

# WideIoT

# Industrial Data Cloud Platform

Version 1.0 User Guide

# Contents

Operating Environment.....	1
User Rights and Obligations.....	1
Disclaimer.....	1
1. Platform Introduction.....	3
1.1 Platform Functions.....	3
2. Account Login.....	6
2.1 Login.....	6
2.2 Reset Password.....	7
3. Console.....	8
3.1 Navigation Bar.....	8
3.2 Personal Information.....	10
3.3 Console Page.....	13
4. Product Access Process.....	16
4.1 Add Gateway.....	16
4.2 Adding Machine Types.....	16
4.3 Adding Devices.....	17
4.4 Configuration Deployment.....	17
5. Data Dashboard.....	18
5.1 Grouped Projects.....	18
5.2 Grouped Canvas.....	21
5.3 Configuration Functions.....	26

5.4 Basic Gallery .....	31
6. Device Monitoring .....	37
6.1 Add Node .....	38
6.2 Edit Node .....	42
6.3 Delete Device .....	43
6.4 Query Node .....	45
6.5 Device Node .....	46
7. Operation and Maintenance .....	71
7.1 Alarm Platform .....	71
7.2 Work Order Platform .....	78
8. Data Analysis .....	90
8.1 Comparative Analysis .....	90
8.2 Data Report .....	95
9. Configuration Management .....	104
9.1 Device Archives .....	104
9.2 Model Management .....	115
9.3 Gateway Management .....	135
10. System Configuration .....	142
10.1 User Management .....	142
10.2 Role Management .....	150
10.3 Menu Configuration .....	155
10.4 Message Center .....	156

10.5 Log Center .....	158
11. Company Profile .....	161

## Operating Environment

The platform operates on the Linux operating system, utilizing technologies such as JAVA, C++, SQL, and WEB.

It supports mainstream browsers, with recommendations to use IE11 or Google Chrome for optimal cloud platform access.

## User Rights and Obligations

Upon purchasing WidelIoT's cloud platform services, you will receive a platform usage authorization issued by WidelIoT, containing your initial user information. Please log in to the data cloud platform and modify this information promptly after receiving it. The authorization file must be legally obtained from WidelIoT.

WidelIoT is obligated to ensure the legitimate usage rights of users, while users are responsible for protecting WidelIoT's copyright. Users must not arbitrarily transfer the authorization to third-party entities or individuals. Any violation of these regulations will result in full responsibility for any consequences, and WidelIoT will pursue legal action in accordance with relevant laws and regulations.

## Disclaimer

This document is created based on existing information, and content

may change without prior notice. WideIoT has made every effort to ensure the accuracy and reliability of the content in this document.

However, WideIoT does not assume responsibility for any losses or damages caused by omissions, inaccuracies, or errors in this document.

## 1. Platform Introduction

The WidelIoT Internet of Things (IoT) platform introduces a new level of integration. With thousands of industrial IoT devices connected to the network, enterprises must manage more endpoints than ever before. However, this is not merely a device issue; the industrial IoT network is actually a digital ecosystem composed of people, systems, and objects. This requires an industrial IoT platform to securely and effectively manage each element within this ecosystem.

The IOT Cloud Platform is a rapid access platform for real-time monitoring of distributed device data, utilizing SAAS cloud services to establish real-time online data channels for various industrial devices in industrial settings.

It is widely applied in scenarios such as industrial groupware software and real-time monitoring of distributed field devices, as well as point-to-point and point-to-multipoint communication for distributed devices, providing convenient, high-capacity, highly reliable, and low-cost setup of data transmission channels.

### 1.1 Platform Functions

The Wutong Bolian Device Management Cloud Platform includes a distributed device data processing center, a device data application

cloud service platform, and a data penetration cloud service platform. It mainly realizes data protocol parsing, big data analysis, data application development, and implementation for a wide variety of industrial devices with complex protocols distributed around the world.

**1.Device Data Processing Center:** It supports data aggregation, data parsing, data analysis, processing and storage, business distribution, and provides a variety of rich IoT middleware. It provides a foundation for customers to quickly manage devices and develop various application systems. It supports various encryption methods and certificate distribution, large - scale device access, mining and analysis of various relational and non - relational data, and secondary application of various data.

**2.Device Data Application Cloud Service Platform:** WideIoT constructs a comprehensive WEB application platform integrating device management, gateway management, variable management, alarm management, operation and maintenance management, geographic information management, lifecycle management, and data analysis according to the needs of industrial device manufacturers, thereby providing customers with a professional distributed device remote operation and management platform and a distributed device business operation platform.

**3.Data Penetration Cloud Service Platform:** WideIoT establishes a

data penetration channel to field devices according to the needs of remote operation and maintenance of industrial devices, facilitating remote programming, remote monitoring, and remote uploading and downloading of programs for devices distributed worldwide.

Main Product Forms: IoT middleware, WEB device cloud platform, device maintenance express, etc.

The platform enables quick and convenient connection and communication between field devices and systems without programming or software installation, requiring no specialized skills. It creates an exclusive IoT application cloud platform for you, allowing remote data monitoring, operation and maintenance, and management of devices anytime, anywhere via WEB and application software.

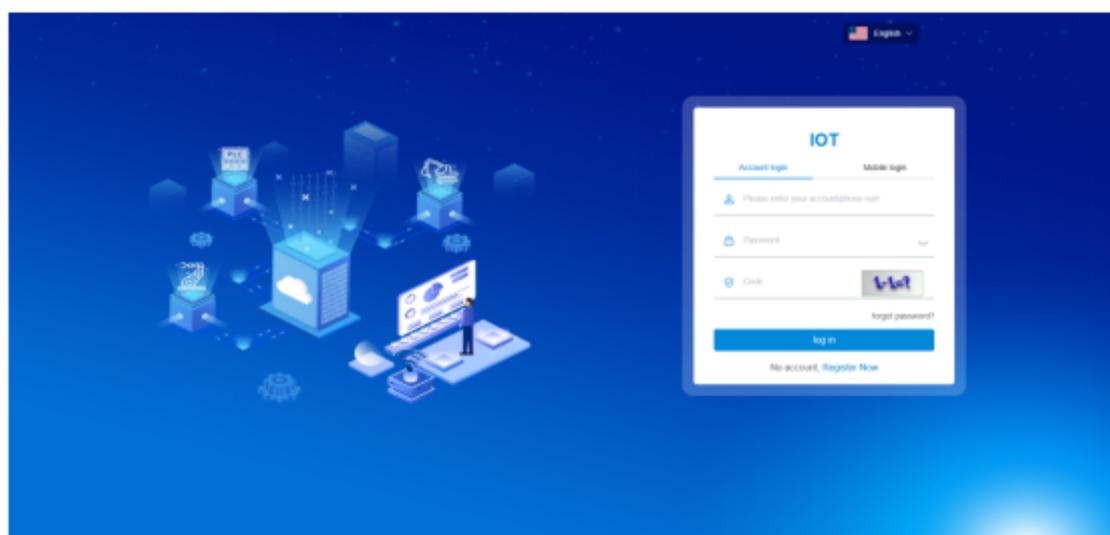
## 2. Account Login

### 2.1 Login

Open a browser, enter the access domain name

<https://wtbl.iot-datacloud.com/>, and enter the login interface. The login page supports account - password login.

#### 2.1.1 Account - Password Login

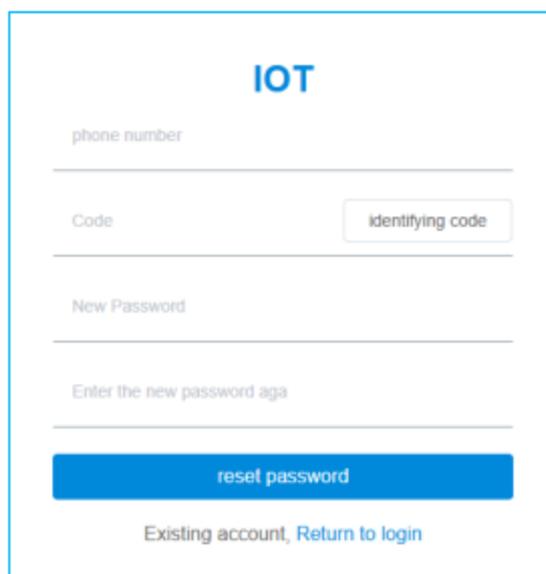


Field Description		
Field Name	Function Description	Remarks
Username	Registered successful username	
Password	Corresponding password for the registered account; password can be displayed or hidden	
Verification Code	Enter the result of the arithmetic operation (addition, subtraction, multiplication,	

	division) shown in the image	
--	------------------------------	--

## 2.2 Reset Password

If you forget your password, you can click "Forgot Password" at the top right of the login button to reset a new password for your account. Enter the mobile phone number bound to the account, correctly enter the verification code received, set a new password, and click "Retrieve Password". Then the password reset is successful. Return to the login page, log in with the new password and account name, and you can enter the platform.



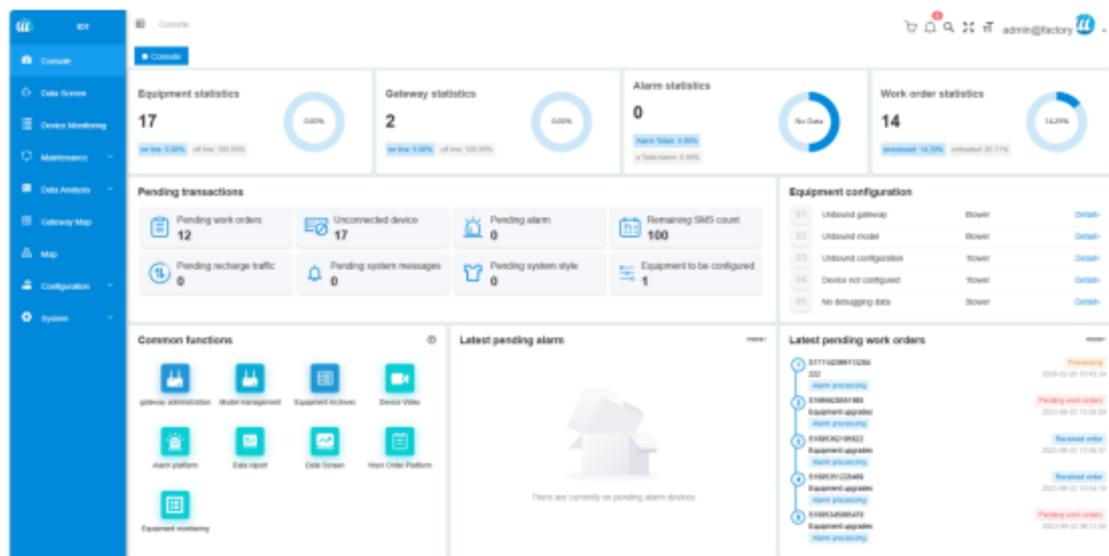
The screenshot shows a web form titled "IOT" for password reset. It contains the following fields and elements:

- A text input field labeled "phone number".
- A text input field labeled "Code" with a small button labeled "Identifying code" to its right.
- A text input field labeled "New Password".
- A text input field labeled "Enter the new password aga".
- A blue button labeled "reset password".
- A link at the bottom labeled "Existing account, Return to login".

## 3. Console

### 3.1 Navigation Bar

After a successful login, a four-line horizontal icon appears at the top left corner. Clicking it opens or closes the left-side menu bar.

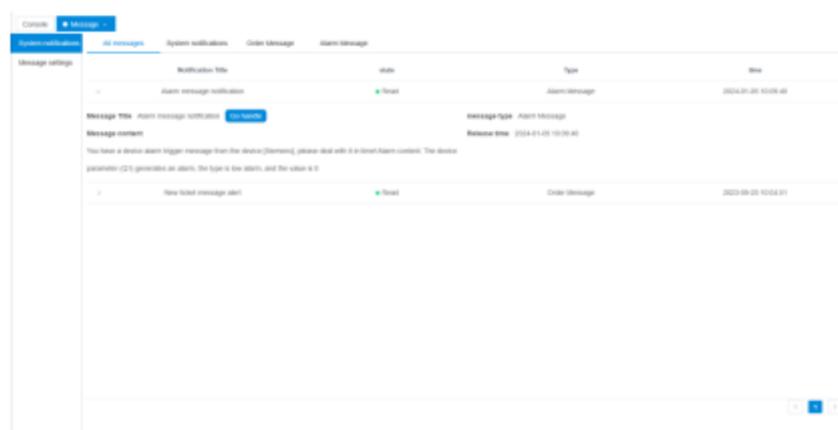


In the upper right corner area, the functions from left to right are the Message Center, Search Function, Page Maximization, and Page Layout.

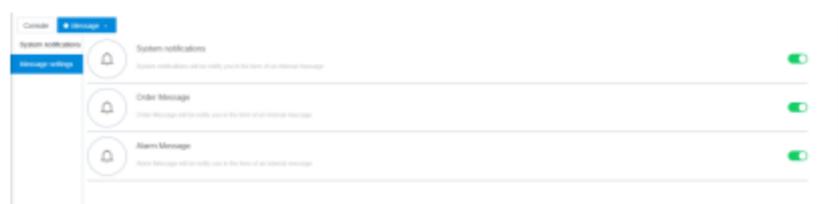
#### 3.1.1 Message Center

The Message Center mainly includes two modules: **System Notifications** and **Message Settings**.

**System Notifications:** You can view all message notifications in the entire platform, including system notifications, work order messages, alarm messages, etc. Click to expand to view the specific message content.

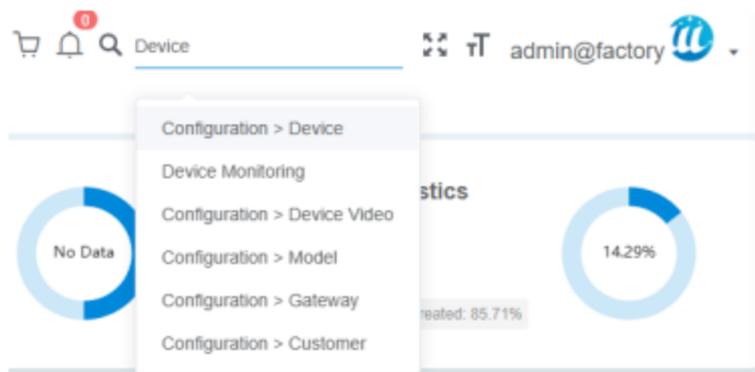


**Message Settings:** You can customize the types of message notifications you need to receive.



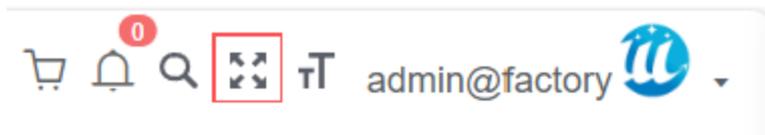
### 3.1.2 Search Function

Through the search function, you can quickly jump to the module you want to use.



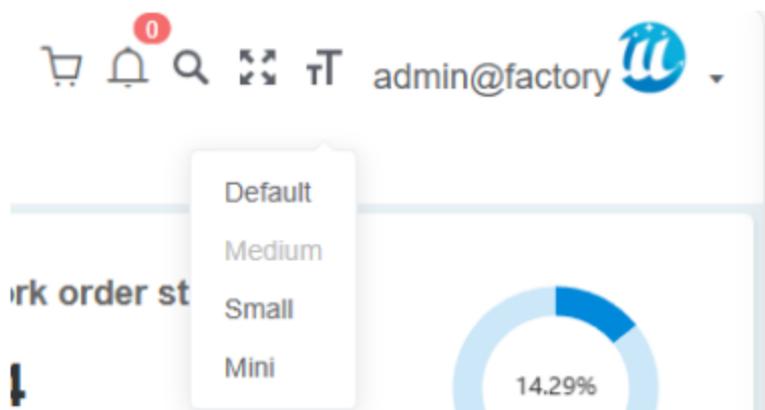
### 3.1.3 Page Maximization

Click the page maximization button, and the entire platform page will cover the entire web page; click again to restore to the default size.



### 3.1.4 Page Maximization

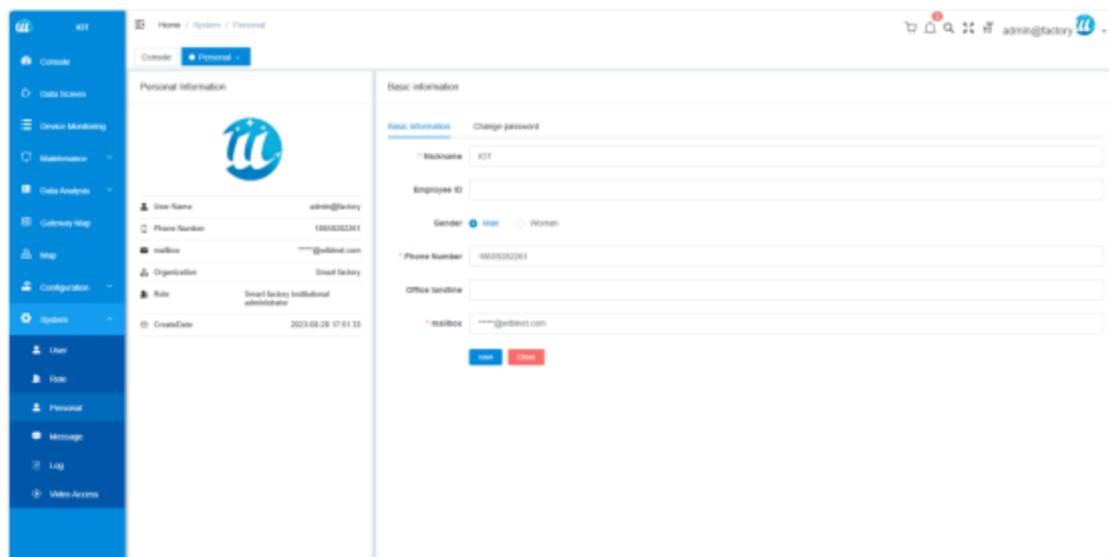
Click the page maximization button, and the entire platform page will cover the entire web page; click again to restore to the default size.



### 3.2 Personal Information

Click the avatar to configure the personal account information, including: Personal Center, Layout Settings, and Logout.

### 3.2.1 Personal Center



**Basic Information:** You can view the basic information of your personal account. Through the information box in the basic information, you can modify your personal information and avatar.

**Change Password:** You can customize and modify your password.

### 3.2.2 Layout Settings

Layout Settings allow you to make personalized configurations for the platform's theme style and layout configuration.

**Theme Style:** The theme style is a default theme style assigned by the reviewer during the organization review. After a new organization obtains the theme style, it can make custom modifications based on this default theme. The modified content will be synchronized to the themes of the subordinate sub-accounts, but will not affect the default theme style in the super administrator account. (Note: If the super administrator

assigns the same default style again, it will overwrite the custom style, achieving the effect of formatting the theme style.)

**Layout Configuration:** Adjust the display mode of the platform.

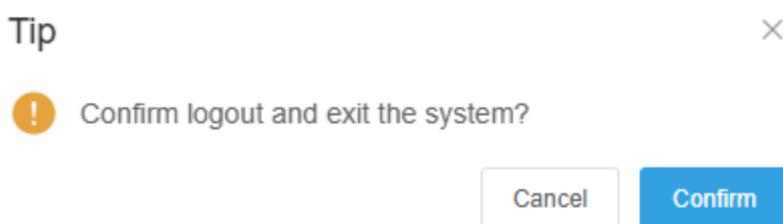
Among them:

Function Name	Function Description
TopNav	The directory display form is changed to display the first level at the top of the page and the second level directory in the left directory bar

Tags-Views	Display the opened modules below the navigation bar
Fixed Header	The interval between the page and the top bar is set to the default value
Show Logo	Display the platform's logo and name
Dynamic Title	The name of the clicked module is synchronized to the web page tab
Horizontal Title	Display/hide the horizontal title

### 3.2.3 Logout

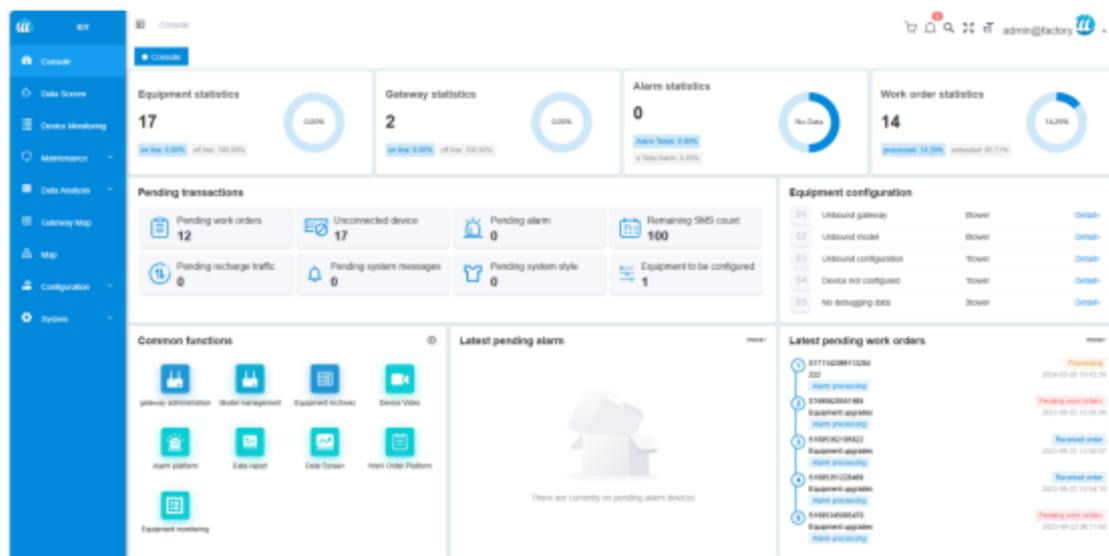
Select "Logout" and click "Confirm" to log out of the current account.



## 3.3 Console Page

After successful login, you will automatically enter the console dashboard, where you can observe the status of all devices on the entire

platform.



**First Column Display:** Statistical analysis of the status of devices, gateways, alarms, and work orders. You can click the statistical data in the pie chart to jump to the page of the corresponding function module to display all data list information; click the percentage box below the data to jump to the data statistics under the corresponding status. (For example: Click the offline rate of device statistics to jump to the device archives module page and display all offline device data.)

**Second Column Display:** Summarize and uniformly display pending transactions and device configuration status. Click the corresponding pending module to quickly jump to the page of the corresponding function module for business processing. In the device configuration status, click the unbound device to jump to the device monitoring module for quick binding processing.

**Third Column Display:** Set shortcut keys for commonly used function

modules to facilitate quick clicking to jump to the corresponding function pages. The latest alarm real-time data is displayed in real time. By clicking a specific alarm device, you can jump to the corresponding alarm information in the alarm platform module for processing. The latest pending work orders are displayed in real time. By clicking specific work order information, you can jump to the corresponding work order information in the work order platform module for processing.

## 4. Product Access Process

### 4.1 Add Gateway

Add a new gateway (i.e., product) in Gateway Management, fill in the unique identification code of the product into the gateway serial number, and save it. For details, refer to section 9.3.

gateway administration

Basic information

\* Gateway Sn

\* Gateway Name

\* Catalog Node

Address

\* Gateway brand WTDL

\* data format Common Format

\* Operationa Build

Product Type Intelligent Gateway

sort 0

Confirm Cancel

### 4.2 Adding Machine Types

Add a machine type in machine type management. The protocol of the machine type must match the communication protocol of the devices bound to the gateway, and define the data to be uploaded in the variable definition section of machine type management. For details, refer to section 9.2.

Model management

Basic information

\* Name

TunnelClass Common protocols

\* Interface 485Serial port

\* Protocol Modbus RTU

\* CPU type be current

sort 0

Confirm Cancel

## 4.3 Adding Devices

Add a device in device management, selecting the corresponding gateway and machine type, and configuring the interface parameters of the device under the gateway. For details, refer to section 9.1.

The screenshot shows a web interface for "Device Management" with a close button (X) in the top right. Below the title are two tabs: "Basic Settings" (selected) and "Advanced setting".

**Device Properties**

- Name:
- Device SN:
- Operation:
- Address:
- Catalog Node:
- sort:

**Collection attributes**

- Gateway:
- Model:
- SerialNo:
- Serial Baud:
- Data Bits:
- Stop Bit:
- Parity bit:
- slave:
- Extended Fields:
- Collection:
- Cycle:

At the bottom, there are two buttons: "Confirm" (blue) and "Cancel" (white).

## 4.4 Configuration Deployment

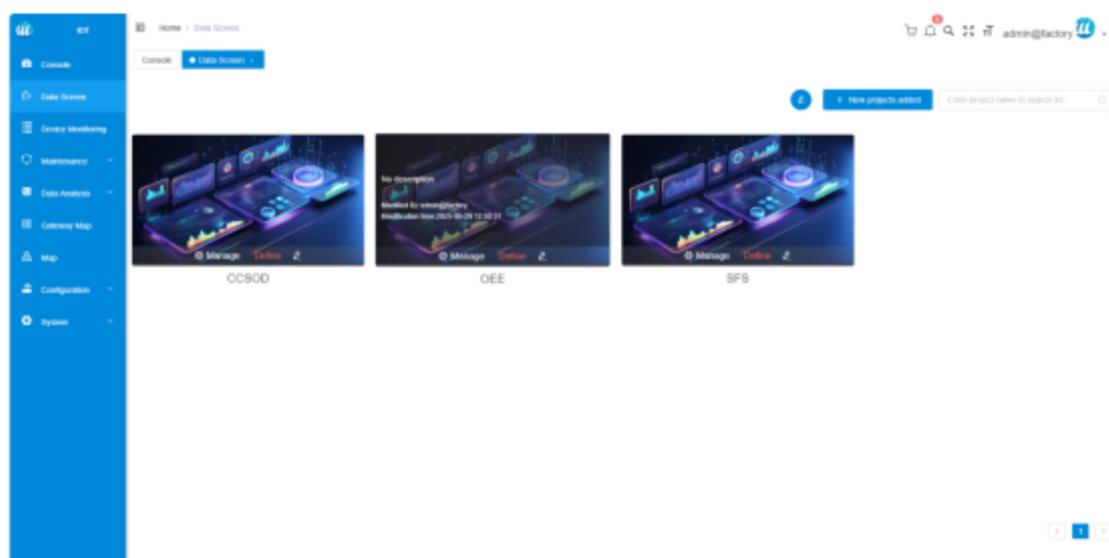
Click on "Configuration Deployment" to deploy the configuration to the gateway.

## 5.Data Dashboard

### 5.1 Grouped Projects

#### 5.1.1 Viewing Grouped Projects

The data dashboard display area showcases all created grouped dashboard projects. You can also quickly locate a target dashboard using the search function in the top right corner.



Hovering the mouse over a group displays its description information, as well as the last modifier and modification time.

Click on a grouped dashboard to view the operational monitoring status of each part of the dashboard and manage device data remotely.

#### 5.1.2 Creating Grouped Projects

Click "New Project" in the top right corner to create a new custom grouped dashboard. There are three types of groupings: ordinary node

type, statistical template type, and machine type template type. Select the appropriate type based on actual field requirements to create a targeted grouped dashboard.

newly added
×

\* Name

\* Number

Type  Ordinary node  Statistical  Model

Cover 

+

Suggest uploading images with a resolution of 400 \* 200, otherwise they may not be fully displayed

Description

Confirm
Resetting



After creating a grouped project, click the pen icon in the top right corner. Each grouped project will then display "Manage" and "Define" buttons, allowing editing of the grouped project and its internal controls, as well as drawing the content of the grouped dashboard.

### 5.1.3 Modifying Grouped Projects

Select a grouping and click the "Manage" button to edit the original information within the grouped project. The modification content and precautions are consistent with adding a grouped project (the grouping type cannot be modified once selected).

The screenshot shows an 'Edit' dialog box with the following fields and controls:

- Name:** Text input field containing 'OEE'.
- Number:** Spinner control set to '2'.
- Type:** Radio button selection with options: 'Ordinary node' (selected), 'Statistical', and 'Model'.
- Cover:** Image upload area showing a control panel image. Below it, a red text note reads: 'Suggest uploading images with a resolution of 400 \* 200, otherwise they may not be fully displayed'.
- Description:** Text area for project details.
- Buttons:** A blue 'Confirm' button at the bottom left, and 'Log' and 'Delete' buttons at the bottom right.

After modifying user information, click "Confirm" to update the grouped project information and receive a successful operation prompt.

### 5.1.4 Deleting Grouped Projects

Select a grouping and click the "Manage" button, then click "Delete Project" in the grouping project to initiate a deletion confirmation box. Click "Confirm" to execute the deletion operation and remove the

target grouped project. Click "Cancel" to abort the deletion.

Edit

Name OEE

Number 2

Type  Ordinary node  Statistical  Model

Cover

Description

prompted

After deleting the project, it cannot be restored. Do you still want to delete it?

Cancel Confirm

Confirm

Log Delete

## 5.2 Grouped Canvas

### 5.2.1 Setting the Main Canvas

After creating a grouped project, click the "Define" button to enter the drawing page of the grouping. First, create a canvas by clicking the "+" in the right-side canvas list. When creating a canvas, you can choose whether to set it as the node's main canvas or the project's main canvas.

Edit Canvas
×

\* Canvas Name

\* Canvas Size

Secondary Password

Background Style

Background Image:

\* Associated Node

Multi Language

Node Main Canvas  Yes  No

Project Main Canvas  Yes  No

Canvas Display End  OnlyPC  PC/MobileCommon

**Node Main Canvas:** If set as the node's main canvas, when a node has multiple grouped canvases, the grouped canvas set as the node's main canvas will be the default display when clicking the node (the primary or secondary canvas of the same node can be switched using the canvas editing function).

**Project Main Canvas:** In projects with multiple canvases, the canvas set as the project's main canvas will be the default display when clicking "Define" to enter the grouped project.

## 5.2.2 Setting the Affiliated Node

**Ordinary Node Type Configuration - Select Associated Node:** You can draw configurations for different directory nodes. The optional data source devices are all devices under the node. (For example: If you select directory node A, all devices under directory node A can be used as data sources to draw the canvas.)

The statistical graphics available for the canvas are: all statistical graphics except device information.

Edit Canvas ×

\* Canvas Name

\* Canvas Size

Secondary Password

Background Style

Background Image:

\* Associated Node

Multi Language  Smart Factory >

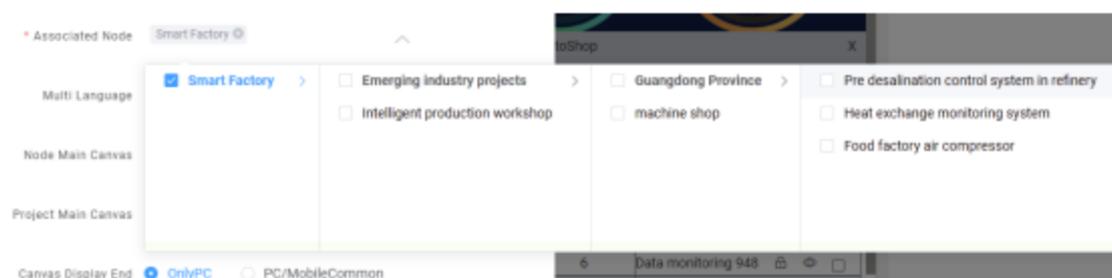
Node Main Canvas

Project Main Canvas

Canvas Display End  OnlyPC  PC/MobileCommon

During operation, the main canvases created by different nodes can

be switched through the directory tree in the upper left corner of the configuration to realize the switching of different configuration canvases under different nodes.



### **Model Template Type Configuration - Select Associated Model:**

You can select a model bound with devices to create a canvas.

The statistical graphics available for the canvas are: historical data chart, report data chart, real-time data chart, and device information.;

Edit Canvas
×

\* Canvas Name

\* Canvas Size

Secondary Password

Background Style

Background Color:

\* Associated Tunnel

Tunnel Main Canvas

Project Main Canvas

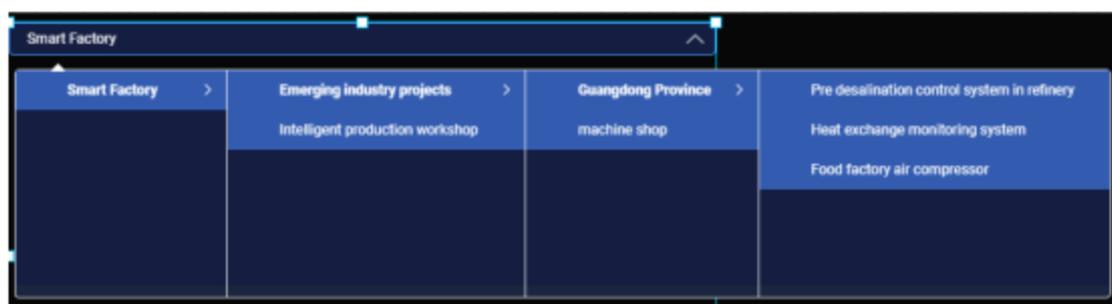
Canvas Display End

During operation, you can switch the data sources of different devices of the same model through the directory tree in the upper left corner of the configuration. For example: Both device A and device B belong to model J. Then, without changing the drawn canvas, the data source in the canvas can be switched to A or B. (Devices of the same model have the same variables.)



**Statistical Template Type Configuration:** Only the distribution map

control can be used in the statistical graphics, which can display the distribution positions of all devices. During operation, you can switch through the directory tree in the upper left corner of the configuration to realize the statistics of the distribution status of devices under different directory nodes.



## 5.3 Configuration Functions

### 5.3.1 Top Toolbar

A toolbar with rich operation functions is provided at the top of the configuration screen to support the layout of all controls.



Function introduction is as follows:

Tool Button	Function Introduction
Project Template	System templates: quick-use templates for all institutions;  User templates: quick-use templates for individual

	users
Gallery	System Gallery: Common device diagrams for industrial collection scenarios;My Gallery: Custom image upload and save;Dashboard Gallery: Exquisite decorative images and exquisite background images
Undo	Roll back the selected control to its previous position
Redo	Restore all controls in the dashboard to their positions before modification
Align Left/Right/Top/Bottom/Horizontally/Vertically	Perform the corresponding alignment operation on all selected controls
Bring to Front/Send to Back	Bring the control to the

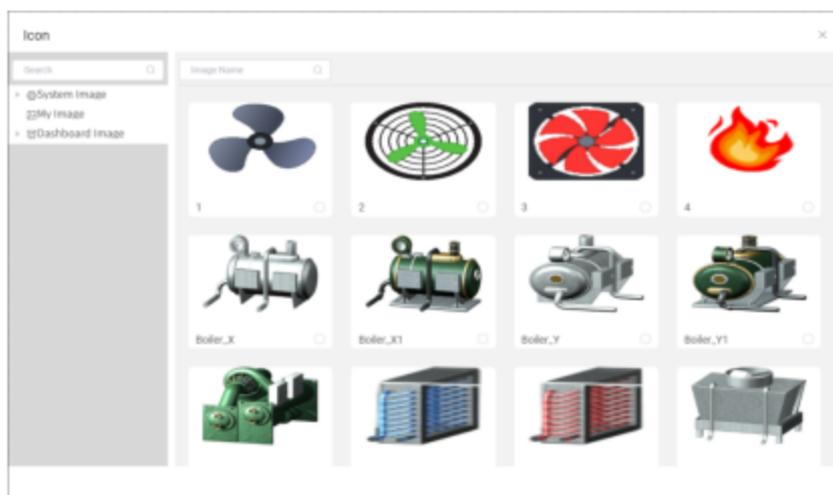
	top/bottom layer of all other controls
Bring Forward/Send Backward	If controls overlap, set a certain one to be on top or bottom
Group	Group controls into a single unit for movement operations
Zoom In/Zoom Out	Zoom in or out the entire configuration canvas
Rotate Clockwise/Counterclockwise	Rotate the selected control clockwise/counterclockwise
Lock/Unlock	Lock the selected control to prevent movement
Layer	Filter: Find the corresponding control in the canvas; Visible: Hide or show the control; Batch Select: Batch operation of controls

Preview	View the operation status of the control data source
Full Screen	Display the configuration operation canvas in full screen
Check	Check whether all controls are bound to data sources
Import/Export	Import and export the canvas
Save	Save the set canvas controls
Settings	Set the shortcut keys used by the configuration canvas and other functions

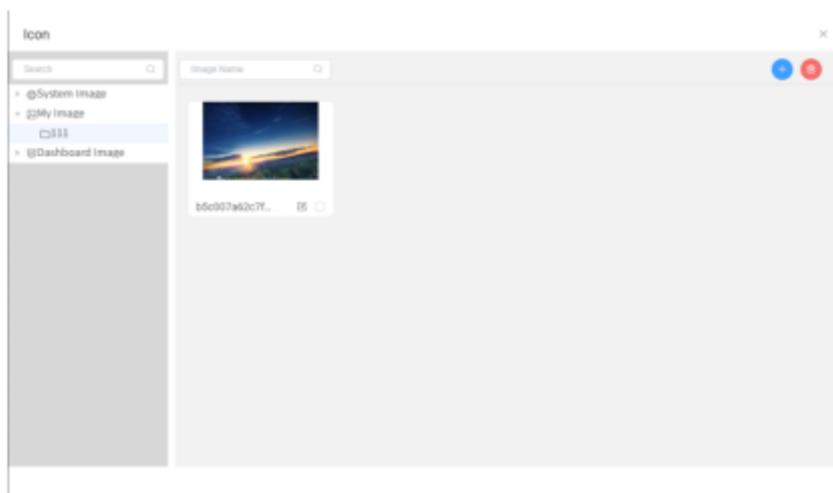
### 5.3.2 Gallery

The gallery adds more ornamental value to the configuration drawing.

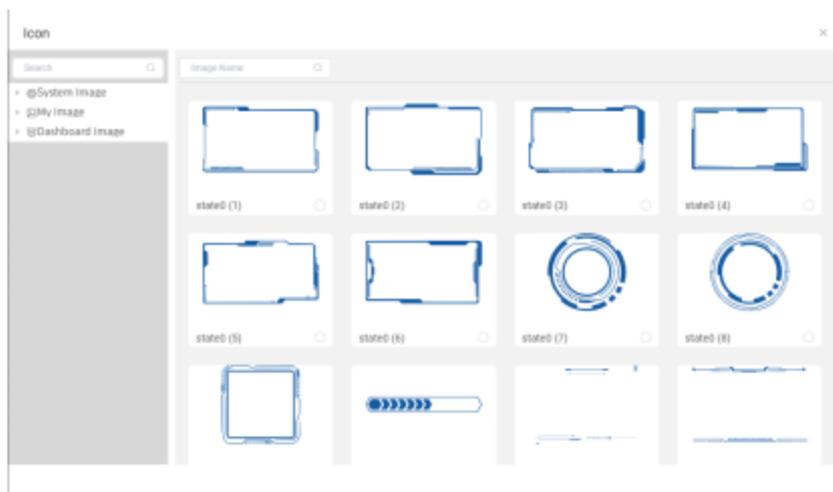
**System Gallery:** Provides various types of common device diagrams for industrial collection scenarios.



**My Gallery:** Provides custom uploaded images to design a configuration development that is more in line with your own style.



**Dashboard Gallery:** Exquisite decorative images and exquisite background images.

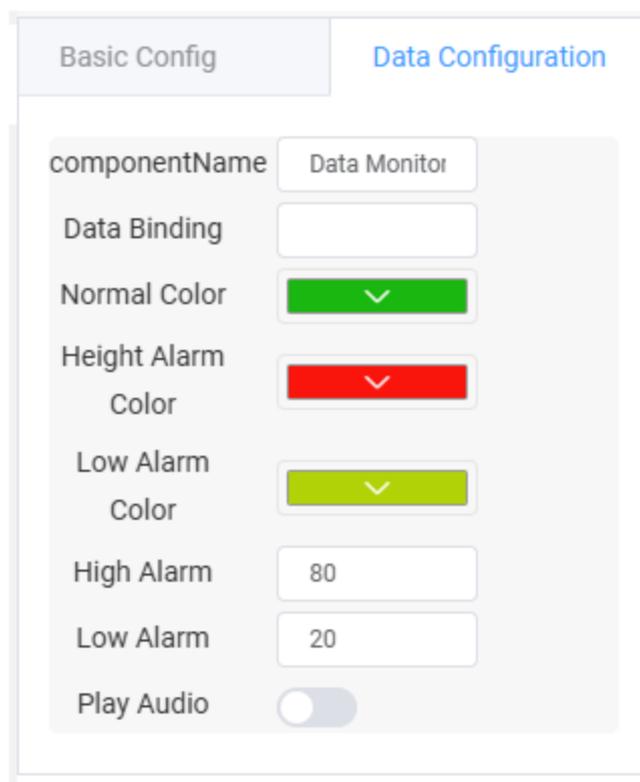




Basic Config
Data Configuration

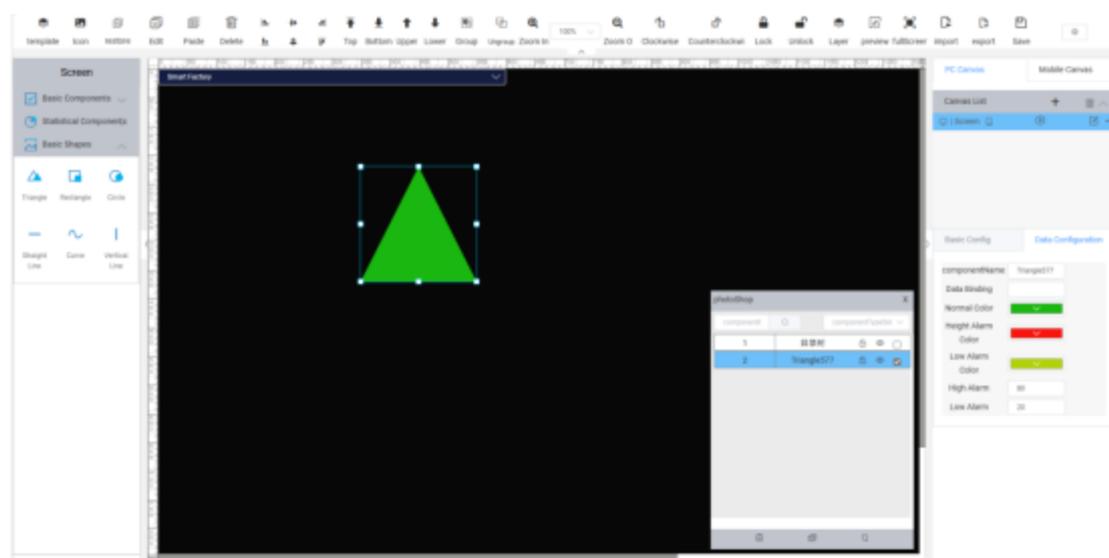
Current Layer	<input type="text" value="2"/>
Rotation Angle	<input type="text" value="0"/> °
Is Lock	<input type="text" value="No"/> ▾
👁️	
X	<input type="text" value="506"/> px
Y	<input type="text" value="235"/> px
Width	<input type="text" value="150"/> px
Height	<input type="text" value="50"/> px
Background Fill	<input type="checkbox"/> 
Diaphaneity	<input type="range" value="100%"/>
Border Style	<input type="text" value="Solid"/> ▾
Border Color	<input type="text" value=""/> ▾
Border Width	<input type="text" value="0"/> px

**Data Binding:** Through data binding, you can bind variables under the device to obtain real-time changing data. Then, through the set rules, the configuration screen gives corresponding real-time display feedback. For example: Set the alarm boundary values for the maximum and minimum data values, change the control color, status, and text information according to the specific alarm situation, or trigger other alarm display controls to achieve real-time early warning display and alarm reminder functions.



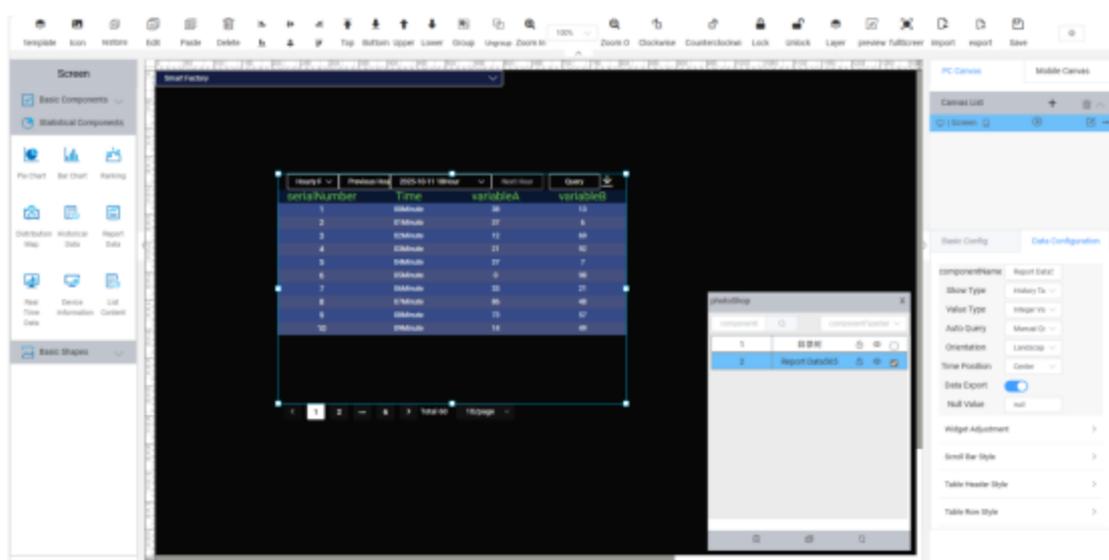
## 5.4.2 Basic Shapes

Click "Basic Shapes" in the left directory to select some commonly used graphic controls that can be bound to a single data source. The UI customization function and data binding function of the graphic controls are the same as those of the controls in the basic graphics.



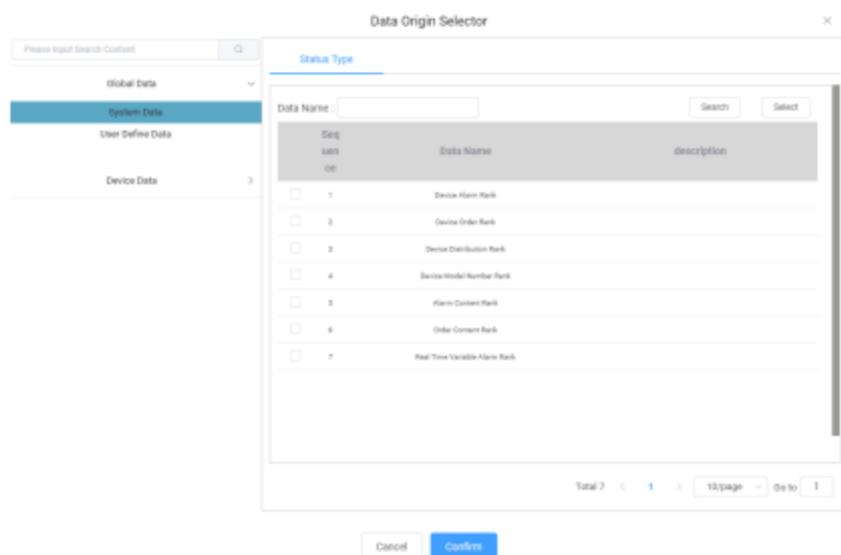
### 5.4.3 Statistical Controls

Click "Statistical Controls" in the left directory. In addition to customizing the UI style, this type of statistical control can also perform statistical comparison on bound data sources with common attributes, making it more intuitive to observe the change trend of each part of the data.



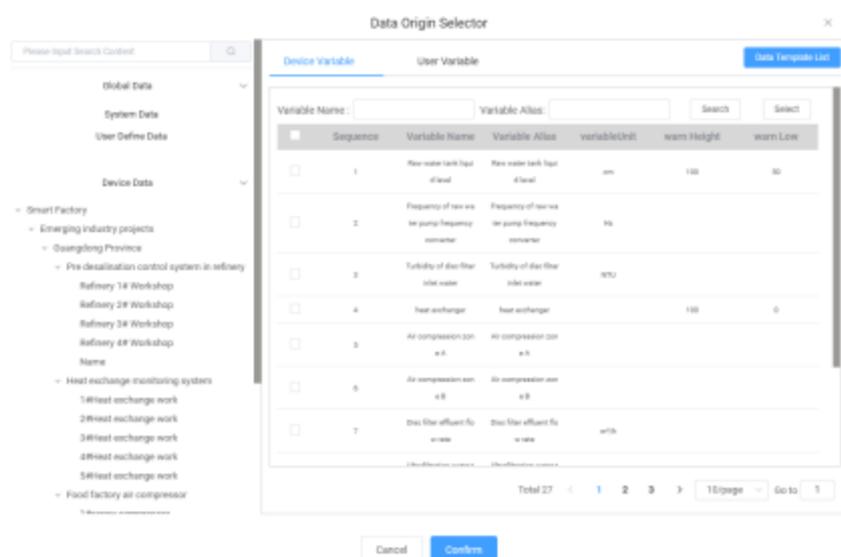
The data sources mainly come from two categories: global data sources and device data sources.

**System Data Source:** It is used to count the data volume of various types under the entire account. Including: online/offline status of all devices, alarm device status, online gateway status, model distribution, etc.



**Device Data Source:** It is the relevant data source of all devices owned by the node selected in the configuration, including device variable data sources and user variable data sources.

**Device Variables:** By selecting a device, you can select the internal variable data source of the device to observe and display the change of the internal variable data source of the device.

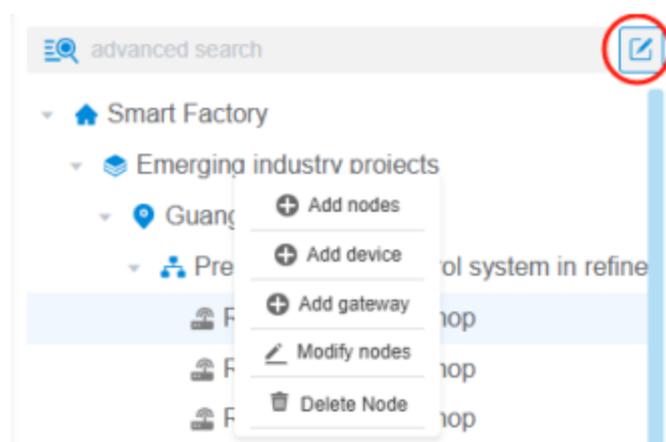




## 6. Device Monitoring

Click "Device Monitoring" in the left menu to jump to the device monitoring page. The device monitoring page establishes projects and adds and maintains devices, gateways, node information, and directory tree hierarchical relationships through the hierarchical relationship of the directory tree on the left.

The directory tree, its subordinate nodes, and devices are in view mode by default and cannot be edited; click the edit button behind the directory tree search box to perform add, delete, modify, and query operations on nodes and devices in the directory tree.



For different node types, the available operations are different:

**Organization Root Directory Node:** Add node, add device, add gateway; (The root directory node cannot be deleted or modified.)

**Non-Device Directory Node:** Add node, add device, add gateway, modify node, delete node.

**Device Node:** Copy device, modify device, delete device, query

permission; (No nodes can be created under the device node.)

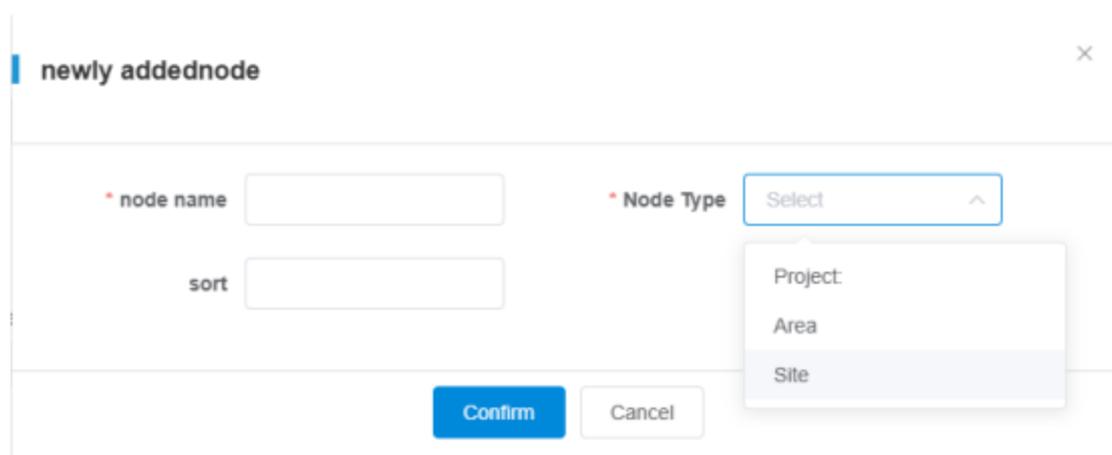
## 6.1 Add Node

Right-click a node of non-device node type in the directory tree, and you can choose to create: Add Node, Add Device, Add Gateway.

**Device Node:** The adding steps are the same as adding a device in the device archives; (For details, refer to section 9.1.1)

**Gateway Node:** The adding steps are the same as adding a gateway in Gateway Management; (For details, refer to section 9.3.1))

**Add Node:** Node types include: Project Type, Area Type, Site Type.



The screenshot shows a dialog box titled "newly addednode" with a close button (X) in the top right corner. The dialog contains the following elements:

- A red asterisk followed by the label "node name" and an empty text input field.
- A red asterisk followed by the label "Node Type" and a dropdown menu. The dropdown is open, showing three options: "Project", "Area", and "Site".
- A label "sort" followed by an empty text input field.
- At the bottom, there are two buttons: a blue "Confirm" button and a white "Cancel" button.

**Project Type:** It can be bound to a certain customer file. All devices added under this project node are managed by the customer file. When viewing the customer file, you can observe the statistical status of all devices in real time. (In the map module, click this node to display the device distribution and device status under this node.)

**newly addednode**
✕

---

**\* node name**

**Customer**

**\* Node Type**

**sort**

---

Click "Customer File", the list is the list of existing customer files of the account. Select the target customer and click "Confirm" to bind the target customer file.

**Customer Selection**
✕

Double click bind\*

customer cod 
Customer's full

e
l name

	customer code	Customer's full name	customer classification	Signing date
<input type="radio"/>	CUS_161967184119	environmental technology corporation	Key customers	2023-09-08 00:00:00
<input type="radio"/>	CUS_16324102824357	Network Technology Company	Key customers	2023-09-07 10:26:25
<input type="radio"/>	CUS_1674102824376	Trading Limited Company	Key customers	2023-09-01 00:00:00
<input type="radio"/>	CUS_160907102824380	Information Services company	customers	2023-09-30 00:00:00

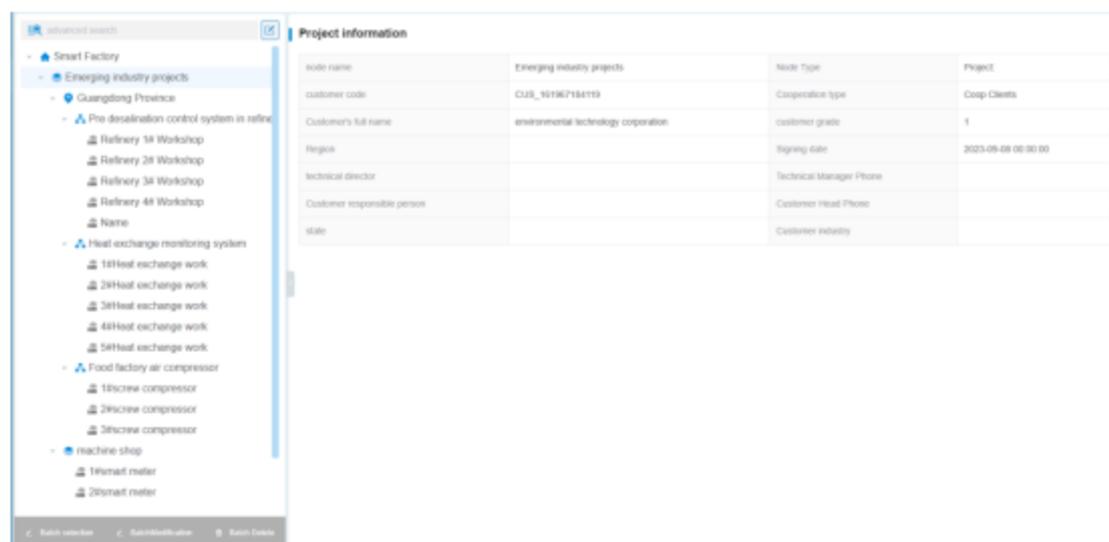
Total 4
10/page
<
1
>
Go to

One project node can only be bound to one customer file, and one customer file can be bound to multiple project nodes.

The top of the pop-up window provides a search box for quickly querying customer files. There are two search methods: full-name

accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

After clicking "Confirm", a new project node can be created; when you click the project in the directory tree, the detailed information of the project node will be displayed.



**Area Type:** It can be bound to a certain area. After selecting a location on the map, you can select the province, city, and district where the location is located to bind. (In the map module, click this node, there will be a mask of the bound area, and the device distribution and device status under this node will be displayed.)

newly addednode
×

---

\* node name

Address

Region area

\* Node Type

sort

Click "Geographic Location". There are two ways to locate the

position:

①Manually enter the address in the "Search Address Box" to find the target address;

②Obtain the address of the clicked position directly by clicking the map.

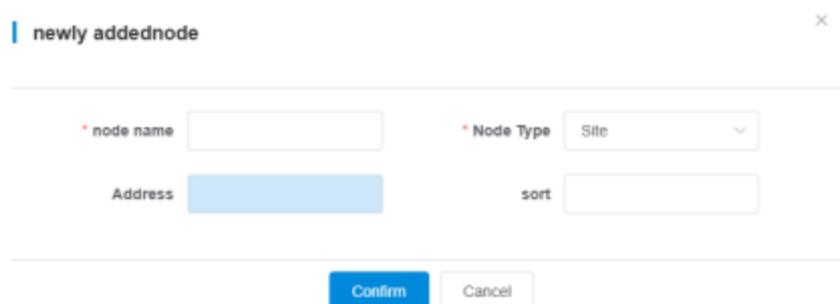
You can also use a combination of the two methods. After selecting the address, click "Confirm" to save the selected address.

After clicking "Confirm", a new area node can be created; when you click the project in the directory tree, the area information of the area node will be displayed.



regional information			
node name	Guangdong Province	Node Type	Area

**Site Type** : It can be bound to a certain location. (In the map module, click this node to display the device distribution and device status under this node.)



newly addednode

\* node name  \* Node Type Site

Address  sort

Confirm Cancel

Click "Geographic Location". There are two ways to locate the position:

①Manually enter the address in the "Search Address Box" to find

the target address;

②Obtain the address of the clicked position directly by clicking the map.

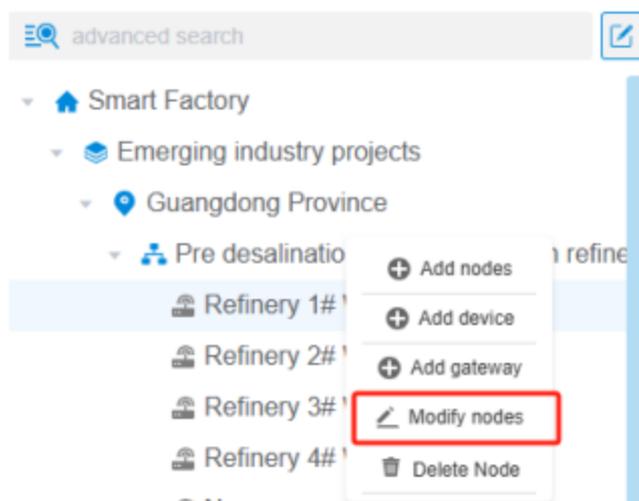
You can also use a combination of the two methods. After selecting the address, click "Confirm" to save the selected address.

After clicking "Confirm", a new site node can be created; when you click the site in the directory tree, the area information of the site node will be displayed.

Site Information			
node name	Pre desalination control system in refinery	Node Type	Site

## 6.2 Edit Node

In the device directory tree, select a device or node that needs to be modified, right-click - click "Edit", and you can edit and modify the original information of the device or node. The modified content and precautions are the same as adding a node. For details, refer to the node adding function in section 6.1.

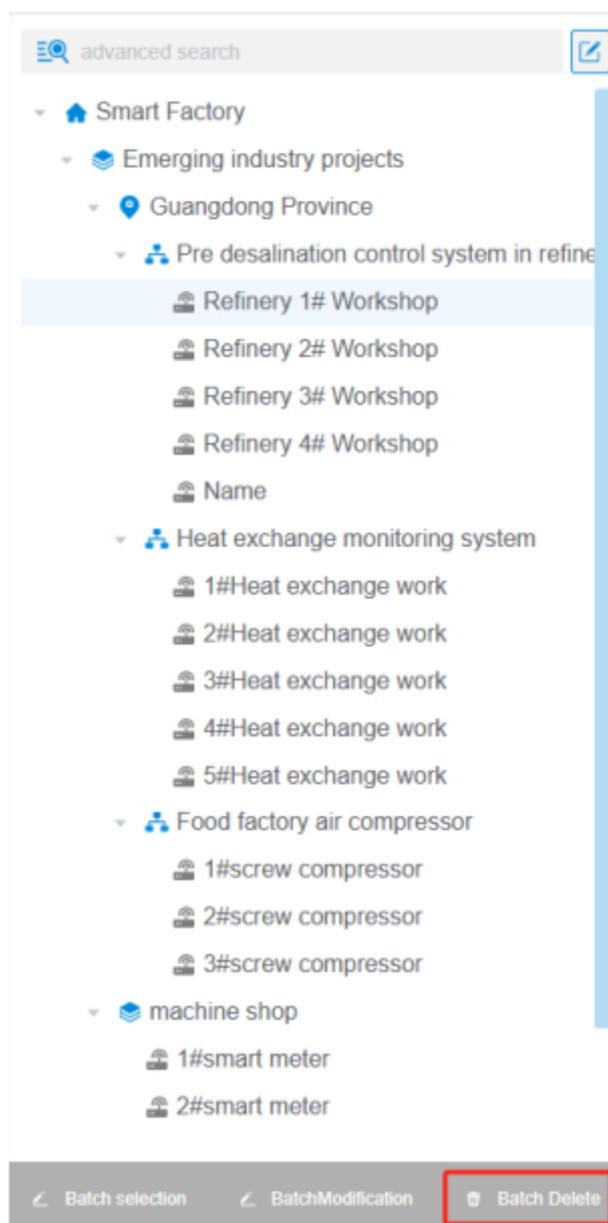


After modifying the node information, click "Save" to update the node information, and a prompt of successful operation will be given. After modifying the device and gateway information in the device directory, the modified content will be synchronously updated to the relevant devices in the device archives and gateway management.

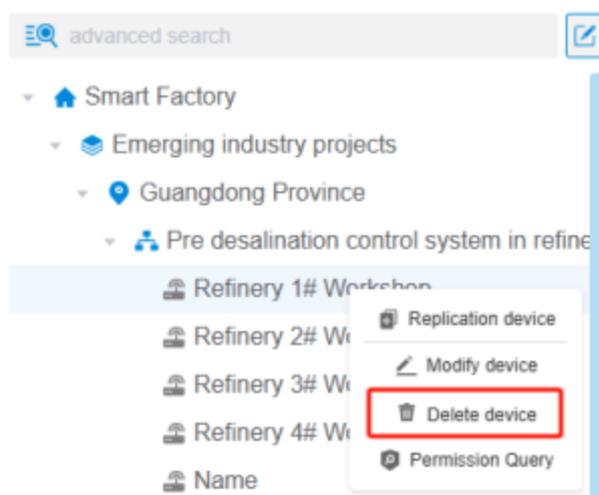
## 6.3 Delete Device

There are two ways to delete a device: **batch deletion** and **individual deletion**.

**Batch Deletion:** Click the "Batch Selection" button in the lower left corner, check one or more records in the device directory list, click "Batch Delete" in the lower left corner, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target device directory node; click "Cancel" to cancel the deletion operation.



**Individual Deletion:** Select a node to be deleted, right-click the device node, select "Delete Node", click "Confirm" to perform the deletion operation and delete the target node; click "Cancel" to cancel the deletion operation.



Note: To delete a directory node, you must delete all its subordinate nodes first.

## 6.4 Query Node

There are two ways to query directory nodes: full-name accurate query and fuzzy query.

Search scope: node name, device name, model name, gateway name, gateway serial number, etc.

The search is triggered automatically after entering the content to find the matching content in the directory tree.

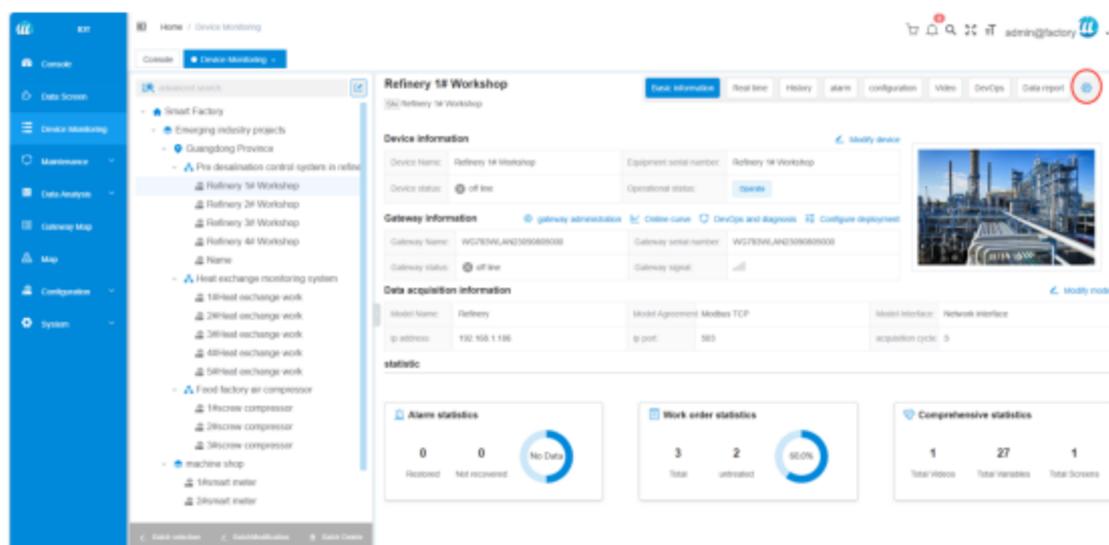


After the query is completed, clear the content in the search box to

display all device directory information of the account.

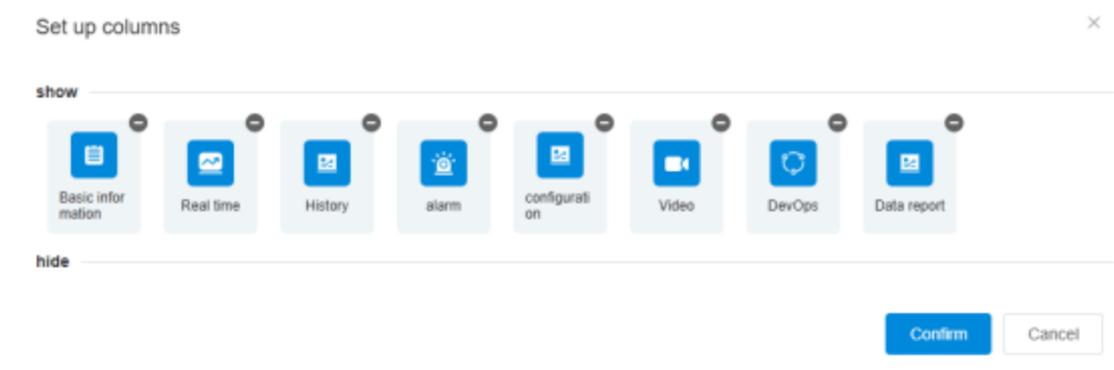
## 6.5 Device Node

Select a node of device type in the directory tree, and the right side will display all detailed configuration information of the device, including: device information, information of the associated gateway, associated model, etc. At the same time, it also includes the statistics of all variable alarm work orders of the device.



There is a "Settings" button in the upper right corner, through which you can select the data content to be displayed for the device.

After entering the settings, click the "+" or "-" in the upper right corner of the column item to select whether to display or hide the column. Click "Confirm" to make the custom column take effect.



After customization, you can switch between different display pages in the upper right corner of the device details page to monitor the real-time data, alarm status, video monitoring, historical data, etc. of the device.

### 6.5.1 Basic Information

In the directory tree, click a device node to jump to the basic information page of the device. Through the "Edit" button above the directory tree, you can perform add, delete, modify, and query operations on the device, gateway, and model. The edited device, model, or gateway information will be synchronously updated to the device archives, model management, and gateway management.

**Device Information:** Select a device node that needs to be modified, click "Modify Device", and you can edit and modify the original information in the device archives. The modified content and precautions are the same as adding a device. For details, refer to adding a device in section 9.1.1.

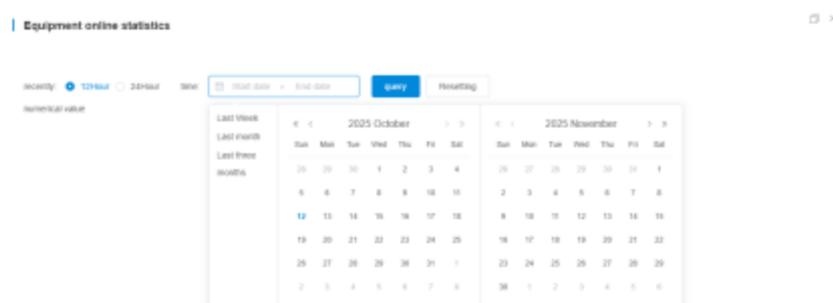
**Refinery 1# Workshop** Basic information Real time History alarm configurat

SN Refinery 1# Workshop

**Device information** Modify device

Device Name:	Refinery 1# Workshop	Equipment serial number:	Refinery 1# Workshop
Device status:	⊗ off line	Operational status:	<span>Operate</span>

Click the device status icon to query the online status of the device (1 indicates the device is online, 0 indicates the device is offline); the pop-up window provides a gateway online curve chart for the last 12 hours by default.



The online curve pop-up window provides quick time range query methods for 12 hours, 24 hours, the last week, the last month, and the last three months; you can enter a custom time range in the time range search box to perform a more accurate query of the device status in the time range.

**Gateway Information:** Select a device node that needs to be modified to modify its associated gateway.

① **Gateway Management:** Click "Gateway Management" to edit and modify the original information of the gateway of the device. The modified content and precautions are the same as adding a gateway. For details, refer to adding a gateway in section 9.3.1.

Gateway information gateway administration [Online curve](#) [DevOps and diagnosis](#) [Configure deployment](#)

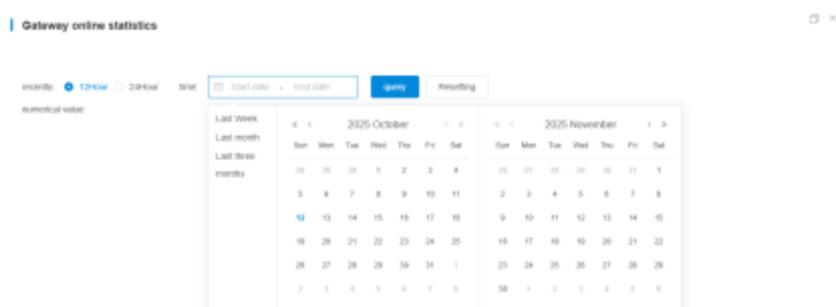
Gateway Name:	WG783WLAN23090805000	Gateway serial number:	WG783WLAN23090805000
Gateway status:	⊗ off line	Gateway signal:	📶

② Online Curve: Query the online status of the gateway (1 indicates the gateway is online, 0 indicates the gateway is offline); the pop-up window provides a gateway online curve chart for the last 12 hours by default. (Clicking the gateway status icon has the same effect.)

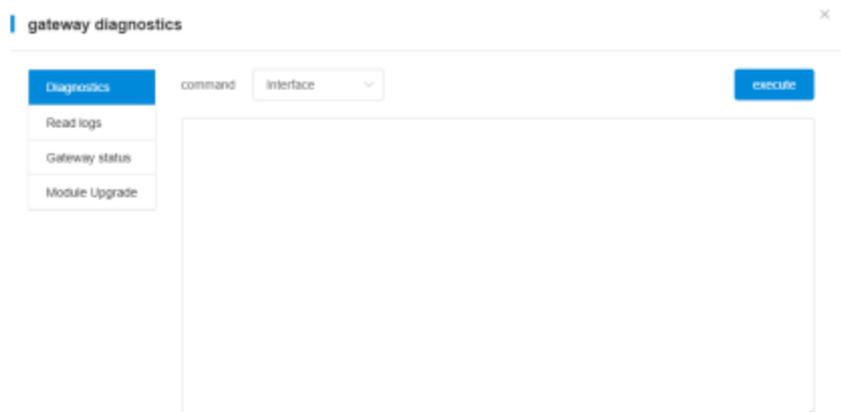
Gateway information [gateway administration](#) Online curve [DevOps and diagnosis](#) [Configure deployment](#)

Gateway Name:	WG783WLAN23090805000	Gateway serial number:	WG783WLAN23090805000
Gateway status:	⊗ off line	Gateway signal:	📶

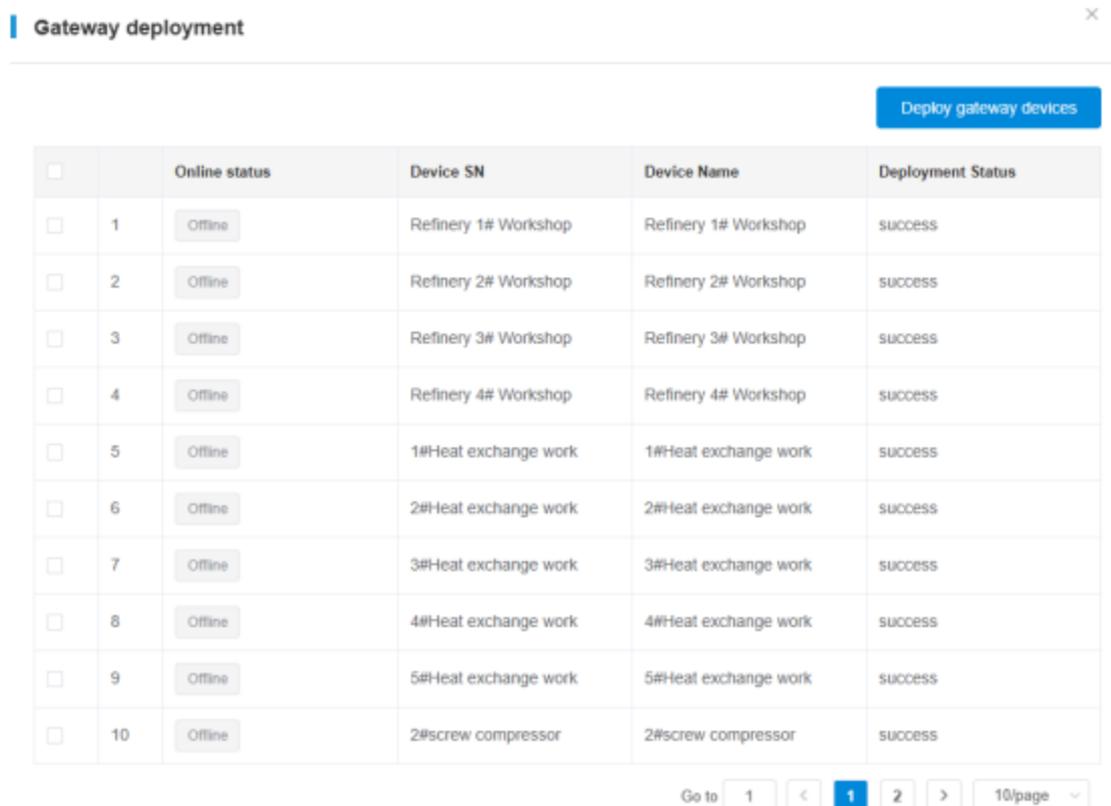
The online curve pop-up window provides quick time range query methods for 12 hours, 24 hours, the last week, the last month, and the last three months; you can enter a custom time range in the time range search box to perform a more accurate query of the gateway status in the time range.



③ Gateway Diagnosis: Responsible for functions such as detailed information of the gateway, status diagnosis, system upgrade, and log tracking.



④Configuration and Deployment: Deploy all devices under the gateway. When the deployment is successful or failed, a corresponding prompt will be given. (After deployment, the deployment status behind each device will display the deployment result.)



**Data Collection Information:** Click "Modify Model" to modify the information of the model associated with the device, the variables owned

by the model, and the configuration owned by the model.

Data acquisition information				<a href="#">Modify model</a>	
Model Name:	Refinery	Model Agreement:	Modbus TCP	Model Interface:	Network interface
ip address:	192.168.1.195	ip port:	503	acquisition cycle:	3

The modified content and precautions are the same as adding a new model. For details, refer to adding a model in 9.2.1. After modifying the model information, click "Confirm" to update the model information, and a prompt of successful operation will be given. After modifying the model information of the device, the modified content will be synchronously updated to the relevant devices in the model management.

Model management
×

---

**Basic information**

\* Name

\* Interface

\* CPU type

TunnelClass

\* Protocol

sort

**Variable Definition**

Defining Variable

Number of defined variables 27 Individual

**ConfigurationDefinition**

Defining Configuration

Number of defined configurations 1 Individual

**grouping strategy**

grouping strategy

Confirm

Cancel

**Statistical Information:** Count the alarm information, work order statistics, and comprehensive statistics of the device.



① Alarm Statistics: Count all alarm counts of the device, including: the number of handled alarms and unhandled alarms, and display them in proportion through a pie chart.

Click "Handled" or "Unhandled" below the alarm data to jump to the alarm platform, and all alarm variable statuses of the device will be displayed.

② Work Order Statistics: Count all work order statuses of the device, including: the total number of all work orders and the number of unhandled work orders, and display them in proportion through a pie chart.

Click "Total" or "Unhandled" below the work order data to jump to the work order platform, and all work order statuses of the device will be displayed.

For the operation of the work order platform, refer to the function introduction of the alarm platform module in section 7.1.

③ Comprehensive Statistics: Count other statuses of the device, including: :

Number of videos: the number of video monitors bound to the device;

Number of variables: the total number of variables owned by the

device;

Number of screens: the number of model configuration screens owned by the device.

## 6.5.2 Real-Time Data

In the device details information, click "Real-Time Data" to jump to the display page of the variable real-time data. The device is bound to the variables and variable groups of the corresponding model. Through the data of the specific devices bound to the model variables, the real-time data of all variables with read permission is displayed. (For variable permission settings, refer to the variable definition function introduction in section 9.2.7.)

You can display different variables by category according to the data groups defined by the model.

The screenshot displays the 'Coating feeder' device details page. The 'Real time' tab is selected. The interface shows a grid of variable data cards. The variables and their values are:

System model	Serial number	Number of servo axes	Device status	Emergency stop	alarm
0.0	0.0	1.0	2.0	0.0	0.0
Working mode	Remaining distance	Processing time	yield	Stamping stroke	Stamping speed
1.0	36.1m	36.2s	1765.0m	33.6mm	95.15mm/s

Each card also shows a timestamp, with the most recent one being red (e.g., 2025-10-12 16:13:30).

Move the mouse to the variable data to view the variable alias of the variable and the time of the last data collection. If no data is collected after a certain period, the data record will be the time and data value of the last collection, and the collection time will turn red. After the

collection device is restored, the real-time data collection will automatically return to normal.

Buttons provided in the upper right corner: Read Now, Table Display, Grid Display.

Read Now: Click "Read Now" to read the latest data immediately.



Table Display: Switch the data display mode to table format.

Coating feeder

SN: HTB5LA01

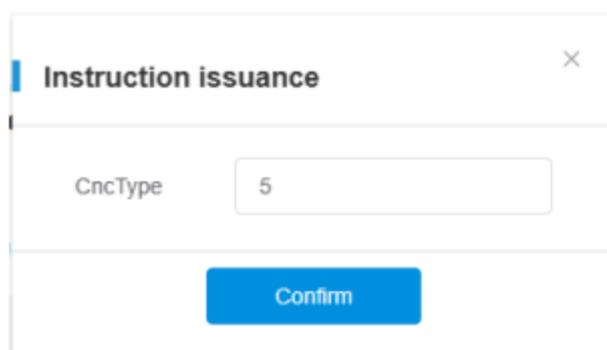
Variable grouping: All alarm

Variable Name: Search Immediate Read

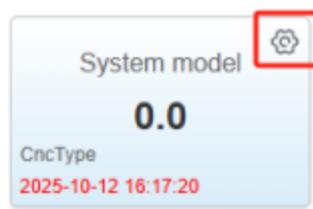
Variable Name	variable aliasing	Variable value	Unit	Read Time	Operate
CrcType	System model	0.0		2025-10-12 16:15:20	Details
SerialNum	Serial number	0.0		2025-10-12 16:15:20	Details
Axes	Number of servo axes	1.0		2025-10-12 16:15:20	Details
Status	Device status	2.0		2025-10-12 16:15:20	Details
Eng	Emergency stop	0.0		2025-10-12 16:15:20	Details
Alarm	alarm	0.0		2025-10-12 16:15:20	Details
Mode	Working mode	1.0		2025-10-12 16:15:20	Details
RemPos	Remaining distance	36.1	m	2025-10-12 16:15:20	Details
CycSec	Processing time	36.2	s	2025-10-12 16:15:20	Details
PlanCat	yield	1765.0	m	2025-10-12 16:15:20	Details
StampStroke	Stamping stroke	33.6	mm	2025-10-12 16:15:20	Details

Go to 1 < 1 > 20/page

Click 'Command Issue' to manually set the value of the variable in the device; (The variable needs to have write permission enabled within the model. For details, please refer to the variable definition function introduction in 9.2.7.)

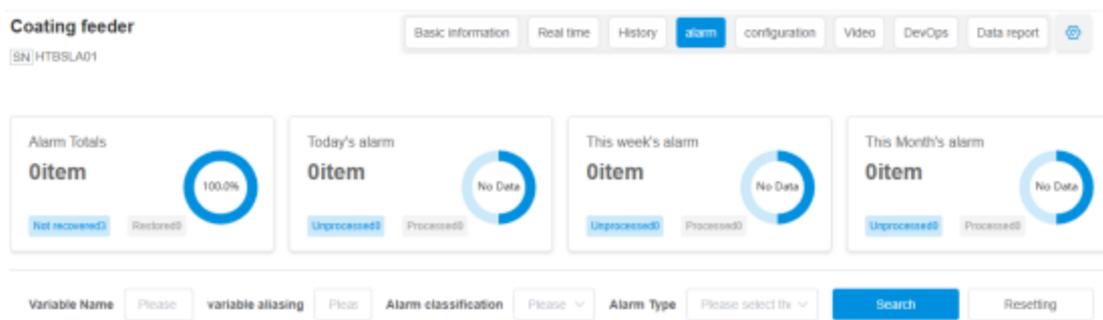


This is the default display form. Click the gear in the upper right corner of each grid to also realize the command issuance operation for variables with write permission. (For variable read and write permissions, refer to the variable definition function introduction in section 9.2.7.)



### 6.5.3 Alarm Data

In the device details information, click "Alarm Data" to jump to the detailed statistics page of alarm data. Among them, the top column is the real-time statistics of the total number of variable alarms of the device, including: total alarms, today's alarms, this month's alarms, and this week's alarms. Click "Unhandled" or "Handled" below different statistical boxes to display the specific content of the unhandled variable alarms or handled variable alarms within the corresponding time range in the data list below.



The data list records the alarm information in more detail, including: the alarmed variable, alarm value, alarm type, and alarm time.

The data list provides query methods: alarm category and alarm type. They can be used together to achieve flexible query. After the query is completed, click "Reset" to clear the content in the search box and display all variable alarm information of the device.

Click a piece of variable alarm data to jump to the alarm platform module; the displayed content is the historical data change of the variable alarm. When the monitoring device triggers a false alarm or the abnormal status is eliminated, the user can perform manual alarm elimination through the manual alarm elimination button on the management platform.

DataList

	variable aliasing	Variable Name	Alarm status	Alarm Type	Alarm Value	Alarm Time
1	Stamping stroke	StampStroke	<a href="#">Manual Clear</a>	High Alarm	2760	2025-05-16 18:49:00
2	Stamping speed	StampSpeed	<a href="#">Manual Clear</a>	High Alarm	1968	2025-05-16 18:49:00
3	Stamping stroke	StampStroke	<a href="#">Manual Clear</a>	High Alarm	2760	2025-05-16 17:48:00
4	Stamping speed	StampSpeed	<a href="#">Manual Clear</a>	High Alarm	1968	2025-05-16 17:48:00

The alarm data list provides query methods: variable name, variable alias, alarm category, and alarm type. They can be used together to achieve flexible query.

After the query is completed, click "Reset" to clear the content in the search box and display all historical alarm information of the variable.

## 6.5.4 Operation and Maintenance Control

In the device details information, click "Operation and Maintenance Control" to jump to the operation and maintenance control page. In the operation and maintenance control, you can perform control operations on variables with write permission. The control operations are divided into single control and multiple control. (For read and write permissions, see the model management module.)

### Single Control:

The screenshot shows the 'Coating feeder' control interface. At the top, there are tabs for 'Basic information', 'Real time', 'History', 'alarm', 'configuration', 'Video', 'Device', and 'Data report'. Below the tabs, there is a 'Variable query' section with a search box and a 'Search' button. The main part of the interface is a 'DataList' table with columns for 'Number', 'Variable Name', 'variable aliasing', 'current value', 'Unit', 'read-write', 'Write value', and 'Operate'. The table contains 9 rows of data, each with a 'Write' button and an 'Execute' button. The 'Operate' column also includes a 'Log' button.

Number	Variable Name	variable aliasing	current value	Unit	read-write	Write value	Operate
1	Cactype	System mode	-	-	Read & Write	5	Write Execute Log
2	Softmark	Serial number	-	-	Read & Write	-	Write Execute Log
3	Axis	Number of servo axes	-	-	Read & Write	-	Write Execute Log
4	Status	Device status	-	-	Read & Write	0	Write Execute Log
5	Emergency	Emergency stop	-	-	Read & Write	1	Write Execute Log
6	Alarm	alarm	-	-	Read & Write	-	Write Execute Log
7	Mode	Working mode	-	-	Read & Write	-	Write Execute Log
8	Remain	Remaining distance	-	in	Read & Write	-	Write Execute Log
9	Cycle	Processing time	-	s	Read & Write	-	Write Execute Log

Select a variable, click "Write", enter the data to be written, and click "Execute" to realize the write data issuance operation; the log can record each control issuance operation.

**Instruction issuance**
×

---

CncType

---

Confirm

The data list of single control provides query methods: variable query (supporting fuzzy query) and data type. They can be used together to achieve flexible query. After the query is completed, click "Reset" to clear the content in the search box and display all variable information of the device.

Single Control
Multiple controls

Variable query

data type

Search
Resetting

Click the "Refresh" button below "Reset" to refresh the variable values in real time.

### Multiple Control:

Single Control
Multiple controls

control name

Search
Resetting

+Add
Refresh

Number	control name	Control purposes	Recent execution time	executor	Operate
1	1	1	2025-03-21 09:26:22	admin@gc	<span style="border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">Edit</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">execute</span> <span style="border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">Delete</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">Log</span>

Go to 1 < 1 > 10page

Click the "Add" button in the upper right corner to pop up the new aggregate control interface.

Add aggregation control
×

---

Basic Settings

Control Description

\* **control name**

\* **Purposes**

\* **Strategy**

+Add

sort: <input style="width: 60%;" type="text" value="1"/>	Variable: <input style="width: 60%;" type="text" value="Please select"/>	Value: <input style="width: 60%;" type="text" value="Please enter"/>	Await: <input style="width: 60%;" type="text" value="Please select"/>	⊖
sort: <input style="width: 60%;" type="text" value="2"/>	Variable: <input style="width: 60%;" type="text" value="Please select"/>	Value: <input style="width: 60%;" type="text" value="Please enter"/>	Await: <input style="width: 60%;" type="text" value="Please select"/>	⊖
sort: <input style="width: 60%;" type="text" value="3"/>	Variable: <input style="width: 60%;" type="text" value="Please select"/>	Value: <input style="width: 60%;" type="text" value="Please enter"/>	Await: <input style="width: 60%;" type="text" value="Please select"/>	⊖

Confirm
Cancel

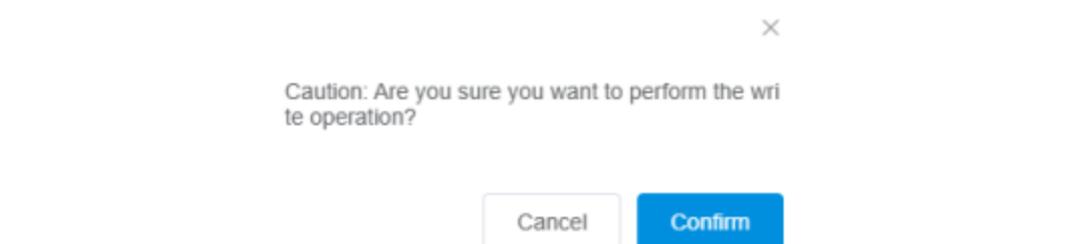
The text boxes marked with \* are mandatory. If no input is made, the new aggregate control will fail, and the interface will give a corresponding filling prompt.

Execution strategy: sequential execution or concurrent execution can be selected; sequential execution means multiple operations are executed in sequence according to the sorting; concurrent execution means multiple operations are executed simultaneously.

Click the "Add" button to add an execution action, select the variable to be executed in "Variable Selection", and enter the data to be written in "Value".

After adding the aggregate control, select a control and click

"Execute" to realize the write data issuance operation; the log can record each control issuance operation.

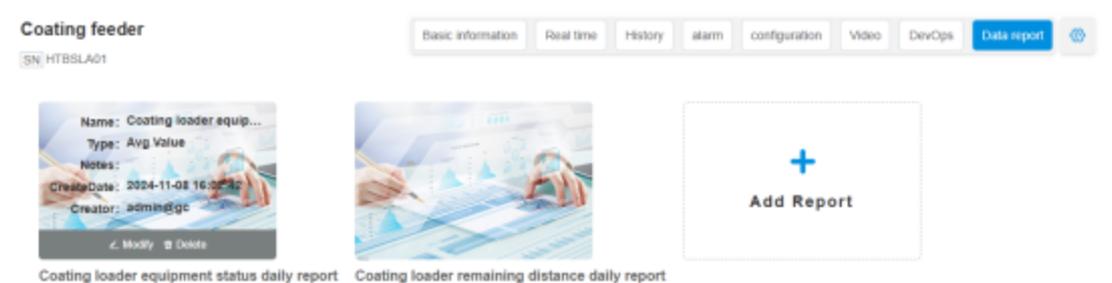


The data list of multiple control provides a query method: control name (supporting fuzzy query). After the query is completed, click "Reset" to clear the content in the search box and display all control information of the device.

Click the "Refresh" button below "Reset" to refresh the latest execution time of the control in real time.

### 6.5.5 Data Report

In the device details information, click "Data Report" to jump to the display page of the data report.

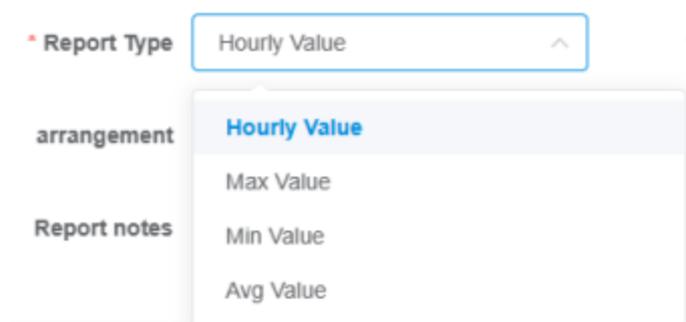


#### Report Addition:

Click "Add Report" to generate a corresponding report for the variables of the device. Among them: report type, report variables,

display form, report date type, etc. provide flexible creation methods for report creation.

①Report Type: Hourly Value, Maximum Value, Minimum Value, Average Value (taking daily report as an example)



**Hourly Value:** The variable value is the value at each hour point of the day; (for example: the value at 9:00, the value at 10:00)

**Maximum Value:** The variable value is the maximum value within each time period; (for example: the maximum value from 9:00 to 9:59 is the value within the 9:00 time period)

**Minimum Value:** The variable value is the minimum value within each time period; (for example: the minimum value from 9:00 to 9:59 is the value within the 9:00 time period)

**Average Value:** The variable value is the average of all data within each time period; (for example: the average of all values from 9:00 to 9:59 is the value within the 9:00 time period)

②Report Variables: All variables in the device. After checking the variables to be made into a report, click "Confirm" to bind the selected variables for report generation (multiple selections are allowed).

Variable
✕

Variable Name 
variable alias 
Variable type

<input type="checkbox"/>	Variable Name	variable aliasing	Variable type
<input type="checkbox"/>	CrcType	System model	SHORT
<input type="checkbox"/>	SerialNum	Serial number	USHORT
<input type="checkbox"/>	Axis	Number of servo axes	SHORT
<input type="checkbox"/>	Status	Device status	SHORT
<input type="checkbox"/>	Emg	Emergency stop	SHORT
<input type="checkbox"/>	Alarm	alarm	SHORT
<input type="checkbox"/>	Mode	Working mode	SHORT
<input type="checkbox"/>	RemPos	Remaining distance	SHORT

Total 12
10/page
<
1
2
>
Go to

Confirm
Cancel

There are two ways to query device archives: variable name (supporting fuzzy query), variable alias (supporting fuzzy query), and variable type; these three query methods can be combined for quick and flexible query. After the query is completed, click "Reset" to clear the content in the search box and display all device archive information of the account.

③Display Form: Select the default display form of the report. You can switch the display form when clicking into the report. The display forms include: table list, curve chart, and bar chart.

Demonstrations

Table List

Date type

Table List

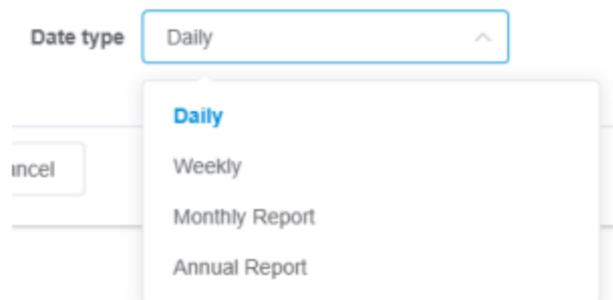
Graph

Column Chart

Cancel

④Report Date Type: Reports can be made in different time period forms such as daily report, weekly report, monthly report, and annual

report.



After selecting the required report type to be created, click "Confirm" to successfully create the report.

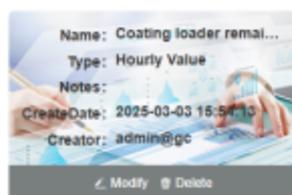
Move the mouse to the report, and you can choose to modify or delete the report.

Report Modification:

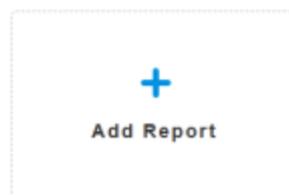
Click "Modify" to modify the created report; the modified content and precautions are the same as adding a new report.



Coating loader equipment status daily report

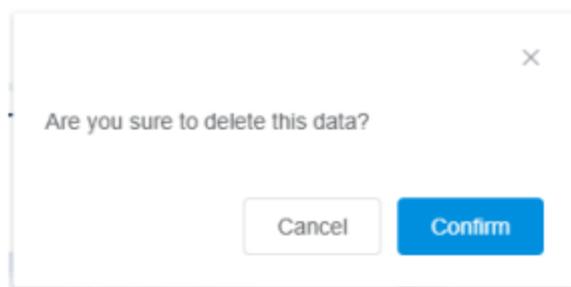


Coating loader remaining distance daily report



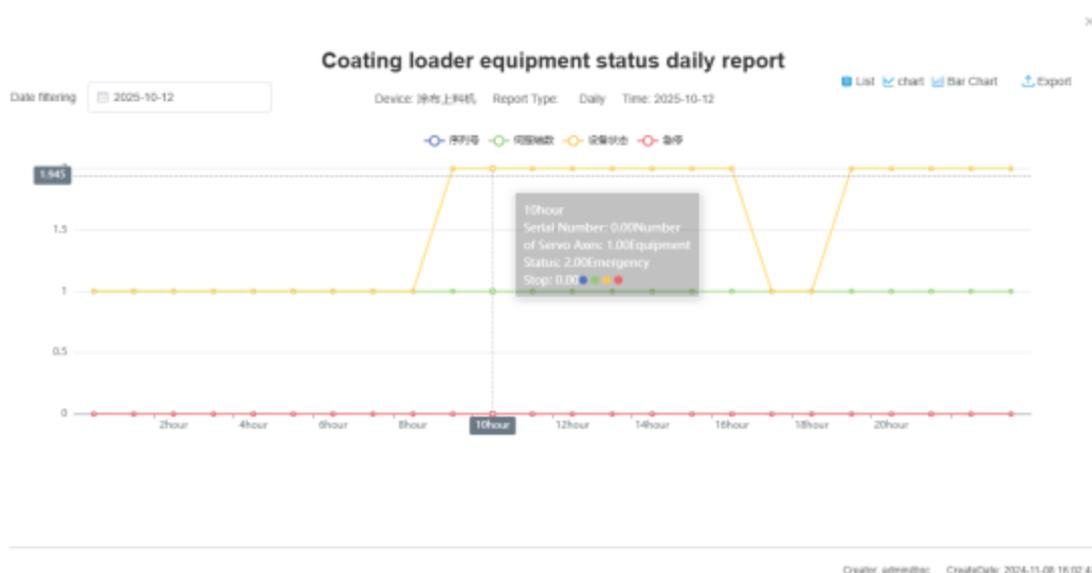
Report Deletion:

Click "Delete" to delete the created report. A deletion confirmation pop-up window will appear. Click "Confirm" to delete the report.



### Report Viewing:

Click the report to view the created report data; the report is displayed in the default display form set during creation. The report has three forms that can be converted: list, chart, and bar chart.



Header display: report title, the device and variables from which the report data is sourced, and report creation time.;

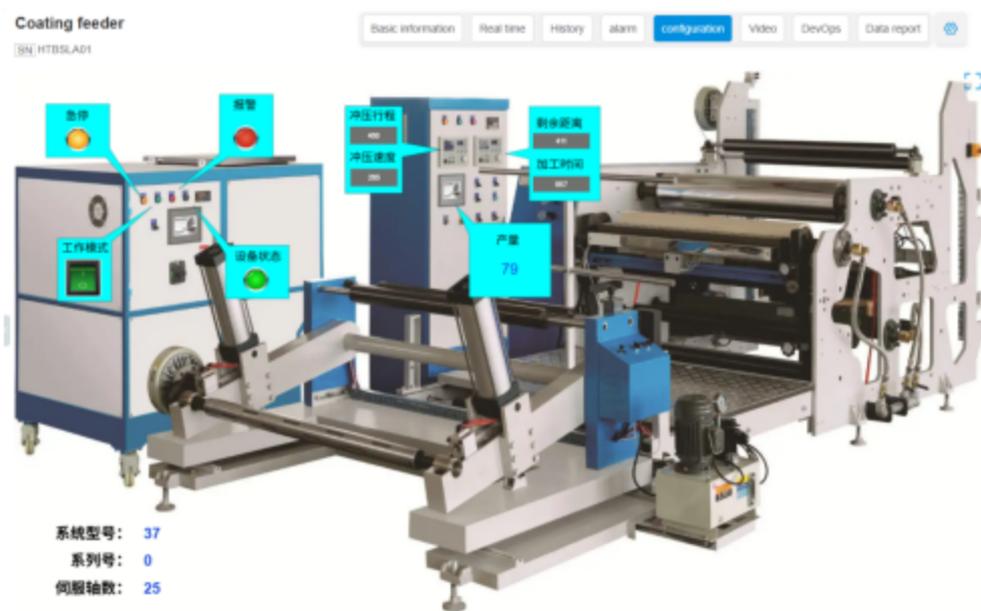
Footer display: the time when the report was created and the account that created the report.

Report data display: moving the mouse over the report can display the variable data values on the report curve; you can use the mouse wheel to zoom in or out the graph; by dragging the module below the

graph, you can move and zoom in/out the display area of the report graph.

### 6.5.6 Configuration Screen

In the device details information, click "Configuration Screen" to jump to the display page of the configuration screen. The configuration screen is the configuration screen of the model bound to the device, and the internal data display is the data display of the device variables. Click "Maximize" in the upper right corner to display the configuration screen of the device in full screen.



### 6.5.7 Historical Data

In the device details information, click "Historical Data" to jump to the detailed statistics page of historical data.

Query:

Among them, the top column can query the variable values within the corresponding time according to the variable name, group, target variable data value, or custom time range.

Coating feeder

SN: HTB8LA01

Basic information Real time **History** alarm configuration Video DevOps Data report

Device online Gateway online Export

Variable Name  Time frame 2025-10-12 00:00:00 to 2025-10-12 16:34:00 Search Resetting Table Curve

advanced search

DataList

Serial Number	Variable Name	variable aliasing	numerical value	Unit	grouping	time	Operate
1	StampSpeed	Stamping speed	693	mm/s	alarm	2025-10-12 16:34:00	set up
2	StampStroke	Stamping stroke	775	mm	alarm	2025-10-12 16:34:00	set up
3	PierCrt	yield	1863	m		2025-10-12 16:34:00	set up
4	CycSec	Processing time	36.2	s		2025-10-12 16:34:00	set up
5	RemPos	Remaining distance	36.1	m		2025-10-12 16:34:00	set up
6	Mode	Working mode	1			2025-10-12 16:34:00	set up
7	Alarm	alarm	0			2025-10-12 16:34:00	set up
8	Eng	Emergency stop	0			2025-10-12 16:34:00	set up
9	Status	Device status	0			2025-10-12 16:34:00	set up
10	Axis	Number of servo axis	1			2025-10-12 16:34:00	set up

Get to 1 2 3 4 5 6 ... 14824 10/page

There are two ways to query the historical data of variables: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

By default, the most practical and frequently used query fields are provided for query, including: variable name, customer code, and time range.

Click "Advanced Search" to add fields such as variable group, numerical value to the search items in the search box, which can increase the flexibility of historical data search.

Variable Name  Time frame  to        Table  Curve

Variable grouping  numerical value

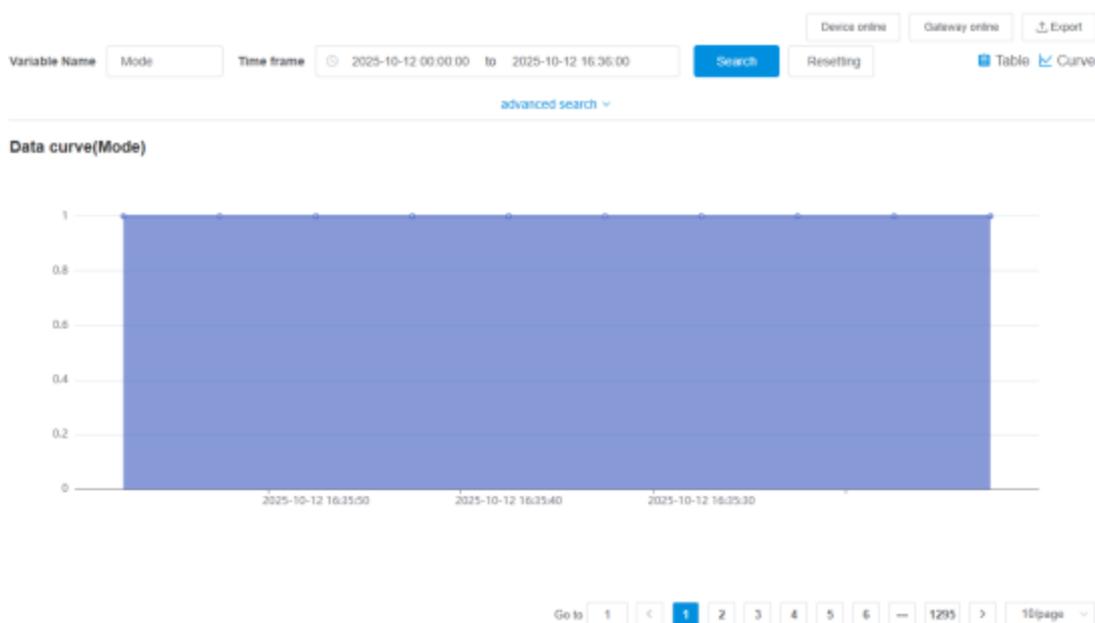
[advanced search ^](#)

After the query is completed, click "Reset" to clear the content in the search box and display all historical data information of the account.

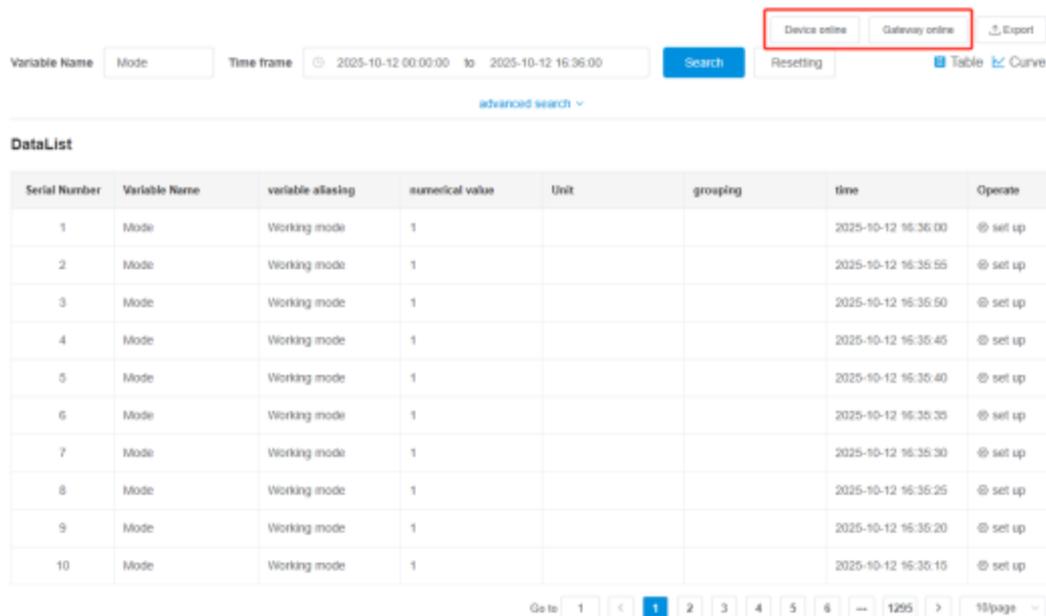
### Curve Chart Switching:

The display forms of historical data are two types: table (default) and curve.

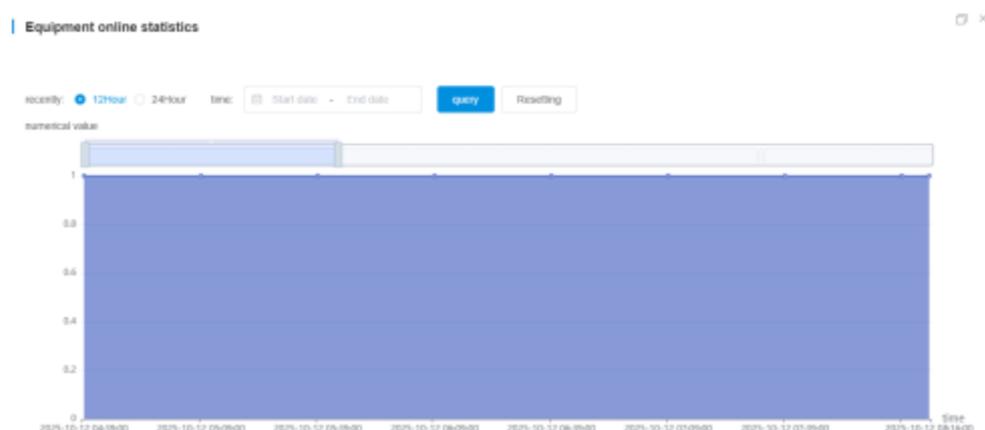
Click the "Curve" form to switch to the curve display form. Moving the mouse over the curve can display the value of the corresponding variable.



Click the "Device Online" and "Gateway Online" buttons to query the online status (1 indicates online, 0 indicates offline); the pop-up window provides an online curve chart for the last 12 hours by default.



The online curve pop-up window provides quick time range query methods for 12 hours, 24 hours, the last week, the last month, and the last three months; you can enter a custom time range in the time range search box to perform a more accurate query of the device status in the time range.



### Export Function:

The export function provides quick export of device variable historical data information.

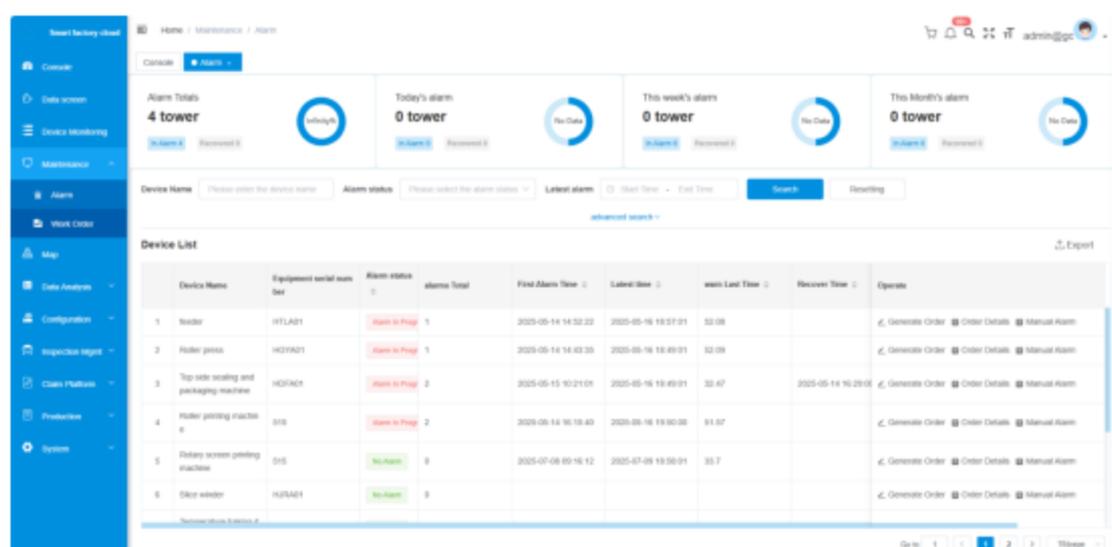




## 7. Operation and Maintenance

### 7.1 Alarm Platform

In the left menu bar, click "Operation and Maintenance" - "Alarm Center" to jump to the alarm platform page. This function mainly manages the relevant information of all device alarms and device variable alarms in the account.



This function module provides functions such as work order generation, manual alarm elimination, alarm status and count for alarm data. The interface also provides a quick query function for various alarm information fields, and you can enter keywords for data retrieval.

#### 7.1.1 Alarm Statistics

Any change in the alarm status in the alarm platform will be displayed in real time in the statistical column at the top of the alarm platform, including: total alarms, today's alarms, this week's alarms, and

this month's alarms.



The statistical column counts the number of all alarm devices of the user, including: the number of devices in alarm and the number of recovered devices, and displays them in proportion through a pie chart.

Click "In Alarm" or "Recovered" below the alarm data to display the specific content of the devices in alarm or recovered devices within the corresponding time range in the device list below.

## 7.1.2 Alarm List Overview

In the device list of the alarm platform, you can directly view the alarmed device name and device serial number.

① In the device alarm information, the current alarm status, total number of alarms, first alarm time, and latest alarm time of the device will be displayed in real time; and the work order status indicating whether a work order has been generated for the device alarm.

Device List Export

Device Name	Equipment serial number	Alarm status	alarms Total	First Alarm Time	Latest time	warn Last Time	Recover Time	Operate
1 loader	HTLA01	Alarm in Prog	1	2025-05-14 14:52:22	2025-05-15 18:57:01	52.99		Generate Order Order Details Manual Alarm
2 Roller press	HQND01	Alarm in Prog	1	2025-05-14 14:43:35	2025-05-15 18:49:01	52.99		Generate Order Order Details Manual Alarm
3 Top side sealing and packaging machine	HDFAD1	Alarm in Prog	2	2025-05-15 10:21:01	2025-05-15 18:49:01	52.47	2025-05-14 16:29:02	Generate Order Order Details Manual Alarm
4 Roller printing machines	S15	Alarm in Prog	2	2025-05-14 16:15:40	2025-05-15 19:50:08	51.57		Generate Order Order Details Manual Alarm
5 Rotary screen printing machines	S15	No Alarm	0	2025-07-08 09:16:12	2025-07-09 18:50:01	53.7		Generate Order Order Details Manual Alarm
6 Slice velder	HURAD1	No Alarm	0					Generate Order Order Details Manual Alarm

Go to: 1 2 3 4 5 10page

②A device has multiple variables. Click the corresponding device

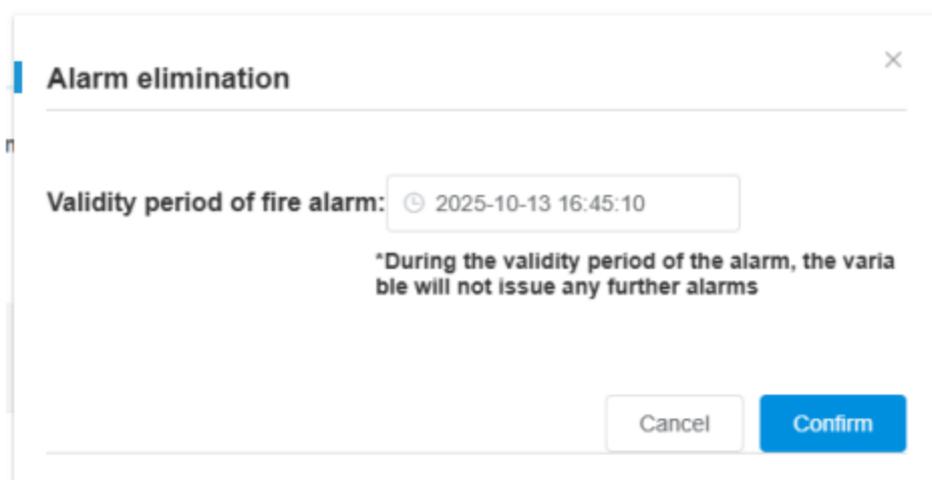
alarm information to further view the detailed alarm status of each specific variable in the device.

	Variable Name	variable aliasing	Alarm Value	Alarm status	Number of alarms	Latest alarm time	First Alarm Time	Validity period of the alarm	Operate
1	WorkMaterial	Material solvent	0002	Alarm in Progress	130	2025-05-16 18:57:01	2025-05-15 19:26:34	-	Manual Alarm
2	Alarm	alarm	-	No Alarm	-	-	-	-	Manual Alarm
3	WorkTime	Working hours	-	No Alarm	-	-	-	-	Manual Alarm
4	QualifiedRate	Rate	-	No Alarm	-	-	-	-	Manual Alarm
5	Quantity	production output	-	No Alarm	-	-	-	-	Manual Alarm
6	Status	Device status	1	Manual Alarm	200	2025-05-16 18:57:01	2025-05-15 19:26:34	-	Manual Alarm
7	WorkTrack	Workpiece thickness	-	Manual Alarm	-	-	-	-	Manual Alarm

When you click into the alarmed device, the current alarm value (based on the latest alarm value), alarm status (based on the latest alarm value), total number of alarms, first alarm time, and latest alarm time of all alarm variables of the device will be displayed in real time.

There is a "Refresh" button in the upper right corner of the variable list to refresh the variable alarm status in real time.

Each variable alarm information is followed by "Manual Alarm Elimination". Click "Confirm" to cancel the alarm status of the variable and set the current status to recovered. (When the variable alarms again, it will return to the alarm status.)



The top column of the menu provides two query methods for the

variable alarm list: alarm category and alarm type. These two query methods can be used together to provide a flexible query method of multi-input box combination query.

After the query is completed, click "Reset" to clear the content in the search box and display all variable alarm information of the device.

③A variable can have multiple alarm data entries. Click the corresponding device alarm variable to further view the detailed information of each alarm of the specific variable, including: the alarm value, alarm type, alarm time, etc. of each time.

WorkMaterial Alarm List return Refresh

<input type="checkbox"/>	Variable Name	variable aliasing	Alarm Value	Alarm Type	Fault description	Alarm Time
<input type="checkbox"/>	1 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 10:57:00
<input type="checkbox"/>	2 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 10:41:30
<input type="checkbox"/>	3 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 10:26:00
<input type="checkbox"/>	4 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 10:13:30
<input type="checkbox"/>	5 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 17:55:00
<input type="checkbox"/>	6 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 17:39:30
<input type="checkbox"/>	7 WorkMaterial	Material solvent	5592	High Alarm		2025-05-16 17:24:00
<input type="checkbox"/>	8 WorkMaterial	Material solvent	5206	High Alarm		2025-05-16 17:08:30
<input type="checkbox"/>	9 WorkMaterial	Material solvent	5206	High Alarm		2025-05-16 16:53:00
<input type="checkbox"/>	10 WorkMaterial	Material solvent	5206	High Alarm		2025-05-16 16:37:30

There is a "Refresh" button in the upper right corner of the variable list to refresh the variable alarm status in real time.

The top column of the menu provides two query methods for the variable alarm list: alarm category and alarm type. These two query methods can be used together to provide a flexible query method of multi-input box combination query.

Click "Reset" to clear the content in the search box, and the list displays all video platforms.

### 7.1.3 Generate Work Order

In the device alarm information list, select a piece of alarm device information that needs to generate a work order, click "Generate Work Order", and a corresponding work order can be generated for the alarmed device (the work order type and associated device are automatically filled in and cannot be modified). The content of creating a work order is the same as that of creating a work order in the work order platform. For details, refer to adding a work order in section 7.2.2.

The screenshot shows the 'Work order creation' modal window. On the left, there's a sidebar with 'Alarm Totals' (4 tower) and 'Device List' (a table with 2 rows: Inverter, Roller press). The main area contains the 'Work order creation' form with fields for Order Number, Order Type, Order Title, Order Content, Devices, and Finish State. A 'Confirm' button is at the bottom. On the right, there's a 'This Month's alarm' section showing 0 tower alarms.

After creating the work order, click "Confirm" to complete the creation of the alarm work order, and a prompt of successful operation will be given. After the work order is successfully created, the updated work order information can be seen in the work order hall of the work order platform.

**Note:** Only one work order can be generated for each device.

## 7.1.4 Work Order Details

In the device alarm information list, select a piece of alarm device information for which a work order has been generated, click "Work Order Details", and you can view the detailed information of the work order processing progress. (Clicking is invalid for alarmed devices without work orders.)

Device List Export

Device Name	Equipment serial number	Alarm status	alarm total	First Alarm Time	Last Alarm Time	Warn Last Time	Recover Time	Operate
1	freder	HTLAB1	Alarm in Prog 1	2025-05-14 14:52:22	2025-05-16 19:57:31	02:36		Generate Order Order Details Manual Alarm
2	Roller press	HQYH01	Alarm in Prog 1	2025-05-14 14:43:35	2025-05-16 19:49:31	02:39		Generate Order Order Details Manual Alarm
3	Top side sealing and packaging machine	HQYH01	Alarm in Prog 2	2025-05-15 19:21:31	2025-05-16 19:49:31	02:47	2025-05-14 19:29:08	Generate Order Order Details Manual Alarm
4	Roller pressing machine	013	Alarm in Prog 2	2025-05-14 15:15:40	2025-05-16 19:50:36	01:57		Generate Order Order Details Manual Alarm
5	Rotary screen pressing machine	013	No Alarm 0	2025-07-09 09:16:12	2025-07-09 19:36:31	03:7		Generate Order Order Details Manual Alarm
6	Slicer winder	HURM01	No Alarm 0					Generate Order Order Details Manual Alarm

The progress details of the work order are the same as the work order details on the work order platform page.

Work order processing X  
\*Required

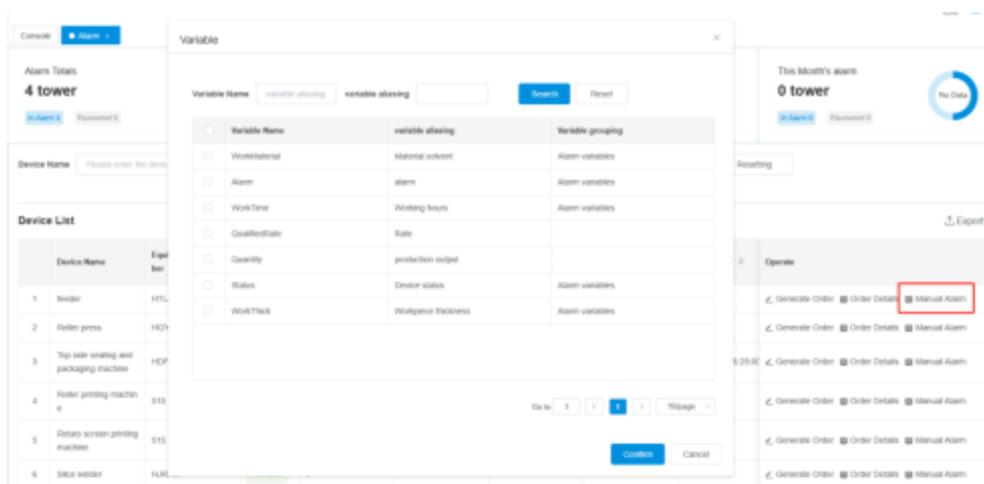
Unaccepted orders → **Received order** → Processing → Completed → Accepted

Order Content	
Order Title	Test
Order Number	5175516121184627
Order Type	Alarm Process
Creator	ks@jgc
CreateDate	2025-08-14 16:47:20
Order recipient	ks@jgc
Accept Time	2025-08-29 13:55:55
Start Time	2025-08-29 13:55:19
Completion time	2025-08-30 13:55:19
Customer Name	Customer Head Phone
Device binding	Compact spinning machine customer address
Order Content	Test test test

## 7.1.5 Manual Alarm Elimination

Each piece of device alarm information is followed by a "Manual Alarm Elimination" button. Click "Confirm" to cancel the alarm status of all variables in the alarmed device and set the alarm status of all alarm

variables of the current alarmed device to recovered. (When the variables alarm again, the device will return to the alarm status.)



## 7.1.6 Query Alarm

The ways to query alarmed devices: by default, the most practical and frequently used query fields are provided for query, including: device name (supporting fuzzy query), alarm status, and time range of the latest alarm. Multiple query methods can be used together to increase the flexibility of query methods.



Click "Advanced Search" to add fields such as the time range of the start of the alarm to the search items in the search box, which can increase the flexibility of searching for alarmed devices.



After the query is completed, click "Reset" to clear the content in the

search box and display all alarmed device information of the account.

## 7.1.7 Export

The export function provides quick export of device alarm data information.

Device List Export

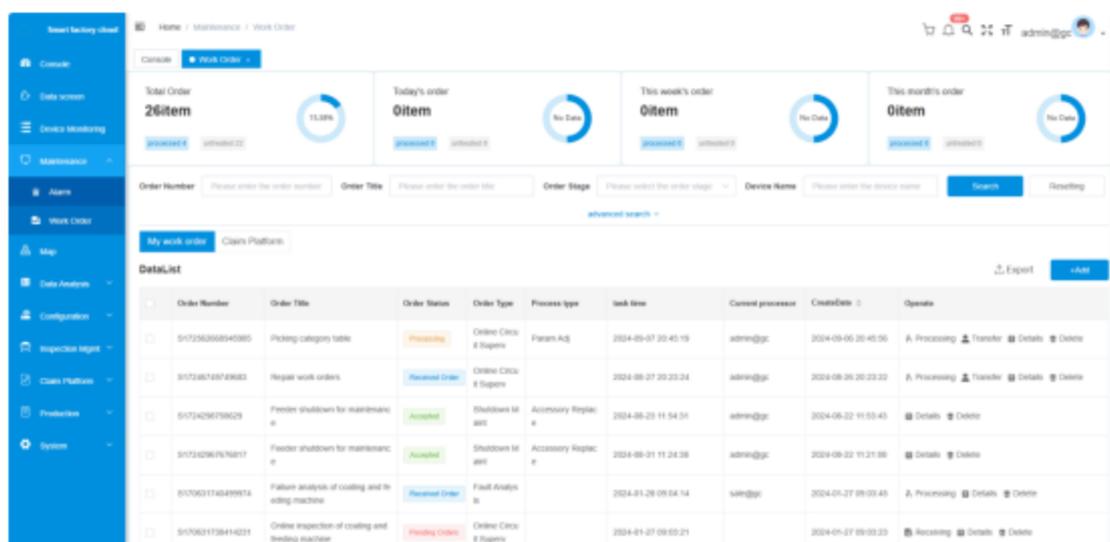
Device Name	Equipment serial number	Alarm status	alarm Total	First Alarm Time	Latest time	warn Last Time	Recovery Time	Operate
1 feeder	H7LAD1	Alarm in Prog	1	2025-05-14 14:32:22	2025-05-16 10:57:01	32:08		Generate Order Order Details Manual Alarm
2 Roller press	H0YAD1	Alarm in Prog	1	2025-05-14 14:43:35	2025-05-16 10:49:01	32:08		Generate Order Order Details Manual Alarm
3 Top side-rolling and packaging machine	H0FA01	Alarm in Prog	2	2025-05-15 10:21:01	2025-05-16 10:49:01	32:47	2025-05-14 16:29:03	Generate Order Order Details Manual Alarm
4 Roller printing machine	S15	Alarm in Prog	2	2025-05-14 16:15:40	2025-05-16 10:58:00	51:57		Generate Order Order Details Manual Alarm
5 Rotary screen printing machine	S15	No Alarm	0	2025-07-08 09:16:12	2025-07-08 10:38:01	33:7		Generate Order Order Details Manual Alarm

Click the "Export" button in the upper right corner to export all alarmed device information in the account; the exported information is saved to the specified path of the computer host in the form of an Excel file.

Device Name	Device ID	Alarm Status	Total Alarm	First Alarm Time	Latest Alarm Time	Work Order Generated	Order Status	Alarm Description Phrase	Recovery Time	Variable Name	Variable Alias	Alarm Status	Alarm Value
1 Water compressor	Water compressor	No Alarm	0							Instantaneous flow 1	Instantaneous flow 1	WARN	115
2 Heat exchange work	Heat exchange work	No Alarm	2							Hot supply temperature	Hot supply temperature	WARN	162
3 Smart meter	Smart meter	No Alarm	0										
4 Water compressor	Water compressor	No Alarm	0										
5 Heat exchange work	Heat exchange work	No Alarm	0										
6 Heat exchange work	Heat exchange work	No Alarm	0				Processing						
7 Heat exchange work	Heat exchange work	No Alarm	0										
8 Rotary 1#	Rotary 1#	No Alarm	0										
9 Rotary 2#	Rotary 2#	No Alarm	0										
10 Name	101	No Alarm	0										
11 Water compressor	Water compressor	No Alarm	0										
12 Heat exchange work	Heat exchange work	No Alarm	0							进水管温度	进水管温度	WARN	215
13 Rotary 2#	Rotary 2#	No Alarm	0										
14 Heat exchange work	Heat exchange work	No Alarm	0										
15 Heat exchange work	Heat exchange work	No Alarm	0				Accepted						
16 Rotary 3#	Rotary 3#	No Alarm	0										
17 Processing work	Processing work	No Alarm	0										
18 Heat exchange work	Heat exchange work	No Alarm	0										
19 Rotary 4#	Rotary 4#	No Alarm	0										
20 Smart meter	Smart meter	No Alarm	0										

## 7.2 Work Order Platform

In the left menu bar, click "Operation and Maintenance" - "Work Order Platform" to jump to the work order platform page. This function mainly manages the relevant information of all device work orders in the account.



This function module provides functions such as creation, transfer, viewing, distribution, and claim of device work orders. The interface also provides a quick query function for various work order information fields, and you can enter keywords for data retrieval.

#### Note:

Once a work order is successfully created, it cannot be modified and can only be deleted and recreated.

There are two ways to create a work order: alarm work orders for selected devices created in the alarm platform module, and various types of work orders created in the work order platform module.

The work order platform page is divided into two types: My Work Orders and Claim Platform.

**My Work Orders:** Work orders claimed by myself, work orders assigned to myself, and work orders created by myself.

**Claim Platform:** All work orders created by all accounts within the organization.;

## 7.2.1 Work Order Statistics

Any creation, deletion, or acceptance of work orders within the organization in the work order platform will be displayed in real time in the statistical column at the top of the work order platform, including: total work orders, today's work orders, this week's work orders, and this month's work orders.



Click "Handled" or "Unhandled" below the work order data to display the specific content of the handled or unhandled work orders within the corresponding time range in the device list below.

Note: Clicking in the "My Work Orders" page will only display the work order information under the corresponding conditions in "My Work Orders".

Click "Reset" to clear the content in the search box, and the list displays all work order information under the current table page.

## 7.2.2 Add Work Order

In the device information list of the work order, click "Add" in the upper right corner to generate a new work order.

Work Order Number: Automatically generated by the system and cannot be modified.

**Work Order Type:** The type of processing required for the device, including alarm processing, online inspection, shutdown maintenance, program upgrade, fault analysis, quick maintenance, etc.

**Work Order Title:** The core content of the work order, which provides a concise and clear introduction in the work order list.

The screenshot displays the 'Work order creation' form. On the left, a sidebar shows 'Total Order 26item' and a 'DataList' table with columns for 'Order Number' and 'Claim'. The main form has the following fields: 'Order Number' (pre-filled with 'S1722626894596'), 'Order Type' (dropdown menu), 'Order Title' (text input), 'Order Content' (rich text editor), 'Devices' (checkbox list), and 'Finish Time' (date and time picker). A 'Confirm' button is at the bottom. On the right, a 'This month's order OItem' summary card shows 'No Data' and a 'Processing' button.

**Associated Devices:** Select the devices that need work order processing (multiple devices can be selected).

Click the "Associated Device Box", the list is the list of existing devices of the account. Select the target device and click "Confirm" to bind the target device.

Device binding
✕

Equipment ser  
ial number

Please enter

Device Name

Please enter

Operational st  
atus

Please se

	Equipment serial number	Device Name	Model Name	Operational status
<input type="checkbox"/>	HTLA01	feeder	feeder	Operate
<input type="checkbox"/>	HTBSLA01	Coating feeder	Coating feeder	Operate
<input type="checkbox"/>	HGYA01	Roller press	Roller press	Operate
<input type="checkbox"/>	HQPA01	Material slicer	Material slicer	Operate
<input type="checkbox"/>	HJRA01	Slice winder	Slice winder	Operate
<input type="checkbox"/>	HDF A01	Top side sealing and packaging m achine	Top side sealing and packaging m achine	Operate
<input type="checkbox"/>	HHKA01	Temperature baking dehumidifier	Temperature baking dehumidifier	Operate
	Rafferv roll levirt inortline marhin	Rafferv roll levirt inortline marhin		

Total 17
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1
2
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Go to
1

The top of the pop-up window provides a search box for quickly querying device archives. There are two search methods: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

**Completion Time:** The expected time by which the work order needs to be processed.

One device can create multiple work orders, and one work order can be bound to multiple devices.

Click "Confirm" to complete the creation of the work order, and a prompt of successful operation will be given. After the work order is successfully created, the updated work order information can be seen in the "Claim Platform" and "My Work Orders".

The text boxes marked with \* are mandatory. If no input is made, the

addition of new work order information will fail, and the interface will give a corresponding filling prompt.

### 7.2.3 Claim/Accept Work Order

Only one person can process a work order, so it is necessary to obtain the processing right of the work order first.

The processing right of the work order can be obtained in both "My Work Orders" and "Claim Platform".

Click "Accept" in "My Work Orders" to obtain the processing right of the work order created by yourself.

The screenshot shows a web interface with a 'Claim Platform' tab. A 'Receiving' modal window is open, displaying 'Start Time' (2025-10-12 16:36:52) and 'Completion time' (2025-10-13 16:36:52). Below the modal is a table of work orders. The table has columns for Order Number, Order Title, Order Status, Start Time, Completion Time, Current processor, CreateDate, and Operate. The 'Operate' column contains buttons for 'Processing', 'Transfer', 'Details', and 'Delete'. One row, with Order Number 51736203588575, has a 'Receiving' button highlighted with a red box.

Order Number	Order Title	Order Status	Start Time	Completion Time	Current processor	CreateDate	Operate
517292552945985	Picking category label	Accepted			admin@gpc	2024-09-06 20:40:06	Processing Transfer Details Delete
517248740749693	Repair work orders	Accepted			admin@gpc	2024-08-26 20:23:22	Processing Transfer Details Delete
5172429879829	Feeder shutdown for maintenance	Accepted	2024-08-23 11:34:31		admin@gpc	2024-08-22 11:33:43	Details Delete
517242967676817	Feeder shutdown for maintenance	Accepted	2024-08-21 11:24:36		admin@gpc	2024-08-22 11:21:06	Details Delete
5173621730289974	Failure analysis of coating and feeding machine	Failed Order	2024-01-28 09:04:14		sale@gpc	2024-01-27 09:03:45	Processing Details Delete
5173621738414221	Online inspection of coating and feeding machine	Pending Order	2024-01-27 09:03:21		admin@gpc	2024-01-27 09:03:23	Receiving Details Delete
5173621736176190	Coating and feeding machine system upgrade	Failed Order	2024-01-28 09:04:16		admin@gpc	2024-01-27 09:03:04	Processing Transfer Details Delete
5173620354915980	Feeder failure analysis	Failed Order	2024-02-01 10:10:42		admin@gpc	2024-01-26 18:05:05	Processing Transfer Details Delete
51736203588575	The feeder upgrades the PLC program	Pending Order	2024-01-26 18:05:27		admin@gpc	2024-01-26 18:05:38	Receiving Details Delete
5173620349341063	Online inspection of feeding machine	Accepted	2024-01-28 09:04:18		admin@gpc	2024-01-26 18:05:08	Details Delete

Click "Accept" in the "Claim Platform" to obtain the processing right of the target work order within the organization (including work orders created by yourself).

Note:

Once a work order is claimed by someone, others cannot claim it

again.

Planned Start Time: Defaults to the current time. (Can be adjusted customarily.)

Planned Completion Time: Defaults to the time 24 hours later. (Can be adjusted customarily.)

Click "Confirm" to complete the acceptance of the work order, and a prompt of successful operation will be given. After the work order is accepted, the status changes to "Accepted". The acceptor can click "In Progress" in "My Work Orders" to process the work order. In the "Claim Platform", only the processing status of the order can be viewed, and no operation is allowed. (The same applies to the work order creator in "My Work Orders".)

## 7.2.4 Work Order Details

In the work order information list, click "Details" behind the work order information to view the processing progress of the order. (In the details stage, no one can modify any information of the work order.)

Order Title	Online inspection of feeding machine		
Order Number	817622960041884	Order Type	Admin Process
Creator	admin@gc	Created Date	2025-10-12 16:57:58
Order recipient		Accept Time	
Start Time		Completion time	2025-10-31 08:00:00
Customer Name		Customer Head Phone	
Device binding	feeder	customer address	
Order Content			

Order Number	Device binding	Order Content	Status	Online Circu	Pream-Adj	Date	User	Time
517622960041884								
517262600348985	Picking category table		Processing	Online Circu 4 Segem		2024-09-07 20:45:19	admin@gc	2024-09-06 20:45:08

## 7.2.5 Search Work Order

The ways to query work orders: by default, the most practical and frequently used query fields are provided for query, including: work order number (supporting fuzzy query), work order title (supporting fuzzy query), and device name (supporting fuzzy query). Multiple query methods can be used together to increase the flexibility of query methods.



The screenshot shows a search interface with four input fields: "Order Number" (text input), "Order Title" (text input), "Order Stage" (dropdown menu), and "Device Name" (text input). To the right of these fields are two buttons: "Search" (blue) and "Resetting" (grey). Below the fields is a link labeled "advanced search -".

Click "Advanced Search" to add fields such as work order type, processing type, and creation time to the search items in the search box, which can increase the flexibility of searching for alarmed devices.



The screenshot shows the advanced search interface. It includes the same four fields as the basic search, plus three additional fields: "Order Type" (dropdown menu), "Process type" (dropdown menu), and "CreateDate" (date range selector with "ISSUE TIME" and "END TIME" options). The "Search" and "Resetting" buttons are also present, along with the "advanced search -" link.

After the query is completed, click "Reset" to clear the content in the search box and display all work order information of the account.

## 7.2.6 Delete Work Order

Only the creator of the work order has the right to delete it.

Click "Delete" - "Confirm" corresponding to the work order to delete the corresponding work order.

My work order Claim Platform

DataList

Export Add

Order Number	Order Title	Order Status	Current processor	CreateDate	Operate
S176025960041884	Online inspection of feeding machine	Pending Orders		2025-10-12 16:57:58	Receiving Details <b>Delete</b>
S17250268345985	Picking category table	Processing	Online Circ & Supers	2024-09-07 20:20:19	admin@gc 2024-09-06 20:45:56 Processing Transfer Details Delete
S17248129709803	Repair work orders	Processing	Online Circ & Supers	2024-08-27 20:25:34	admin@gc 2024-08-26 20:23:22 Processing Transfer Details Delete
S1724298198029	Feeder shutdown for maintenance	Accepted	Shutdown Maint	2024-08-23 11:34:31	admin@gc 2024-08-22 11:33:43 Details Delete
S1724298176817	Feeder shutdown for maintenance	Accepted	Shutdown Maint	2024-08-31 11:24:30	admin@gc 2024-08-22 11:21:08 Details Delete
S170631746499274	Fault analysis of coating and feeding machine	Processing	Fault Analysis	2024-01-26 09:04:14	admin@gc 2024-01-27 09:03:40 Processing Details Delete
S170631738414231	Online inspection of coating and feeding machine	Pending Orders	Online Circ & Supers	2024-01-27 09:03:21	2024-01-27 09:03:23 Receiving Details Delete

## 7.2.7 Process Work Order

After obtaining the processing right of the work order, you can process the work order in "My Work Orders".

Find the work order information to be processed, click "In Progress" to display all detailed information of the current work order.

Click "Process" to start processing the device corresponding to the work order.

Work order processing ✕

\*Required

Unaccepted orders → **Received order** → Processing → Completed → Accepted

Order Content

Order Title	Online inspection of feeding machine		
Order Number	S176025960041884	Order Type	Alarm Process
Creator	admin@gc	CreateDate	2025-10-12 16:57:58
Order recipient	admin@gc	Accept Time	2025-10-12 17:04:14
Start Time	2025-10-12 17:04:06	Completion time	2025-10-22 17:04:08
Customer Name		Customer Head Phone	
Device binding	feeder	customer address	
Order Content			

Go handle
Cancel

After the device corresponding to the work order is repaired, fill in the processing result after repair. After submitting the required information for the work order content, click "Save" to save the written result first without submitting it to the order issuer; click "Submit" to submit the written result to the order creator for acceptance.

Unaccepted orders
Received order
Processing
Completed
Accepted

**Order Content**

Order Title	Online inspection of feeding machine		
Order Number	S176025960041884	Order Type	Alarm Process
Creator	admin@gc	CreateDate	2025-10-12 16:57:58
Order recipient	admin@gc	Accept Time	2025-10-12 17:04:14
Start Time	2025-10-12 17:04:08	Completion time	2025-10-22 17:04:08
Customer Name		Customer Head Phone	
Device binding	feeder	customer address	
Order Content			

**Order processing**

\* Processing method

\* Process type

treatment

B I U G
Text
🔍

Please enter the content

Maximum Input1000Characters, already entered0Characters

\* Processing results

Pictures

Upload attachments

save

submit

After the work order is submitted, the work order is in the "Completed" status, and the order creator can score and accept the processing result of the order.

If the work order creator is satisfied with the acceptance, they can score and comment on the order, then click "Evaluate" to complete the

acceptance. At this point, the work order is processed.

If the work order creator is not satisfied with the acceptance, click "Reject" to return the work order result to the work order processor. The work order processor needs to process it again, submit the work order processing result, and wait for acceptance again.

## 7.2.8 Assign Work Order

In the "Claim Platform", you can assign unprocessed work orders.

Click the "Assign" button behind the work order to assign the work order to a specific account among yourself and the subordinate users within the organization for processing. The assigned work order is directly in the accepted status in the assigned customer's work orders.

In the push settings, you can select the way to notify the other party.

The screenshot shows a "Transfer" dialog box with the following fields and options:

- Completion time:** 2025-10-22 17:04:08
- Personnel:** admin@gc
- Push Settings:**
  - No Notification
  - mail
  - SMS
  - official account
  - System messages

Buttons: Cancel, Confirm

## 7.2.9 Transfer Work Order

In "My Work Orders", when you cannot process a work order by

yourself and need the cooperation of others, you can transfer the work order that is in progress or accepted.

Click the "Transfer" button behind the work order to transfer the work order to another account within the organization for processing. The transferred work order is directly in the accepted status in the transferred customer's work orders.

In the push settings, you can select the way to notify the other party.

## 7.2.10 Export

The export function provides quick export of work order data information.

My work order [Clear Platform](#)

DataList [Export](#) [Add](#)

Order Number	Order Title	Order Status	Order Type	Process type	task time	Current process	CreateTime	Operate
S1702580041084	Online inspection of feeding machine	Processing	Alarm Process	Personnel	2025-10-22 17:04:08	admin@gc	2025-10-22 16:57:50	Processing Transfer Details Delete
S1725026054086	Picking category table	Processing	Online Circulation	Personnel	2024-09-07 20:45:10	admin@gc	2024-09-06 20:45:06	Processing Transfer Details Delete
S1724074914963	Repair work orders	Accepted Order	Online Circulation	Personnel	2024-09-27 20:23:24	admin@gc	2024-09-26 20:23:27	Processing Transfer Details Delete
S172429075829	Feeder shutdown for maintenance	Completed	Shutdown Maintenance	Accessory Replacement	2024-09-23 11:54:31	admin@gc	2024-09-22 11:53:03	Details Delete
S1724290707617	Feeder shutdown for maintenance	Accepted	Shutdown Maintenance	Accessory Replacement	2024-09-21 11:24:38	admin@gc	2024-09-22 11:21:06	Details Delete

Click the "Export" button in the upper right corner to export all

device work order information in "My Work Orders"; the exported information is saved to the specified path of the computer host in the form of an Excel file.

## **8. Data Analysis**

### **8.1 Comparative Analysis**

In the left menu, click "Data Analysis" - "Comparative Analysis" to jump to the data report page. There are three types of data analysis: different data of the same device, the same data of different devices, and different data of different devices.

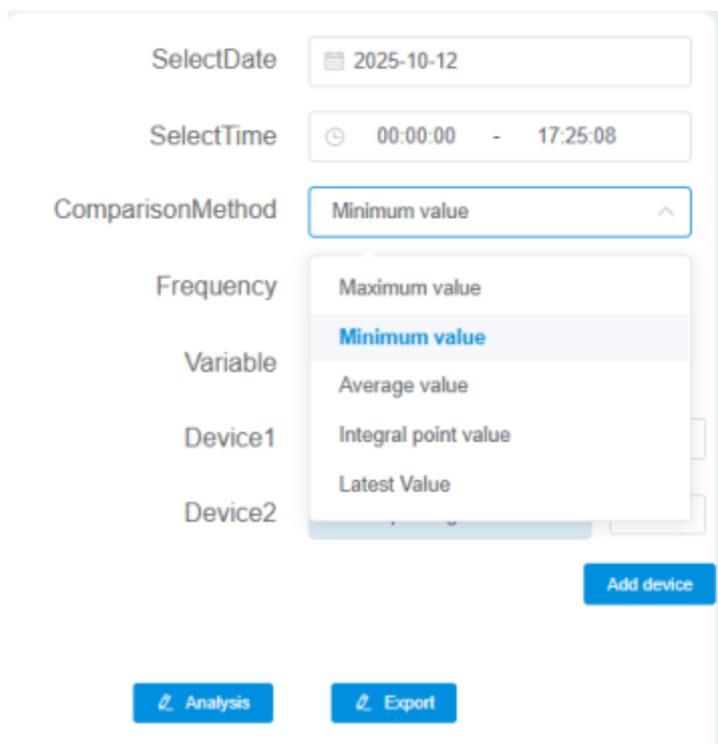
### 8.1.1 Different Data of the Same Device

Click "Different Data of the Same Device", select the date to be analyzed and the time range within the date, select the device to be analyzed (only one device can be selected). After selecting the device, click "Variable 1" and "Variable 2" to select the variables to be analyzed. A maximum of 5 variables can be selected, and variables can be deleted. You can select the value type of the variables, which can be "Maximum Value", "Minimum Value", "Average Value", or "Hourly Value". Click "Analyze" to compare and display the variables within the time range.



### 8.1.2 The Same Data of Different Devices

Click "The Same Data of Different Devices", select the date to be analyzed and the time range within the date, select the variable to be analyzed (only one variable can be selected), set the comparison method, which can be "Maximum Value", "Minimum Value", "Average Value", or "Hourly Value"; you can select the frequency.



The screenshot shows a configuration panel with the following fields and options:

- SelectDate:** 2025-10-12
- SelectTime:** 00:00:00 - 17:25:08
- ComparisonMethod:** Minimum value
- Frequency:** Maximum value, **Minimum value** (selected), Average value
- Variable:** Integral point value, Latest Value
- Device1:** [Empty field]
- Device2:** [Empty field]

Buttons at the bottom include "Add device", "Analysis", and "Export".

Since it is the same variable of multiple devices, these multiple devices must belong to the same model. Click "Variable", first select a model, then click "Next Step" to select the variable to be analyzed and compared.

Variable
×

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Model Name

protocol

	Model Name	protocol	Interface Type	Variables Total
<input type="radio"/>	feeder	Modbus TCP	Network interface	7
<input type="radio"/>	Coating feeder	Modbus TCP	Network interface	12
<input type="radio"/>	Roller press	Modbus TCP	Network interface	6
<input type="radio"/>	Material slicer	Modbus TCP	Network interface	20
<input type="radio"/>	Slice winder	Modbus TCP	Network interface	17
<input type="radio"/>	Top side sealing and packaging machine	Modbus TCP	Network interface	5
<input type="radio"/>	Temperature baking dehumidifier	Modbus TCP	Network interface	9
<input type="radio"/>	Battery cell liquid injection machine	Modbus TCP	Network interface	9

Go to

After selecting the variable, click "Device 1" and "Device 2" to select the devices of the same model to be analyzed. A maximum of 5 devices can be selected; devices can be deleted. Click "Analyze" to compare and display the devices within the time range.

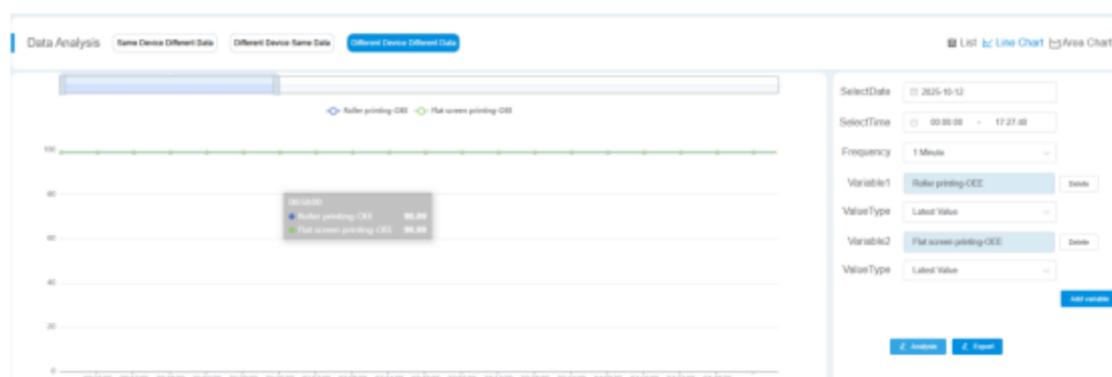


### 8.1.3 Different Data of Different Devices

Click "Different Data of Different Devices", select the date to be

analyzed and the time range within the date, select the variables to be analyzed. A maximum of 5 variables can be selected. Set the value type, which can be "Maximum Value", "Minimum Value", "Average Value", or "Hourly Value"; you can select the frequency.

After adding the variables, click "Analyze" to compare and display the variables within the time range.



### 8.1.4 Export

The export function provides quick export of data analysis information.



Click the "Export" button in the lower right corner to export all report information in the report; the exported information is saved to the specified path of the computer host in the form of an Excel file.

### 8.1.5 Display Form

Click the different form switches in the upper right corner to display the data in different forms.

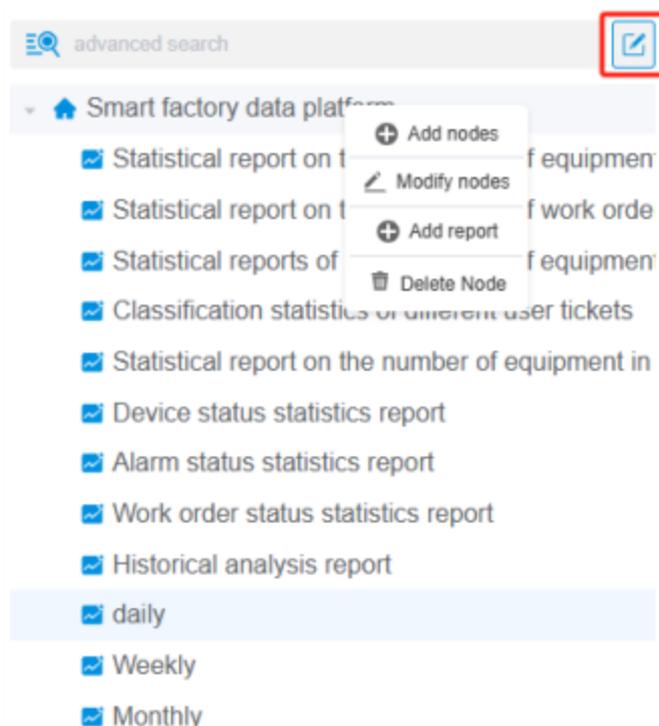


## 8.2 Data Report

In the left menu, click "Data Analysis" - "Data Report" to jump to the data report page. The data report page establishes different report projects through the hierarchical relationship of the directory tree on the left, and adds and maintains different types of report information.

The directory tree, its subordinate nodes, and reports are in view mode by default and cannot be edited; click the edit button behind the

directory tree search box to perform add, delete, modify, and query operations on nodes and reports in the directory tree.



For different node types, the available operations are different:

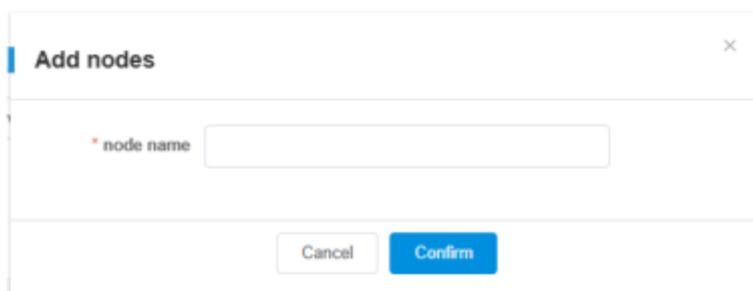
**Node:** Add node, add report, modify node, delete node.

**Report:** Copy report, modify report, delete report, move report. (No nodes or reports can be created under the report.)

### 8.2.1 Add Node/Report

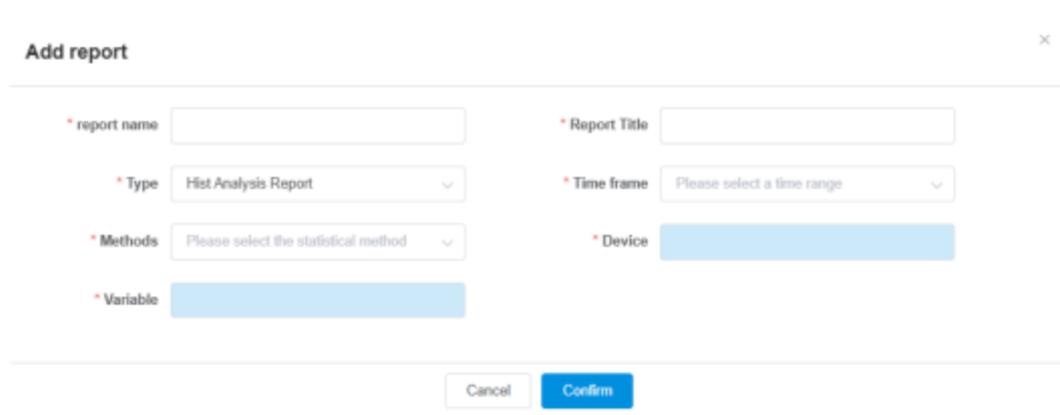
In the edit mode, right-click a node of node type in the directory tree to select Create: Add Node or Add Report.

**Add Node:** Enter the node name and node level, click "Confirm" to successfully create a new node.



The text boxes marked with \* are mandatory. If no input is made, the addition of new work order information will fail, and the interface will give a corresponding filling prompt.;

**Add Report:** Enter the report name, which is the display name of the report in the left directory tree; enter the report title, which is the title for displaying the report data content.



The types of reports that can be added are: classified statistical reports and historical analysis reports.

**Classified Statistical Report:** According to some common attributes of devices, classify and count all devices in the current account. The classification types are as shown in the figure below.

**Add report**
×

---

\* report name

\* Type

\* Report Title

\* classification

- Model Dist Stat
- Equip Alarm Stat
- WO Dist Stat
- Model-WO Type Stat
- User-WO Classif Stat
- Equip Reg Dist Stat
- Equip Status Stat
- Alarm Status Stat

After selecting the corresponding classification type, click "Confirm" to create a new classified statistical report.

**Historical Analysis Report:** Select a past time point to count the collected data.

Statistical time range: hourly and daily.;

Statistical methods: single device with multiple variables, multiple devices with single variable, multiple devices with multiple variables.

**Add report**
×

---

\* report name

\* Type

\* Methods

\* Variable

\* Report Title

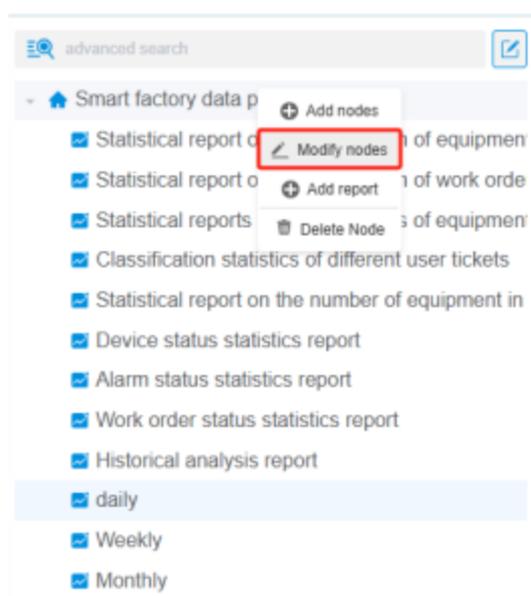
\* Time frame

\* Device

After selecting the corresponding classification type, click "Confirm" to create a new historical analysis report.

## 8.2.2 Edit Node/Report

In the device directory tree, select a report or node that needs to be modified, right-click - click "Modify Node" or "Modify Report", and you can edit and modify the original information of the report or node. The modified content and precautions are the same as adding a node. For details, refer to adding a node/report in section 9.2.1.



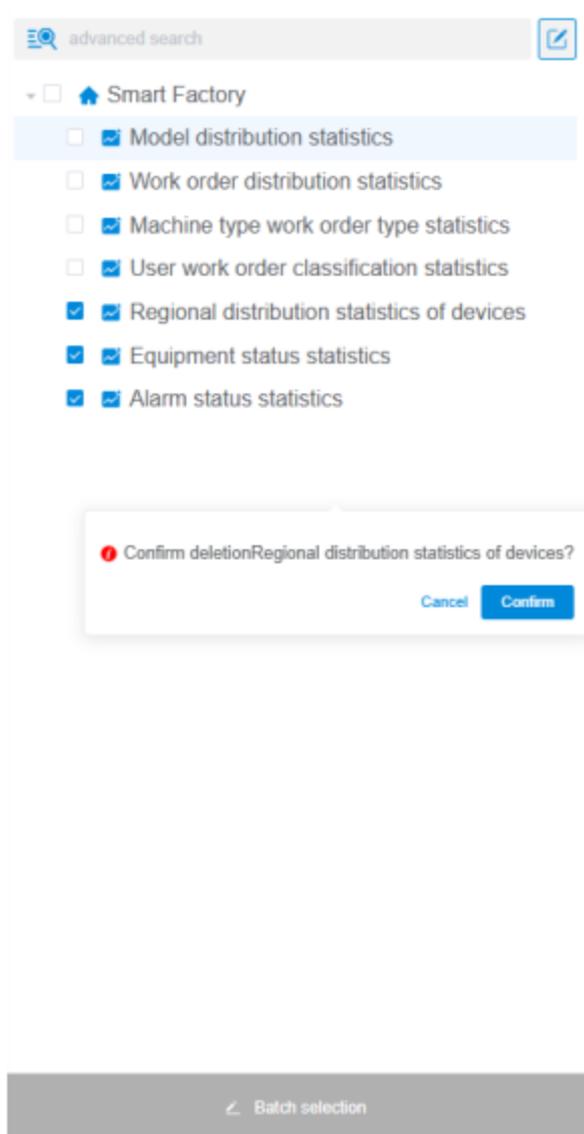
After modifying the node information, click "Save" to update the node information, and a prompt of successful operation will be given.

## 8.2.3 Delete Node/Report

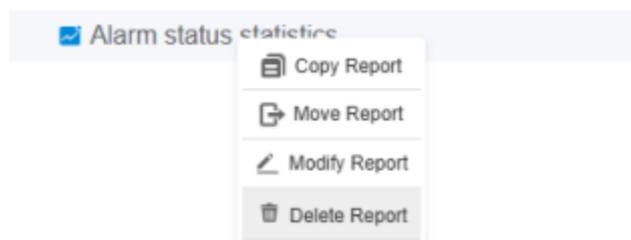
There are two ways to delete nodes and reports: **batch deletion** and **individual deletion**.

**Batch Deletion:** Click the "Batch Selection" button in the lower left corner, check one or more records in the device report list, click "Batch

Delete" in the lower left corner, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target node or report; click "Cancel" to cancel the deletion operation.



**Individual Deletion:** Select a node/report to be deleted, right-click the device node, select "Delete Node/Report", click "Confirm" to perform the deletion operation and delete the target node; click "Cancel" to cancel the deletion operation.



Note: To delete a directory node, you must delete all its subordinate nodes first.

## 8.2.4 Query Node/Report

There are two ways to query directory nodes: full-name accurate query and fuzzy query.

The search is triggered automatically after entering the content to find the matching content in the directory tree.



After the query is completed, clear the content in the search box to display all report information of the account.

## 8.2.5 Report Display

Select a node of report type in the directory tree, and the right side will display the statistical content information of the report, including: report title, statistical type, fixed classification, etc. At the same time, the

creator and creation time of the report are displayed in the lower right corner.

Taking the classification of work order distribution by device model and province as an example: the proportion of all device models in each province is displayed.

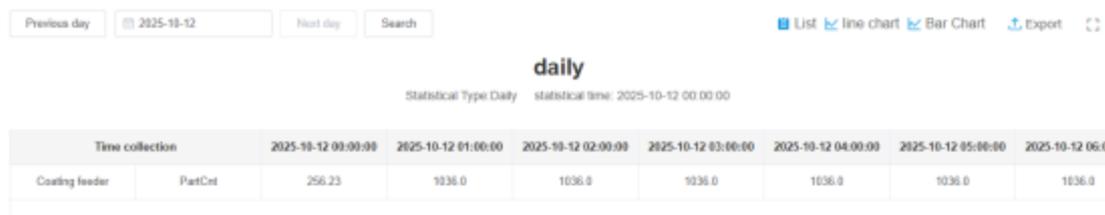


At the same time, the data can be switched to line chart display or bar chart display in the upper right corner. Moving the mouse over the graph can display the proportion data of the point.

Click the "Maximize Button" in the upper right corner to maximize the report display data.



For reports with statistical types, there is a time period selection function in the upper left corner of the report (for example: if it is an hourly report, the selected unit is hours, and switching to different hours will display all data within that hour).



## 8.2.6 Report Export

The export function provides quick export of report data information.



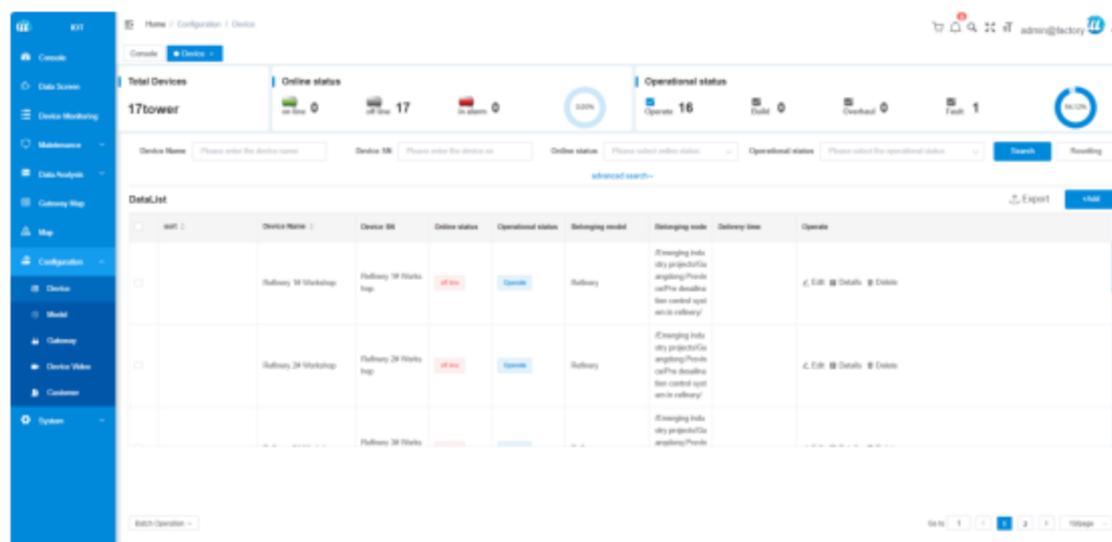
Click the "Export" button in the upper right corner to export all report information in the report; the exported information is saved to the specified path of the computer host in the form of an Excel file.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	Abid Non	Shanghai	Beijing	pass Point																					
2	exchange	5	0	0	0																				
3	is reported	2	0	0	0																				
4	is reported	1	1	1	1																				
5	is reported	0	0	1	0																				

## 9.Configuration Management

### 9.1 Device Archives

In the left menu bar, click "Configuration Management" - "Device Archives" to jump to the device archives page. This function mainly manages the relevant information of all devices in the account.



This function module provides functions such as adding, modifying, viewing, and deleting device archive-related information. The interface also provides a quick query function for various device information fields, and you can enter keywords for data retrieval.

#### 9.1.1 Add Device

Click the "Add" button in the upper right corner to pop up the interface for adding a new device archive. Among them, the device serial number must be unique. When adding, there shall be no device archives with the same device serial number, otherwise the interface will give a

corresponding prompt and the addition of the new device archive will fail.

The screenshot shows a 'Device Management' window with a 'Basic Settings' tab. The form is divided into two main sections: 'Device Properties' and 'Collection attributes'. In the 'Device Properties' section, there are fields for Name, Device SN, Address, and Catalog Node. The 'Address' field is highlighted in blue and contains the value 'London'. In the 'Collection attributes' section, there are fields for Gateway, Model, SerialNo, Serial Baud, Data Bits, Stop Bit, Parity bit, slave, Extended Fields, and Collection. The 'Gateway' and 'Model' fields are highlighted in blue. At the bottom of the form, there are 'Confirm' and 'Cancel' buttons.

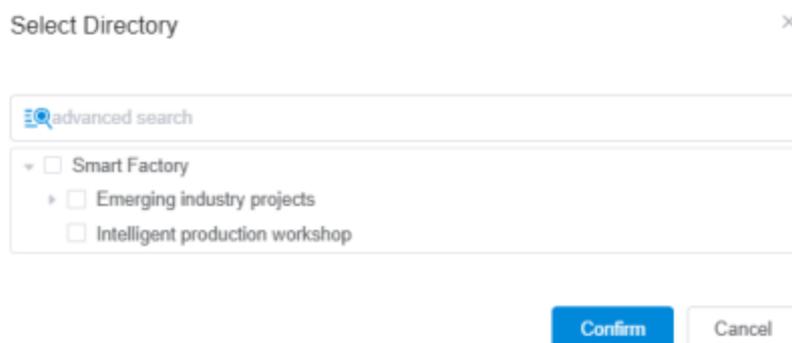
The text boxes marked with \* are mandatory. If no input is made, the addition of the new device archive will fail, and the interface will give a corresponding filling prompt.

**Operation Status:** Manually determine the current status of the gateway, which is not the actual online status of the gateway.

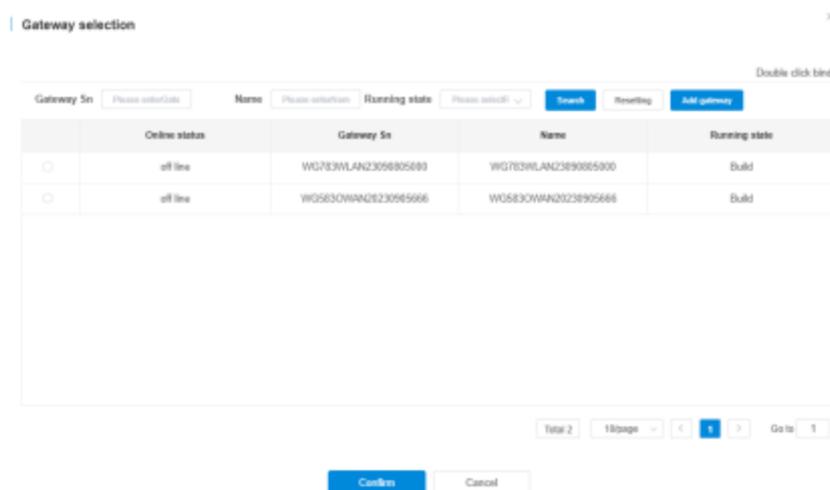
**Directory Node:** Select the node to which the device belongs (for details, see Chapter 6. Device Monitoring).

By checking the existing directory node and clicking "Confirm", the device can be assigned to the directory node and become all devices of the directory node.

One device can only be assigned to one directory node, and one directory node can be bound to multiple devices.



**Associated Gateway:** The gateway bound to the device is used to collect the data generated by the device and then upload it to the cloud platform.



Click "Associated Gateway", the list is the list of existing gateways of the account. Select the target gateway and click "Confirm" to select the target gateway for collecting the data of the device.

One device can only be assigned to one gateway, and one gateway can be bound to multiple devices.

The top of the pop-up window provides a search box for quickly

querying gateways. There are two search methods: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

The "Add Gateway" button in the upper right corner of the pop-up window can be used to add a new gateway; (all gateways are uniformly managed in Gateway Management).

gateway administration

Basic information

\* Gateway Sn

\* Gateway Name

\* Catalog Node

Address

\* Gateway brand WTEL

\* data format Common Format

\* Operations Build

Product Type Intelligent Gateway

sort 0

Confirm Cancel

The text boxes marked with \* are mandatory. If no input is made, the addition of the new gateway will fail, and the interface will give a corresponding filling prompt.

The addition rule of the directory node is similar to that of the device.

Fill in the gateway brand, data format, and network type according to the actual gateway situation, click "Confirm" to successfully create the gateway, and then the new gateway will be added to the list of selected gateways.

**Associated Model:** The model bound to the device is equivalent to joining a group with the same protocol rules, and the data in the group can be displayed together by group. (For other specific operations of the

model, refer to section 9.2 Model Management.)

Click "Associated Model", the list is the list of existing models of the account. Select the target model and click "Confirm" to bind the target model.

Model selection x

Double click bind\*

Model Name  Protocol  Interface Type

	Model Name	Protocol	Interface Type	Variables Total
<input type="radio"/>	Refinery	2	0	27
<input type="radio"/>	heat-exchange station	2	0	25
<input type="radio"/>	Intelligent control system for air conditioning	2	0	37
<input type="radio"/>	Compressor	2	0	68
<input type="radio"/>	Sludge Treatment	2	0	37
<input type="radio"/>	electricity meter	23	0	6
<input type="radio"/>	Refining equipment	2	0	0
<input type="radio"/>	...	1	0	1

Total 11 10/page < 1 2 > Go to 1

One device can only be bound to one model, and one model can be bound to multiple devices.

The top of the pop-up window provides a search box for quickly querying models. There are two search methods: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

The "Add Model" button in the upper right corner of the pop-up window can be used to add a new model; (all models are uniformly managed in Model Management).

Model management
×

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**Basic information**

\* Name

TunnelClass

\* Interface

\* Protocol

\* CPU type

sort

The text boxes marked with \* are mandatory. If no input is made, the addition of the new model will fail, and the interface will give a corresponding filling prompt.

Select the model protocol, corresponding interface, and type according to the actual situation, click "Confirm" to successfully create the model, and then the new model will be added to the list of selected models.

According to the selected model, the communication address to be filled in later is different. Taking the TCP communication type as an example, the collected content to be filled in includes the IP address, port number, slave address, etc. of the collected device.

**Collection attributes**

Gateway <input type="text"/>	Model <input type="text" value="Refinery"/>
IP Address <input type="text"/>	Port <input type="text"/>
slave <input type="text" value="1"/>	Extended Fields <input type="text" value="0"/>
Collection <input type="text" value="Open"/>	Cycle <input type="text" value="60"/>

**Enable Collection:** After enabling collection, the data uploaded by

the device can be collected.

Collection Cycle: The interval time for collecting data.

In the advanced settings, you can add a device image function for the device; you can set the maximum packet length and response time.

The screenshot shows a 'Device Management' window with a close button (X) in the top right. Below the title bar, there are two tabs: 'Basic Settings' and 'Advanced setting', with the latter being selected. The 'Advanced setting' section contains several form fields: 'Max Packet Len' (input: 100), 'recovery time' (input: 600), 'Large' (dropdown: Categories), 'Sub' (dropdown: Subclass), 'Bind Video' (checkbox: checked), 'Images' (image upload area with a plus sign), 'Delivery time' (spinner), 'Instruments' (text input), 'Warranty period' (spinner), 'notes' (rich text editor with a toolbar and a placeholder 'Please enter the content'), and 'Trigger' and 'Device Type' (text inputs). At the bottom, there are 'Confirm' and 'Cancel' buttons. A small note at the bottom of the notes field reads 'Maximum Input1000Characters, already entered0Characters'.

The top of the pop-up window provides a search box for quickly querying videos. There are two search methods: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

**Device Image:** Click the image addition box, select the target image from the computer and upload it, and then you can view it using video

monitoring in the device directory.

Click "Confirm" to create a new device.;

### 9.1.2 Edit Device

In the device archive information list, select a device archive that needs to be modified, click "Edit", and you can edit and modify the original information in the device archive. The modified content and precautions are the same as adding a device. For details, refer to adding a device in section 9.1.1.



Device Name	Device ID	Device status	Operational status	Addressing mode	Addressing mode	Addressing mode	Actions
Hardware 10	Hardware 10	Offline	Online	Hardware	Hardware	Hardware	Confirm
Hardware 10	Hardware 10	Offline	Online	Hardware	Hardware	Hardware	Confirm
Hardware 10	Hardware 10	Offline	Online	Hardware	Hardware	Hardware	Confirm

After modifying the device archive information, click "Confirm" to update the device archive information, and a prompt of successful operation will be given. After the device archive information is successfully updated, the updated device archive information can be seen in the device archive list.

### 9.1.3 View Device

In the device archive information list, select a device archive, click "Details", and you can view the detailed information in the device archive. The information mainly includes: basic configuration and advanced

settings.

The basic configuration and advanced settings are the same as the content in the add device pop-up window, but cannot be modified.

Device Management ×

[Basic Settings](#) [Advanced setting](#)

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**Device Properties**

* Name	Refinery 1# Workshop	* Device SN	Refinery 1# Workshop
Operations	Operate	* Address	中华路甲10号无宝门
* Catalog Node	Pre desulfurization control system in refinery	sort	

QRCode



**Collection attributes**

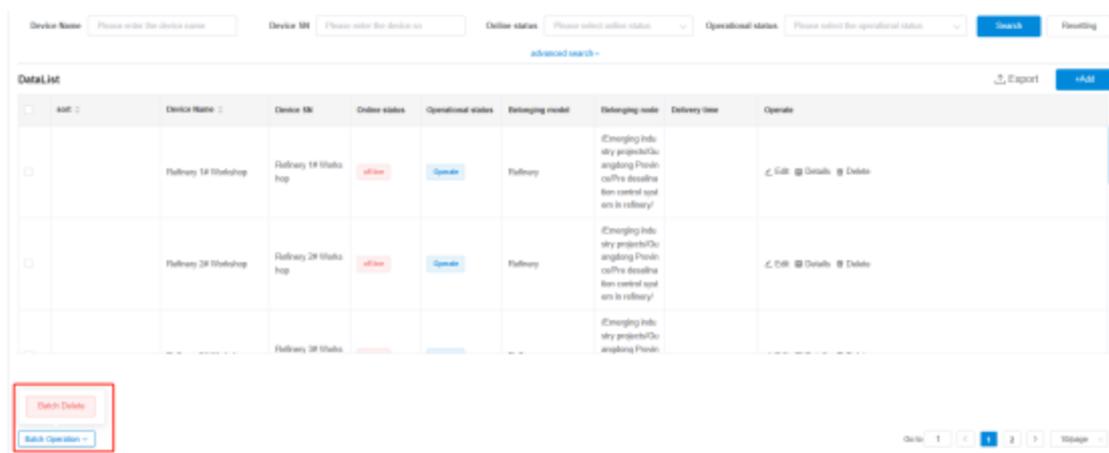
Gateway	远传网关	Model	Refinery
IP Address	192.168.1.106	Port	503
slave	1	Extended Fields	0
Collection	Open	Cycle	3

[Confirm](#) [Cancel](#)

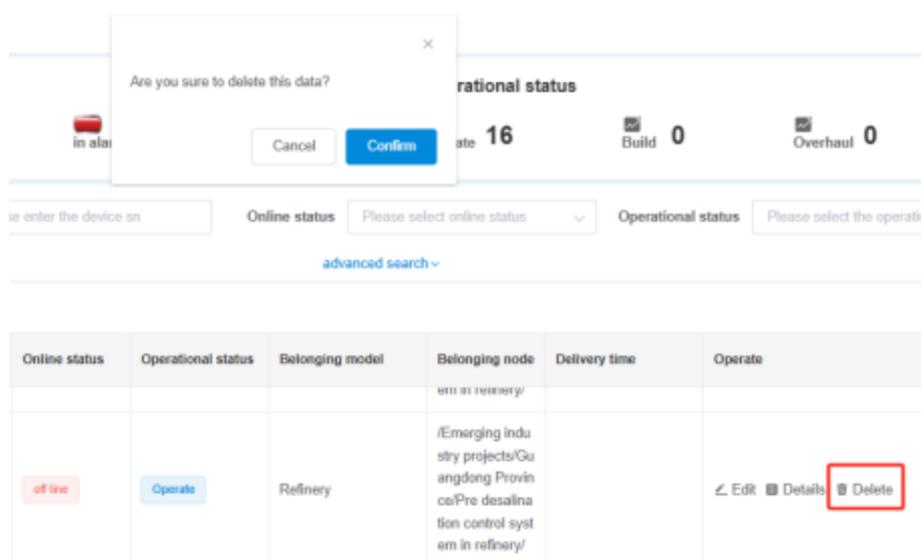
## 9.1.4 Delete Device

There are two ways to delete device archives: **batch deletion** and **individual deletion**.

**Batch Deletion:** Check one or more records in the device archive list, click "Batch Operation - Batch Delete" in the lower left corner, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target device archive; click "Cancel" to cancel the deletion operation.



**Individual Deletion:** Select a device archive to be deleted, click the delete button behind the device archive, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target device archive; click "Cancel" to cancel the deletion operation.;



### 9.1.5 Query Device Archive

There are two ways to query device archives: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

By default, the most practical and frequently used query fields are

provided for query, including: device name, device serial number, online status (actual online status of the device), and operation status (manually marked status).

Click "Advanced Search" to add fields such as model name, directory node, gateway serial number, device address, device classification (device category, device subclass), and communication parameters (device IP, port, etc.) to the search items in the search box, which can increase the flexibility of customer archive search.

After the query is completed, click "Reset" to clear the content in the search box and display all device archive information of the account.

## 9.1.6 Device Statistics

Any addition, deletion, modification, query, or status change of the device archive will be displayed in real time in the statistical column at the top of the device archive, including: total number of devices, statistical number of devices in different online statuses and their respective proportion analysis, statistical number of devices in different operation statuses and their respective proportion analysis.



## 9.2 Model Management

In the left menu bar, click "Configuration Management" - "Model Management" to jump to the model management page. This function mainly manages the model information of all devices in the account. The table displays the protocol and interface type used by the model, as well as the number of configurations and variables defined in the model.

Model ID	Model Name	Model Agreement	Interface Type	Schema Total	Variables Total	Operate
	Railway	Modbus TCP	Network Interface	1	27	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	Heat exchange station	Modbus TCP	Network Interface	1	25	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	Intelligent control system for air conditioner	Modbus TCP	Network Interface	1	37	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	Compressor	Modbus TCP	Network Interface	1	18	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	Sludge Treatment	Modbus TCP	Network Interface	1	37	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	Packing equipment	Modbus TCP	Network Interface	0	0	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	PLC	Modbus RTU	Addressed port	0	1	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
	WZMS	MQ-RTU	Addressed port	0	4	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Variable</a> <a href="#">Configuration</a>
0	none	Modbus TCP	Network Interface	0	0	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>

This function module provides functions such as adding, modifying, viewing, deleting, group management, variable definition, and configuration definition of device model-related information. The interface also provides a quick query function for various device information fields, and you can enter keywords for data retrieval.

### 9.2.1 Add Model

Click the "Add" button in the upper right corner to pop up the interface for adding a new model. Among them, you need to select the

required model protocol first. After selecting the model, the model interface and CPU type will be refreshed to the optional options corresponding to the protocol.

Model management ×

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Basic information

* Name	<input type="text"/>	TunnelClass	Common protocols <input type="text"/>
* Interface	485Serial port <input type="text"/>	* Protocol	Modbus RTU <input type="text"/>
* CPU type	be current <input type="text"/>	sort	0 <input type="text"/>

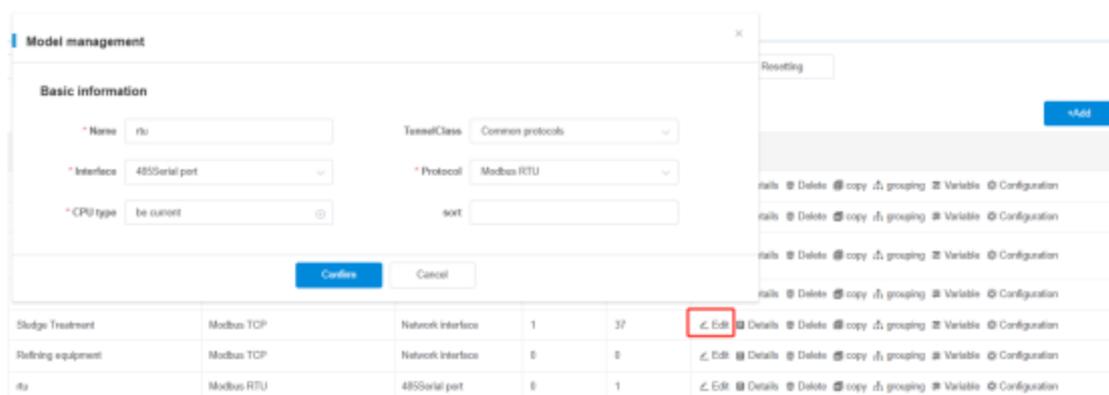
---

The text boxes marked with \* are mandatory. If no input is made, the addition of the new device archive will fail, and the interface will give a corresponding filling prompt.

After filling in all the information, click "Confirm" to successfully create a new model.

## 9.2.2 Edit Model

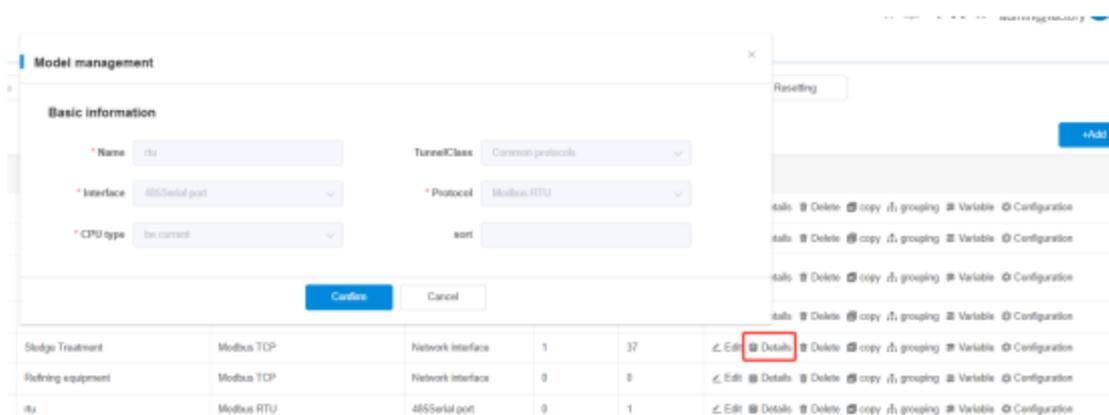
In the model management list, select a model that needs to be modified, click "Edit", and you can edit and modify the original information in the model. The modified content and precautions are the same as adding a model. For details, refer to adding a model in section 9.2.1.



After modifying the model information, click "Save" to update the device archive information, and a prompt of successful operation will be given. After the model information is successfully updated, the updated model information can be seen in the model information list.

### 9.2.3 View Model

In the device archive information list, select a device archive, click "Details", and you can view the detailed information in the device archive. The information content is the same as that in the add device pop-up window, but cannot be modified.



## 9.2.4 Delete Model

There are two ways to delete a model: **batch deletion** and **individual deletion**.

Note: Once a model is deleted, the group information, data variables, and model configurations within the model will all be deleted.

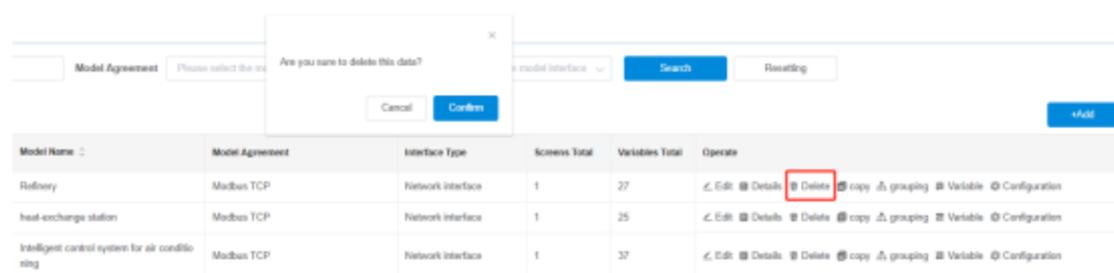
**Batch Deletion:** Check one or more records in the model list, click "Batch Operation - Batch Delete" in the lower left corner, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target device archive; click "Cancel" to cancel the deletion operation.

The screenshot shows the 'Model List' interface with the following table:

Model Name	Model Agreement	Model Interface	Screens Total	Variables Total	Operate	
<input type="checkbox"/>	Railway	Modbus TCP	Network Interface	1	27	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	Heat-exchange station	Modbus TCP	Network Interface	1	25	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	Intelligent control system for air conditioning	Modbus TCP	Network Interface	1	37	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	Compressor	Modbus TCP	Network Interface	1	68	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	Sludge Treatment	Modbus TCP	Network Interface	1	37	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	Rolling equipment	Modbus TCP	Network Interface	8	9	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	He	Modbus RTU	485Serial port	8	1	< Edit Details Delete copy group Variable Configuration
<input type="checkbox"/>	W2148	WE IO	485Serial port	8	4	< Edit Details Delete copy Variable Configuration
<input type="checkbox"/>	None	Modbus TCP	Network Interface	8	8	< Edit Details Delete copy group Variable Configuration

At the bottom left, the 'Batch Delete' button is highlighted with a red box. At the bottom right, there is a pagination control showing 'Page 1 of 2'.

**Individual Deletion:** Select a model to be deleted, click the delete button behind the device archive, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target device archive; click "Cancel" to cancel the deletion operation.



## 9.2.5 Query Model

There are two ways to query models: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.



After the query is completed, click "Reset" to clear the content in the search box and display all model information of the account.

## 9.2.6 Group Strategy

In Model Management, select a model and click "Group Strategy" to jump to the group management page.

Data List

Model Name	Model Agreement	Interface Type	Screens Total	Variables Total	Operate
Refinery	Modbus TCP	Network Interface	1	27	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
heat-exchange station	Modbus TCP	Network Interface	1	25	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
Intelligent control system for air conditioning	Modbus TCP	Network Interface	1	37	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
Compressor	Modbus TCP	Network Interface	1	60	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
Sludge Treatment	Modbus TCP	Network Interface	1	37	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
Refining equipment	Modbus TCP	Network Interface	0	0	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
rtc	Modbus RTU	485Serial port	0	1	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
WE110	WE110	485Serial port	0	4	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration
0	name	Modbus TCP	0	0	⏪ Edit ⚙️ Details 🗑️ Delete 📄 copy 📁 grouping 🏷️ Variable ⚙️ Configuration

This function is mainly used to create selectable groups for variables. Device variables in the same group can be displayed together by selecting the group in the device directory.

Groups can define the data reporting method: collection and alarm interval, data source filtering, etc. Variables bound to the same group will all be restricted by the same group rules.

Variable grouping definition ×

Group Name  Group Type  Data filter

<input type="checkbox"/>	Group Name	Group Type	Cycle	Data reporting	Alarm reporting	Data filter	Operate
<input type="checkbox"/>	Alarm grouping	Reg Grouping	10	<input type="button" value="yes"/>	<input type="button" value="yes"/>	All Data	<a href="#">↶ Edit</a> <a href="#">Details</a> <a href="#">Delete</a>

Go to

This function also provides functions such as adding, modifying, viewing, and deleting group-related information. The interface also provides a quick query function for various device information fields, and you can enter keywords for data retrieval.

### Add Group:

Click the "Add" button in the upper right corner to pop up the interface for adding a new group.

Variable grouping management
×

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<p>* Group Name <input style="width: 80%;" type="text" value="Group Name"/></p> <p>* Group Type <input style="width: 80%;" type="text" value="Reg Grouping"/></p> <p>* Data reporting <input style="width: 80%;" type="text" value="yes"/></p> <p>* Alarm reporting <input style="width: 80%;" type="text" value="no"/></p>	<p>Group Sorting <input style="width: 80%;" type="text" value="Group Sorting"/></p> <p>Cycle <input style="width: 80%;" type="text" value="60"/> S</p> <p>* Data filter <input style="width: 80%;" type="text" value="All Data"/></p> <p>Alarm interval <input style="width: 80%;" type="text" value="60"/> times</p>
---	---

Among them, the fields that mainly restrict the variables in the group include:

**Data Reporting:** If "Yes" is selected, when the variables in the group have data, they will be collected to the device directory of the platform in real time (if there is no data, it will be displayed as: 0); if "No" is selected, the variable data in the group will not be collected.

**Collection Cycle:** The interval at which the variable data in the group is collected.

**Alarm Reporting:** If "Yes" is selected, when the variables in the group reach the set alarm value (set in Variable Definition), the alarm feedback set by the alarm rule will be triggered and sent to the alarm platform of the platform; if "No" is selected, the variables in the group will not report when they reach the alarm status.

**Repeat Alarm Cycle:** For the same variable with continuous alarms, the interval at which an alarm data is generated and uploaded to the alarm platform.

**Data Filtering:** Requirements for data source collection, including:

All Data: All variables in the group;

Valid Data: Variables in the group that have obtained data uploaded by the device;

Changed Data: Variables in the group with changed data;

Alarm Data: Variables in the group that have triggered the alarm rule (set in Variable Definition).

The text boxes marked with \* are mandatory. If no input is made, the addition of the new group will fail, and the interface will give a corresponding filling prompt.

After filling in all the information, click "Confirm" to successfully create a new group.

### Edit Group:

In the group list, select a group that needs to be modified, click "Edit", and you can edit and modify the original information in the group. The modified content and precautions are the same as adding a group.

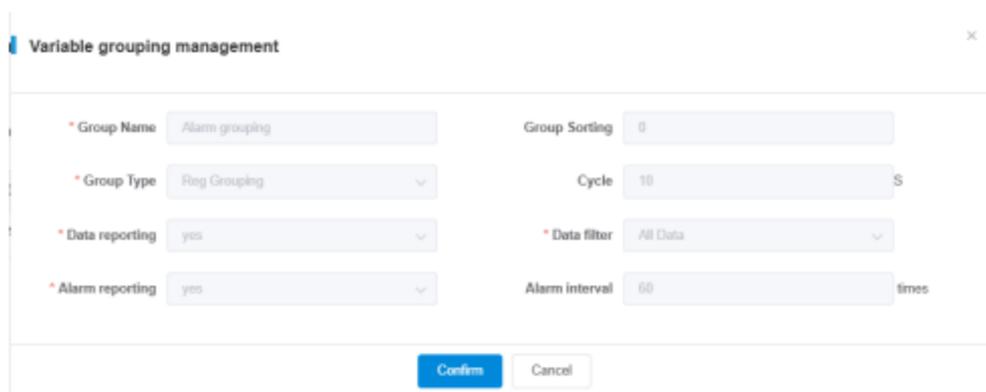
<input type="checkbox"/>	Group Name	Group Type	Cycle	Data reporting	Alarm reporting	Data filter	Operate
<input type="checkbox"/>	Alarm grouping	Reg Grouping	10	yes	yes	All Data	<a href="#">← Edit</a> <a href="#">Details</a> <a href="#">Delete</a>

After modifying the group information, click "Save" to update the group information, and a prompt of successful operation will be given. After the group information is successfully updated, the updated group information can be seen in the group information list.

### View Group:

In the group information list, select a group, click "Details", and you

can view the detailed information in the group. The group information content is the same as that in the add group pop-up window, but cannot be modified.



Variable grouping management

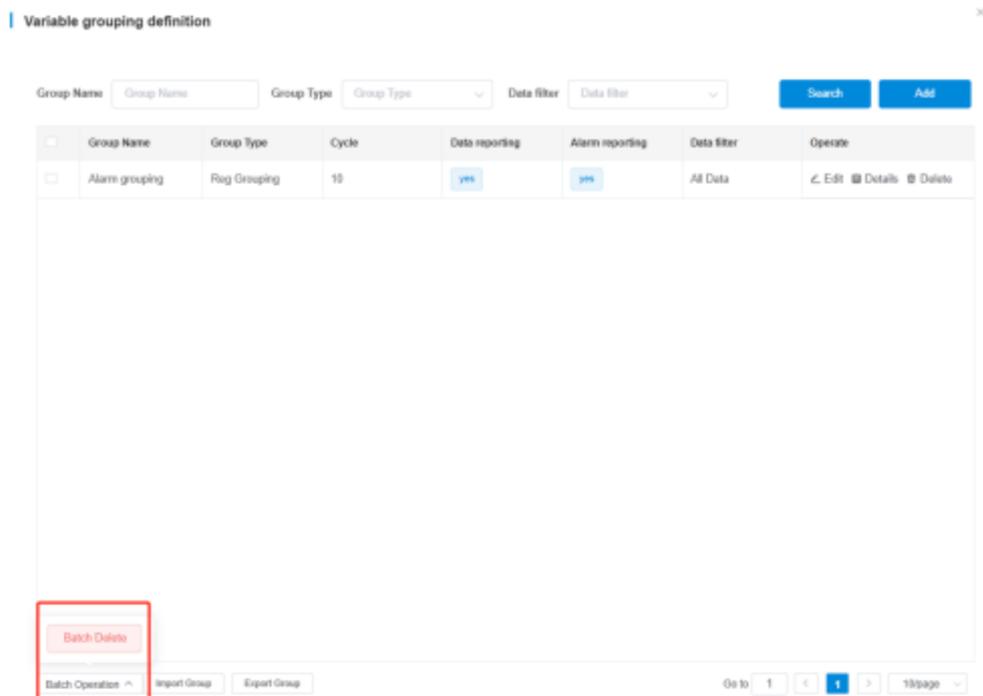
* Group Name	Alarm grouping	Group Sorting	0
* Group Type	Reg Grouping	Cycle	10 S
* Data reporting	yes	* Data filter	All Data
* Alarm reporting	yes	Alarm interval	60 times

Confirm Cancel

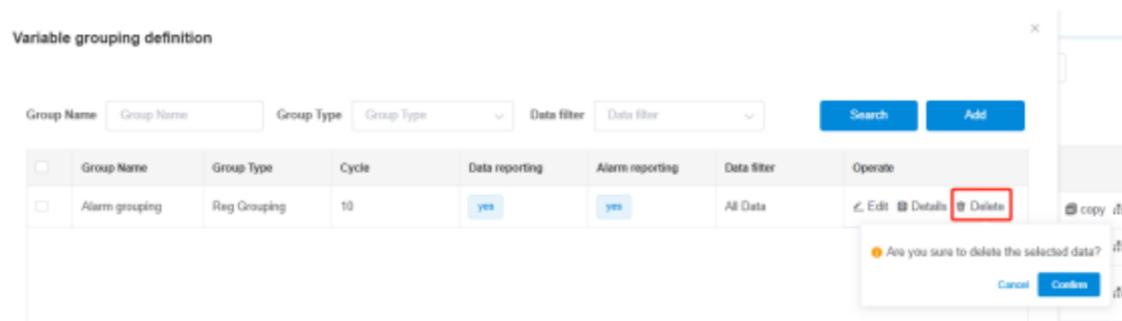
### Delete Group:

There are two ways to delete a group: **batch deletion** and **individual deletion**.

**Batch Deletion:** Check one or more records in the group list, click "Batch Operation - Batch Delete" in the lower left corner, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target group; click "Cancel" to cancel the deletion operation.



**Individual Deletion:** Select a group to be deleted, click the delete button behind the group, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target group; click "Cancel" to cancel the deletion operation.;



### Query Group:

There are two ways to query groups: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.



After the query is completed, click "Reset" to clear the content in the search box and display all group information of the account.

## 9.2.7 Variable Definition

In Model Management, select a model and click "Variable Definition" to jump to the variable definition page.

This function mainly manages the variable-related information of the model. Devices that select this model will obtain all variables defined by this model.

DataList +Add

Model Name	Model Agreement	Interface Type	Screens Total	Variables Total	Operate
Refinery	Modbus TCP	Network Interface	1	27	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
Heat-exchange station	Modbus TCP	Network Interface	1	25	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
Intelligent control system for air conditioner	Modbus TCP	Network Interface	1	37	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
Compressor	Modbus TCP	Network Interface	1	55	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
Sewage Treatment	Modbus TCP	Network Interface	1	37	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
Refining equipment	Modbus TCP	Network Interface	8	8	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
PLC	Modbus RTU	485Serial port	8	1	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
VDI48	VDI IO	485Serial port	8	4	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>
8	name	Modbus TCP	8	8	<a href="#">&lt;</a> <a href="#">Edit</a> <a href="#">@</a> <a href="#">Details</a> <a href="#">@</a> <a href="#">Delete</a> <a href="#">@</a> <a href="#">copy</a> <a href="#">@</a> <a href="#">grouping</a> <a href="#">@</a> <a href="#">Variable</a> <a href="#">@</a> <a href="#">Configuration</a>

This function module provides functions such as adding, modifying, deleting, viewing, importing, and exporting variable-related information. The interface also provides a quick query function for various customer information fields, and you can enter keywords for data retrieval.

### Add Variable:

Click the "Add" button in the upper right corner to pop up the interface for adding a new variable. The configuration of the variable includes basic settings and alarm settings.

## Variable Definition

Variable Name   Variable grouping

<input type="checkbox"/>	Variable Name	variable aliasing	Register	data type	Operate
<input type="checkbox"/>	Raw water tank liquid level	Raw water tank liquid level	4X0	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Frequency of raw water pump frequency converter	Frequency of raw water pump frequency converter	CONST1	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Turbidity of disc filter inlet water	Turbidity of disc filter inlet water	4X2	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	heat exchanger	heat exchanger	4X3	BIT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Air compression zone A	Air compression zone A	CONST3	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Air compression zone B	Air compression zone B	CONST4	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Disc filter effluent flow rate	Disc filter effluent flow rate	CONST5	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Ultrafiltration water tank liquid level	Ultrafiltration water tank liquid level	CONST7	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Ultrafiltration water pump frequency	Ultrafiltration water pump frequency	CONST8	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>

Batch Operation  1 < 1 2 3 > 10/page

**Basic Configuration:** Configure the data information of the variable; the main configurations include: variable name, variable alias, variable type, register type, register address, variable group, read-write permission, etc.

**Variable Type:** Define the data type that can be written to the variable.

**Register Type + Register Address:** These two parameters together locate a data source.

**Variable Group:** Select the group to which the variable belongs.

**Read-Write Permission:** The operation permission for the variable data value, including: Read and Write, Read Only, Write Only, and Disabled.

Variable management
×

Basic Settings Alarm settings

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Basic Settings

* Variable Name <input type="text" value="Raw water tank liquid level"/>	* variable aliasing <input type="text" value="Raw water tank liquid level"/>
* Variable type <input type="text" value="USHORT"/>	
* Register type <input type="text" value="4X"/>	* Register address <input type="text" value="0"/>
Variable grouping <input type="text" value="Alarm grouping"/>	Extended Fields <input type="text" value="0"/>
statistical analysis <input type="text" value="None"/>	

Advanced

variable ordering <input type="text" value="1"/>	Variable multiplier <input type="text" value="1.000000"/>
read-write <input type="text" value="Read &amp; Write"/>	Variable units <input type="text" value="cm"/>
Jump threshold <input type="text" value="0"/>	Storage method <input type="text" value="Remote Only"/>

**Alarm Settings:** Configure the data alarm information of the variable; mainly including the upper and lower alarm limits, alarm range, and alarm notification.

Variable management
×

Basic Settings Alarm settings

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Select alarm mode

Alarm upper limit <input type="text" value="100"/>	Alarm lower limit <input type="text" value="50"/>
Upper limit report <input type="text" value="no"/>	Lower limit report <input type="text" value="yes"/>
upper limit is equal <input type="text" value="no"/>	lower limit is equal <input type="text" value="no"/>
warn High Description <input type="text"/>	warn Low Description <input type="text"/>
Warn Level <input type="text" value="Remind"/>	Alarm Type <input type="text" value="Normal"/>

Alarm notification  No Notification  mail  SMS

official account  System messages

**Alarm Upper/Lower Limit:** The upper limit is the maximum value of normal data, and the lower limit is the minimum value of normal data.

Alarm Upper/Lower Limit Report: Alarm when the data exceeds the upper/lower limit range.

Upper/Lower Limit Equal Report: Alarm when the data is equal to the alarm upper/lower limit.

Alarm Notification: You can select email or in-site message (select the personnel to be notified and send the message notification).

The text boxes marked with \* are mandatory. If no input is made, the addition of the new variable will fail, and the interface will give a corresponding filling prompt.

After entering the variable information, click "Save" to save the variable information, and a prompt of successful saving will be given. After the variable information is successfully saved, the newly added variable information can be seen in the variable list.

### **Edit Variable:**

In the variable information list, select a variable information that needs to be modified, click "Edit", and you can edit and modify the original information in the variable. The modified content and precautions are the same as adding a variable.

## Variable Definition

Variable Name  variable aliasing  Variable grouping

<input type="checkbox"/>	Variable Name	variable aliasing	Register	data type	Operate
<input type="checkbox"/>	Raw water tank liquid level	Raw water tank liquid level	4X0	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Frequency of raw water pump frequency converter	Frequency of raw water pump frequency converter	CONST1	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Turbidity of disc filter inlet water	Turbidity of disc filter inlet water	4X2	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	heat exchanger	heat exchanger	4X3	BIT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Air compression zone A	Air compression zone A	CONST3	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Air compression zone B	Air compression zone B	CONST4	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Disc filter effluent flow rate	Disc filter effluent flow rate	CONST5	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Ultrafiltration water tank liquid level	Ultrafiltration water tank liquid level	CONST7	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	Ultrafiltration water pump frequency	Ultrafiltration water pump frequency	CONST8	USHORT	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="copy"/> <input type="button" value="Delete"/>

Batch Operation

Go to

After modifying the variable information, click "Confirm" to update the variable information, and a prompt of successful operation will be given. After the variable information is successfully updated, the updated variable information can be seen in the customer archive list.

**Batch Modification:** Check one or more records in the variable list, click "Batch Operation - Batch Modify", a modification confirmation box will pop up. The parameters can be selected from all parameters in the basic settings and alarm settings, such as "Variable Type", "Register", "Read-Write Permission", etc., and the parameters can be modified uniformly.

The screenshot shows a 'Batch Modify' dialog box overlaid on the 'Variable Definition' page. The dialog has a 'parameter' dropdown and a 'Variable type' dropdown. Below these is a table of variables with checkboxes for selection. A 'Batch Modify' button is visible at the bottom left of the dialog. The background table shows variables like 'Raw water tank liquid level', 'Frequency of raw water pump frequency converter', etc.

## View Variable:

In the variable information list, select a variable, click "Details", and you can view the detailed information in the variable information list. The information content is the same as that in the add variable pop-up window, but cannot be modified.

The screenshot shows the 'Variable Definition' interface. At the top, there are input fields for 'Variable Name', 'variable aliasing', and 'Variable grouping', along with 'Search' and 'Add' buttons. Below is a table of variables. The 'Details' button for the first variable, 'Raw water tank liquid level', is highlighted with a red box. The table columns are 'Variable Name', 'variable aliasing', 'Register', 'data type', and 'Operate'.

## Delete Variable:

There are two ways to delete a variable: **batch deletion** and **individual deletion**.

**Batch Deletion:** Check one or more records in the variable list, click "Batch Operation - Batch Delete", a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target variable data; click "Cancel" to cancel the deletion operation.

Variable Definition X

Variable Name  variable aliasing  Variable grouping  Search Add Import Export

<input type="checkbox"/>	Variable Name	variable aliasing	Register	data type	Operate
<input type="checkbox"/>	Raw water tank liquid level	Raw water tank liquid level	4X0	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Frequency of raw water pump frequency converter	Frequency of raw water pump frequency converter	CONST1	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Turbidity of disc filter inlet water	Turbidity of disc filter inlet water	4X2	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	heat exchanger	heat exchanger	4X3	BIT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Air compression zone A	Air compression zone A	CONST3	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Air compression zone B	Air compression zone B	CONST4	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Disc filter effluent flow rate	Disc filter effluent flow rate	CONST6	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input checked="" type="checkbox"/>	water tank liquid level	Ultrafiltration water tank liquid level	CONST7	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input checked="" type="checkbox"/>	water pump frequency	Ultrafiltration water pump frequency	CONST8	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>

Batch Delete Batch Modify

Batch Operation Go to 1 < 1 2 3 > 10/page

**Individual Deletion:** Select a variable to be deleted, click the delete button behind the variable, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target variable; click "Cancel" to cancel the deletion operation.

Variable Definition X

Variable Name  variable aliasing  Variable grouping  Search Add Import Export

<input type="checkbox"/>	Variable Name	variable aliasing	Register	data type	Operate
<input type="checkbox"/>	Raw water tank liquid level	Raw water tank liquid level	4X0	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <span style="border: 1px solid red; padding: 2px;">Delete</span>
<input type="checkbox"/>	Frequency of raw water pump frequency converter	Frequency of raw water pump frequency converter	CONST1	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Turbidity of disc filter inlet water	Turbidity of disc filter inlet water	4X2	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	heat exchanger	heat exchanger	4X3	BIT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Air compression zone A	Air compression zone A	CONST3	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>
<input type="checkbox"/>	Air compression zone B	Air compression zone B	CONST4	USHORT	<a href="#">Edit</a> <a href="#">Details</a> <a href="#">copy</a> <a href="#">Delete</a>

Are you sure to delete the selected data?

Cancel Confirm

### Query Variable:

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There are two ways to query variables: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.;

Variable Name  Variable grouping

## Copy Variable:

Click "Copy" for an existing variable to quickly create a new variable.

Variable Name	Alias	Grouping	Data Type	Operations
Raw water tank liquid level				Edit Details copy Delete
Frequency of raw water pump frequency converter	frequency converter	CONST1	USHORT	Edit Details copy Delete
Turbidity of disc filter inlet water	Turbidity of disc filter inlet water	4X2	USHORT	Edit Details copy Delete
heat exchanger	heat exchanger	4X3	BIT	Edit Details copy Delete
Air compression zone A	Air compression zone A	CONST3	USHORT	Edit Details copy Delete
Air compression zone B	Air compression zone B	CONST4	USHORT	Edit Details copy Delete
Disc filter effluent flow rate	Disc filter effluent flow rate	CONST5	USHORT	Edit Details copy Delete
Ultrafiltration water tank liquid level	Ultrafiltration water tank liquid level	CONST7	USHORT	Edit Details copy Delete
Ultrafiltration water pump frequency	Ultrafiltration water pump frequency	CONST8	USHORT	Edit Details copy Delete

Select a variable, click "Copy", and a copy pop-up window will appear.

You can enter the number of copies and the copy step.

**Number of Copies:** The number of data records to be copied using this variable as a template.

**Step:** The name interval and register address space interval between each copied variable. (For example: When copying variable a1 with address 4X0 and a step of 2, the copied variable will be variable a2 with address 4X2, and so on.)

Click "Copy" to copy batch variables.

### Import and Export:

The import and export functions provide quick import and export of variable data information.

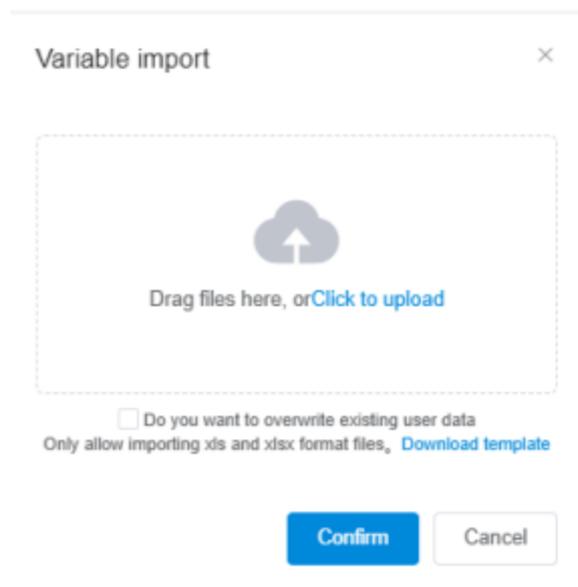
Variable Name  Please enter Variable grouping

**Export Function:** Click the "Export" button in the upper right corner to export all variable information in the account; the exported information is saved to the specified path of the computer host in the form of an Excel file.

Variable Name	Variable Alias	Unit	Alarm Group	Alarm Level	Alarm Type	Alarm Status	Alarm Time	Alarm Location	Alarm Description	Alarm Action	Alarm Contact	Alarm Email	Alarm Phone	Alarm Address	Alarm Remark
1. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
2. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
3. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
4. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
5. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
6. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
7. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
8. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
9. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
10. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
11. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
12. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
13. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
14. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
15. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
16. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
17. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
18. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
19. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
20. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
21. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
22. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
23. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
24. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
25. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
26. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
27. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
28. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			
29. In water tank liquid level water tank liquid lev	LSW400F	0	4X	200	200	Alarm grouping	0	No	1	1.000000	Read/Write	0%			

**Import Function:** Click the "Import" button in the upper right corner to call up the import pop-up window; click "Download Template" at the bottom of the import pop-up window, fill in the group information into the template Excel file according to the template standards, and then the import function can be used for import.

There are two import methods: drag the file to the file import area of the import pop-up window, click "Click to Upload" in the import pop-up window, select the variable Excel file to be imported, and click "Confirm".



After successful import, the customer archive data is updated to the variable definition list.

## 9.2.8 Configuration Definition

In Model Management, select a model and click "Configuration Definition" to jump to the configuration definition page.

Model Name	Model Agreement	Interface Type	Screen Total	Variable Total	Operate
Rolling	Modbus TCP	Network Interface	1	27	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
Heat exchange station	Modbus TCP	Network Interface	1	25	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
Intelligent control system for air conditioner	Modbus TCP	Network Interface	1	37	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
Compressor	Modbus TCP	Network Interface	1	62	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
Sludge Treatment	Modbus TCP	Network Interface	1	37	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
Rolling equipment	Modbus TCP	Network Interface	2	2	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
PLC	Modbus RTU	485Serial port	2	1	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
WZ110	MODBUS	485Serial port	2	4	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>
PLC	Modbus TCP	Network Interface	2	2	<a href="#">&lt;</a> <a href="#">&gt;</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Copy</a> <a href="#">Grouping</a> <a href="#">Variable</a> <a href="#">Configuration</a>

The configuration defined in the configuration definition is the model configuration. The configuration pages and variable binding methods of devices that select this model are the same, and the difference lies in the variable data collected by different devices.



viewing, deleting, deploying, and diagnosing gateway management-related information. The interface also provides a quick query function for various device information fields, and you can enter keywords for data retrieval.

### 9.3.1 Add Gateway

Click the "Add" button in the upper right corner to pop up the interface for adding a new gateway. Among them, the gateway serial number must be unique across the entire platform (the gateway serial number uniquely identifies a gateway), that is, each gateway can only belong to one account uniquely. Otherwise, the interface will give a corresponding prompt and the addition of the new gateway will fail.

The screenshot shows a form titled "gateway administration" with a close button (X) in the top right corner. The form is divided into two columns of input fields. The left column contains: "Gateway Sn" (text input, mandatory), "Catalog Node" (text input, mandatory), "Gateway brand" (dropdown menu, value: WTBL), "Operations" (dropdown menu, value: Build), and "sort" (text input, value: 0). The right column contains: "Gateway Name" (text input, mandatory), "Address" (text input, mandatory), "data format" (dropdown menu, value: Common Format), and "Product Type" (dropdown menu, value: Intelligent Gateway). At the bottom of the form are two buttons: "Confirm" (blue) and "Cancel" (white).

The text boxes marked with \* are mandatory. If no input is made, the addition of the new device archive will fail, and the interface will give a corresponding filling prompt.

**Operation Status:** Manually determine the current status of the gateway, which is not the actual online status of the gateway.

**Directory Node:** Select the node to which the device belongs (for details, refer to Chapter 6. Device Monitoring).

**Geographic Location:** Select the geographic location of the gateway in the map.

**Data Format:** Mainly includes common format and open format.

**Product Type:** Mainly includes intelligent gateway and data terminal.

After selecting the appropriate gateway information, click "Confirm" to create a new device.

Note: One device can only be assigned to one gateway, and one gateway can be bound to multiple devices.

## 9.3.2 Edit Gateway

In the gateway information list, select a gateway information that needs to be modified, click "Edit", and you can edit and modify the original information in the gateway. The modified content and precautions are the same as adding a gateway. For details, refer to adding a gateway in section 9.3.1.;

DataList											Export	More
sort	Gateway Name	Gateway No	Brand	Signal	State	Operations	Catalog Node	CreateTime	Update			
	WG6EONW4022095556	WG6EONW4022095566	WFDL		Offline	Start	Material preparation section	2024-01-23 13:26:14		<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Arrange</a> <a href="#">Diagnosis</a>		
	WG733HLA0230885580	WG733HLA0230885580	WFDL		Offline	Start	The distribution control system in railway	2023-09-08 09:24:51		<a href="#">Edit</a> <a href="#">Details</a> <a href="#">Delete</a> <a href="#">Arrange</a> <a href="#">Diagnosis</a>		

After modifying the gateway information, click "Confirm" to update the gateway information, and a prompt of successful operation will be

given. After the gateway information is successfully updated, the updated device archive information can be seen in the device archive list.

### 9.3.3 View Gateway

In the gateway information list, select a gateway information, click "Details", and you can view the detailed information in the gateway. The information is the same as that in the add gateway pop-up window, but cannot be modified.



Gateway Name	Gateway No	Brand	Signal	State	Operations	Catalog Name	CreateDate	Operate
WGSEONW4D23995566	WGSEONW4D23995566	WTEL	📶	Offline	🔧	Material preparation section	2024-01-23 13:26:14	⏪ Edit <b>Details</b> Delete 🔄 Arrange 📄 Diagnostics
WG7ESHANZ39985800	WG7ESHANZ39985800	WTEL	📶	Offline	🔧	The destination control system in railway	2023-09-08 09:24:51	⏪ Edit Details Delete 🔄 Arrange 📄 Diagnostics

### 9.3.4 Delete Gateway

There are two ways to delete a gateway: **batch deletion** and **individual deletion**.

**Batch Deletion:** Check one or more records in the gateway list, click "Batch Operation - Batch Delete" in the lower left corner, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target gateway device; (devices bound to this gateway will be automatically unbound). Click "Cancel" to cancel the deletion operation.;

DataList Export

Gateway Name	Gateway Sn	Brand	signal	state	Operations	Catalog Note	CreateDate	Operate
WG5E30VWAZ230905000	WG5E30VWAZ230905000	WTEL		off line	Start	Material preparation section	2024-01-23 13:26:14	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="Delete"/> <input type="button" value="Arrange"/> <input type="button" value="Diagnose"/>
WG7E30VWAZ230905000	WG7E30VWAZ230905000	WTEL		off line	Start	Pre desulfurization control system in railway	2023-09-08 09:24:51	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="Delete"/> <input type="button" value="Arrange"/> <input type="button" value="Diagnose"/>

Back Delete  
Search Operation

Go to:

**Individual Deletion:** Select a gateway to be deleted, click the delete button behind the gateway information, a deletion confirmation box will pop up. Click "Confirm" to perform the deletion operation and delete the target gateway; click "Cancel" to cancel the deletion operation. ;

Online status

on line 0 off line

Are you sure to delete this data?

Running state

in operation 0 not running 2

Gateway Sn:  Operations:  Online status:

advanced search -

Gateway Name	Gateway Sn	Brand	signal	state	Operations	Catalog Note	CreateDate	Operate
WG5E30VWAZ230905000	WG5E30VWAZ230905000	WTEL		off line	Start	Material preparation section	2024-01-23 13:26:14	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input style="border: 1px solid red;" type="button" value="Delete"/> <input type="button" value="Arrange"/> <input type="button" value="Diagnose"/>
WG7E30VWAZ230905000	WG7E30VWAZ230905000	WTEL		off line	Start	Pre desulfurization control system in railway	2023-09-08 09:24:51	<input type="button" value="Edit"/> <input type="button" value="Details"/> <input type="button" value="Delete"/> <input type="button" value="Arrange"/> <input type="button" value="Diagnose"/>

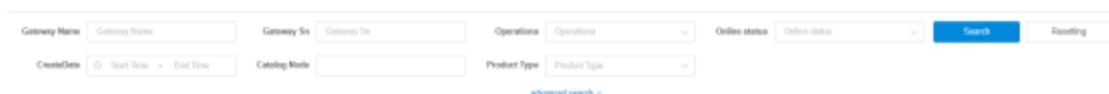
### 9.3.5 Query Gateway

There are two ways to query gateways: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query.

By default, the most practical and frequently used query fields are provided for query, including: gateway name, gateway serial number, online status (actual online status of the gateway), and operation status (manually marked status).



Click "Advanced Search" to add fields such as gateway creation time range, directory node, and product type to the search items in the search box, which can increase the flexibility of customer archive search.



After the query is completed, click "Reset" to clear the content in the search box and display all device archive information of the account.

### 9.3.6 Gateway Statistics

Any addition, deletion, modification, query, or status change of the gateway management will be displayed in real time in the statistical column at the top of the gateway management, including: total number of gateways, online gateways, and offline gateways.



### 9.3.7 Deploy Gateway

Select a gateway, click "Deploy" to deploy all devices under the gateway. When the deployment is successful or failed, a corresponding prompt will be given. (After deployment, the deployment status behind each device will display the deployment result.)

Online status	Device SN	Device Name	Deployment Status
1	WTBL	Screw compressor	success

Gateway Name	Gateway ID	Brand	Signal	State	Operations	Catalog Node	CreateDate	Operate
WG630WAZ23965666	WG630WAZ23965666	WTBL		off line	Build	Material preparation section	2024-01-23 13:25:14	⏪ Edit ⏪ Details ⏪ Delete ⏪ Arrange ⏪ Diagnosis
WG783WLANZ39685080	WG783WLANZ39685080	WTBL		off line	Build	Piv desalination control system in refinery	2023-09-08 09:24:51	⏪ Edit ⏪ Details ⏪ Delete ⏪ Arrange ⏪ Diagnosis

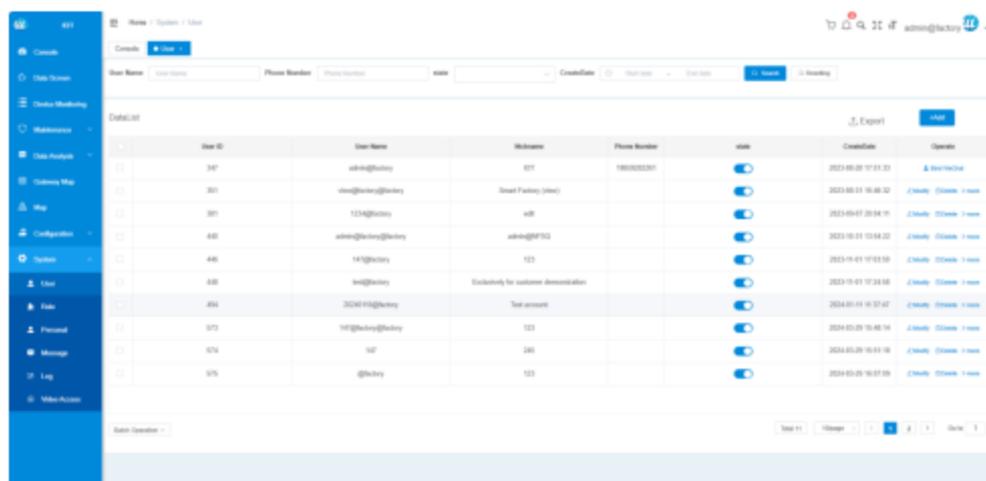
### 9.3.8 Gateway Diagnosis

Select a gateway, click "Diagnosis" to be responsible for functions such as detailed information of the gateway, status diagnosis, system upgrade, and log tracking.

## 10. System Configuration

### 10.1 User Management

Click "System Configuration" - "User Management" in the menu. On this page, create subordinate users to assist the current user in managing all devices. By selecting different roles (role permissions are configured in Role Management), users can have operation permissions for different devices.



The screenshot displays the 'User Management' interface. It features a sidebar menu on the left with options like 'Dashboard', 'Data Center', 'Device Monitoring', 'Maintenance', 'User Management', 'Configuration', 'System', 'User', 'Role', 'Permission', 'Message', 'Log', and 'Video Center'. The 'System' menu is expanded, and 'User' is selected. The main content area shows a 'Create User' button and a search bar. Below is a table with columns: 'User ID', 'User Name', 'Nickname', 'Phone Number', 'Role', 'Created Date', and 'Operate'. The table contains 10 rows of user data.

User ID	User Name	Nickname	Phone Number	Role	Created Date	Operate
347	admin@factory		18600000000		2023-09-28 17:31:23	& More
301	hua@factory	Smart Factory User			2023-09-21 16:30:32	Create Delete View
301	123@factory				2023-09-27 20:34:19	Create Delete View
448	admin@factory	admin@FTO			2023-10-21 13:34:22	Create Delete View
448	147@factory				2023-10-21 17:03:59	Create Delete View
448	148@factory	Exclusively for customer demonstration			2023-10-21 17:24:58	Create Delete View
454	202411@factory	Test account			2024-11-19 17:27:47	Create Delete View
473	147@factory				2024-03-28 15:48:19	Create Delete View
474	147	147			2024-03-28 16:11:18	Create Delete View
475	q@factory				2024-03-28 16:07:59	Create Delete View

## 10.1.1 Add User

Click the "Add" button in the upper right corner to pop up the interface for adding a new user.

Add user

\* Nickname  \* Role

Phone Number  mailbox

\* Account  @factory \* Password

Gender  state  Enable  Deact

\* Superior user  Customer

Employee ID  Office landline

Among them::

User Nickname: Can be customized.

Role: Assign the permissions owned by the role to the account.

Mobile Phone/Email: Facilitate subsequent notifications if an alarm occurs.

Password: Default: 123456; you can customize and modify the account password.

User Account: Use the same suffix of the same organization to indicate the account ownership, which is used for logging in to the account.

Status: Control the usage status of the sub-account; after being disabled, the account cannot log in.

Customer File: Select the customer to be assigned to the user, and the devices under the project bound to the customer will also be assigned to the user.

Superior User: Any existing user can be selected as his direct superior.

The text boxes marked with \* are mandatory. If no input is made, the addition of the new device archive will fail, and the interface will give a corresponding filling prompt.

After filling in all the information, click "Confirm" to successfully create a new user.

### **10.1.2 Edit User**

In the user management list, select a user that needs to be modified, click "Modify", and you can edit and modify the original information in the user. The modified content and precautions are the same as adding a user (excluding the modification of account and password). For details, refer to adding a user in section 10.1.1.

state	CreateDate	Operate
<input checked="" type="checkbox"/>	2023-06-29 17:51:33	<a href="#">Edit</a> <a href="#">View Chat</a>
<input checked="" type="checkbox"/>	2023-06-31 16:46:32	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2023-09-07 20:04:11	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2023-10-31 13:54:22	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2023-11-01 17:03:50	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2023-11-01 17:24:50	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2024-01-11 11:37:47	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2024-03-29 15:48:14	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
<input checked="" type="checkbox"/>	2024-03-29 15:51:18	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>

After modifying the user information, click "Confirm" to update the user information, and a prompt of successful operation will be given.

### 10.1.3 Export

The export function provides quick export of user management.

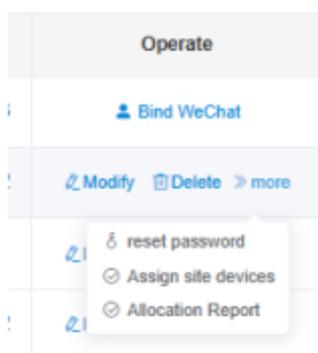
User ID	User Name	Nickname	Phone Number	state	CreateDate	Operate
147	admin@factory	101	1881052281	<input checked="" type="checkbox"/>	2023-06-29 17:51:33	<a href="#">Edit</a> <a href="#">View Chat</a>
301	147@factory@factory	Smart Factory (New)		<input checked="" type="checkbox"/>	2023-06-31 16:46:32	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
301	121@factory	148		<input checked="" type="checkbox"/>	2023-09-07 20:04:11	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
440	admin@factory@factory	admin@NFSQ		<input checked="" type="checkbox"/>	2023-10-31 13:54:22	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
446	147@factory	123		<input checked="" type="checkbox"/>	2023-11-01 17:03:50	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
448	test@factory	Exclusively for customer demonstration		<input checked="" type="checkbox"/>	2023-11-01 17:24:50	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
494	20240110@factory	Test account		<input checked="" type="checkbox"/>	2024-01-11 11:37:47	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
573	147@factory@factory	123		<input checked="" type="checkbox"/>	2024-03-29 15:48:14	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
574	147	245		<input checked="" type="checkbox"/>	2024-03-29 15:51:18	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>
575	@factory	123		<input checked="" type="checkbox"/>	2024-03-29 15:57:09	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">More</a>

Click the "Export" button in the upper right corner to export all user management information in the account; the exported information is saved to the specified path of the computer host in the form of an Excel file.

### 10.1.4 更多

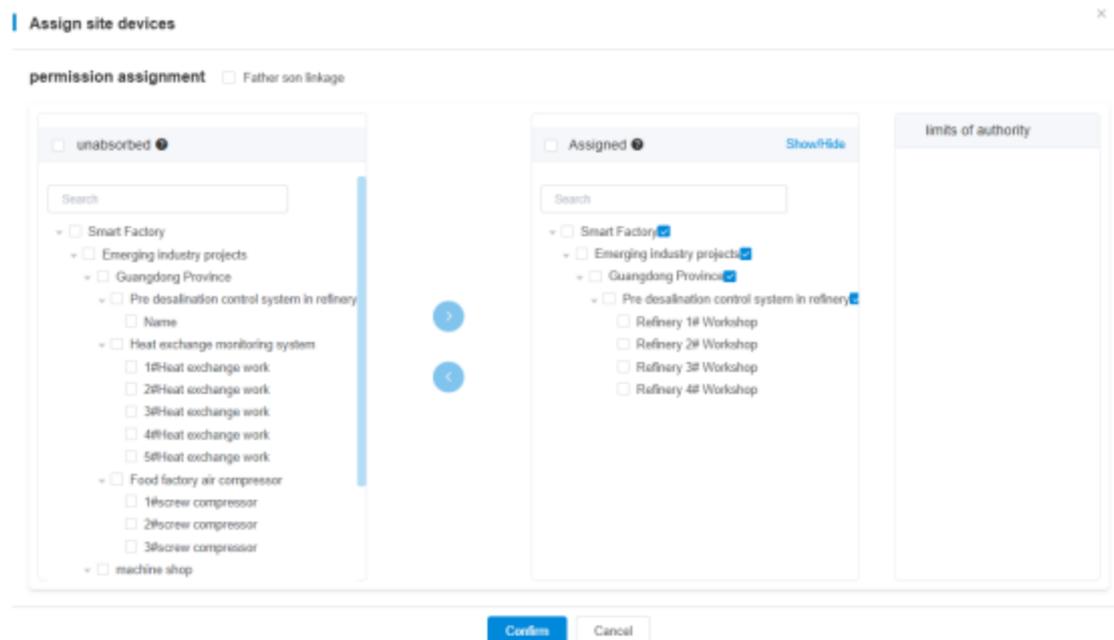
Click the status of the sub-user information to switch the status by clicking.

Click "More" behind the corresponding user to provide three modification functions for the user, including: reset password, assign site devices, and assign directory reports.



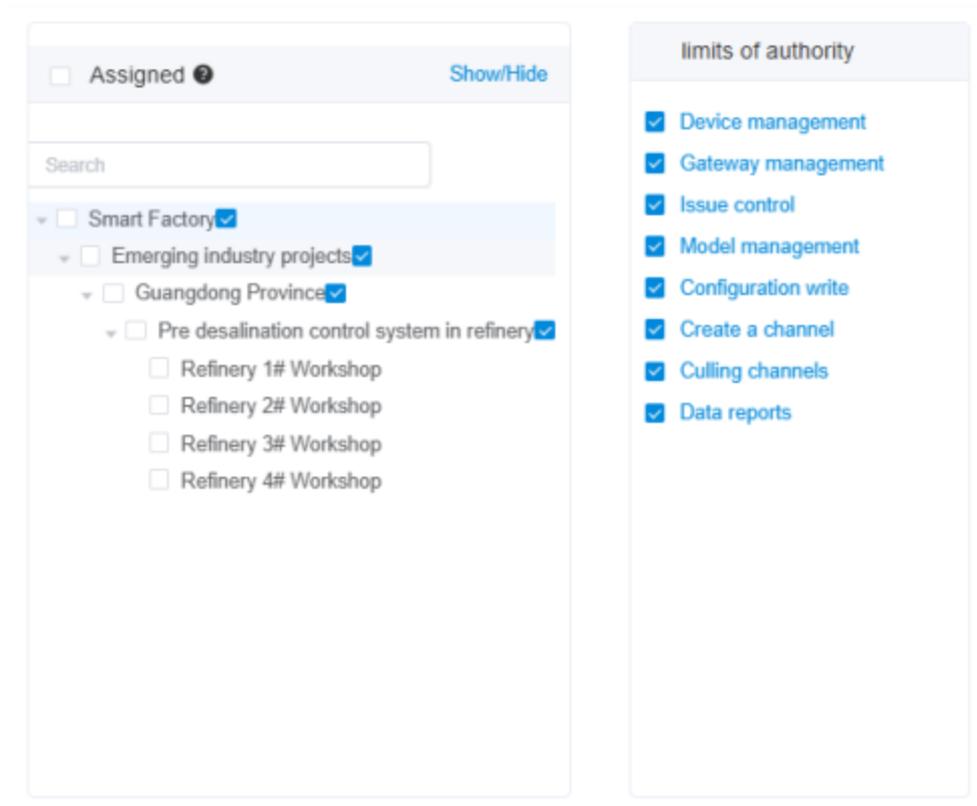
Click "**Reset Password**": You can modify the password of the sub-user.

Click "**Assign Site Devices**": You can assign the management permissions of directories and devices to the sub-user. (Note: Enable parent-child linkage, select a directory node, and all devices below will be selected.)



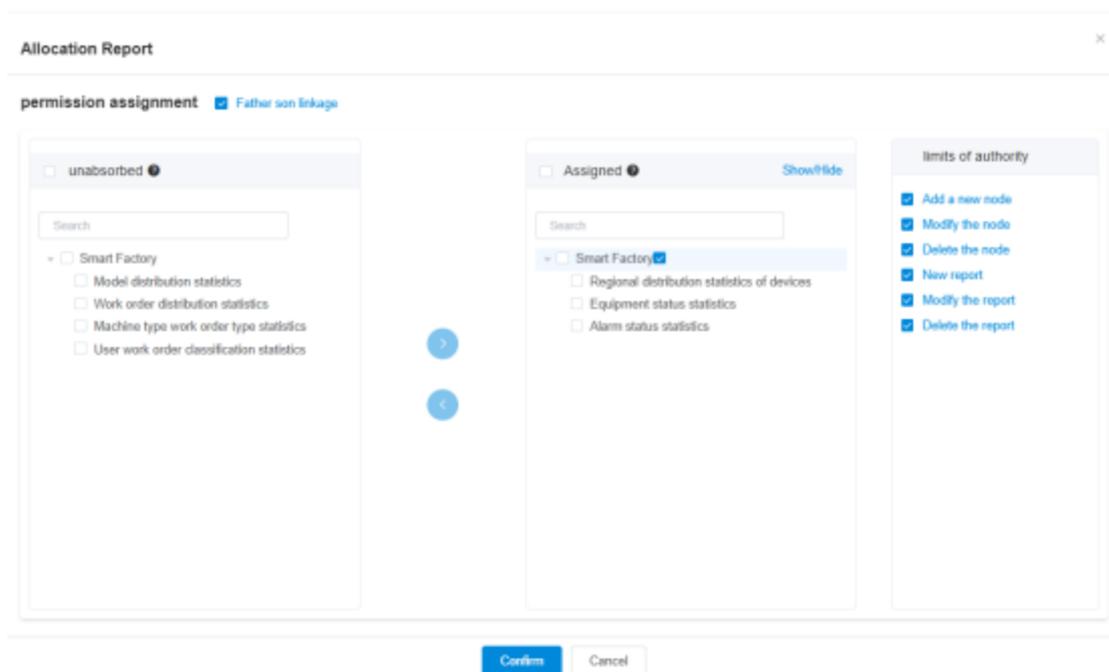
After checking the project, click the assignment operation in the middle, and then click "Confirm" to assign the selected sites and devices of the project to the user.

Click the assigned node to further adjust the user's operation permissions on the node.



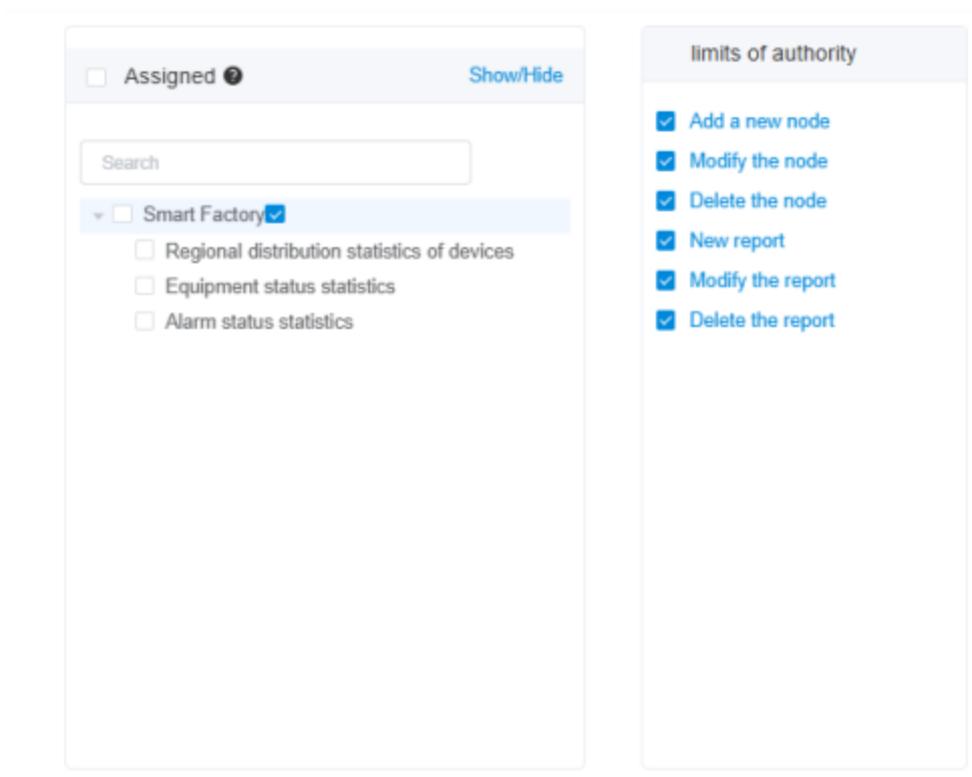
Click "Confirm" to successfully issue the device permissions.

Click "**Assign Directory Reports**": You can assign the management permissions of reports to the sub-user. (Note: Enable parent-child linkage, select a directory node, and all reports below will be selected.)



After checking the project and report, click the assignment operation in the middle, and then click "Confirm" to assign the selected report of the project to the user.

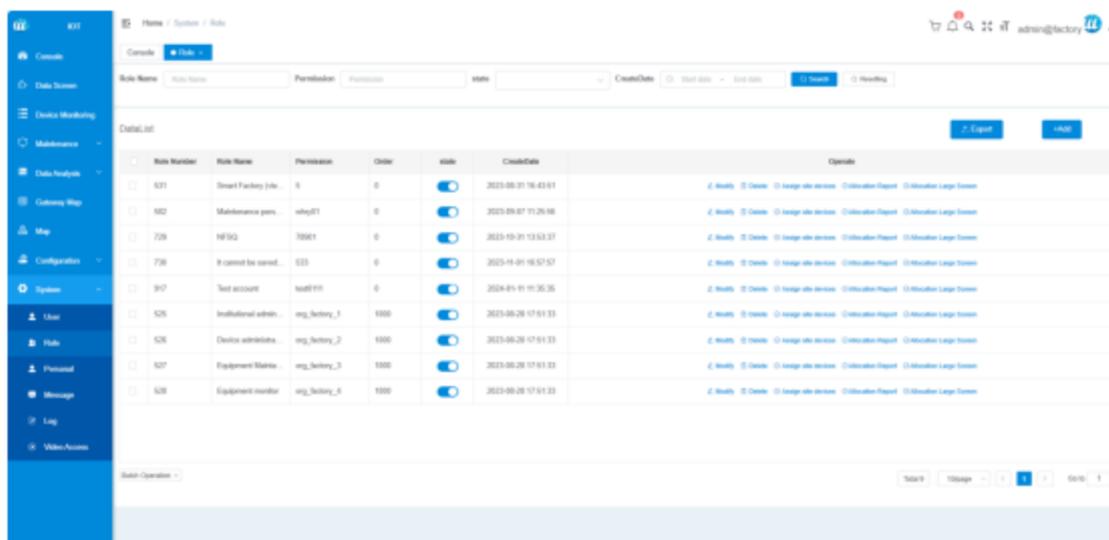
Click the assigned node to further adjust the user's operation permissions on the node.



Click "Confirm" to successfully issue the report permissions.

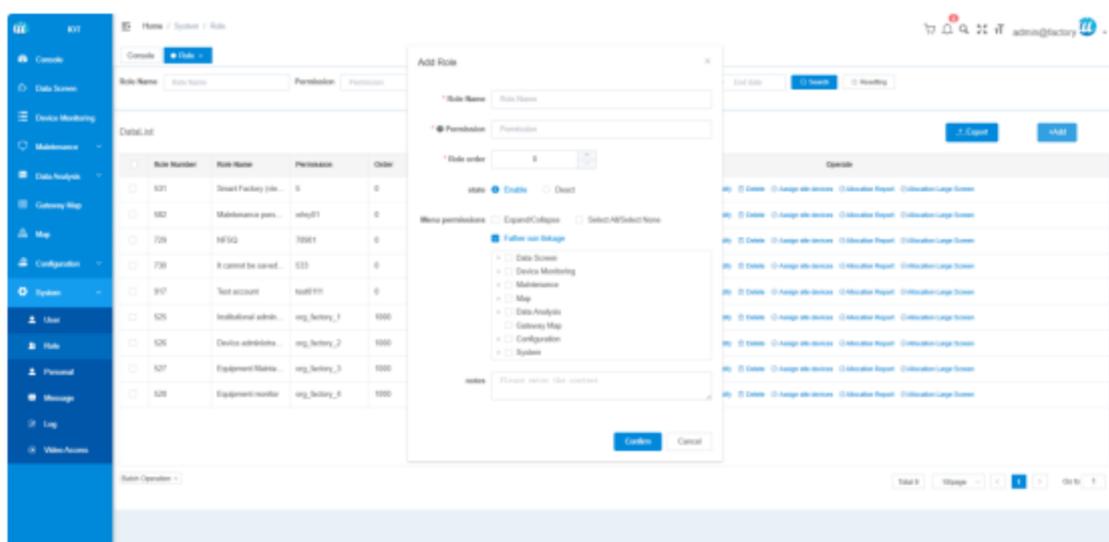
## 10.2 Role Management

Click "System Configuration" - "Role Management" in the menu. On this page, you can define roles and assign permissions to roles; (Note: Role permissions and permissions assigned in User Management act on the same user in a superimposed manner).



## 10.2.1 Add Role

Click the "Add" button to define the name of the new role and the operation permissions of the modules it owns. Through the "Assign Menu" below, you can assign menu module usage permissions such as "Console", "Device Management", and "Gateway Management" to the role.

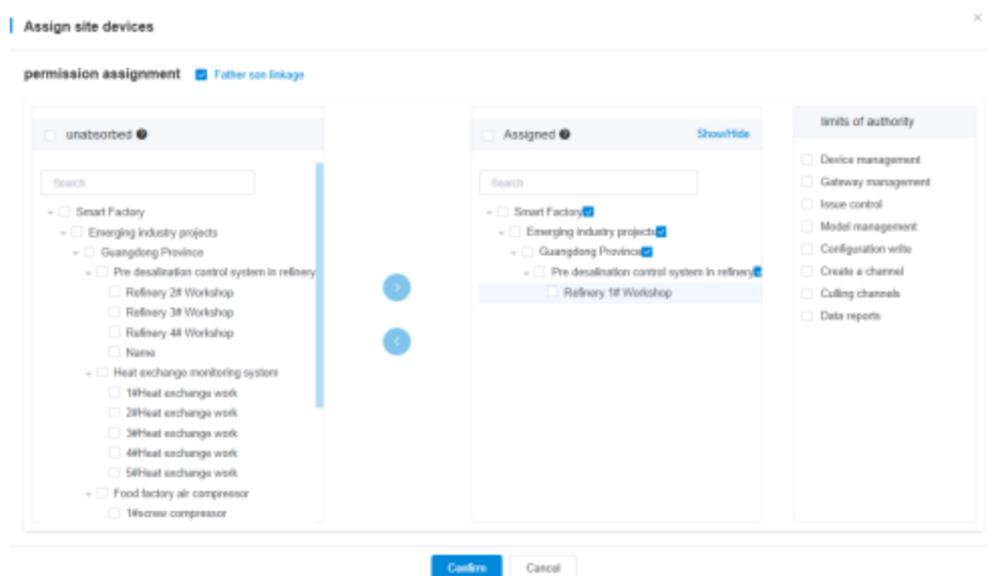


After the role is created, you can assign device permissions to the role. When an account is bound to the role, the account will have the

menus and node devices owned by the role.

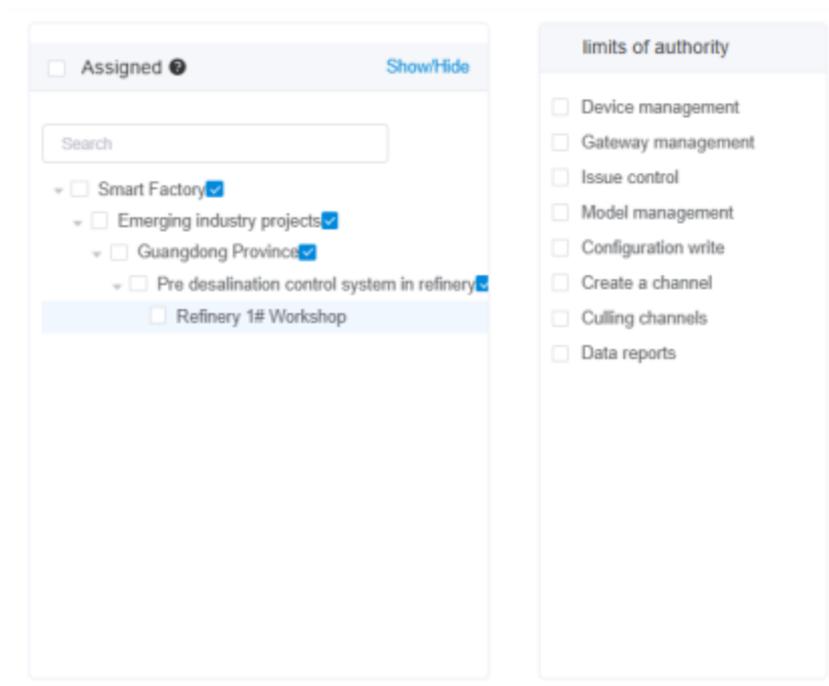
## 10.2.2 Assign Site Devices

Click "**Assign Site Devices**" to assign device usage permissions to the role.;



After checking the project, click the assignment operation in the middle, and then click "Confirm" to assign the selected sites and devices of the project to the role.

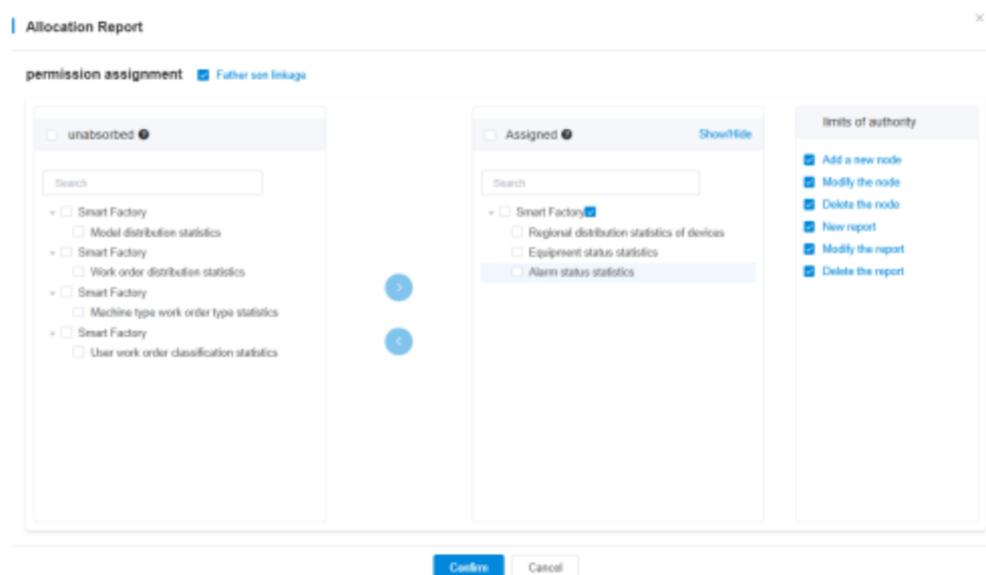
Click the assigned node to further adjust the user's operation permissions on the node.



Click "Confirm" to successfully issue the device permissions.

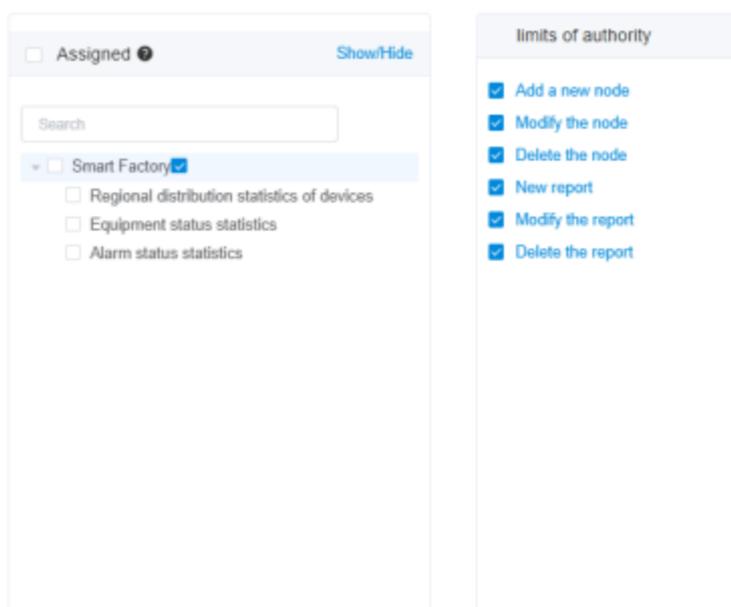
### 10.2.3 Assign Directory Reports

Click "**Assign Directory Reports**" to assign the management permissions of reports to the sub-user. (Note: Enable parent-child linkage, select a directory node, and all reports below will be selected.)



After checking the project and report, click the assignment operation in the middle, and then click "Confirm" to assign the selected report of the project to the user.

Click the assigned node to further adjust the user's operation permissions on the node.



Click "Confirm" to successfully issue the report permissions.

## 10.2.4 Export

The export function provides quick export of role management.

Detail list [Export](#) [+Add](#)

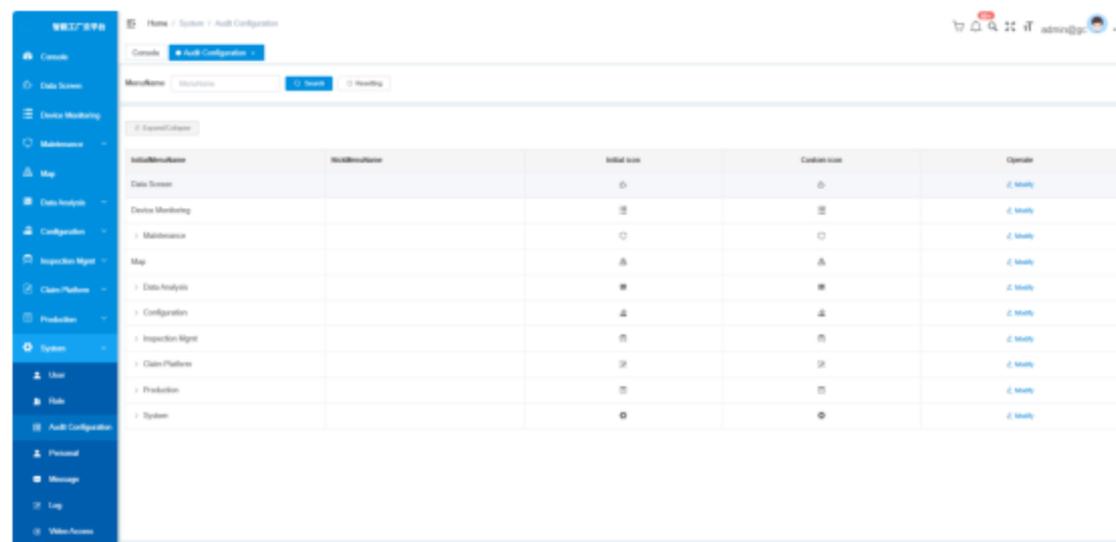
Role Number	Role Name	Permission	Order	state	CreateDate	Operate
511	Smart Factory job	5	5	<input checked="" type="checkbox"/>	2023-08-01 10:43:51	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
502	Maintenance pers...	whys01	6	<input checked="" type="checkbox"/>	2023-08-07 11:25:56	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
728	HFSG	78901	6	<input checked="" type="checkbox"/>	2023-10-01 13:53:37	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
738	It cannot be saved...	523	6	<input checked="" type="checkbox"/>	2023-10-01 10:57:57	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
917	Test account	test111	6	<input checked="" type="checkbox"/>	2024-01-11 11:36:35	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
525	Institutional admin...	mg_factory_1	1000	<input checked="" type="checkbox"/>	2023-08-28 17:51:33	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
626	Division administra...	mg_factory_2	1000	<input checked="" type="checkbox"/>	2023-08-28 17:51:33	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
627	Equipment Manage...	mg_factory_3	1000	<input checked="" type="checkbox"/>	2023-08-28 17:51:33	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>
528	Equipment monitor	mg_factory_4	1000	<input checked="" type="checkbox"/>	2023-08-28 17:51:33	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Assign role devices</a> <a href="#">Allocation Report</a> <a href="#">Allocation Legal Screen</a>

Click the "Export" button in the upper right corner to export all role management information in the account; the exported information is

saved to the specified path of the computer host in the form of an Excel file.

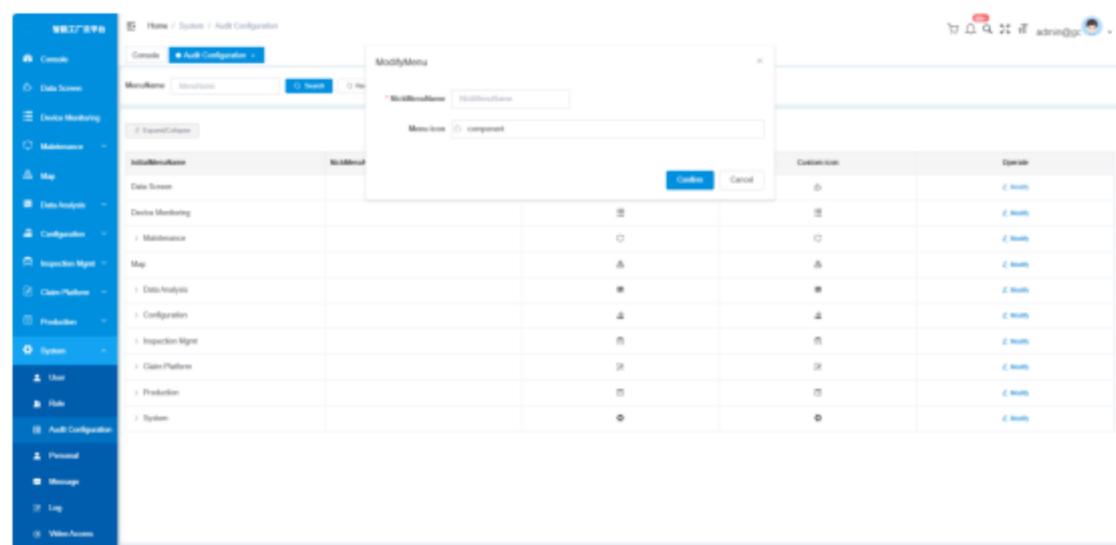
## 10.3 Menu Configuration

You can customize the platform menu name and icon.



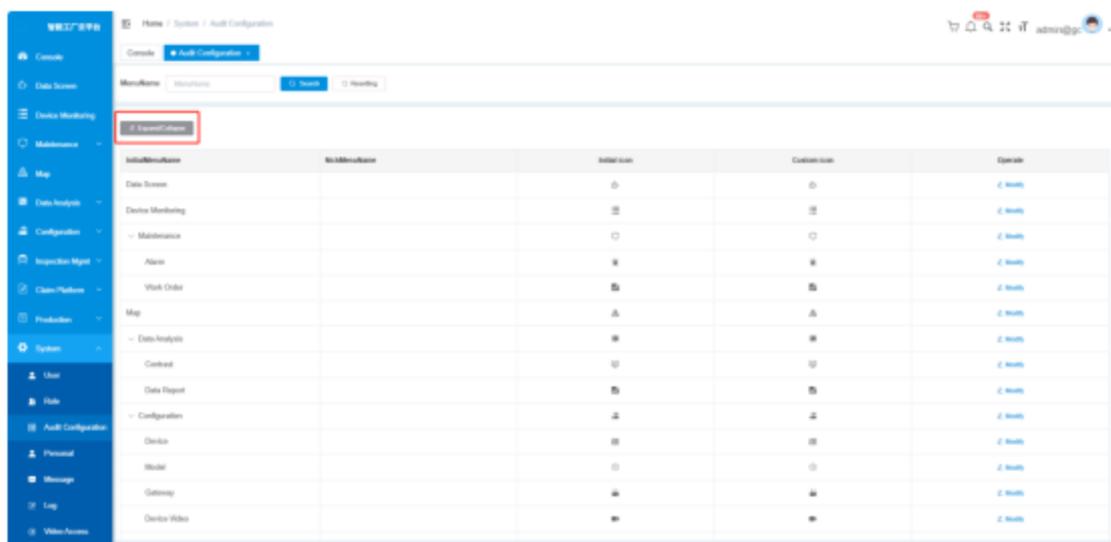
### 10.3.1 Modify Menu

In the menu list, select a menu that needs to be modified, click "Modify", and you can edit and modify the name and icon of the menu.



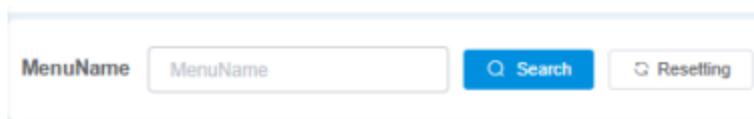
### 10.3.2 Expand/Collapse

Click "Expand/Collapse" in the upper left corner of the menu list to expand/collapse all branch sub-menus for viewing.



### 10.3.3 Query Menu

There are two ways to query menus: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query. By default, the most practical and frequently used query field is provided for query, including: menu name.



After the query is completed, click "Reset" to clear the content in the search box and display all role information of the account.

## 10.4 Message Center

The Message Center mainly includes two modules: **System**

## Notifications and Message Settings.

### 10.4.1 System Notifications

System Notifications: You can view all message notifications in the entire platform, including system notifications, work order messages, alarm messages, etc. Click to expand to view the specific message content.

The screenshot shows the 'System Message' interface. On the left is a navigation menu with options like Console, Data Source, Device Monitoring, Maintenance, Map, Data Analysis, Configuration, Inspection Mgmt, Alarm/Task, Production, System, User, Role, Audit Configuration, Personal, Message, Log, and Video Access. The main area is titled 'Home / System / Message' and contains a 'Message settings' table. The table has columns for 'Notification Title', 'State', 'Type', and 'Time'. It lists ten entries, all with the title 'Inspection and early warning notice', a state of 'Unread', and a type of 'System notification'. The times range from 2025-10-12 09:59:59 to 2025-10-08 09:59:59.

Notification Title	State	Type	Time
Inspection and early warning notice	Unread	System notification	2025-10-12 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-11 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-10 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-09 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-09 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-07 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-07 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-05 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-05 09:59:59
Inspection and early warning notice	Unread	System notification	2025-10-05 09:59:59

### 10.4.2 Message Settings

Message Settings: You can customize the types of message notifications you need to receive.

The screenshot shows the 'Message settings' interface. It has a left sidebar with 'System notifications' and 'Message settings' (selected). The main area lists three notification types with their descriptions and toggle switches:

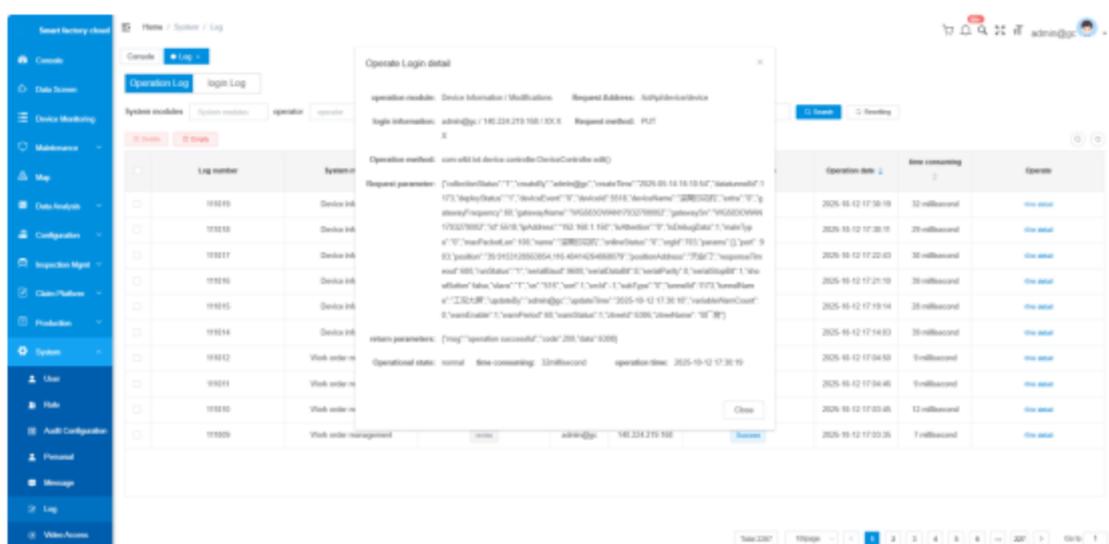
Notification Type	Description	Status
System notifications	System notifications will be notify you in the form of an internal message.	On
Order Message	Order Message will be notify you in the form of an internal message.	On
Alarm Message	Alarm Message will be notify you in the form of an internal message.	On

## 10.5 Log Center

### 10.5.1 Operation Log

The operation log will record the user's operations.

**Log Details:** Select a piece of operation log information, click "Details" behind the log information to view the detailed operation record of the user.



**Query Function:** There are two ways to query operation logs: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query. By default, the most practical and frequently used query fields are provided for query, including: system module, operator, type, status, and operation time.



After the query is completed, click "Reset" to clear the content in the

search box and display all operation log information of the account.

**Clear Function:** Click "Clear" above the list to clear all operation logs.

Log number	System module	Operation type	operator	Operation address	Operational state	Operation date	Time consuming	Operate
11109	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:38:19	32 millisecond	view detail
11108	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:38:11	29 millisecond	view detail
11107	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:22:43	38 millisecond	view detail
11106	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:21:30	38 millisecond	view detail
11105	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:19:14	28 millisecond	view detail
11104	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:14:03	38 millisecond	view detail
11102	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:04:50	9 millisecond	view detail
11101	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:04:45	9 millisecond	view detail
11100	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:03:45	12 millisecond	view detail
11099	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:03:35	7 millisecond	view detail

Click "Confirm" to clear all operation logs.

**Delete Function:** Select the logs to be deleted, click "Delete" above the list to delete the selected logs.

Log number	System module	Operation type	operator	Operation address	Operational state	Operation date	Time consuming	Operate
11109	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:38:19	32 millisecond	view detail
11108	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:38:11	29 millisecond	view detail
11107	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:22:43	38 millisecond	view detail
11106	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:21:30	38 millisecond	view detail
11105	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:19:14	28 millisecond	view detail
11104	Device information	write	admin@pc	140.224.219.160	Success	2025-10-12 17:14:03	38 millisecond	view detail
11102	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:04:50	9 millisecond	view detail
11101	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:04:45	9 millisecond	view detail
11100	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:03:45	12 millisecond	view detail
11099	Work order management	write	admin@pc	140.224.219.160	Success	2025-10-12 17:03:35	7 millisecond	view detail

## 10.5.2 Login Log

The login log will record the user's login operations.

**Query Function:** There are two ways to query login logs: full-name accurate query and fuzzy query; both query methods can use the flexible query method of multi-input box combination query. By default, the most practical and frequently used query fields are provided for query,

including: login address, user name, status, and login time.

Operation Log **login Log**  
 Login address  Login address    User Name  User Name    state  state    login time  Start date    End date       

After the query is completed, click "Reset" to clear the content in the search box and display all login log information of the account.

**Clear Function:** Click "Clear" above the list to clear all login logs.

Access number	User Name	Login address	Login location	browser	operating system	Login status	operational information	login date
114015	admin@jpc	140.224.218.168	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-12 17:08:25
114009	admin@jpc	140.224.218.168	XX.XX	Chrome 16	Windows 10	Success	Login is successful	2025-10-12 16:12:57
114010	admin@jpc	113.244.78.74	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 22:14:12
114009	admin@jpc	113.244.78.74	XX.XX	Chrome 14	Windows 10	Fail	The verification code has ex...	2025-10-11 22:14:87
114473	admin@jpc	112.48.40.104	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 17:15:51
114055	admin@jpc	27.154.119.75	XX.XX	Chrome 12	Windows 10	Success	Login is successful	2025-10-11 15:14:13
114404	admin@jpc	27.154.119.75	XX.XX	Chrome 12	Windows 10	Success	Login is successful	2025-10-11 15:13:53
114447	view@jpc	36.144.109.96	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 15:00:55
114403	admin@jpc	112.48.40.104	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 15:20:16
114402	admin@jpc	27.154.119.75	XX.XX	Chrome 13	Windows 10	Success	Login is successful	2025-10-11 15:17:27

Click "Confirm" to clear all login logs.

**Delete Function:** Select the logs to be deleted, click "Delete" above the list to delete the selected logs.

Access number	User Name	Login address	Login location	browser	operating system	Login status	operational information	login date
114015	admin@jpc	140.224.218.168	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-12 17:08:25
114009	admin@jpc	140.224.218.168	XX.XX	Chrome 16	Windows 10	Success	Login is successful	2025-10-12 16:12:57
114010	admin@jpc	113.244.78.74	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 22:14:12
114009	admin@jpc	113.244.78.74	XX.XX	Chrome 14	Windows 10	Fail	The verification code has ex...	2025-10-11 22:14:87
114473	admin@jpc	112.48.40.104	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 17:15:51
114055	admin@jpc	27.154.119.75	XX.XX	Chrome 12	Windows 10	Success	Login is successful	2025-10-11 15:14:13
114404	admin@jpc	27.154.119.75	XX.XX	Chrome 12	Windows 10	Success	Login is successful	2025-10-11 15:13:53
114447	view@jpc	36.144.109.96	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 15:00:55
114403	admin@jpc	112.48.40.104	XX.XX	Chrome 14	Windows 10	Success	Login is successful	2025-10-11 15:20:16
114402	admin@jpc	27.154.119.75	XX.XX	Chrome 13	Windows 10	Success	Login is successful	2025-10-11 15:17:27

## 11. Company Profile

WideIoT is an enterprise that provides overall solutions for industries such as smart factories, equipment manufacturers, environmental protection, energy, and electric power. The company has the overall project delivery capabilities from collection hardware, data platforms, design integration, to implementation services, and is committed to providing customers with efficient, intelligent, and sustainable solutions.

The company adheres to customer needs as the core and continuously leads the trend of intelligent manufacturing and digital transformation. The company has a high-quality technical team that can provide customers with comprehensive technical support and solutions, helping customers achieve production automation and data digitization, and improve production efficiency and quality.

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