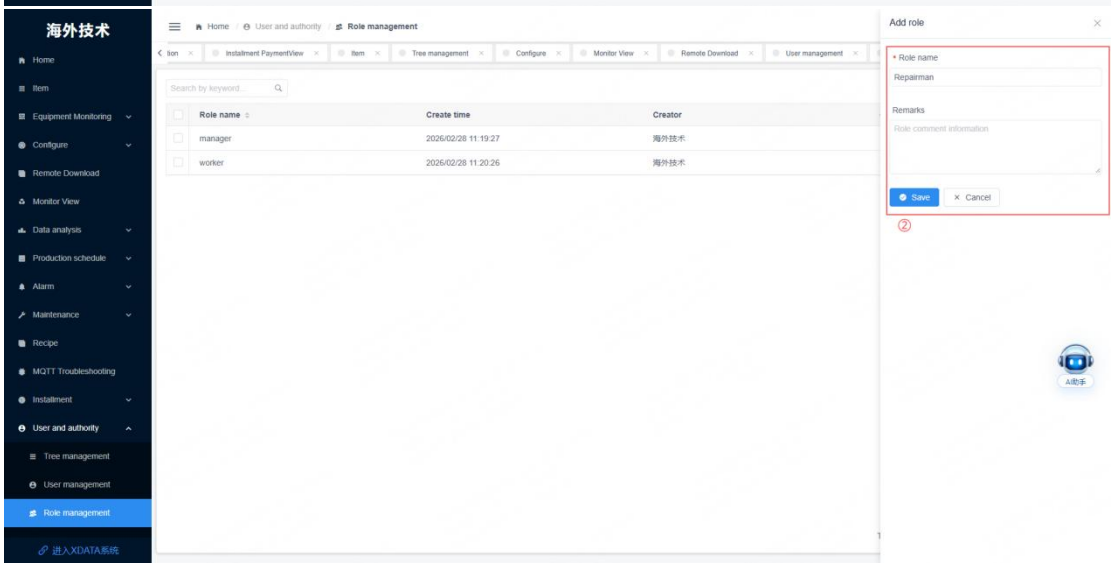

海外技术
Project Assignment
Tree model
Item
Screen
XINJE
Next
Cancel


海外技术
Project Assignment
Tree model
Item
Screen
ROOT
HMI
TS5
④Select sub-account to view projects
Device
XDH-30A16L-E
未分组
A-BOX-U
⑤
Back
Next
Cancel

17.3 Role Management

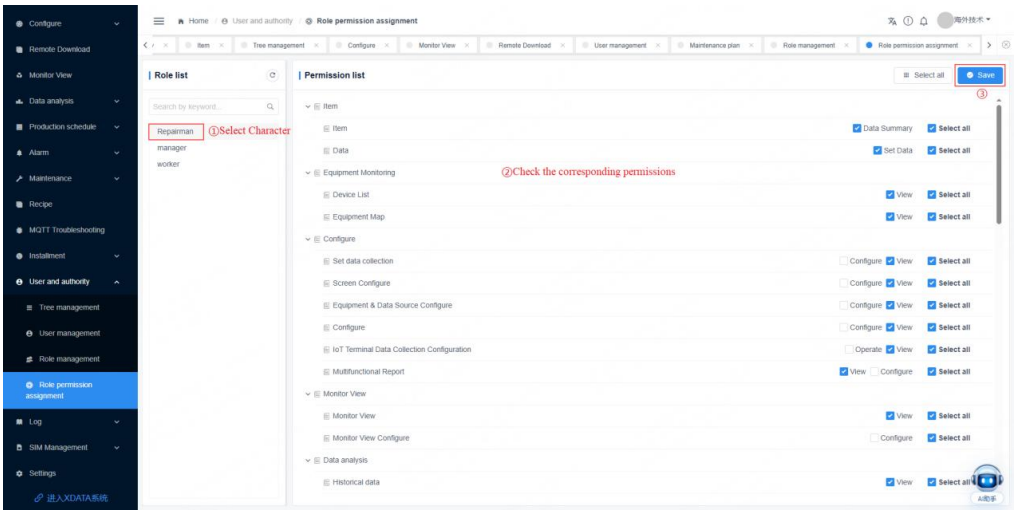
Used to create new roles for easier viewing. Users who have created the role can delete or edit the managed roles. When creating a role, click "Add Role," enter the role name, and click Save to complete the creation.





17.4 Role Permission Assignment

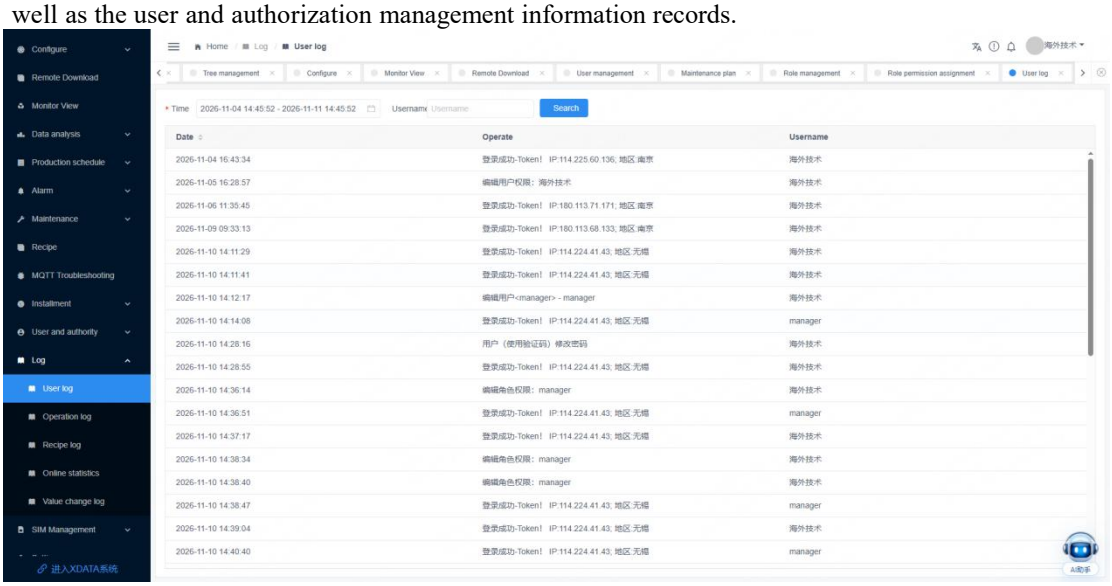
Role permission assignment: assign detailed view and operation permissions to all roles. Select a role, check the desired permissions, and click Save to complete the permission assignment for that role.



18. Log

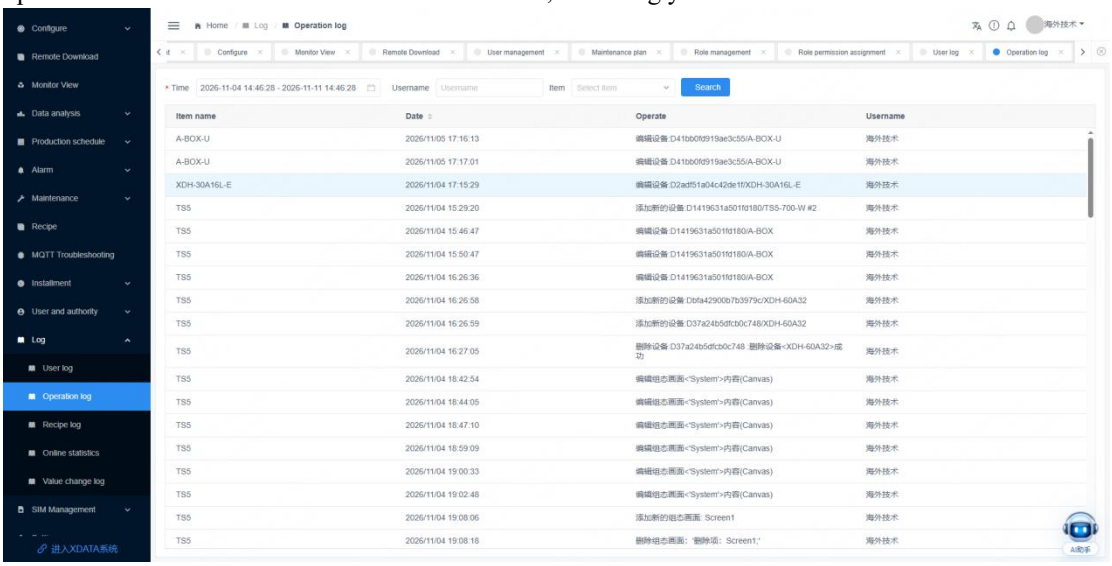
18.1 User Journal

Select the start and end times, enter the username, and click "Query" to view the login records of all first-level and second-level users, including this account (including the location associated with the login IP), as well as the user and authorization management information records.



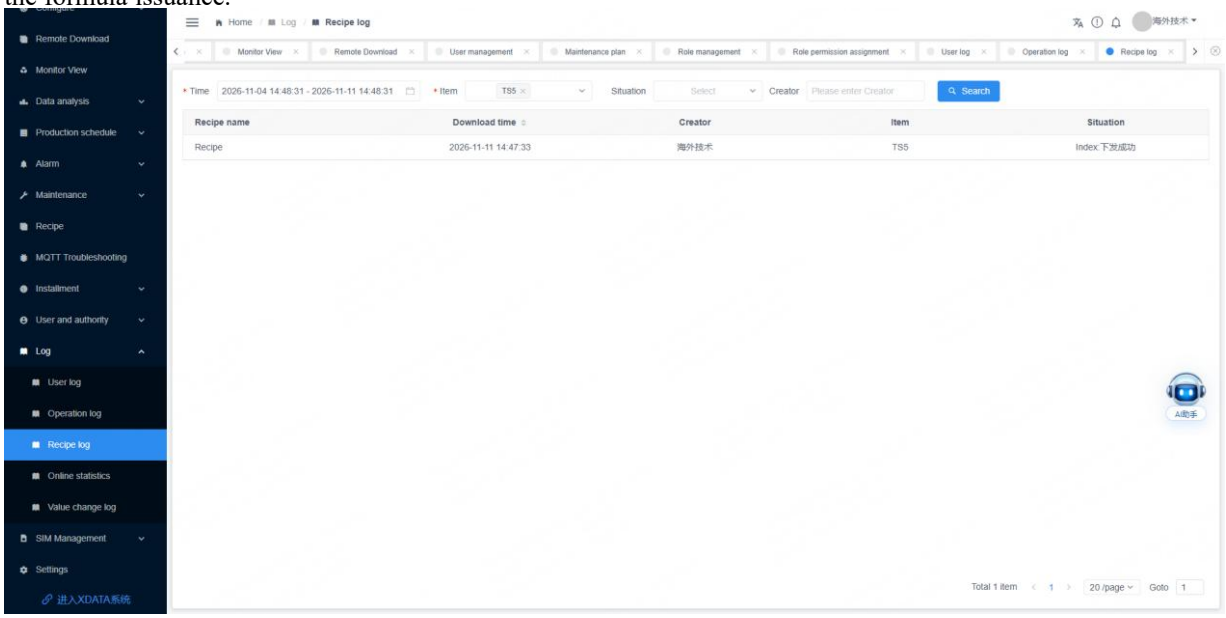
18.2 Operation Log

Select the start and end times, enter the username, and click "Query" to view the project equipment operation records for all Level 1 and Level 2 users, including yourself.



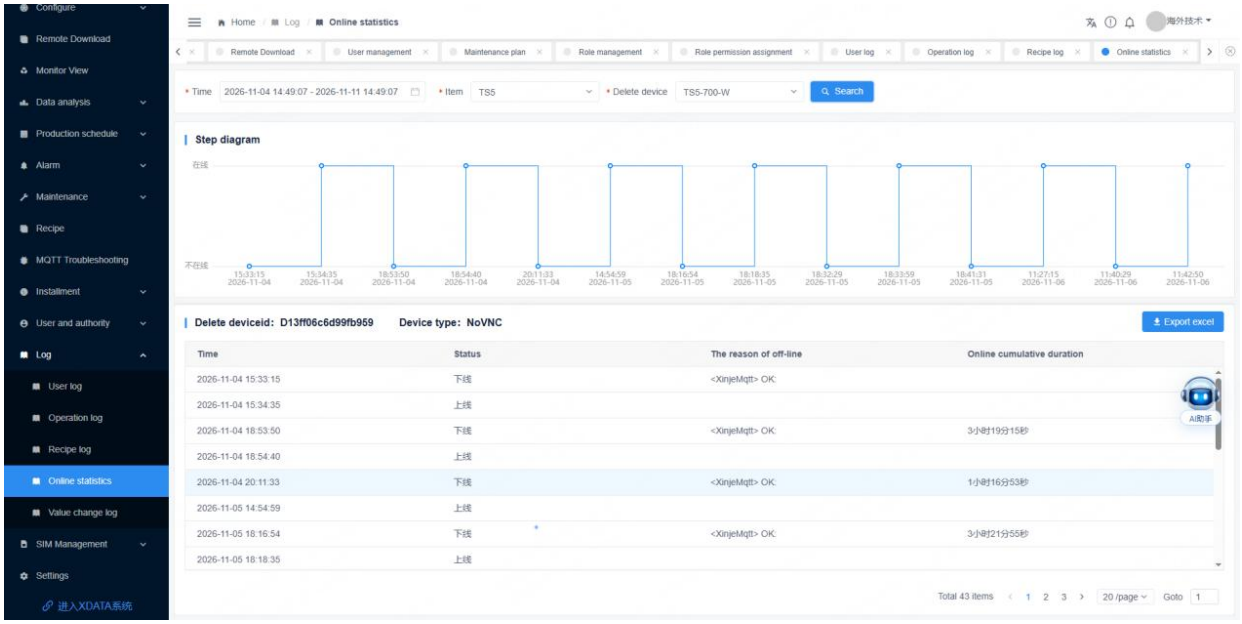
18.3 Recipe Log

Select the start and end times, project, issuance status, and creator (optional fields) to view the specific details of the formula issuance.



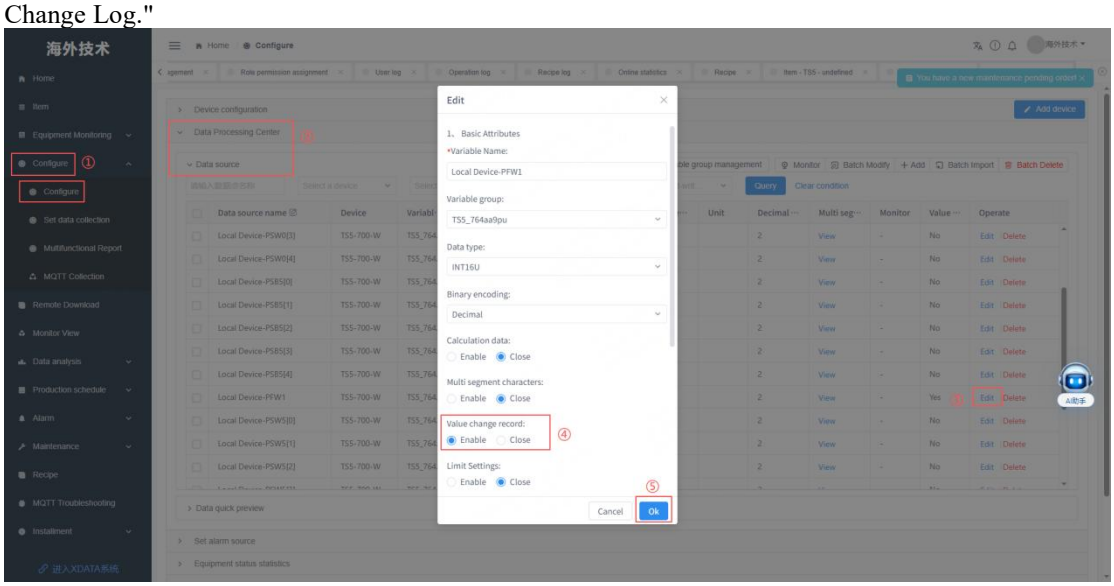
18.4 Gateway Logs

Select the start and end times and the project and device (single selection) to view the gateway device's status when it is offline.

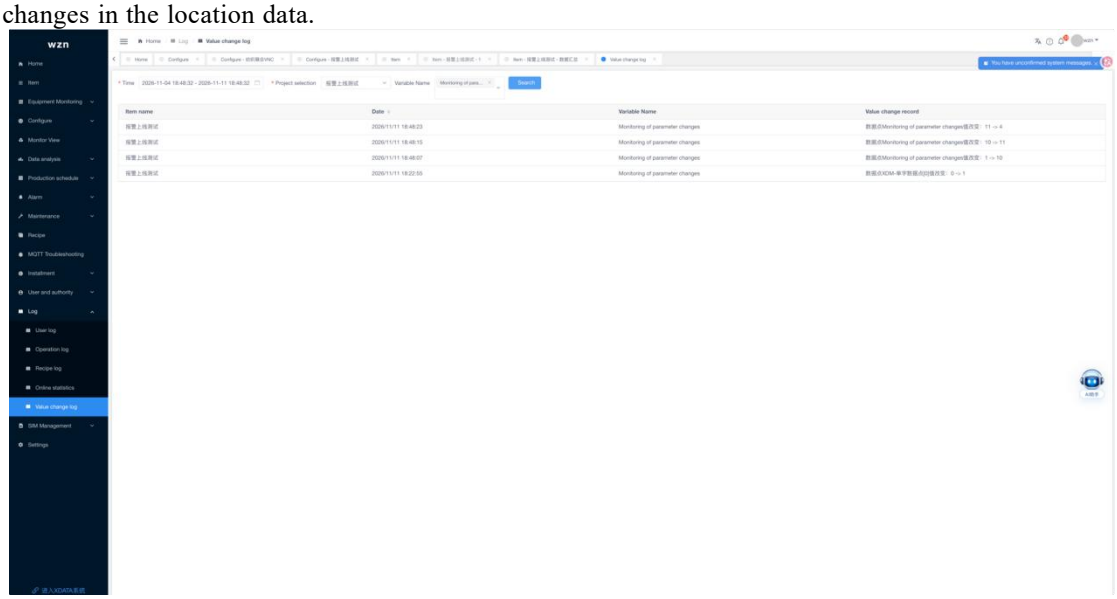


18.5 Value Change Log

Once data points have enabled "Value Change Logging," records of data changes can be viewed in the "Value Change Log."



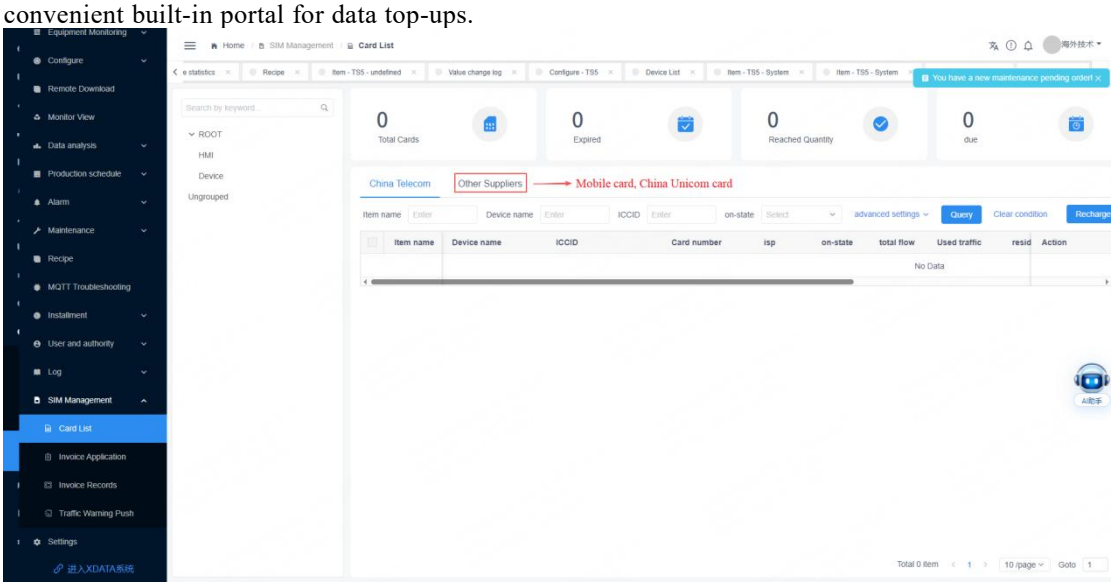
By selecting the start and end times, projects, and locations (multiple selections are allowed), you can view changes in the location data.



19. SIM Card Management

19.1 Card List

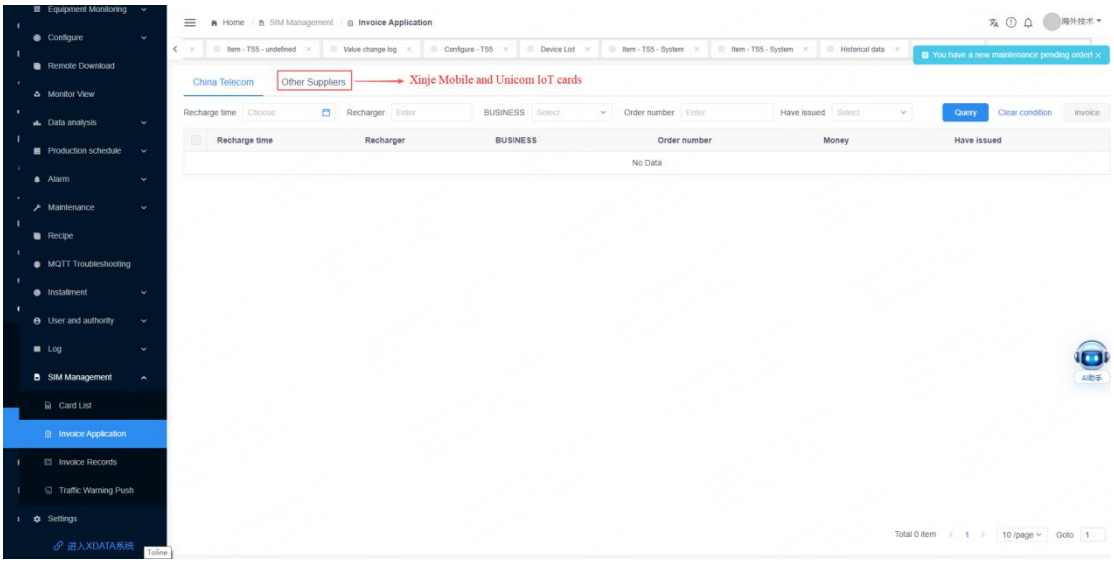
It supports the centralized management of all XINJE IoT cards on a cloud platform; target IoT cards can be filtered and queried across multiple dimensions, including project, bound device, and card number. It also enables online restoration of device operation and network connectivity, and includes a convenient built-in portal for data top-ups.



19.2 Invoicing Request

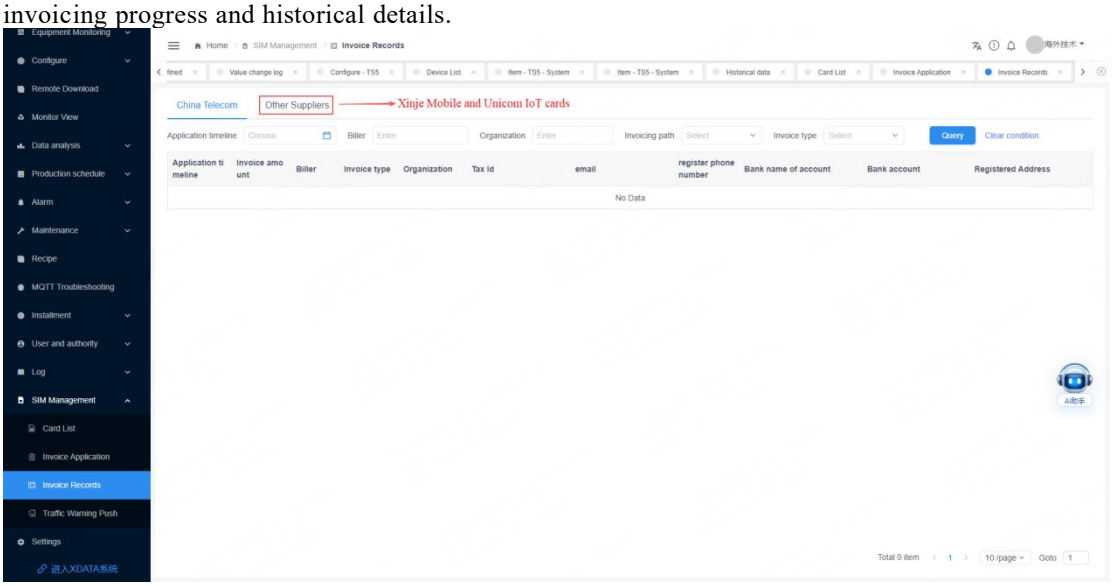
We provide invoicing services for XINJE IoT SIM card top-ups. Users can filter and search top-up records based on multiple criteria, including top-up timestamp, top-up user, service details, order status, and whether an invoice has been issued. Once the target record has been identified, click "Invoicing" to submit the request.

- China Mobile and China Unicom IoT cards: Once the invoice has been issued, the electronic invoice file will be sent directly to the email address linked to your account.
- Telecom IoT Card: After submitting an invoice request through the platform, our staff will proactively contact you to coordinate the subsequent invoice issuance process.



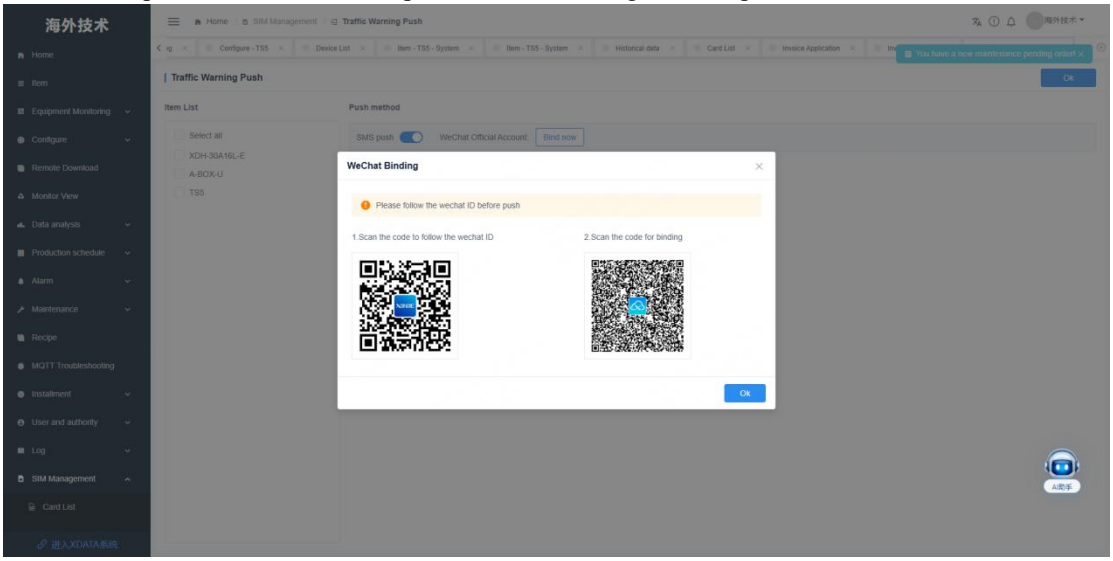
19.3 Invoicing Record

Support for querying XINJE IoT SIM card historical top-up and invoicing records; users can filter and search for target invoicing information across multiple dimensions, including application date, issuer, issuing entity name, invoicing channel, and invoice type, enabling convenient and rapid verification of invoicing progress and historical details.



19.4 Traffic Alert Push Notifications

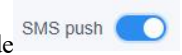
This feature enables users to set data usage alerts for XINJE IoT cards bound to specified project devices. When the remaining data on the IoT card reaches a preset threshold, the system automatically sends an alert notification to the associated contact; the notification can be delivered via SMS or an official WeChat public account message, allowing operations staff to monitor data usage in real time and complete top-ups in advance to prevent network interruptions from affecting device operation.



19.4.1 Mobile SMS Push Notifications

1、Select the desired item from the left-side item list, then click 

.

2、Select the right side 

.

19.4.2 Official Account Push Notification

1、Check the items in the left-side item list, then click 

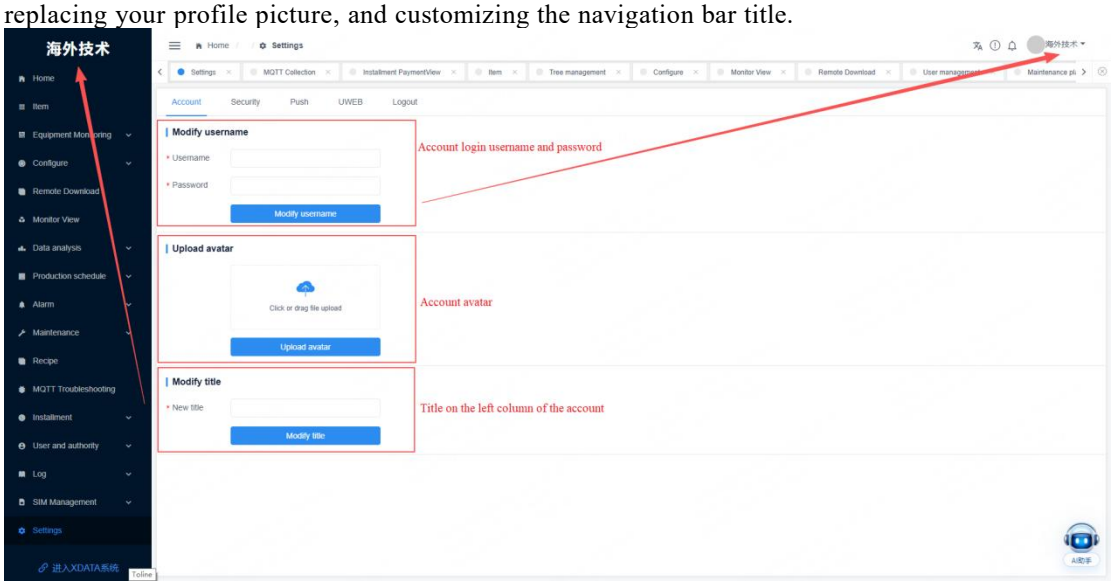
.

2、First, scan the QR code on the left via WeChat to follow the XINJE Electric official account; then, scan the QR code on the right to link the account and receive traffic alerts.

20. System Settings

20.1 Account

Manage your personal account's basic information and customize settings such as changing your username, replacing your profile picture, and customizing the navigation bar title.



20.1.1 Change Username

Enter a new username and password, then click the "Change Username" button to submit the change; after logging out of the account, log in again using the new username.

20.1.2 Account Profile Picture

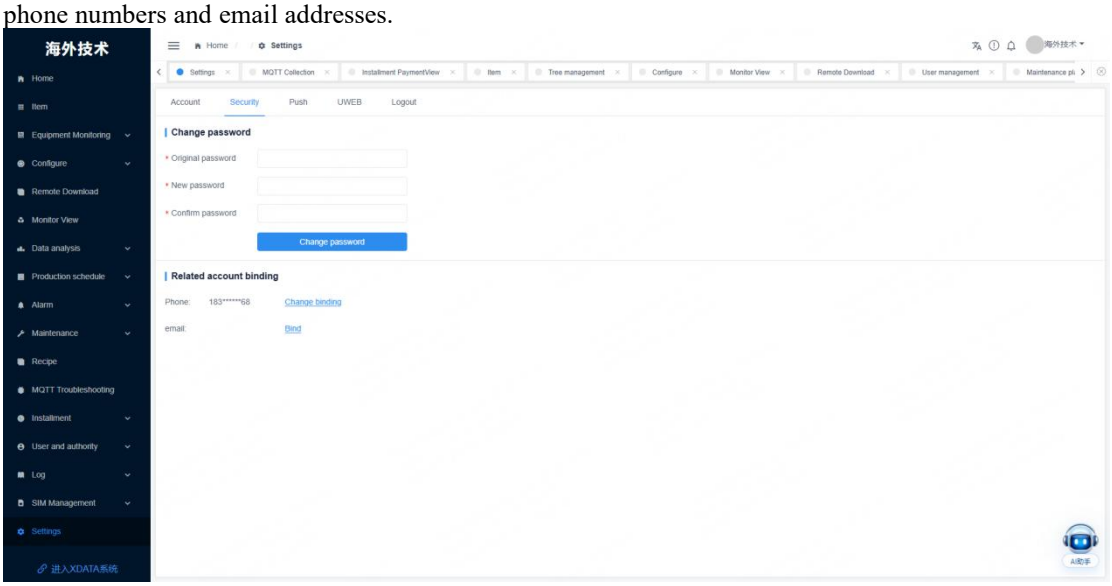
Click the upload area to select a local image, or simply drag and drop the image into the designated area to preview it; once you have confirmed that the image is correct, click "Upload Profile Picture" to complete the change to your account profile picture.

20.1.3 Edit Title

Enter the custom text content, confirm the content, and then click the "Edit Title" button to change the title displayed in the navigation bar on the left side of the page.

20.2 Safe

Ensure account login security; support password changes; and provide binding and unbinding of mobile phone numbers and email addresses.



20.2.1 Change Password

After navigating to the "System Settings" → "Security" page, enter your original password and new password as required, then confirm the new password. Once you have verified that the information is correct, click "Change Password" to complete the update; after the change is complete, your account will automatically log you out, and you will need to log in again using the newly set password.

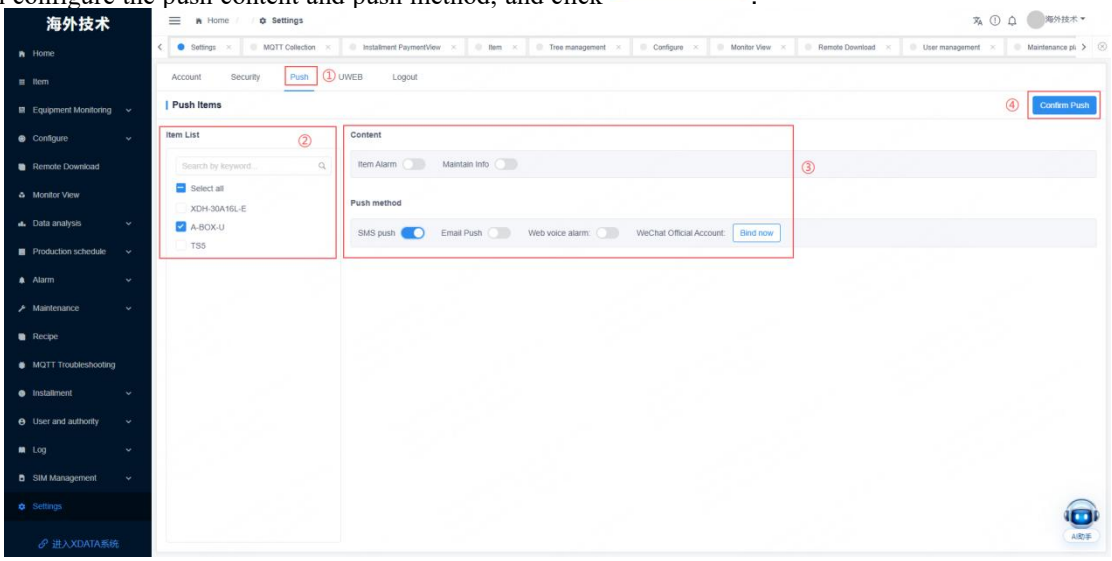
20.2.2 Bind Related Accounts

You can link a mobile phone number or email address to your current account; you can also change the linked mobile phone number or email address, which helps improve account security and makes it easier to recover your account or receive system notifications in the future.

20.3 Push

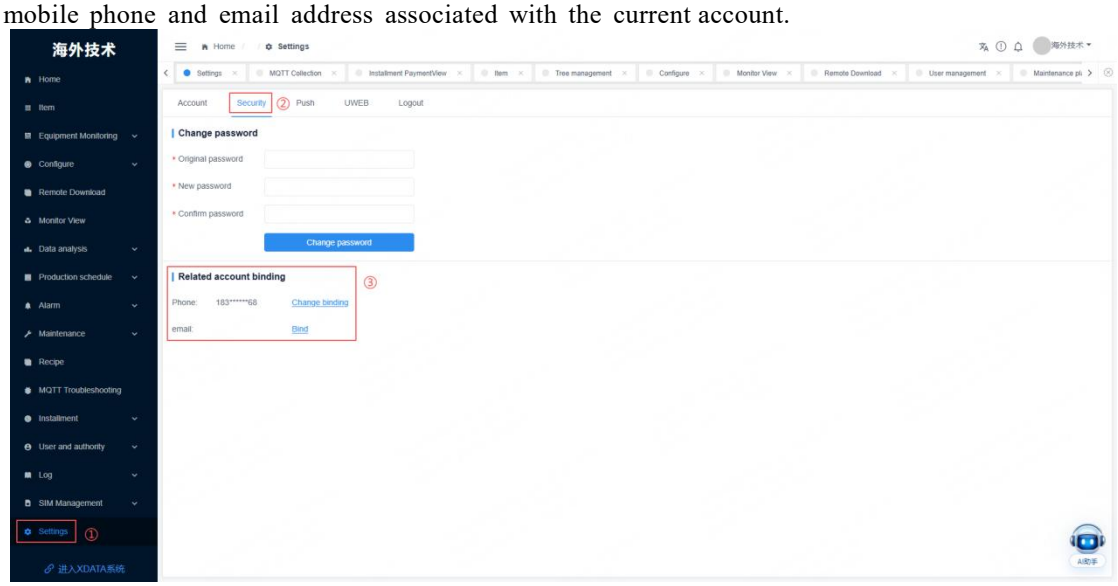
After configuring the alarm content in "Project Configuration" → "Alarm Source Settings," first select the project on the "System Settings" → "Push" page,

Then configure the push content and push method, and click Confirm Push .



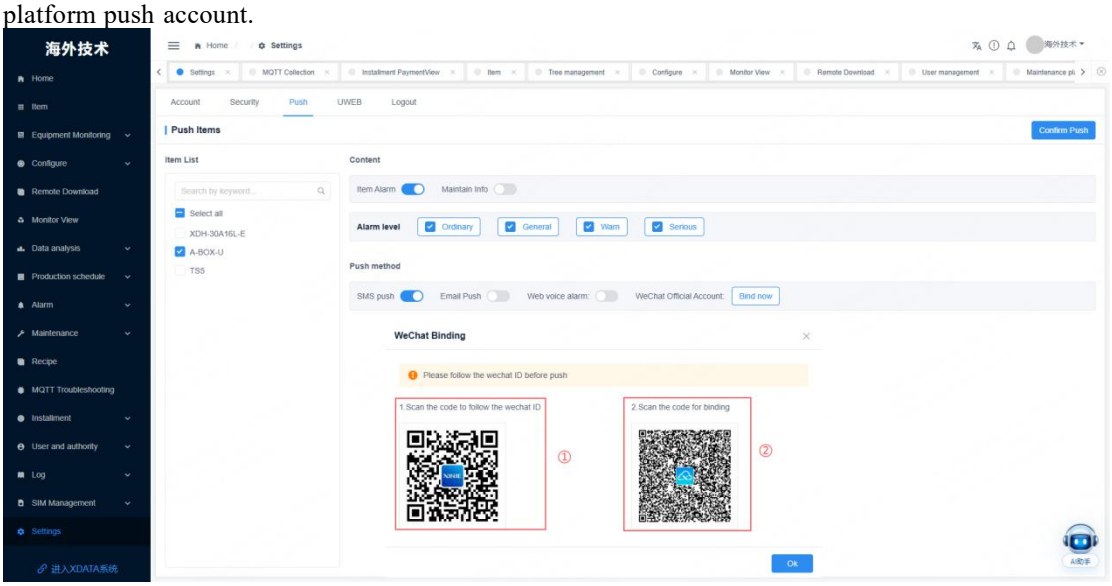
20.3.1 SMS and Email Push

When an alarm is triggered or maintenance information is generated for a project, the SMS will be sent based on the relevant settings; both the mobile SMS and email notifications will be delivered to the mobile phone and email address associated with the current account.



20.3.2 WeChat Official Account Push

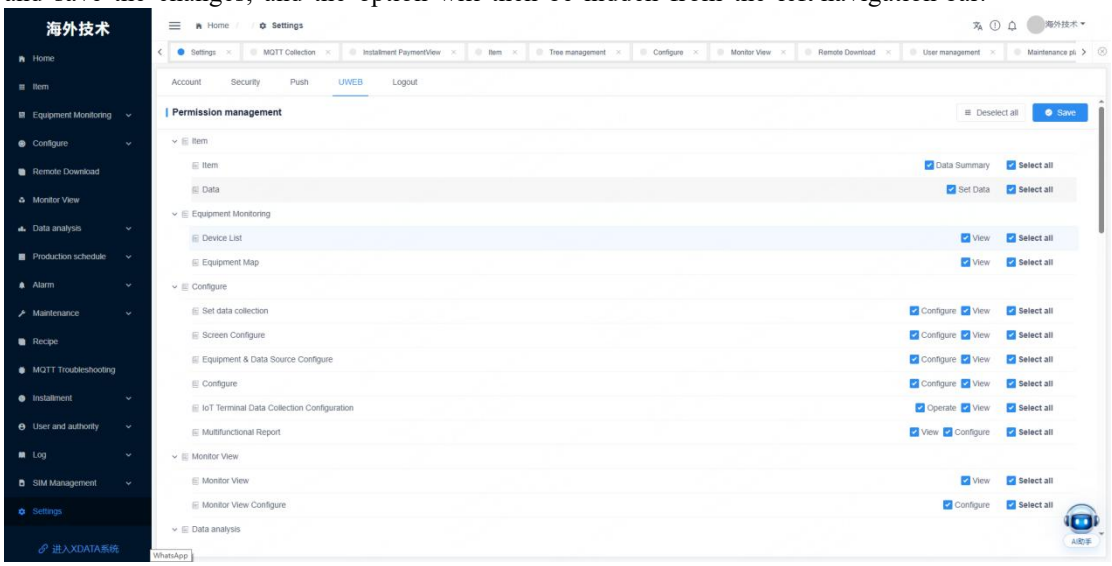
After configuring the push content on the "System Settings" → "Push" page, first scan the QR code with WeChat to follow the "XINJE Electric" WeChat official account, and then scan the QR code to link your platform push account.



- The system will automatically match the time in the corresponding time zone based on the time zone information of the user's location and display it accordingly.
- All historical data records, including timestamps such as the recording time and alarm occurrence time, are displayed in the local time of the access location.

20.4 UWEB

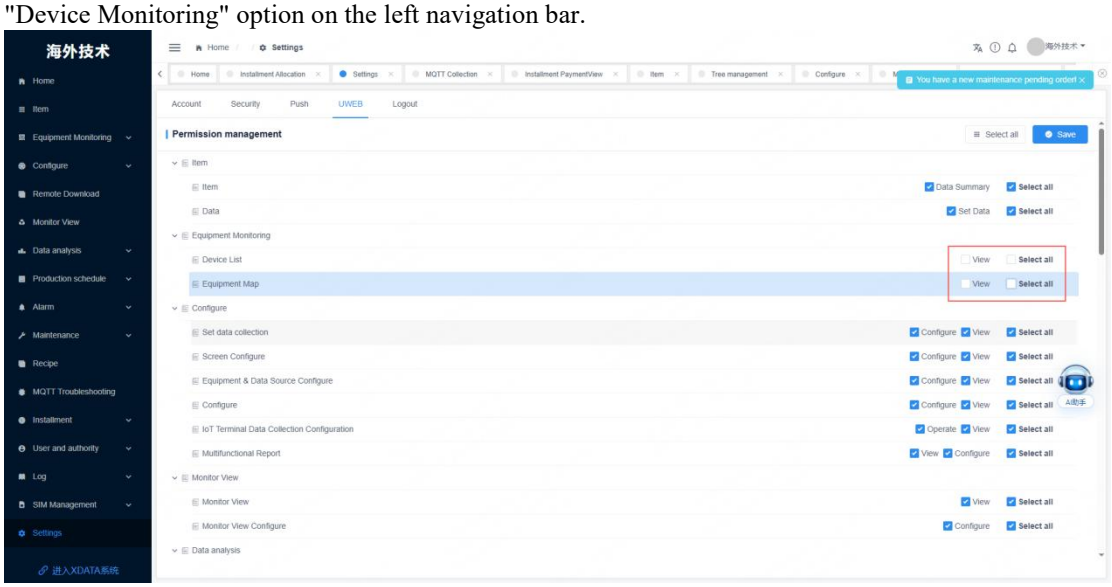
Supports custom configuration of the content displayed in the left navigation bar of the platform; the content displayed in the left navigation bar can be customized: uncheck the corresponding function item and save the changes, and the option will then be hidden from the left navigation bar.



For example, 

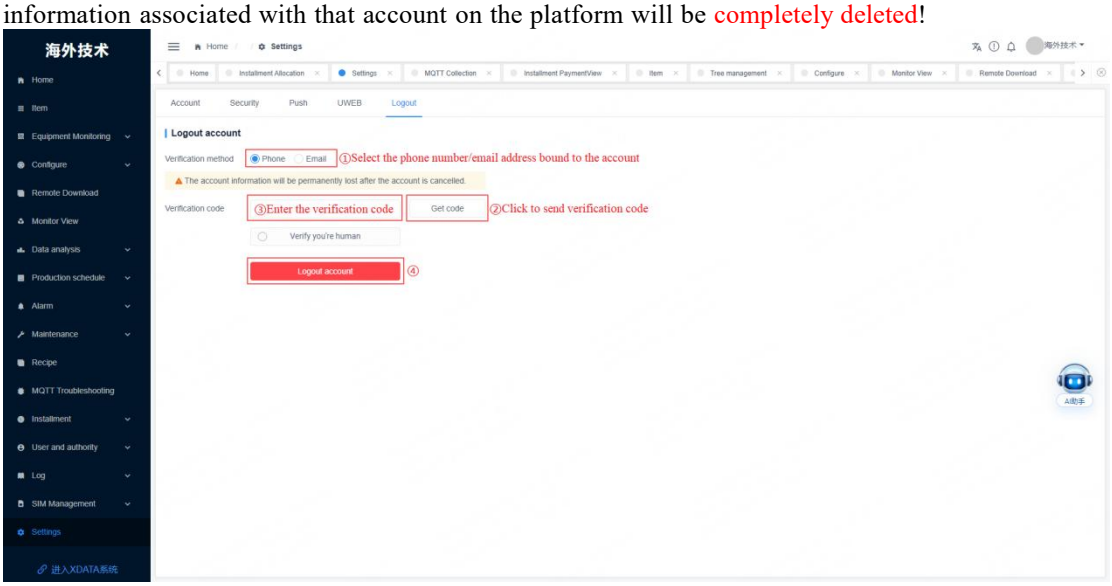
to hide, uncheck "Select All" and click to 

hide the "Device Monitoring" option on the left navigation bar.



20.5 Log Off

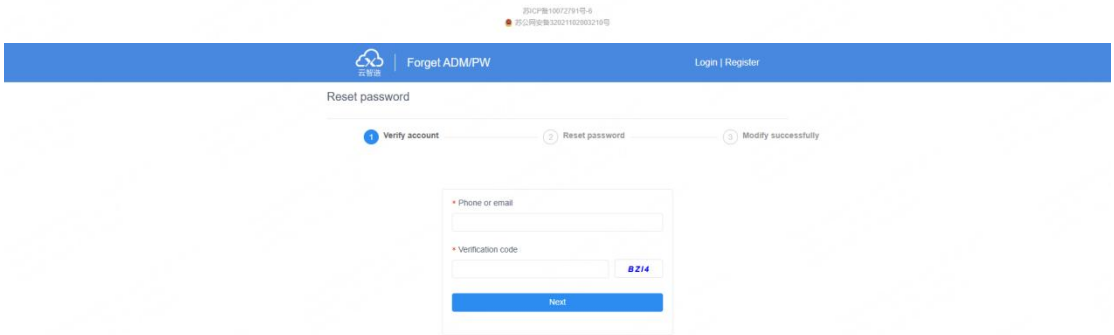
Choose the mobile phone number or email address linked to your account to receive a verification code; after entering the code on the platform, you can deactivate your account. Once the account has been deactivated, all information associated with that account on the platform will be completely deleted!



20.6 Forgot Username/Password

Click the "Forgot Password" option on the login homepage, enter the mobile phone number or email address linked to your account, and enter the verification code you received. Once verification is complete, you can reset your login password; after the change is successful, you can log in using the new password.





21. Apps and WeChat Mini Programs

Yunzhizao 5.2 provides an app compatible with both Android and iOS operating systems, as well as a WeChat mini- program, allowing users to log in via a mobile browser.

■ Android APP

Search for and follow the official account "XINJE Electric" on WeChat for Android; then enter the official account, click "Product Services" → "Cloud Intelligent Manufacturing," and download and install version 5.2; alternatively, you can download it from the official website: search for "Cloud Intelligent Manufacturing" in the official website's download center, select "Cloud Intelligent Manufacturing 5.2," and download it. It supports Android versions 7 and above.

■ Apple APP

The iPhone requires the system to be running iOS 13.0 or later. Open the App Store, search directly for " Cloud Intelligent Manufacturing ", and download and install it.



■ WeChat Mini Program

Scroll down on your WeChat home screen and search for "XINJE Cloud Intelligent Manufacturing," then scan the WeChat mini-program QR code.

Manual Update Log

The document number and version information are recorded in the lower-right corner of the cover of this manual. The records of manual revisions and updates are as follows:

Date Updated	Document Number	Changes
2023.12	MC09 20231220 1.0	Cloud Intelligent Manufacturing 4.2.3: First Release of the User Manual
2026.6.15	MC09 20250615 2.0	1、Adjust and revise the content of all sections of the article to synchronize it with the platform's latest functional interface; renumber all sections according to the platform's functional sequence. 2、Add Chapters 4.7, 6, 9.6, 14, 17, and 18 3、Correct errors in other manuals
2026.9.21	MC09 20260921 2.1	1、New Chapter 8: Remote Download 2、Edit other table of contents 3、Correct errors in other manuals

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