

Haiwell S Series Intelligent Server

Haiwell Intelligent Server Instructions



Edit History

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- V20260408NO.2: Added Windows system options and introduced features such as 3D components to the product specifications.
- V20260616NO.3: Added the System Overview module; added export-abnormal-alarm information in Local Alarm; added the Variable Tags module; added descriptions for the List, Date Picker, Device Status, and Map components; added Interface Management and Open API instructions.
- V20260716NO.4: Delete Windows version and change the memory size of S100.

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I. Product Introduction

1. Main Functions

Haiwell Intelligent Server, powered by HaiwellLink technology, integrate a powerful web SCADA editor (web SCADA and data visualization capabilities), combining local server and visualization system functions in a hardware-software integrated architecture. They enable seamless interconnection across all scenarios within a local area network, providing intelligent real-time management and control of device data and on-site monitoring. They easily connect to third-party platforms such as ERP and MES, helping equipment manufacturers and integrators quickly implement digital solutions while empowering end customers and accelerating their digital transformation.

2. Key Highlights

- Data interconnection: Intelligent devices automatically synchronize data, integrating collection, storage, and analysis.
- Digital dashboard: Built-in special functional components allow device screens, project screens, production data, device alarms, monitoring screens, etc. to be displayed on the large screen instantly.
- Multi-device access: The S100 can be accessed via mobile app, mini-program, PC browser, and other devices through local area network or Internet.
- Automatic device data interconnection: Automatically discovers data from intelligent devices on local area networks and across networks, supporting unified management and remote monitoring of device data.
- Real-time variable overview: Real-time and historical values of device data can be viewed in real time for greater clarity and understanding.
- Centralized alarm management: Automatically receives alarm details from intelligent devices within the local area network, as well as screenshots and screen recordings of alarm triggers.
- Monitoring center: Automatically acquire local cameras within the LAN, and customize the split-screen style to achieve a centralized monitoring center.
- Open platform integration: Built-in MQTT service, seamlessly connecting to third-party device data, third-party databases, and business systems such as ERP and MES.
- Data visualization dashboard: Based on a powerful web SCADA editor and a rich component library, build professional data visualization dashboards by dragging and dropping.
- Local area network (LAN) storage: Breaks through cloud limitations, enabling long-term, autonomous, and secure local data storage, with on-demand cloud migration.
- High-security protection system: Localized deployment provides hierarchical access control, fine-grained permission management, and comprehensive operation auditing to ensure data security.

II. Product Specifications

1. Product Parameters and Specifications

Model		S100	S100 Pro
System	System	Linux	
Hardware	CPU	Intel Core i5	
	Flash	1T/2T (optional)	2T
	RAM	8GB/16GB/32GB (optional)	32G
	Ethernet port	10/100/1000 Base-T*2	
	WIFI	Supports 802.11 b/g/n/ac	
	USB HOST	USB 3.0*2	
	RTC	Built-in RTC	
Power	Rated input power	12V DC power supply	
	Power consumption	30W	
	Power protection	With surge protection and reverse connection protection	
	Withstand voltage	500VAC	
	Insulation resistance	Over 50MΩ @500VDC	
Environment	Cooling method	Wind cooling	
	Protection level	IP41	
	Storage temperature	-20°C~70°C	
	Operating temperature	0°C~50°C	
	Relative humidity	10%~90% RH (non-condensing)	
	Usage environment	Dust-proof, moisture-proof, corrosion-proof, and protected from electric shock and external impact, etc	
	Vibration resistance	10~25 Hz (X, Y, and Z axis 2G/30 minutes)	
Shape	Shell material	Aluminum alloy casing	
	External dimensions (W*H*D)	165*48*125mm	
	Installation method	Lay flat, wall-mounted, VESA (100*100)	

2. Product Model List

Model	Storage	CPU	LAN	COM	WIFI	Display	USB	Audio	System	Special Function	Dimension
S100	8G/16G/32G DDR4 1T/2T SSD	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Linux	1.Haiwell Web SCADA 2.Data visualization system 3. MQTT service 4. Data interconnection	165*48*125mm
S100 Pro	32G DDR4 2T SSD	Intel Core i5	2	3*RS232 1*RS485	1	VGA HDMI	2	Yes	Linux	1. Haiwell Web SCADA 2. Data visualization system 3. MQTT service 4. Data interconnection 5. Supports third-party database access	165*48*125

III. Product Description

1. Interface Diagram

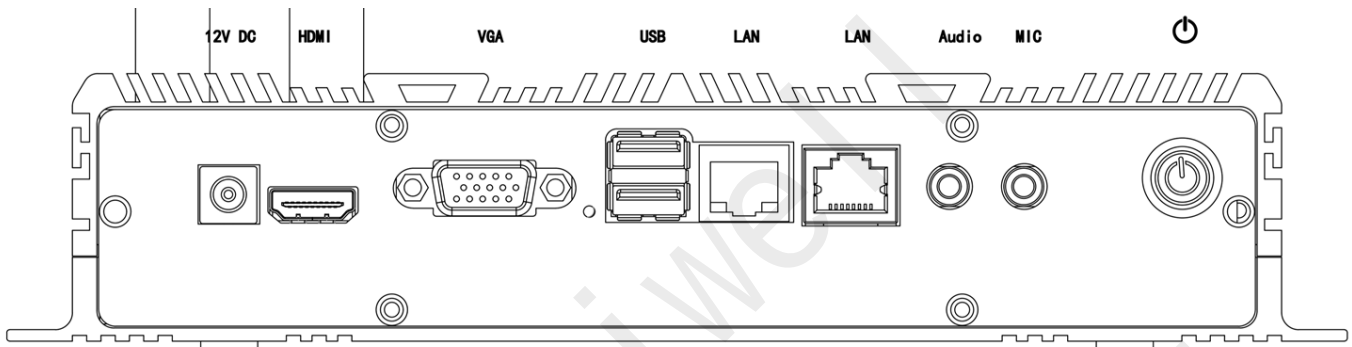


Figure1 General Interface of Intelligent Connection Server

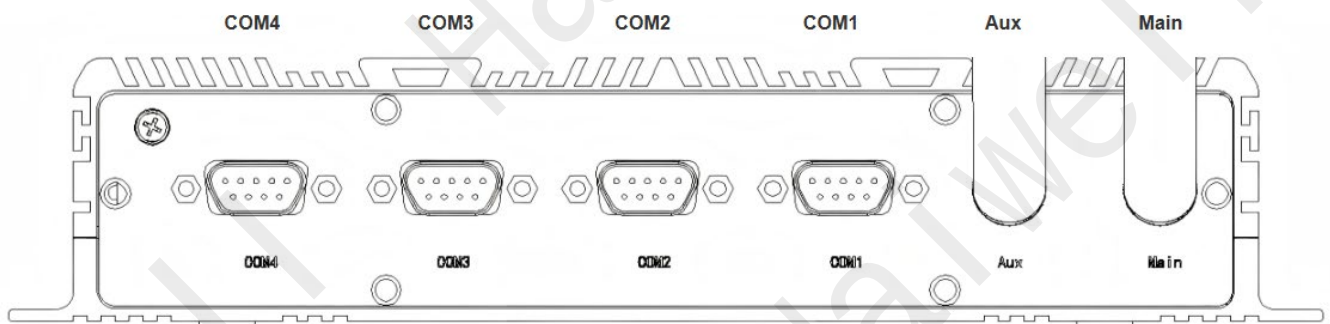


Figure2 General Interface of Intelligent Connection Server

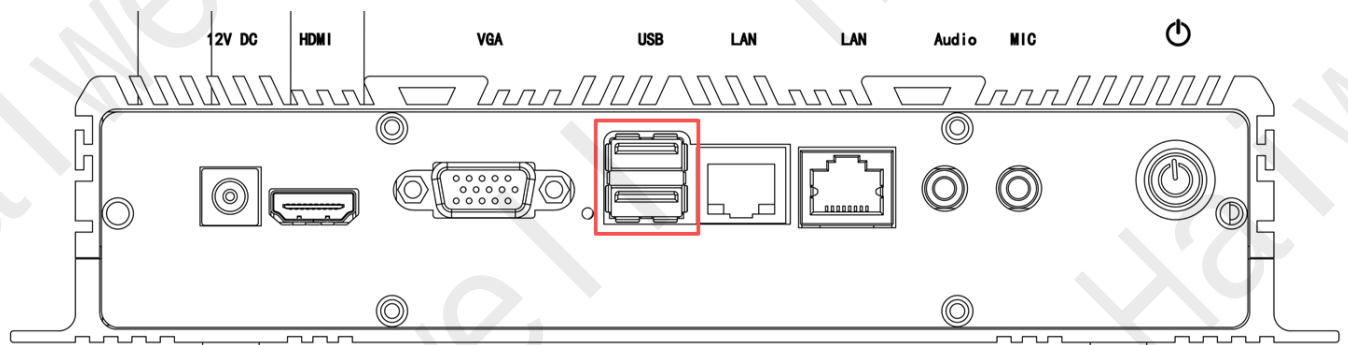


Figure3 External Mouse USB Interface

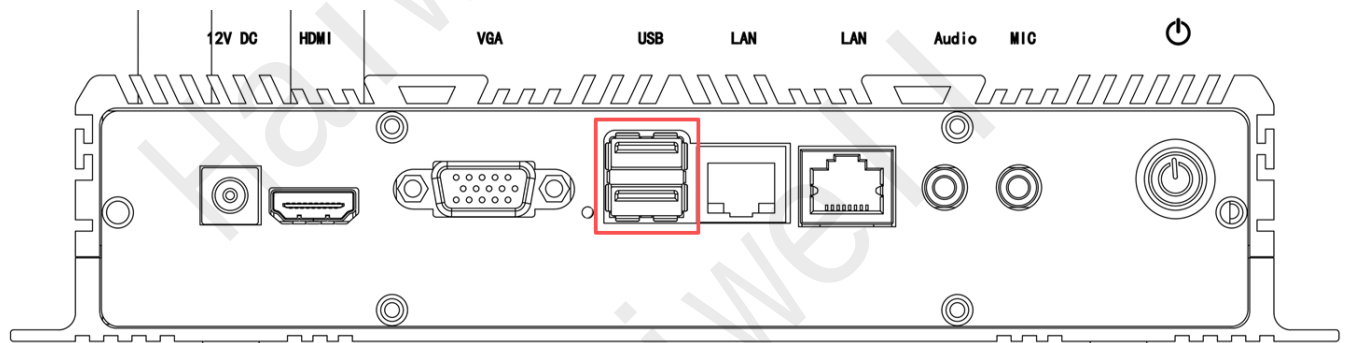


Figure4 External Keyboard USB Interface

IV. Introduction to Data Studio System

The intelligent server is based on HaiwellLink technology and is an integrated hardware and software device that combines local server and visualization presentation with deep integration of IT and OT. Its built-in core software, Data Studio System, can be started automatically upon boot and is equipped with a powerful web SCADA as well as core functions such as device management and monitoring management.

The intelligent server supports automatic acquisition of variable data from intelligent HMIs, intelligent gateways, intelligent IPCs, and intelligent PLC A8 within the local area network. It also interconnects with third-party databases, ERP systems, MES systems, and other platforms, enabling the creation of customized data visualization dashboards for various industries and supporting the viewing of real-time and historical data of device variables. Furthermore, the software supports user account creation and possesses a robust security system, comprehensively meeting the needs of device data management and visualization. Specific operations are as follows:

1. Boot

The intelligent server supports a variety of interfaces such as USB, HDMI & VGA. It requires a keyboard, mouse and monitor to use.  After connecting the corresponding peripherals, connect the power supply to the intelligent server to start it.

2. Initial Account Login

After powering on, you will be directed to the Data Studio System interface. You can log in using the **initial account: admin, password: 123456**. After successful login, you will be directed to the Data Studio System, which will default to the device list. It is recommended to go to System Config - User Management to change the initial account password.

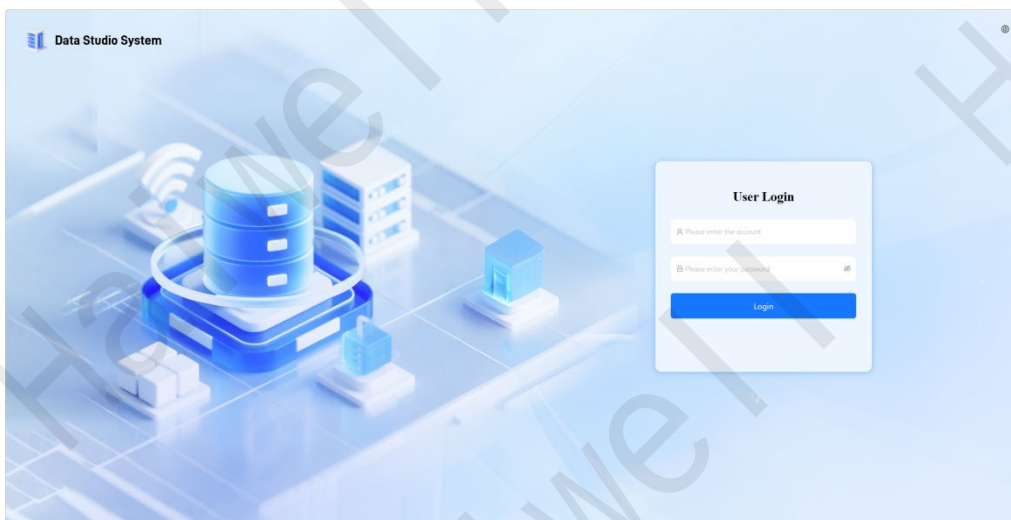


Figure5 User Login

3. System Overview

The System Overview module is the core first-screen overview module of Data Studio System. It is used to centrally display key system operation data and provide users with one-stop operation and

maintenance monitoring. After entering the system, users can quickly view key indicators such as the total number of devices, total alarms, number of projects, and online rate of intelligent devices. It also supports free combination of statistical cards, line charts, bar charts, pie charts, data tables, and other components to build a visual overview dashboard suitable for on-site operation and maintenance scenarios.

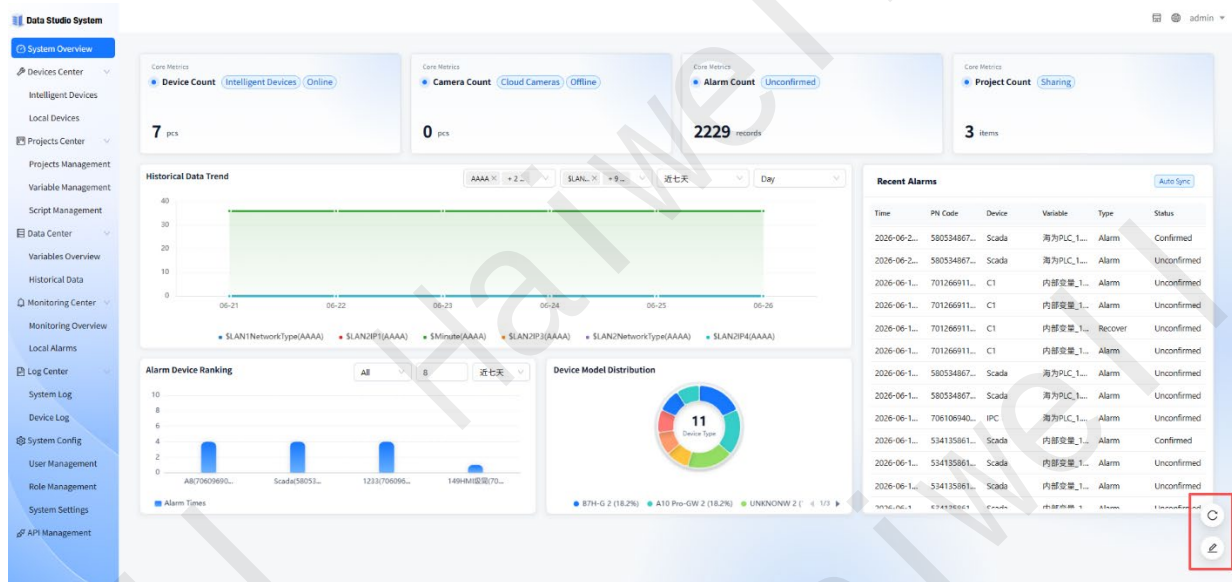


Figure6 System Overview

The overview supports editing. Users can add, copy, delete, drag and move components, and adjust component sizes. Manual refresh and scheduled component refresh are also provided to ensure real-time data updates. By centrally collecting scattered data such as devices, alarms, projects, and variables, this module effectively reduces the cost of querying across menus and improves operation and maintenance inspection efficiency. The module is flexible in configuration, easy to expand, and intuitive to operate. It also supports local layout fallback to reduce the risk of configuration loss and meet monitoring display requirements in different scenarios.

Notes:

- Due to performance and interface limitations, a single dashboard supports up to 50 components. Adding too many components will affect loading speed and readability.
- The System Overview is bound independently to user accounts. Each user in the system can customize a personal overview page, and overview views of different users are independent of each other.
- This module is mainly designed for desktop use. Dragging and scaling may be limited on mobile devices or narrow-screen scenarios.
- Component sizes are limited by preset ranges and cannot be scaled arbitrarily.
- After adjusting the layout in edit mode, click **【Save and Exit】**. Otherwise, unsaved content will be lost.
- Indicator filter conditions must match the system business data; otherwise, no data may be

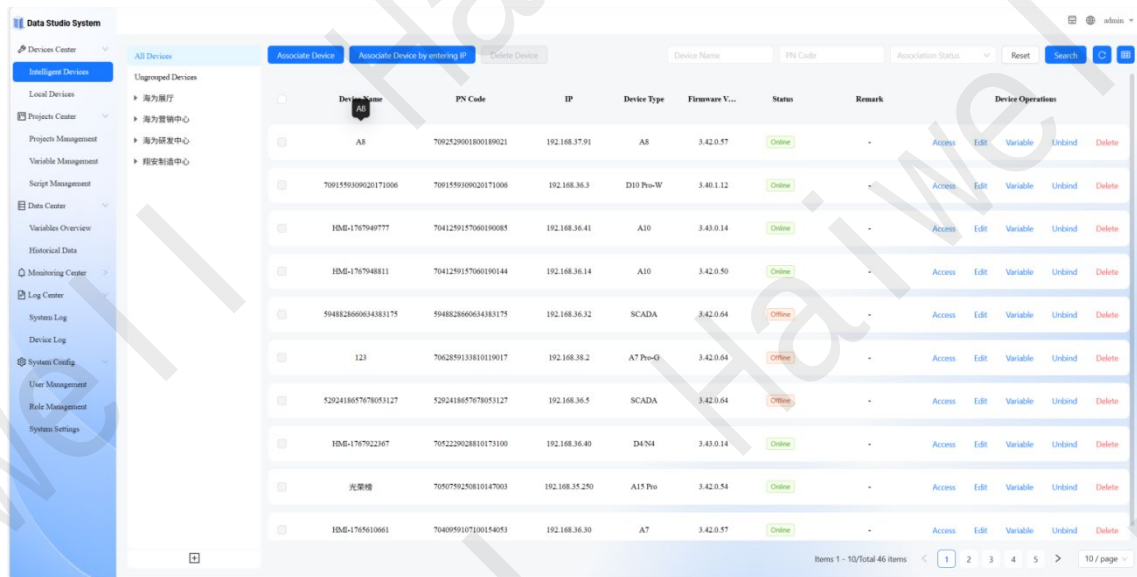
displayed.

- It is recommended to place high-frequency indicators near the front of the page and control the number of components when displaying on a large screen.
- Users without sufficient permissions cannot view the System Overview module.

4. Device Center

4.1 Intelligent Devices

Entering the Data Studio System, the system first displays a list of intelligent devices, supporting both list mode and card mode. Intelligent devices include locally associated devices and remote connected devices that report variables to the current S100. Users can manage associated devices by group and perform operations such as editing, unbinding, or deleting.



Device Name	PN Code	IP	Device Type	Firmware V...	Status	Remark	Device Operations
A8	7092420001800189021	192.168.3.7.01	A8	3.42.0.57	Online	-	Access Edit Variable Unbind Delete
7091550309020171006	7091550309020171006	192.168.36.3	D10 Pro-W	3.40.1.12	Online	-	Access Edit Variable Unbind Delete
IDM-1767949777	7041259157000180085	192.168.36.41	A10	3.43.0.14	Online	-	Access Edit Variable Unbind Delete
IDM-1767948811	7041259157000190144	192.168.36.14	A10	3.42.0.50	Online	-	Access Edit Variable Unbind Delete
59488260063483175	59488260063483175	192.168.36.32	SCADA	3.42.0.64	Offline	-	Access Edit Variable Unbind Delete
123	70628591338319017	192.168.38.2	A7 Pro-G	3.42.0.64	Offline	-	Access Edit Variable Unbind Delete
520241865767053127	520241865767053127	192.168.36.5	SCADA	3.42.0.64	Offline	-	Access Edit Variable Unbind Delete
IDM-1767922167	7052220202830173100	192.168.36.40	D47N4	3.43.0.14	Online	-	Access Edit Variable Unbind Delete
光栗槽	7050759250810147003	192.168.35.250	A15 Pro	3.42.0.54	Online	-	Access Edit Variable Unbind Delete
IDM-1765610661	70400959107100154053	192.168.36.30	A7	3.42.0.57	Online	-	Access Edit Variable Unbind Delete

Figure7 List Mode

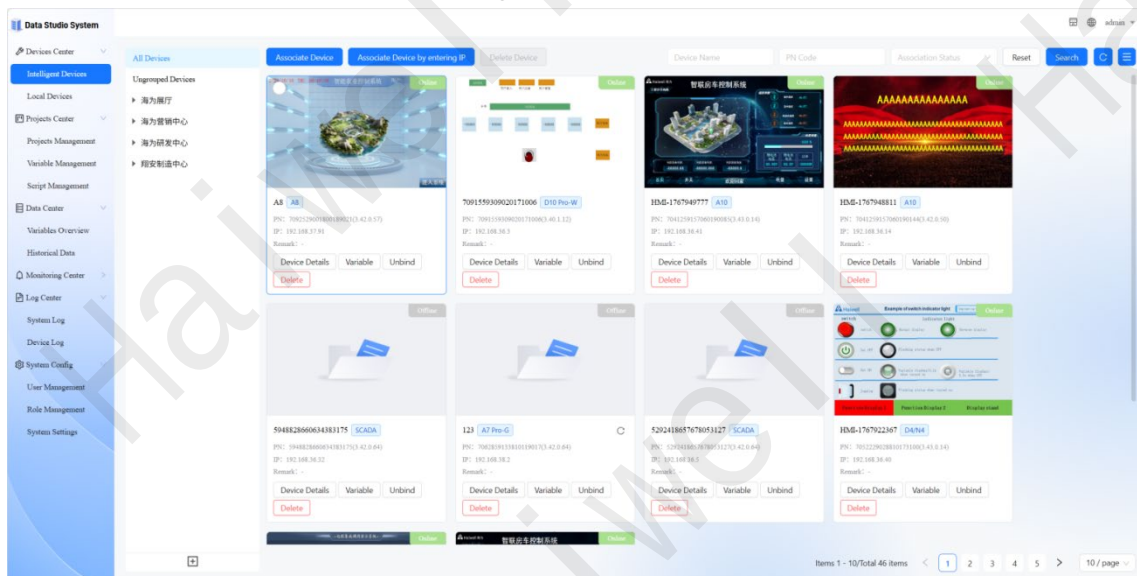


Figure8 Card Mode

(1) Local Devices

The S series intelligent server support automatic searching for intelligent devices within the local area network, including HMI, BOX, A8, IPC (Linux system), etc. Users can directly select the devices to be synchronized without modifying the devices project. The system will automatically obtain all variables for the device, as detailed below:

① Associate Devices

Click the **【Associate Devices】** button to enter the associate device interface, which will display all intelligent devices in the local area network. Select the desired device and click **【OK】**. Follow the on-screen prompts to enter the synchronization variable interface.

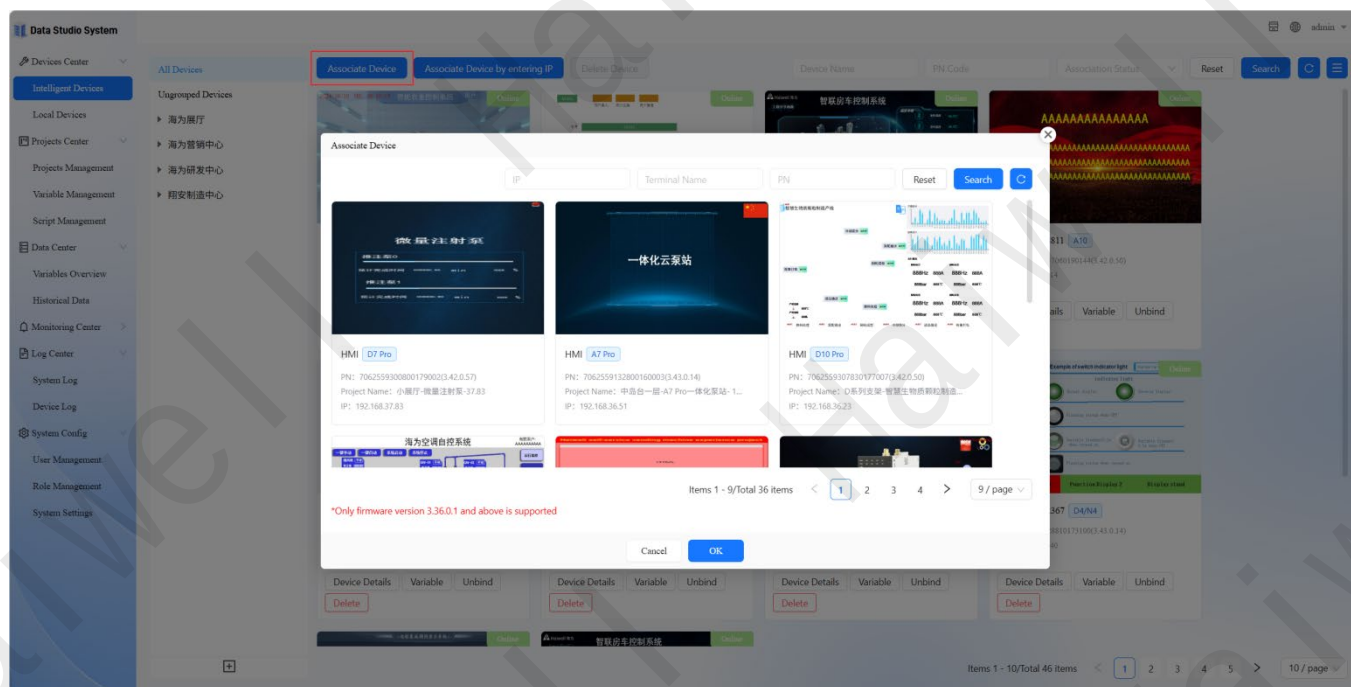


Figure9 Associate Devices

② Synchronization Variables

After entering the synchronization variable interface, users can select the required variable as needed. If there are many variables, the number of variables displayed on the interface can be set, up to a maximum of 1000 per page; users can also quickly filter by entering variable name keywords.

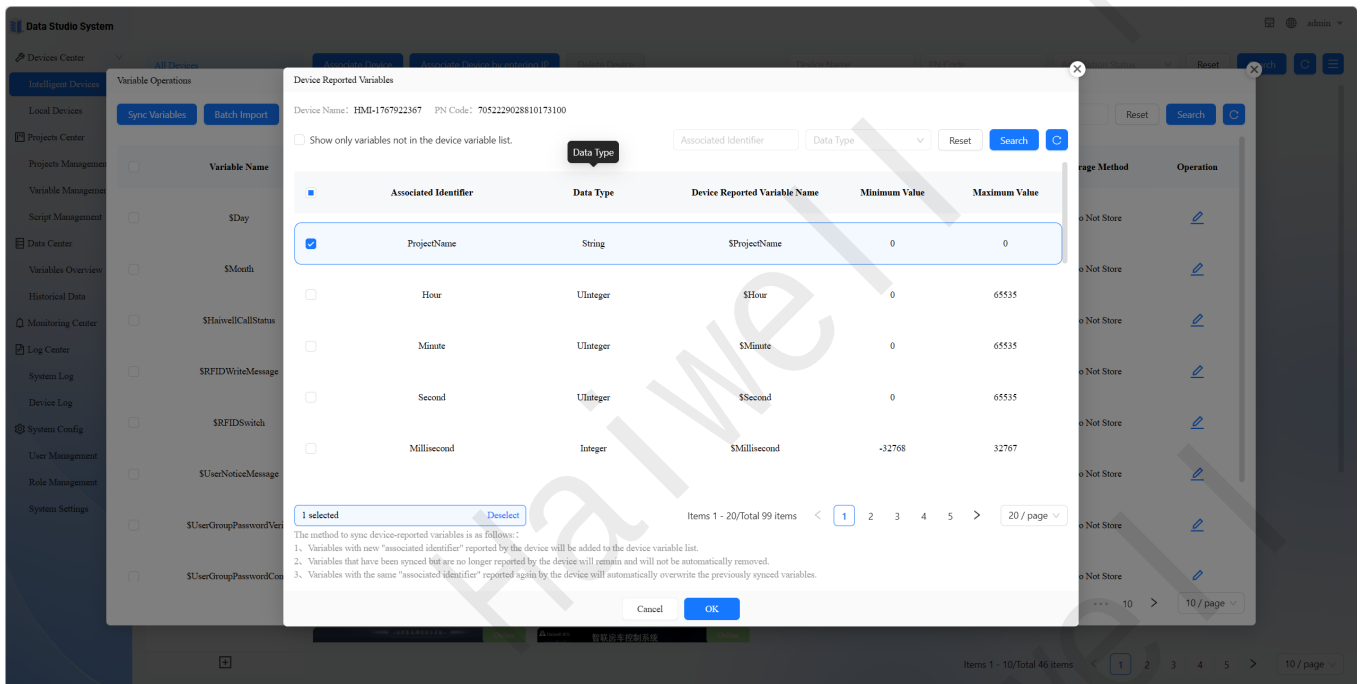


Figure10 Synchronization Variables

③ Variable Details Management

After completing variable synchronization, if you need to save historical variable, you can click the **【Operation】** button in the device list to enter the storage rule configuration interface, which supports setting various storage settings such as change storage, interval storage, and report storage.

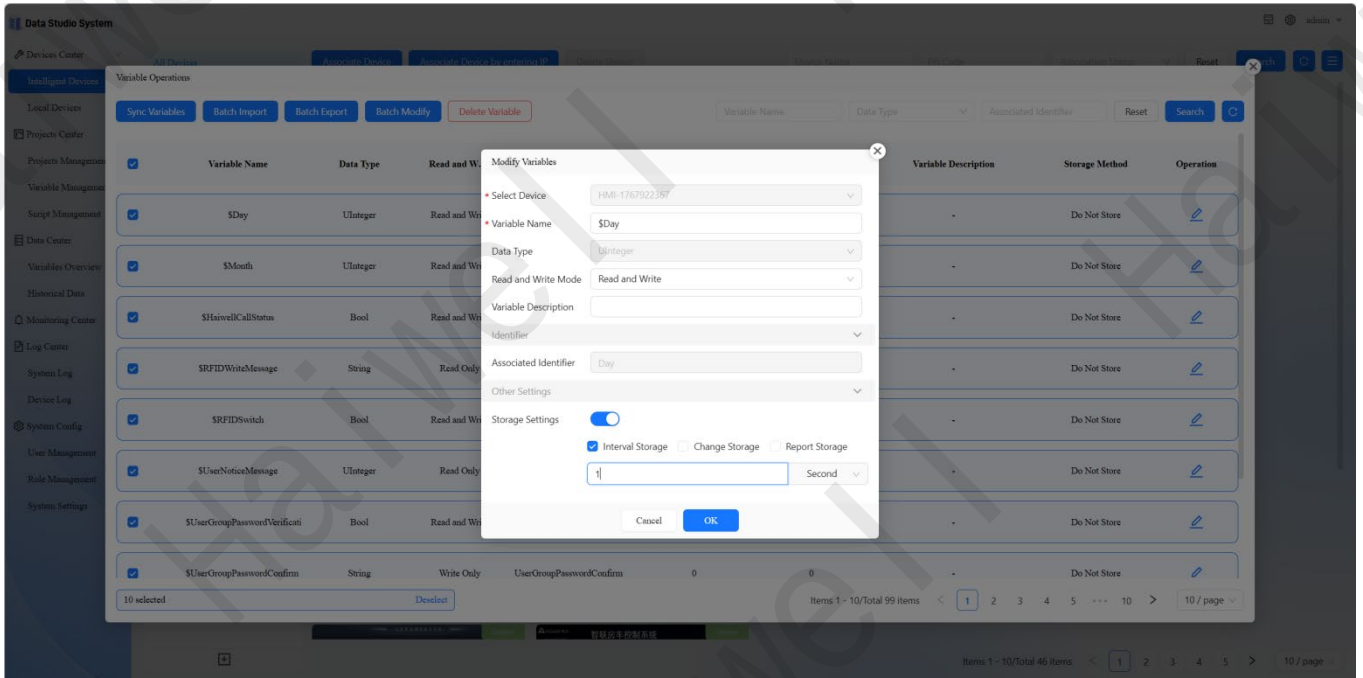


Figure11 Batch Modification Variables

Storage Rule Description:

1. Change storage: When the value of a variable changes, the latest variable value is stored immediately;
2. Interval storage: Store the current variable value when the preset time interval is reached;

3. Report storage: When data changes on the device and is reported to the S100, the current variable value is stored synchronously.

Note: S series servers currently only support storing historical values of 5,000 device variables simultaneously. Please note that while there is no limit to the total number of variables that can be synchronized on a single device, to ensure the proper functioning of historical data storage, please plan and manage the number of variables you need to store appropriately.

④ Synchronization Variables

If you need to re-associate other variables of the device, click the **【Sync Variables】** button to bring up a list of variables in the device. Users can then select the variables to synchronize according to their needs.

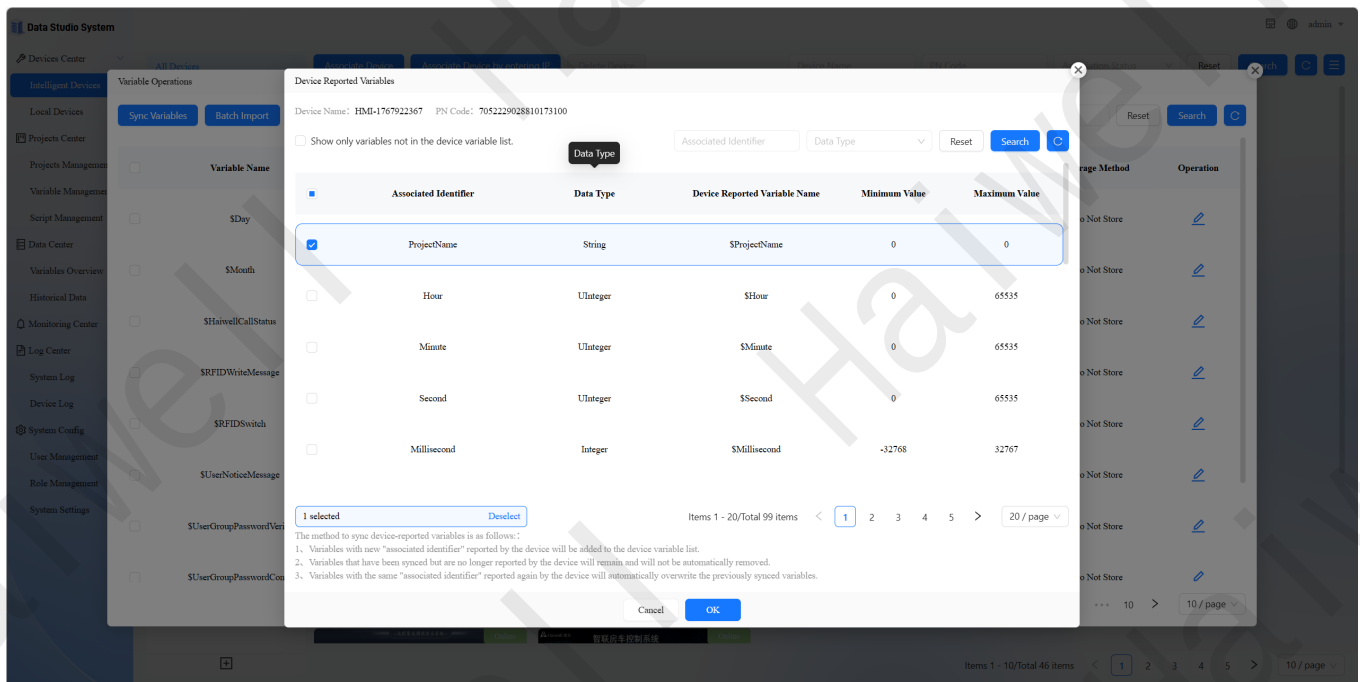


Figure12 Synchronization Variables

⑤ Variable Information Editing

Clicking the edit icon  allows you to modify variable information, including variable name, read/write mode, variable description, and storage settings.

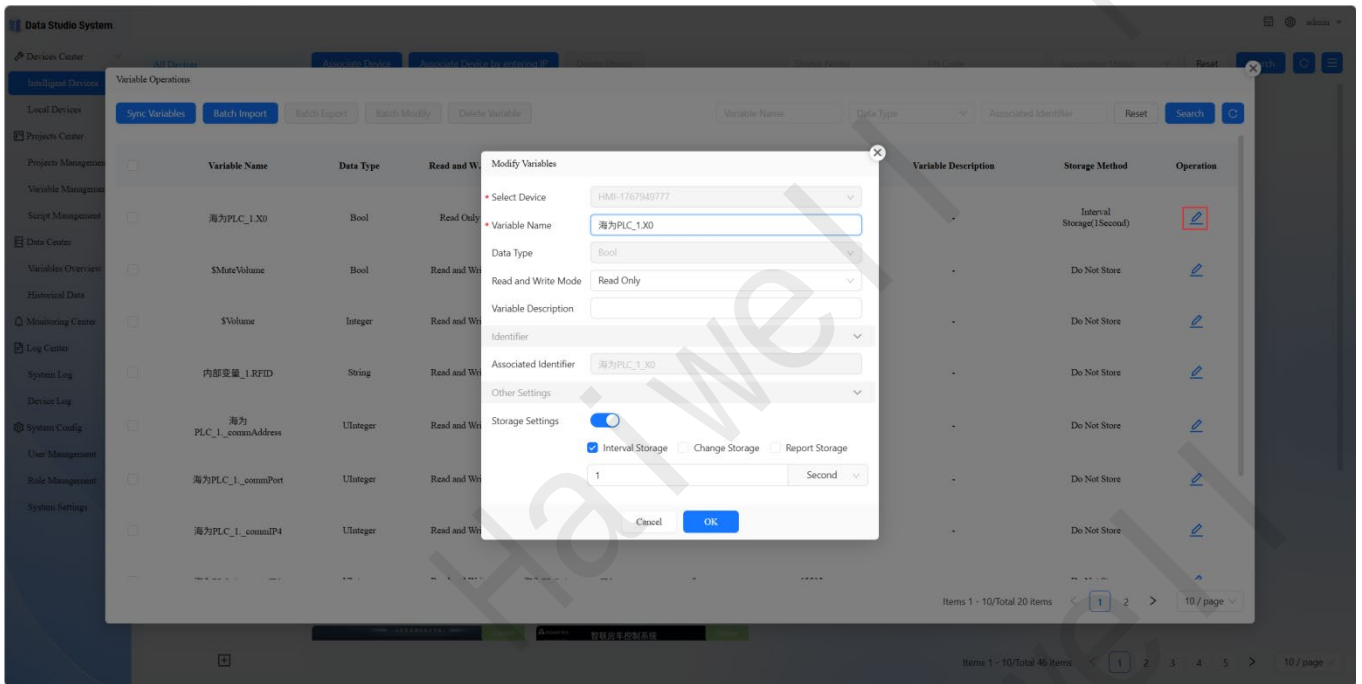


Figure13 Variable Information Editing

⑥ Unbinding Associated Devices

Click the **【Unbind】** button will remove the device from the association. When unbinding, users can choose whether to clear the reported variables of this device that have been synchronized at the same time, depending on their needs.

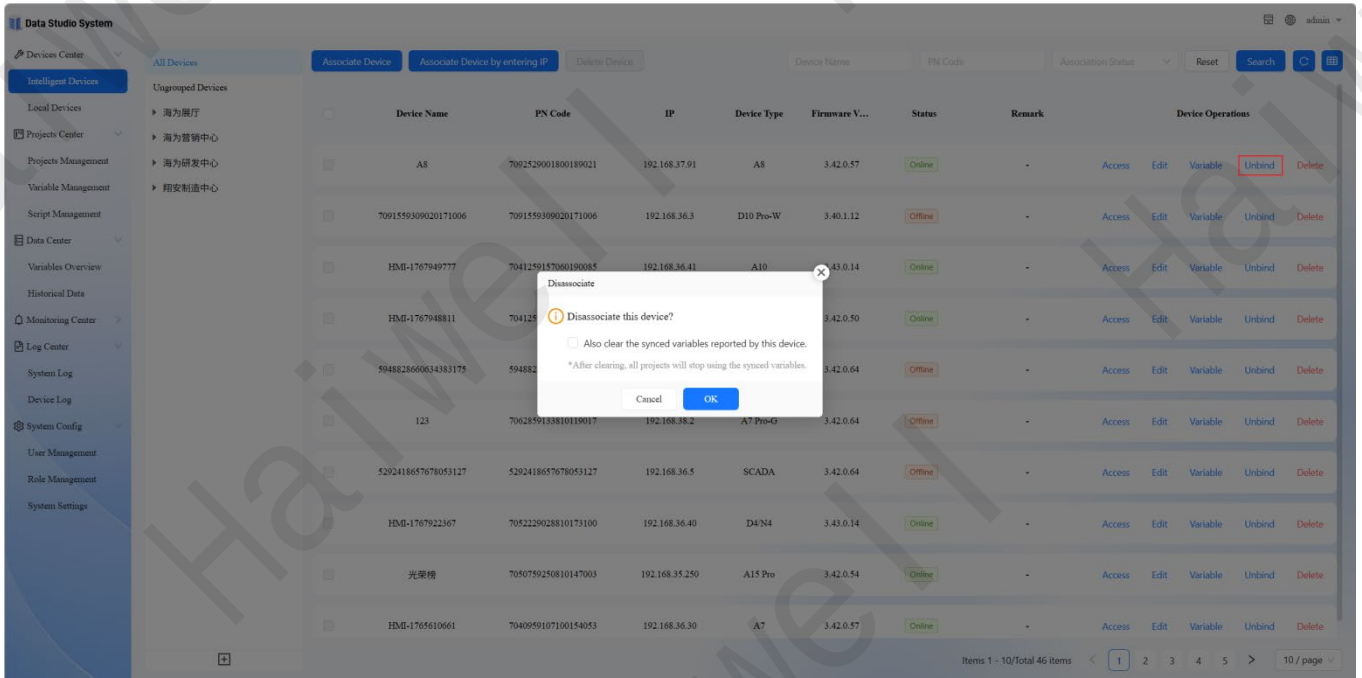


Figure14 Unbinding Associated Devices

⑦ Deletion of Associated Intelligent Devices

After unbinding the device, you can click the **【Delete】** button to remove the device from the intelligent device list. See the image below:

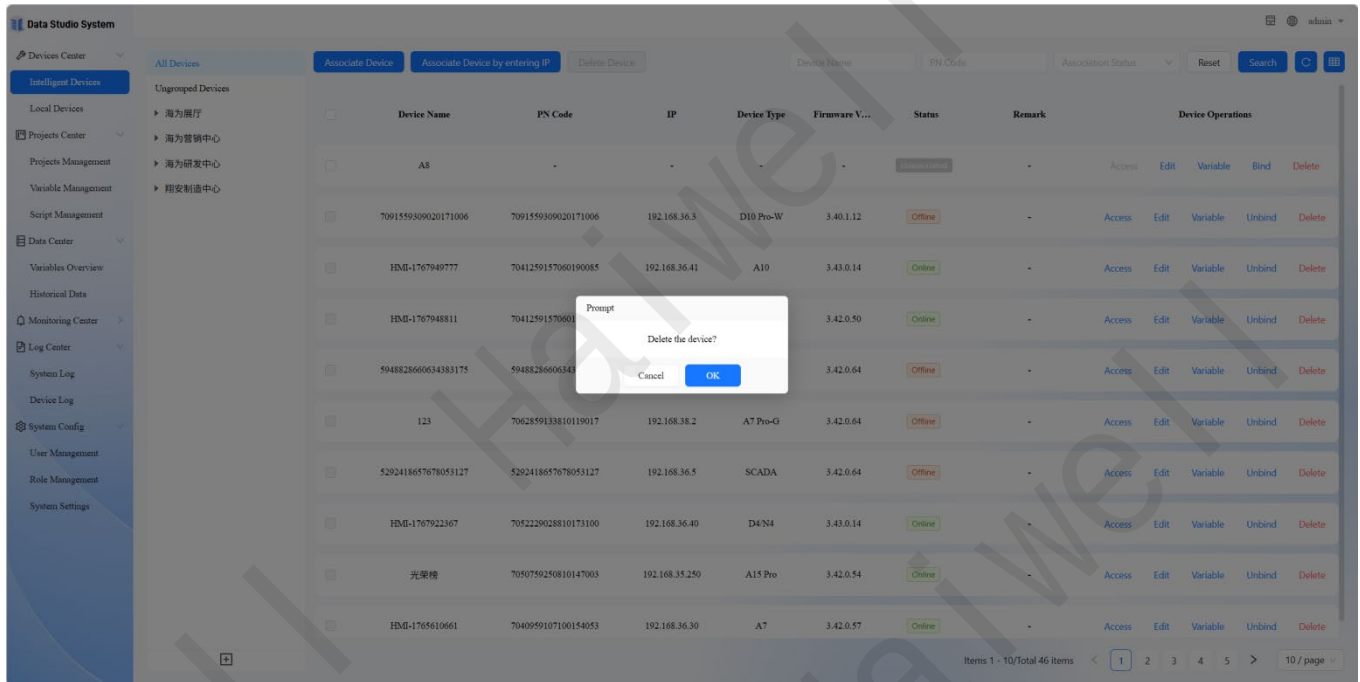


Figure15 Delete Associated Devices

⑧ Manually Configure Variables

In addition to automatic acquisition by S100, if there are many device variables in the intelligent product or multiple devices have the same project configuration or variable reporting requirements, the variable reporting method based on project configuration can be used, saving the need to manually associate devices and select variables. The specific operation is as follows:

Step 1: Scope Configuration Setup

In the SCADA software, under the **【Project Browser】** - **【Cloud Platform Data Monitoring】** section on the left, check the **【Local Large Screen】** and click the **【IP Range】** button to enter the **【IP Settings】**. Click **+** the button to configure the IP address of the intelligent server that needs to push variables. Both fixed IP and dynamic IP are supported.

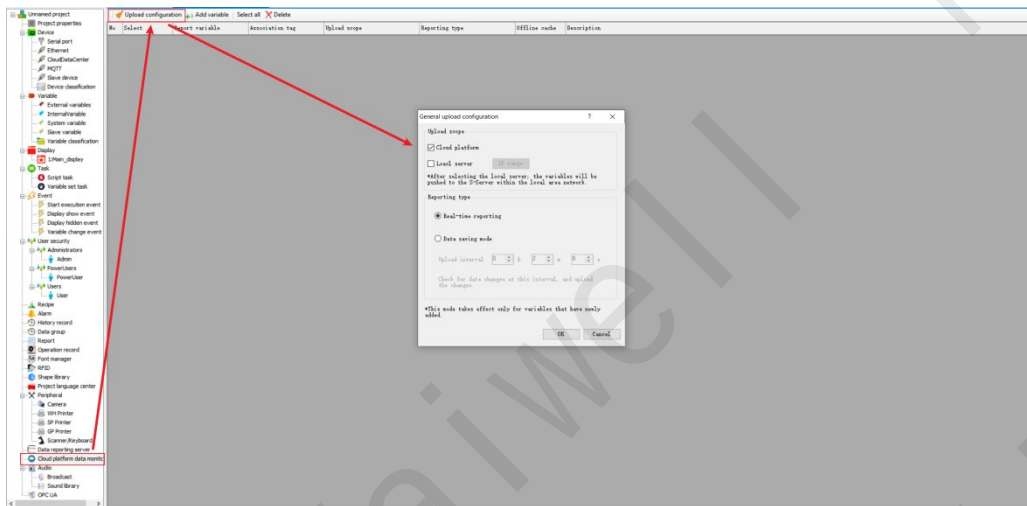


Figure16 General Reporting Configuration

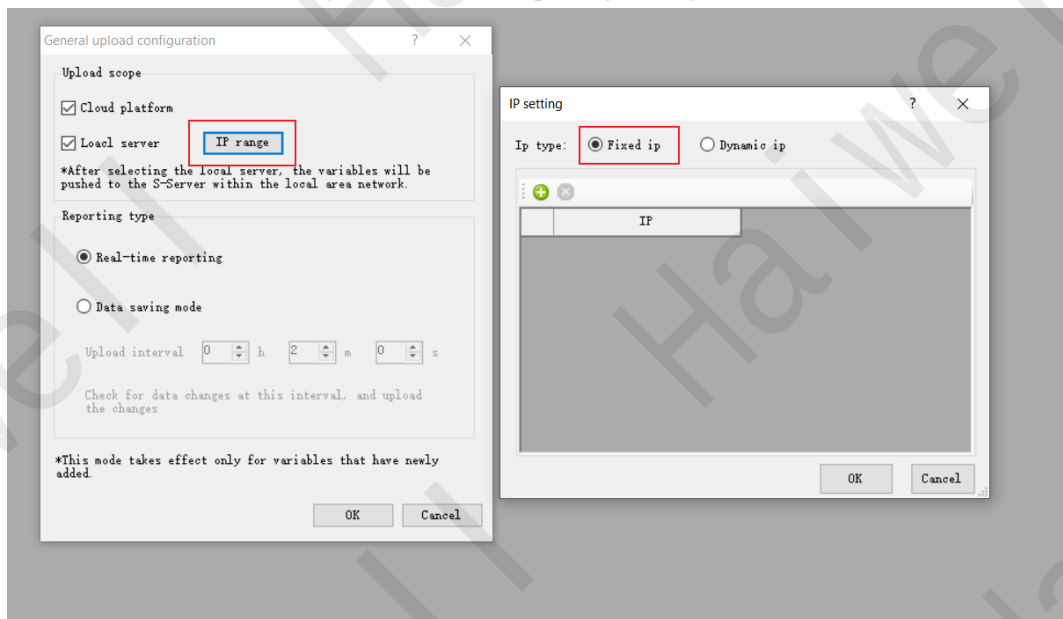


Figure17 Fixed IP Configuration

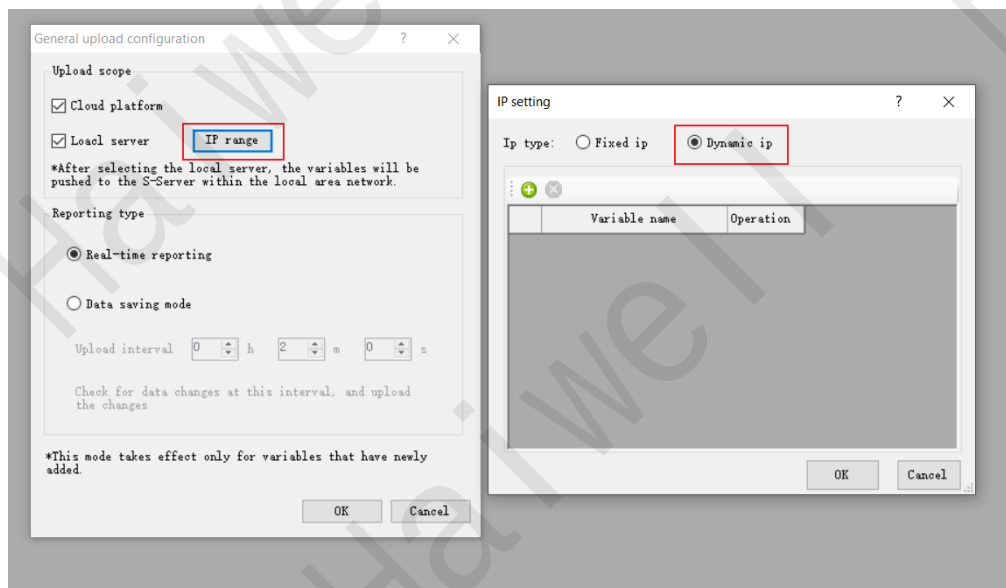


Figure18 Dynamic IP Configuration

Step 2: Configure the Reporting Method

Supports both real-time reporting and data-saving modes.

- Real-time reporting: Report variable information whenever variable 1 changes.
- Data saving mode: Checks for data changes according to the configured reporting time interval, and reports variable information if changes occur.

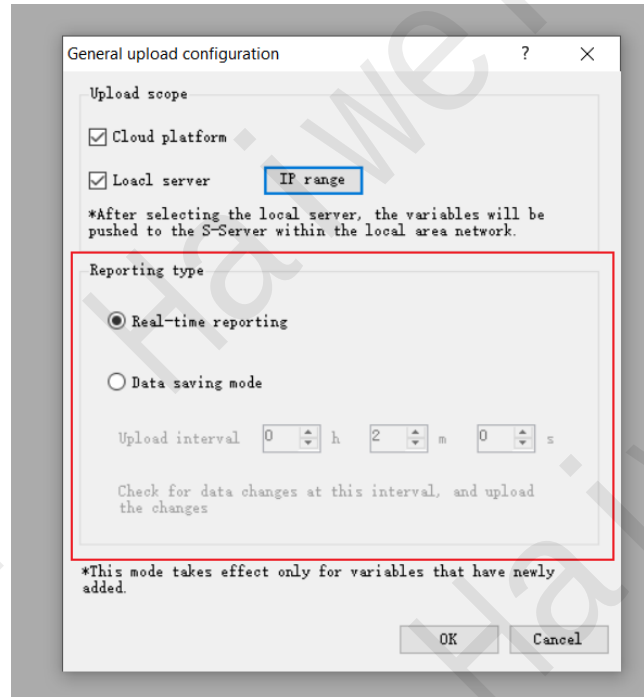


Figure19 Reporting Method Configuration

Step 3: Add Reporting Variables

Click **【Add Variable】** button, select the variable you want to report, and then click **【Confirm】**.

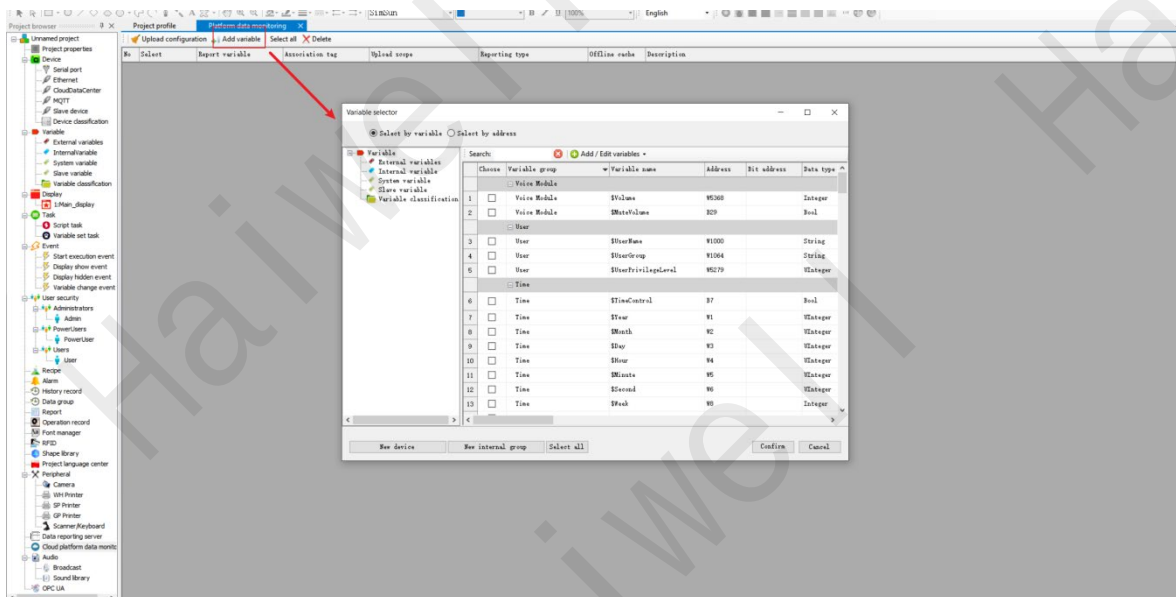


Figure20 Adding Reporting Variables

After adding a variable, if you need to modify the reporting configuration of the variable, select the variable you want to modify, click **【Upload Configuration】**, and you can make the changes. Batch

modification of variables is supported.

Step 4: Download the project to the device

After the reported variables are configured, use the configuration/device management tool to update the project to the device. The device will automatically report the relevant variables when it is powered on.

Note: SCADA version 3.42.0.0 or higher is required.

4.2 Local Devices

This displays all the intelligent HMI, BOX, A8, IPC (Linux version), TVBOX and other devices in the local area network where this intelligent server is located, and you can access the device project by clicking on the project screen thumbnail.

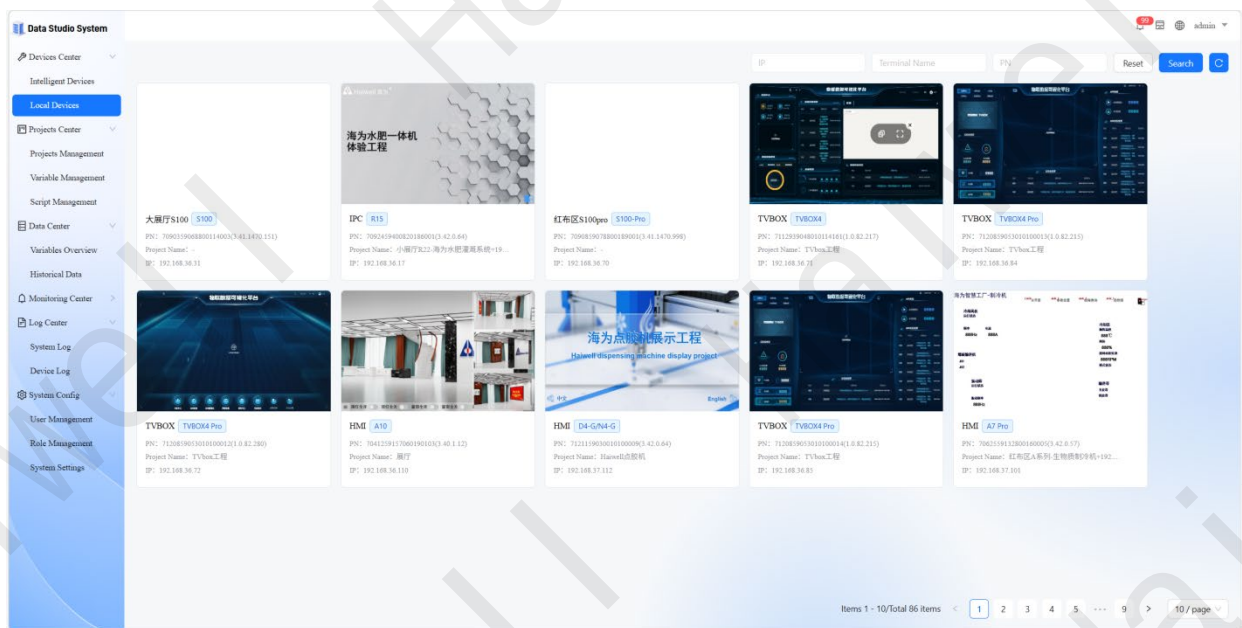


Figure21 Local Devices

5. Project Center

The project center is a collection of visual projects, variables, and scripts that can be used to configure associated devices for reported variables within the Data Studio System. It supports users in designing, sharing, and editing projects. Simultaneously, the project center allows for the management of variables and scripts required for project design.

5.1 Project Management

This page displays existing project information, supporting both list and card layouts. Users can create new projects and design, copy, delete, share, and edit information on existing projects.

Project ID	Project Name	Sharing Status	Allow Access	Access Project	Design Project	Variable Reference Table	Basic Operations
5467	11	Not Shared	Displaying				
5466	111	Not Shared	Displaying				
5465	111	Not Shared	Displaying				
5464	111	Not Shared	Displaying				
5463	test	Sharing	Displaying				
5461	测试	Not Shared	Displaying				
5460	1	Not Shared	Displaying				
5459	11	Not Shared	Displaying				
5458	a	Not Shared	Displaying				
5457	a	Not Shared	Displaying				

Figure22 Project List

(1) New Project

The project design provides a wealth of component and templates, allowing users to quickly build professional, beautiful, and cool data dashboards through simple component drag-and-drop, theme painting, and variable binding interactions.

① Project Creation

Click the **【New Project】** button, enter the corresponding project name, the page type to be enabled, and whether to enable access, and select the corresponding module. Currently, the intelligent server has a built-in visual dashboard template.

New Project

Project Name:

Description:

Project Author:

Enable Page Type: ☒ PC ☒ Mobile

Access Enabled: ☐

Access Password:

Cancel Next

Figure23 New Project

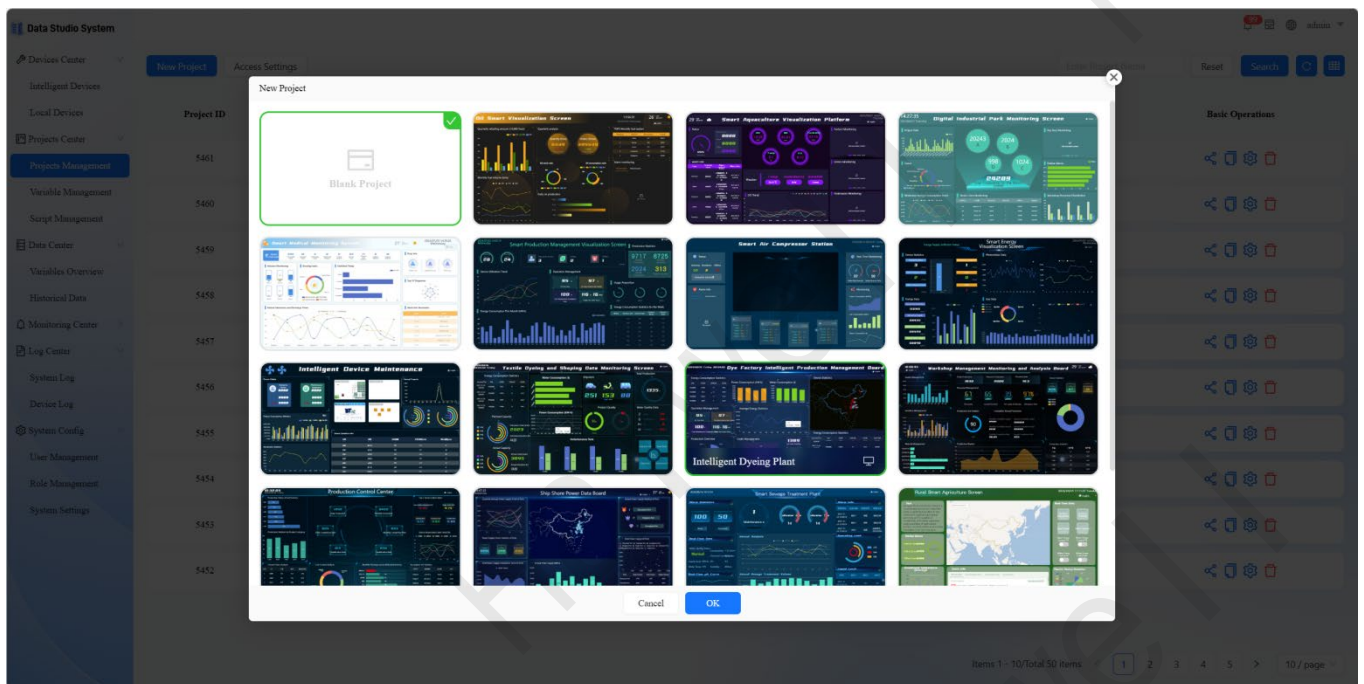


Figure24 Project Template Selection

② Project Design

After creating the project, you can directly enter the project editing interface by following the prompts.

You can also click  the button to edit the old project. For detailed operation procedures, please see: [Web SCADA Introduction | Haiwell College](#).

To cover the overall digital solution, this release also introduces unique functional controls for the S100, with specific component described below:

1) List of Images and Text

The component list is an information display component in the functional controls. It can quickly present various information such as devices, projects, and cameras. It supports direct use of built-in quick data sources and also supports custom data source configuration for personalized content. It also has extended capabilities such as click-to-jump and pagination display, adapting to information display scenarios of various monitoring/management interfaces.

Core Functions:

It has multiple built-in quick data sources, allowing you to quickly generate lists simply by dragging and dropping (no need to manually configure basic data).

Supports custom data sources, allowing you to display exclusive content on demand;

Supports clicking on a list item to jump to a new interface (parameters can be configured);

Supports paginated display and is suitable for split-screen presentation of large amounts of data.

Operating Steps:

Type 1: Displaying Content From a Custom Data Source

Step 1: Drag the component directly onto the canvas. On the right-hand **【Basic】** tab, select the data source you configured. For instructions on configuring the data source, please see: [Data Source | Haiwell College](#) ;

Step 2: After selecting the data source, configure parameters such as Content Type and Value Type to match the data to be displayed;

Step 3: If you need to configure a jump event, switch to the **【Click Event】** tab, select the target interface to jump to, and configure whether to pass parameters as needed. You only need to configure the parameter name and parameter field to achieve data transfer during the jump.

Step 4: If you need to configure pagination rules, you can switch to the **【Pagination】** tab to configure the default number displayed per page and the style of pagination buttons, etc., to adapt to the interface display requirements.

Type 2: Displaying shortcut list data source content

The quick list data uses a built-in data source by default. Drag and drop to load the corresponding content. The types involved are as follows:

Local Device List: Displays information on all intelligent devices within the local area network where the intelligent server is located;

Local Camera List: Displays information on all cameras within the local area network where the intelligent server is located (only cameras that support RTSP and ONVIF protocols can be searched).

Personal Device List: Displays personal device information under the current user's name;

Enterprise Device List: Displays device information under the currently selected enterprise;

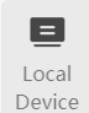
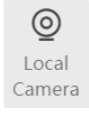
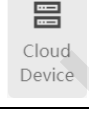
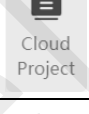
Maintenance Device List: Displays maintenance device information under the currently selected company;

Enterprise Project List: Displays information on projects owned by the company.

Maintenance Project List: Displays maintenance project information for the currently selected company.

To redirect to the corresponding project interface/camera interface based on the information displayed in the component list, it needs to be used in conjunction with displaying component. Select "Jump to the target page where the corresponding display component is located" to complete the jump association. The specific association and operation are as follows:

Table 1 List of Images and Text Pairings

Image and text list type	Component	Display component styles
Local device list	Local device	
Local camera list	Local camera	
List of personal/business/maintenance device	Cloud device	
Enterprise/Maintenance Project List	Cloud project	

2) Super Component

Eight categories of content: local devices, cameras, cloud devices, cloud projects, multi media, cloud maps, screens, and web addresses. It encapsulates the unique features of TVBOX in a graphic format for easy user access. Configuration is simple; it only requires associating with a string variable to store the currently associated content information, allowing the device to automatically remember and load the previously associated configuration upon startup. It also offers various customizable configuration options, enabling highly personalized multi-content display layouts such as 4 -screen, 6 -screen, and 9 -screen displays.

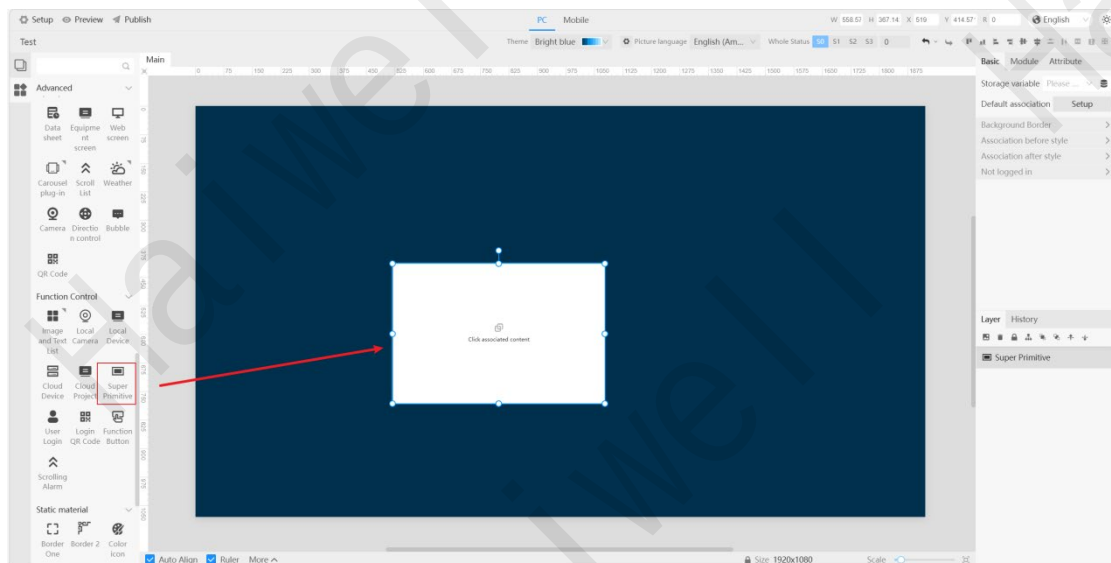


Figure25 Super Component

3) User Login/Login QR Code

When building digital solutions, to view information related to remote devices, cloud projects, etc.,

users must first log in to their Haiwell Cloud account and obtain the corresponding permissions before they can retrieve the required data. Based on this requirement, we have encapsulated the Haiwell Cloud login function as an independent component. This component supports login via QR code. After logging in, users can simultaneously access various information under their Haiwell Cloud account, providing effective support for displaying data such as personal devices, enterprise devices, maintenance devices, enterprise projects, and maintenance projects in component lists.

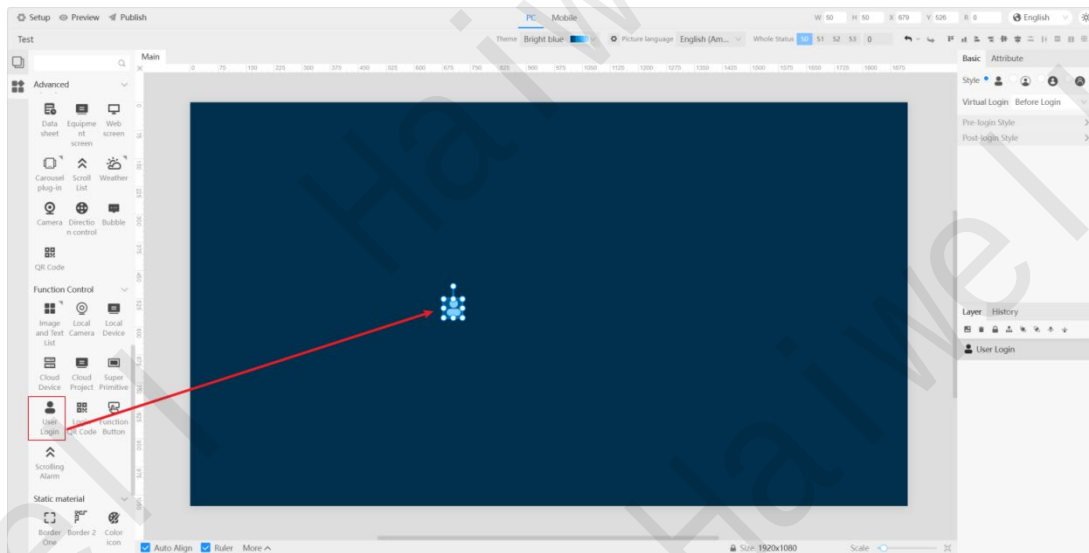


Figure26 User Login

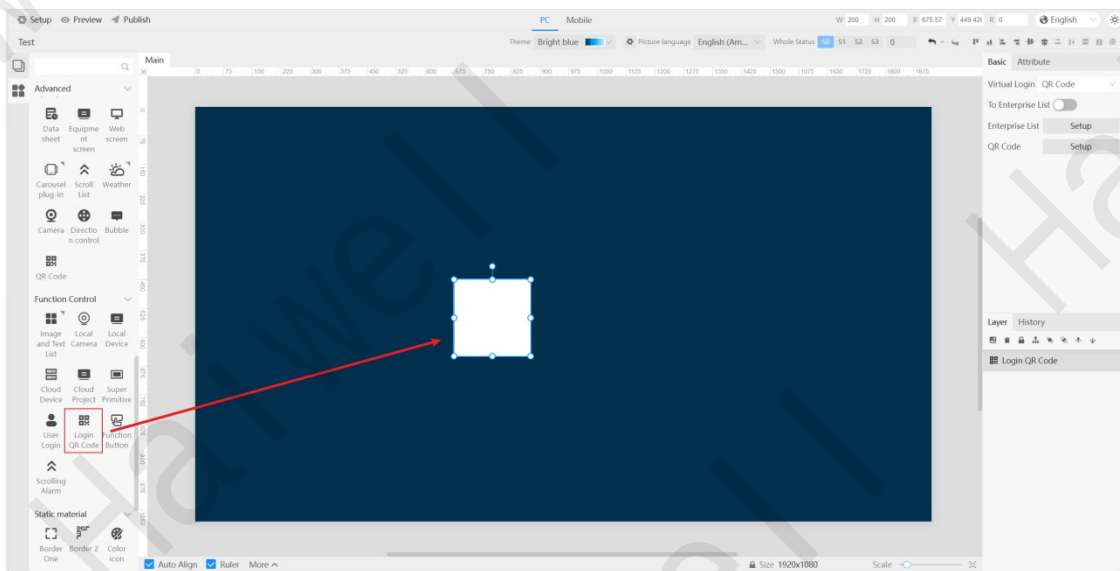


Figure27 Login QR Code

4) Function Button

The function button component encapsulate two core functions: USB flash drive firmware update and one-click login to the Haiwell Cloud account via the APP. This graphical representation of the original operation process improves ease of use. The specific functional logic is as follows:

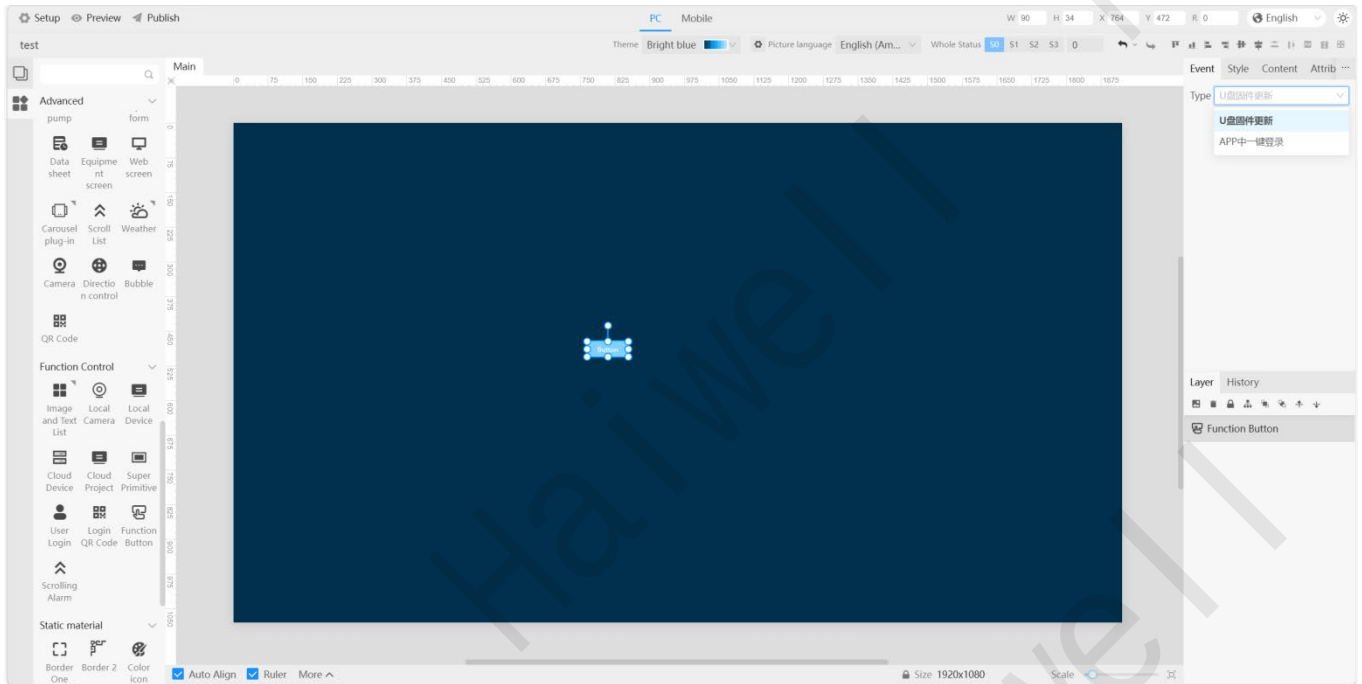


Figure28 Function Button

(1) USB Flash Drive Firmware Update

When the function button component type is selected as **【USB flash drive firmware update】**, clicking this component in the project will trigger the firmware update operation of the S100 device. During the update process, it supports uploading IOT format files from three sources to the S100: ① USB flash drive directly connected to the S100 device, ② PC accessing the S100, ③ HaiwellLink APP accessing the S100;

Once the corresponding file is selected, the S100 firmware update can be completed without complicated operations, greatly simplifying the S100 firmware update process.

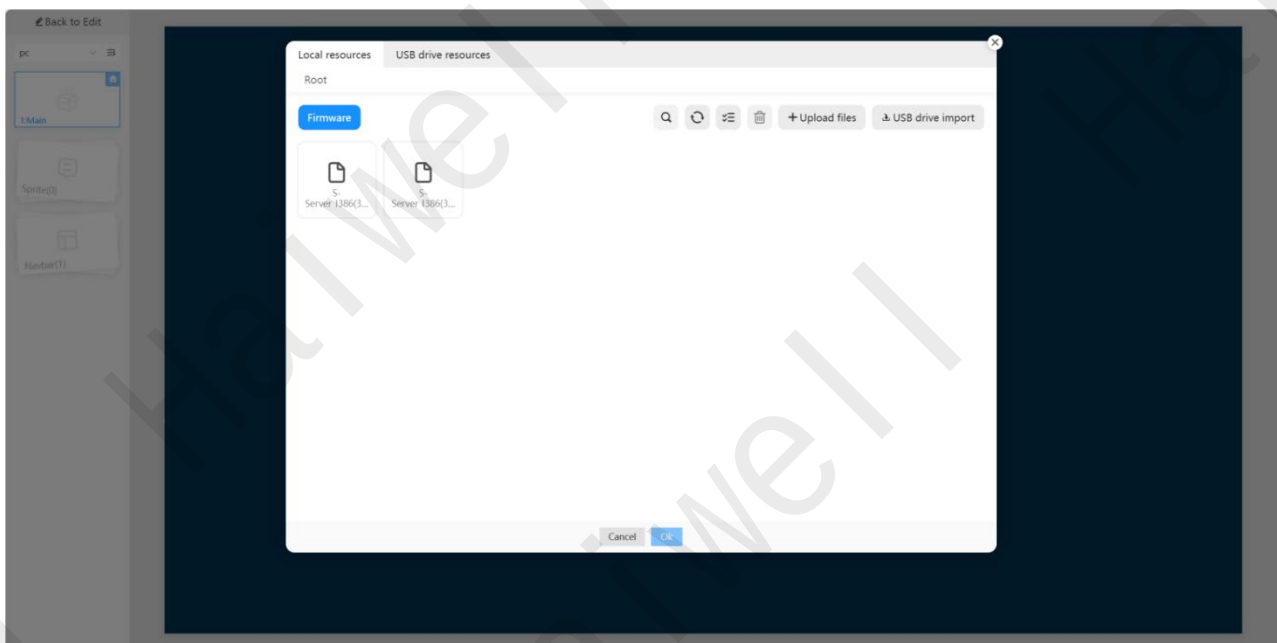


Figure29 USB Flash Drive Firmware Update

(2) One-click Login in the APP

Addressing the pain point of not being able to log in to the Haiwell Cloud account via QR code when

accessing the S100 visualization project on the APP or mini-program, this function button provides a convenient one-click login solution. When users access the project on the mini-program or APP, clicking this component allows them to quickly log in to their Haiwell Cloud account with one click, simultaneously obtaining relevant account permissions and information, providing effective support for subsequently pulling various types of data such as personal devices and enterprise projects.

5) Scrolling Alarm

In the process of building digital solutions, alarm information from both on-site and remote devices is of critical reference value. By using a scrolling alarm graph, alarm information generated by devices within the local area network and remote devices can be centrally displayed in a scrolling list format, as detailed below:

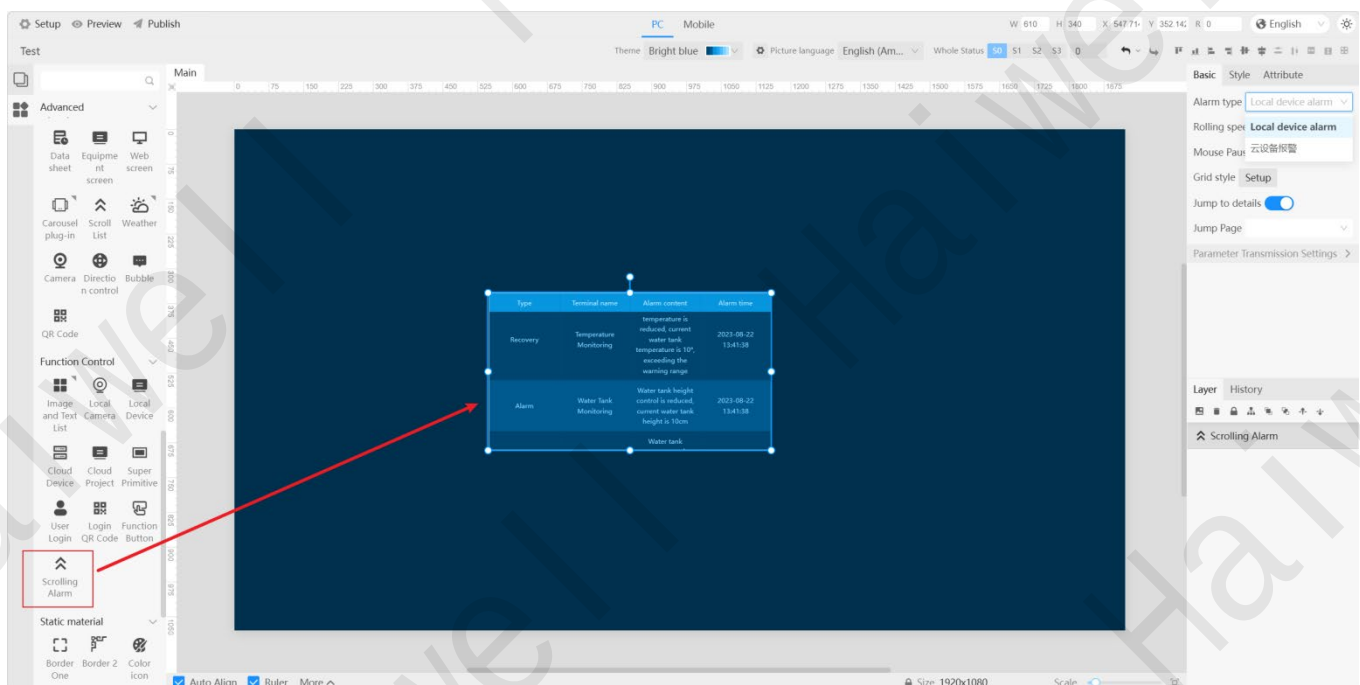


Figure30 Scrolling Alarm

(1) Local Device Alarm

After the local device reports an alarm message to the S100, the S100 can synchronously display the alarm message in the local device's alarm list via a scrolling alarm. This function needs to be configured on the SCADA, and the specific steps are as follows:

Step 1: Obtain the S100 IP Address

The S100's IP address can be viewed in the **【S100】 - 【System Configuration】 - 【System Settings】 - 【Network Settings】**, and the IP address can also be modified in this interface, as shown below:

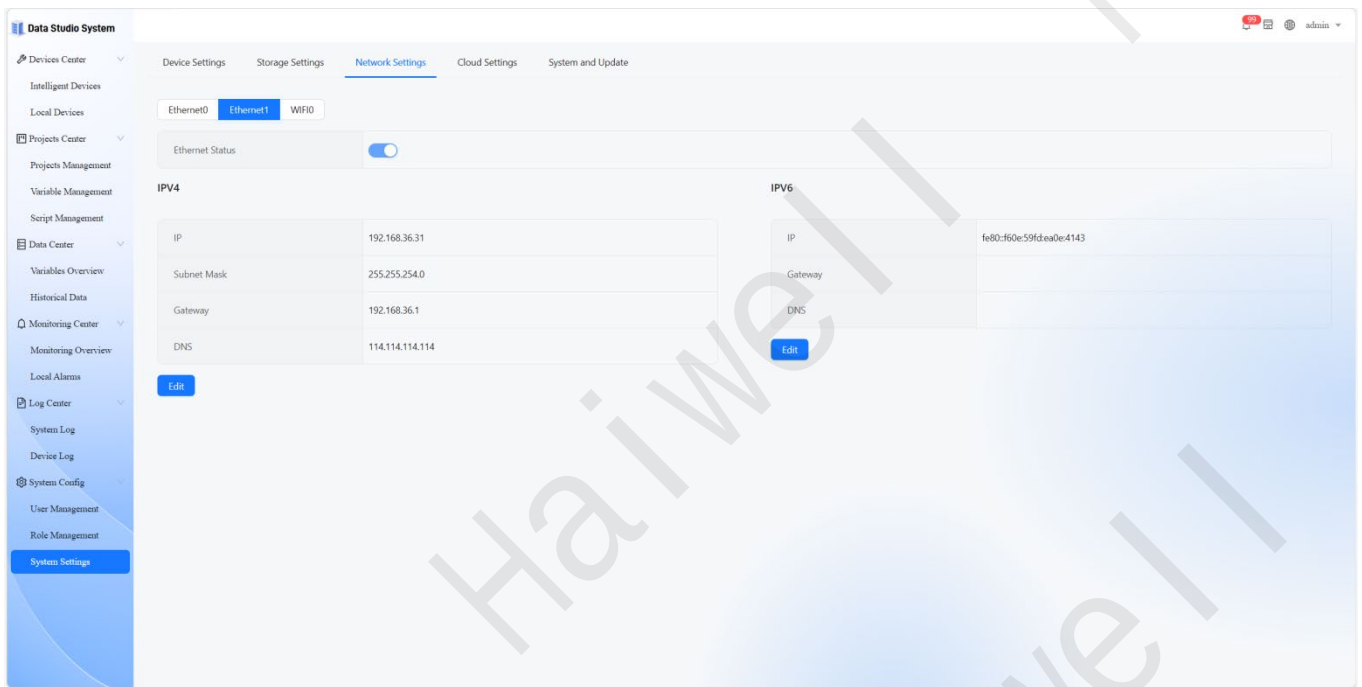


Figure31 Network Configuration

Step 2: Configure SCADA System for Alarm Push

After obtaining the S100 IP address, you need to complete the relevant parameter configuration for alarm information reporting in the **【Alarm】 - 【Alarm Configuration】 - 【Alarm Push】 - 【LAN Push】** on the SCADA. The corresponding interface is as follows:

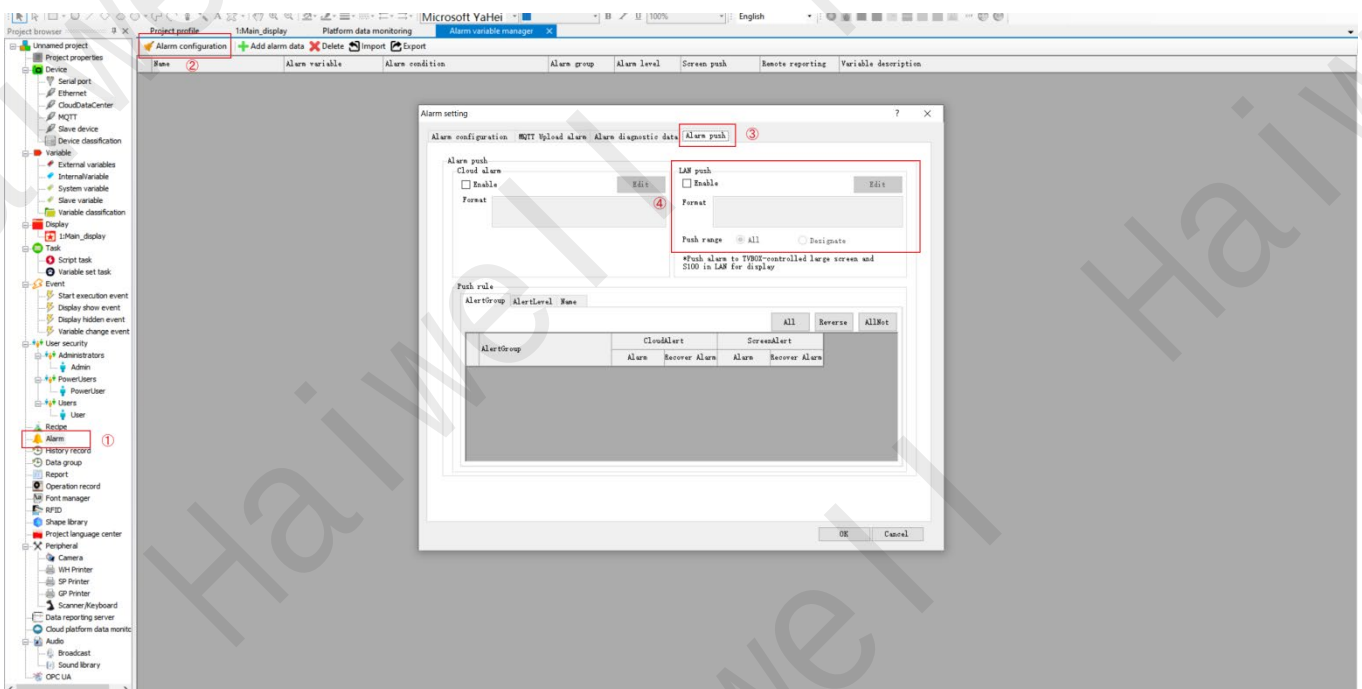


Figure32 Alarm Push

Step 3: Download the Project to the Device

After the configured SCADA project is downloaded to the device, the S100 can receive and synchronize the alarm information in real time when the local device generates an alarm.

(2) Cloud Device Alarm

Step 1: Configure the Cloud Alarm Information to be Pushed to the SCADA

The configuration logic for this function is consistent with that of local device alarms, requiring configuration in the **【Alarm】** module of the SCADA system. Once configured, the scrolling alarm on the S100 will display real-time alarm information from the cloud device. Furthermore, this configuration is fully compatible with alarms received through channels such as the APP and WeChat official account; if a similar alarm configuration has already been completed in an existing project, there is no need to repeat the alarm-related configuration.

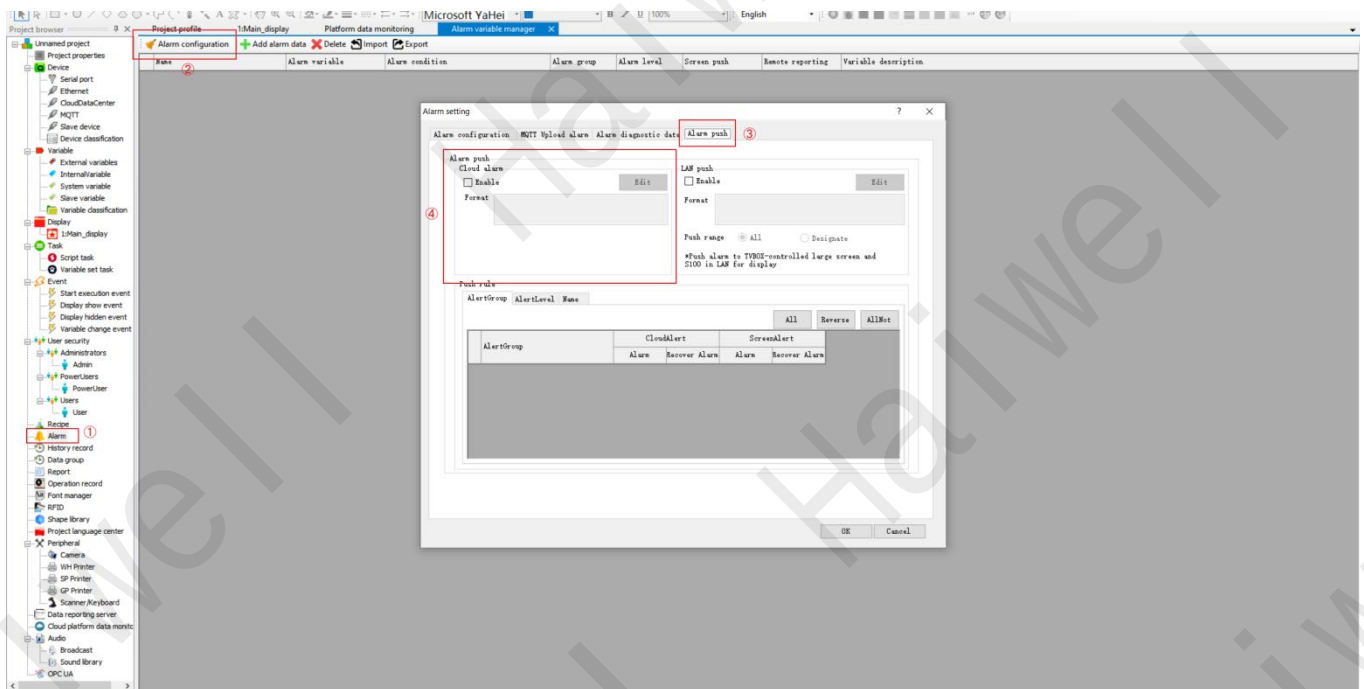


Figure33 Cloud Alarm Push

Step 2: Log in to your Haiwell Cloud Account

To obtain alarm information from cloud devices, users must first log in to their Haiwell Cloud account. This login function can be easily accessed through the user login icon. After logging in, the system will automatically filter and display alarm information within the corresponding range based on the user's selected identity type (enterprise/individual). That is, if an enterprise is selected, alarm information from devices under that enterprise's name will be displayed; if an individual is selected, alarm information from devices under that individual's name will be displayed.

6) 3D Component

3D Component, supporting the loading and display of 3D model files. 3D Component is the core interactive component of the visualization configuration platform, supporting the embedding of 3D models in OBJ, GLB, FBX, and STL formats on the page. It allows for customizing the rendering effect, interaction permissions, and display style, and is suitable for scenarios such as 3D visualization of industrial equipment, product model display, and scene simulation. It enables rapid integration and interaction control of 3D

content on the page without complex development.

Usage Method:

Step1: In the left component bar, find the "Advanced Components" category and click on the **【3D Component】** component.

Step2: Drag the component onto the canvas to complete the addition, and the component property configuration panel will automatically pop up on the right.

Features:

1. Support for automatic model rotation configuration, with customizable rotation direction and speed.
2. Support for setting the initial rendering ratio and a view reset button.
3. Support for controlling model zooming, rotation, and translation through independent switches.
4. Support for selecting the model surface, configuring highlight colors, and flexibly binding click behaviors or bubble pop-ups.
5. Support for quickly adding hotspots by double-clicking, dragging to adjust positions, and customizing style switching and border effects.

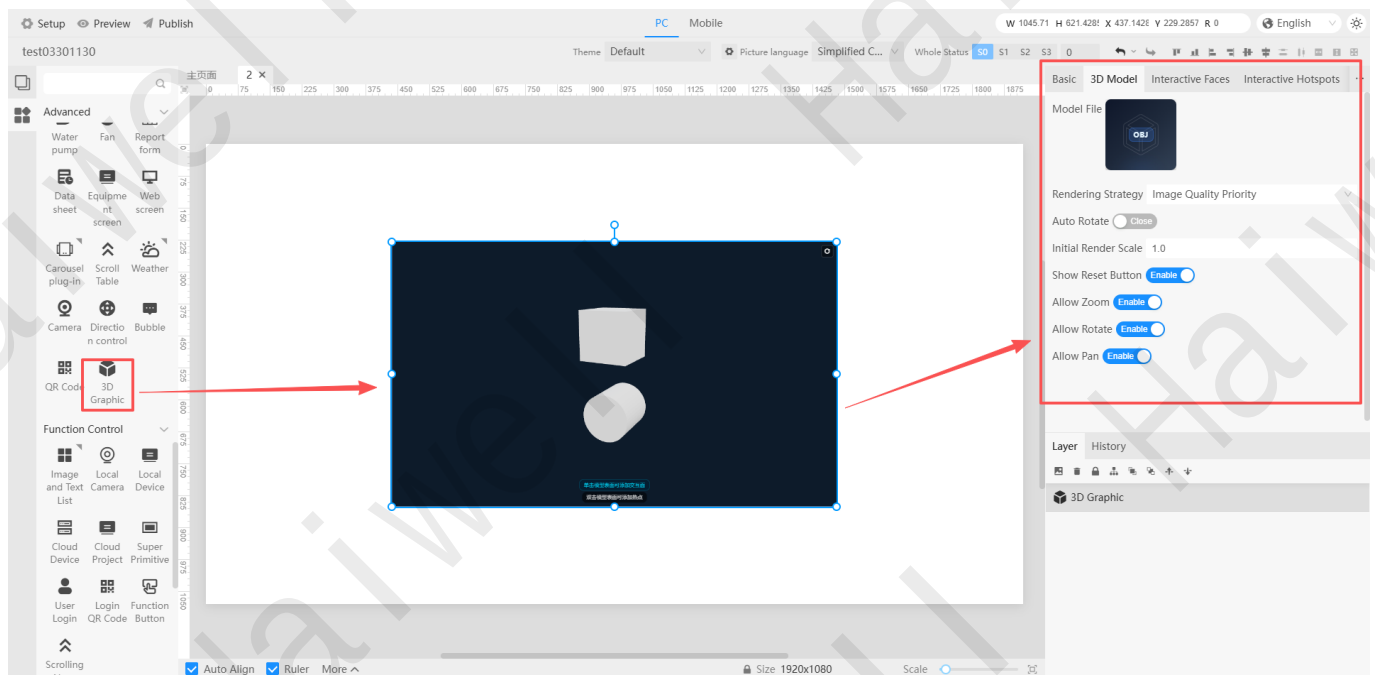


Figure34 3D Components

Interaction Surface: The interaction surface is used to achieve global interaction control of 3D models, supporting actions such as binding page jumps and data pop-ups. The specific functions are as follows:

- **Switching Views:** Clicking on the model will jump to other configuration views within the current project.
- **Pop-up View:** Clicking on the model will pop up a floating small window without jumping to the

main page.

- Close Pop-up: Clicking on the model will close the currently opened pop-up.
- Switching Projects: Clicking on the model will jump to other independent projects within the platform.
- Executing Data Source: Clicking on the model will trigger the data source to pull the latest data.
- Executing Script: Clicking on the model will run a custom script to implement complex logic.
- Bubble Pop-up: Clicking or hovering over the model will pop up a prompt bubble to display information.

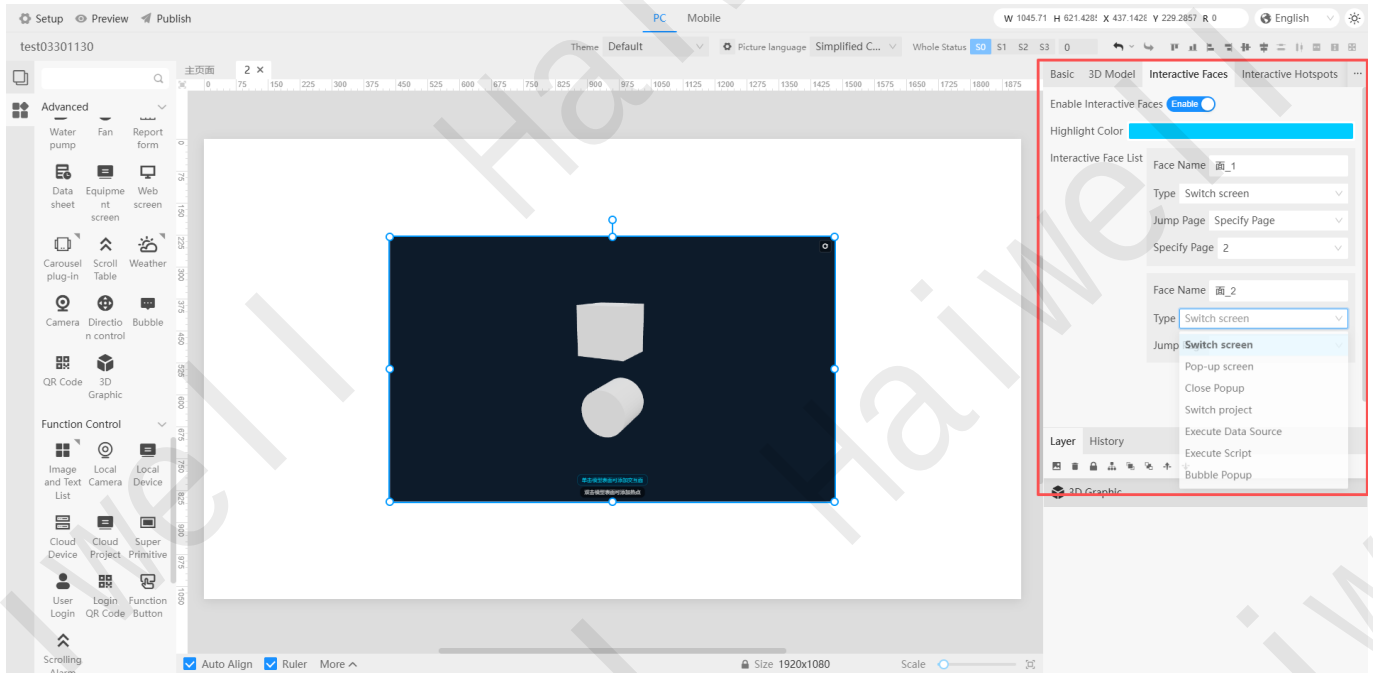


Figure35 Interactive Interface

Interaction Hotspots: Interaction hotspots are used to achieve precise interaction at specific points on 3D models, allowing for the addition of hotspot markers on the model's surface. They also support the same functional configuration as interaction surfaces, including switching scenes, pop-up scenes, closing pop-ups, executing data sources, running scripts, and bubble pop-ups, meeting the point-level interaction requirements in industrial scenarios.

- Support double-clicking to quickly add hotspots and dragging to adjust their positions.
- Support customizing hotspot style switching and border effect configuration to adapt to different visualization scenarios.

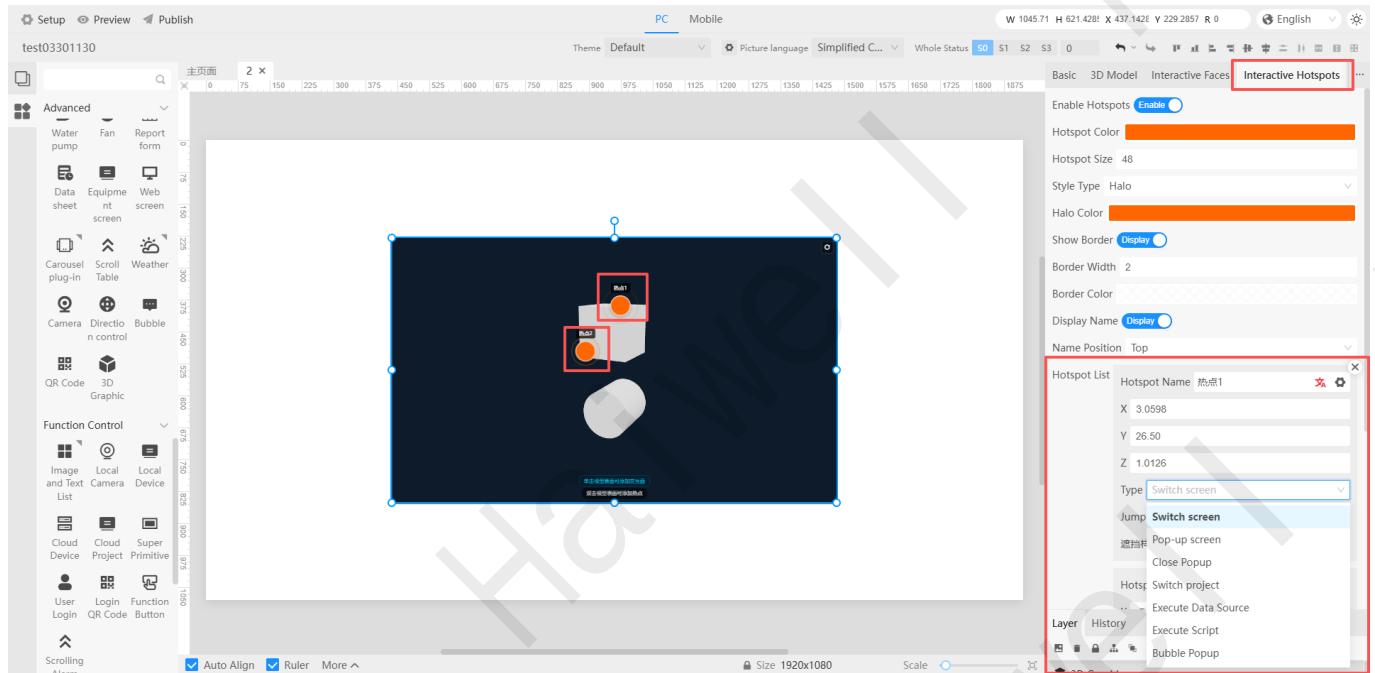


Figure36 Interactive Hotspots

7) Bubble

Bubble Component is a lightweight information display component that supports users to customize multilingual text content and dynamic variable binding. Users can flexibly configure the style and display position, which is suitable for scenarios such as industrial field equipment description, status prompt, and alarm information display. It can quickly achieve the visualization presentation of page information and multi-scenario adaptation.

Type: Switches the content display mode. Two modes are supported: Static Text and Variable.

Static Text: Switches to Static Text mode. You can directly enter or edit fixed display text.

Variable: Switches to Variable mode. You can bind device variables or system variables in the platform to dynamically display variable values or status.

Operation Steps:

- Add component: Enter the configuration editing interface and drag the **【Bubble】** component from the "Advanced Components" on the left to the target position.
- Configure trigger: Select the component, and in the **【Bubble】** tab on the right, configure the target page, trigger type (mouse over/click), and display position.
- Set content: Switch to the **【Content】** tab, select the content mode (multilingual text/variable), and configure the content. Simultaneously adjust the font and style.
- Preview and Publish: Click **【Preview】** to verify the effect. After confirming that everything is correct, publish the project.

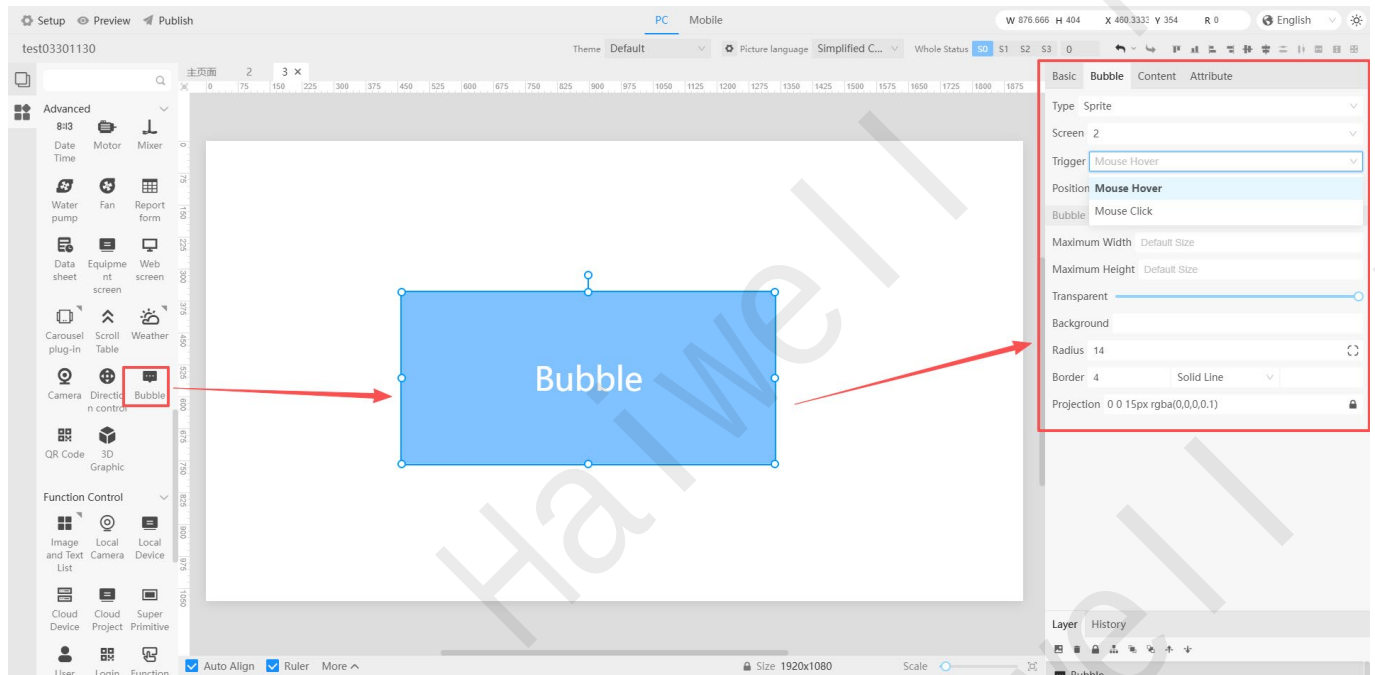


Figure37 Bubble Component

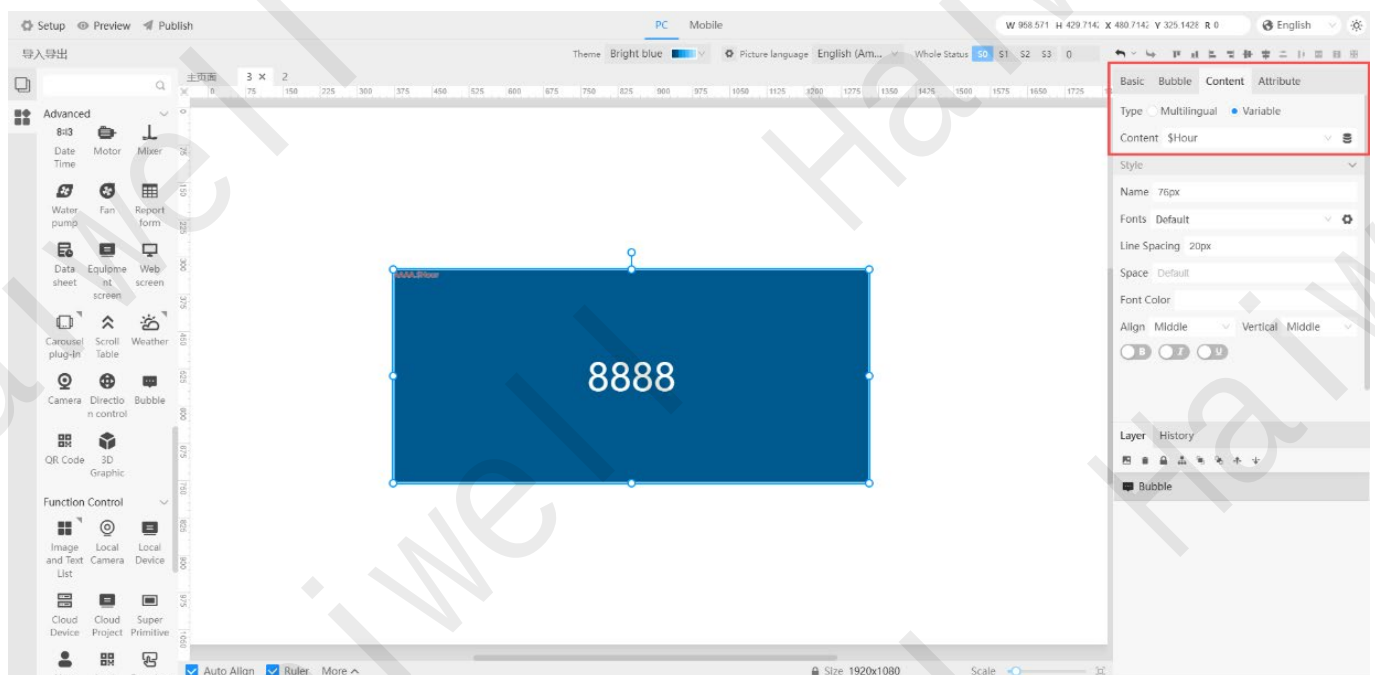


Figure38 Bubble Content

8) Time Selector

The time selector is a data filtering and global control component of the visual configuration platform. It supports global control of time ranges and cross-page synchronization, and can be associated with specified charts to achieve unified time filtering. It has added the ability of quick tags, supporting default tags, quick queries, drag-and-drop sorting, and custom editing. At the same time, it has optimized theme adaptation, style, and interaction experience, significantly improving the operational efficiency and user experience in industrial data dashboards and historical data query scenarios.

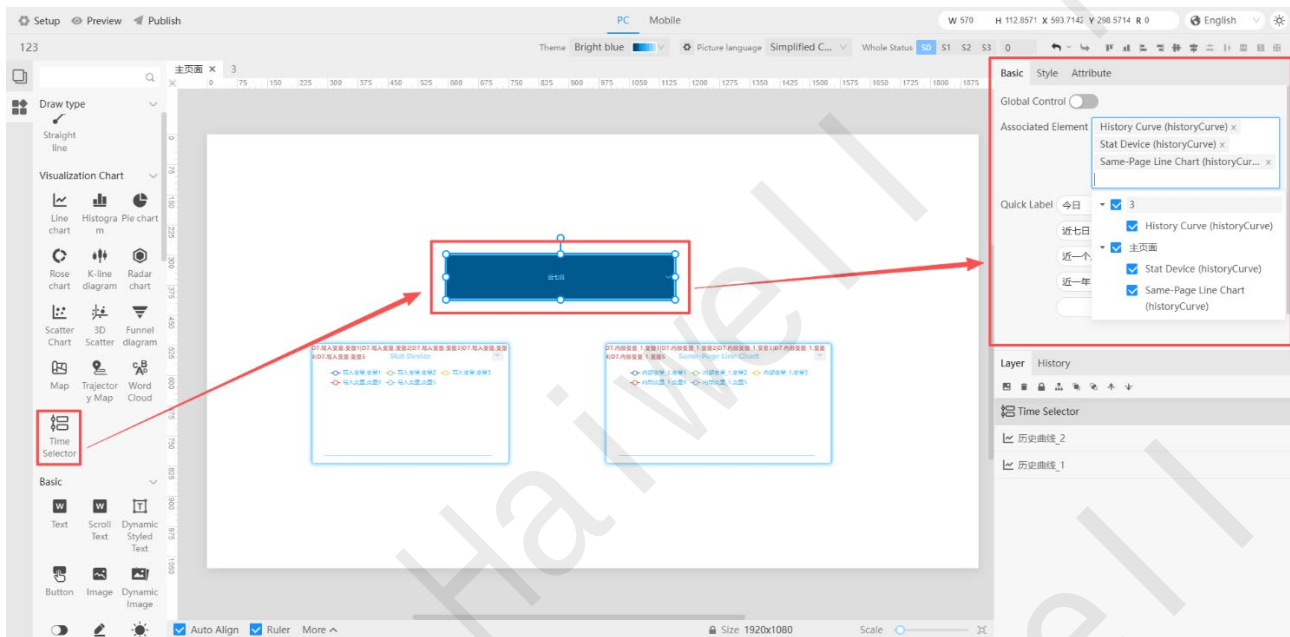


Figure39 Time Selector Component

After enabling global control, the time selector will serve as the unified time entry point within the project. When modifying the time range, all associated charts, regardless of whether they are on the current page, will automatically synchronize and filter the corresponding interval data without the need for page-by-page adjustments.

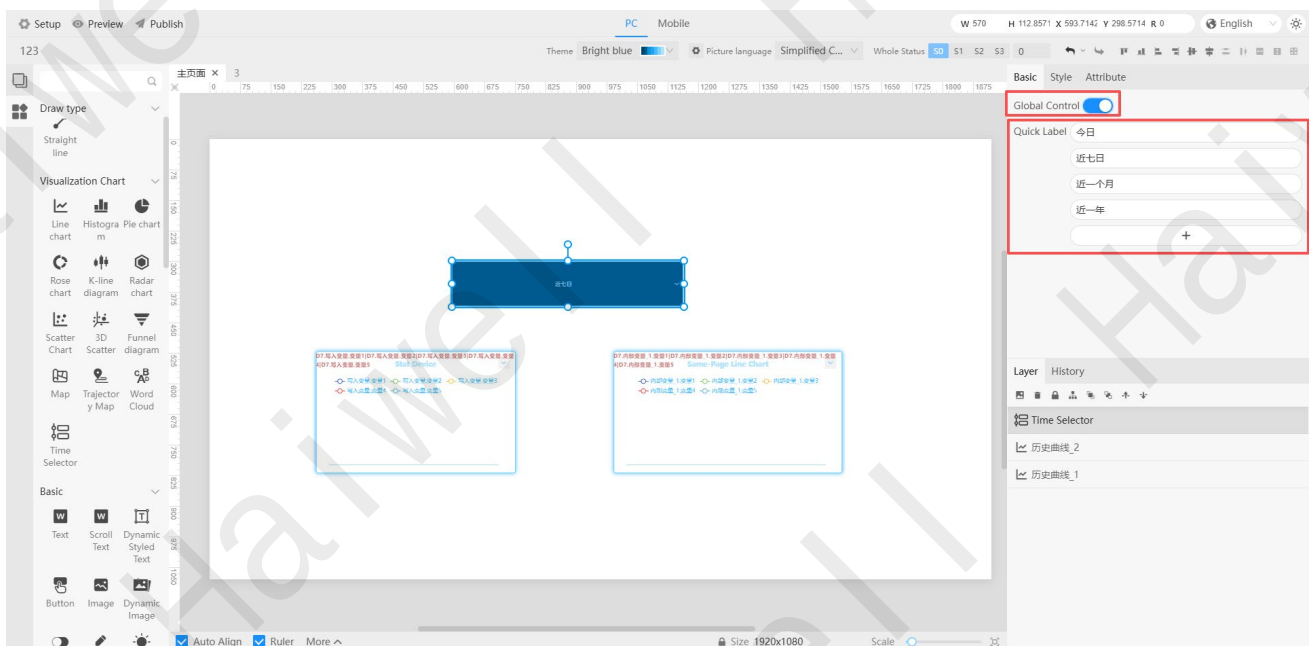


Figure40 Global Control and Quick Tags

9) Report Components

The component of the report supports the display of historical data, equipment operation data and statistical indicators in table form. It allows for customizing the table header, data binding and style, and supports viewing dedicated component variables. It is suitable for scenarios such as industrial data reports and historical record queries, achieving structured and visual presentation of data.

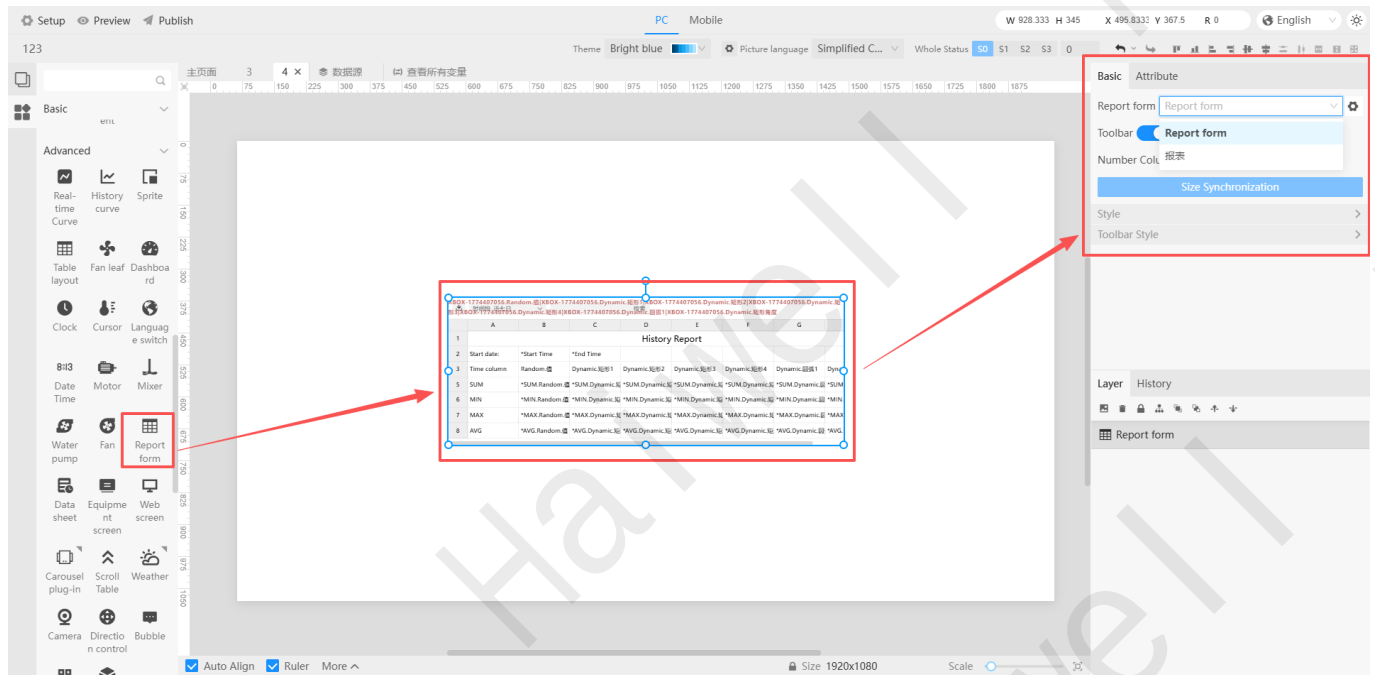


Figure41 Report Component

Operation Steps:

(1) Report Component

Basic configuration: Select the report component on the canvas, and in the **【Basic】** panel on the right, enable or disable the toolbar and the serial number column, and configure the report size synchronization.

Data binding: Click the **【Report】** configuration button, bind the corresponding device variables and data sources, and configure the report header and data columns.

Variable viewing and management: Click the **【View all variables】** setting at the top of the page, and under the **【Component Variables】** category, find the corresponding report component. You can view the report's time variables, cell data variables, and statistical variables (such as total, maximum, minimum, average, etc.).

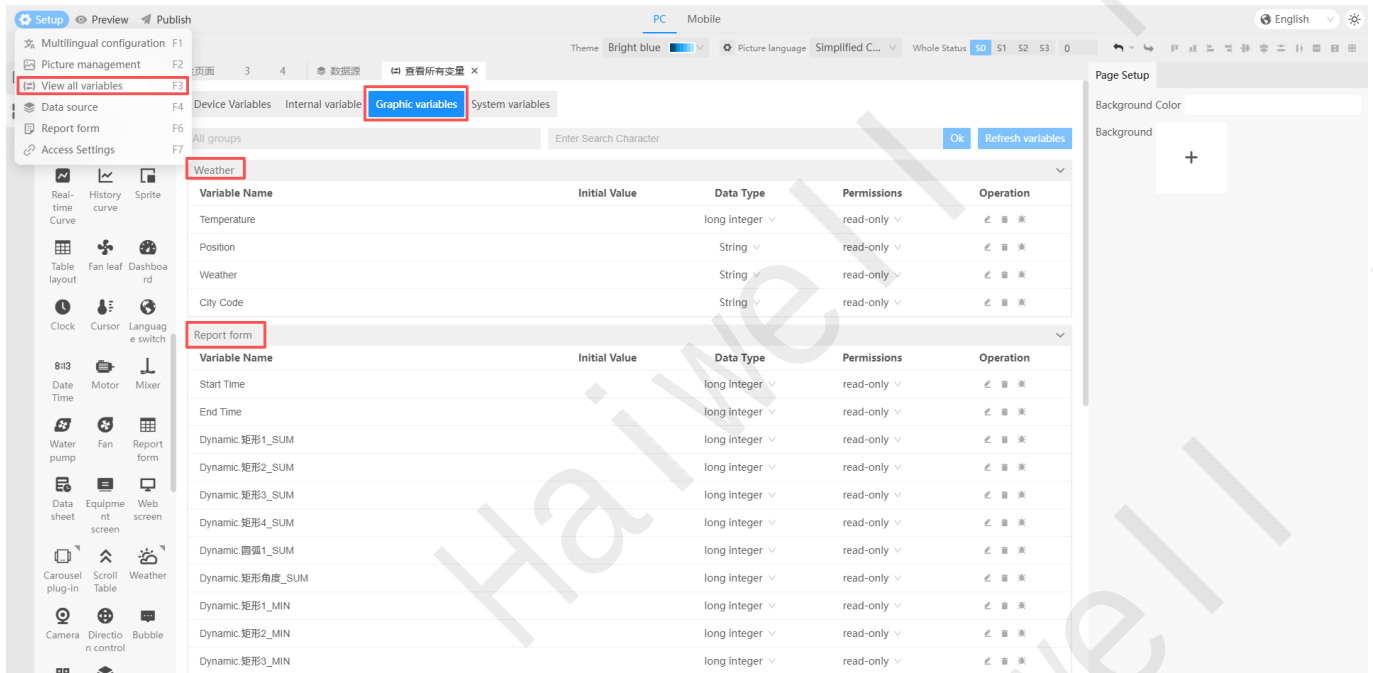


Figure42 Component Variables

10) Field Selector

The field selector component provides drop-down and list selection interaction functions for the web SCADA editor. It can be used on SCADA pages for option selection and data filtering, and can be linked with chart fields. It is suitable for area filtering, category filtering, time filtering, and other scenarios. This component is easy to operate, intuitive in linkage, and reusable, reducing the threshold for report filtering and enabling linked filtering without a large amount of scripting.

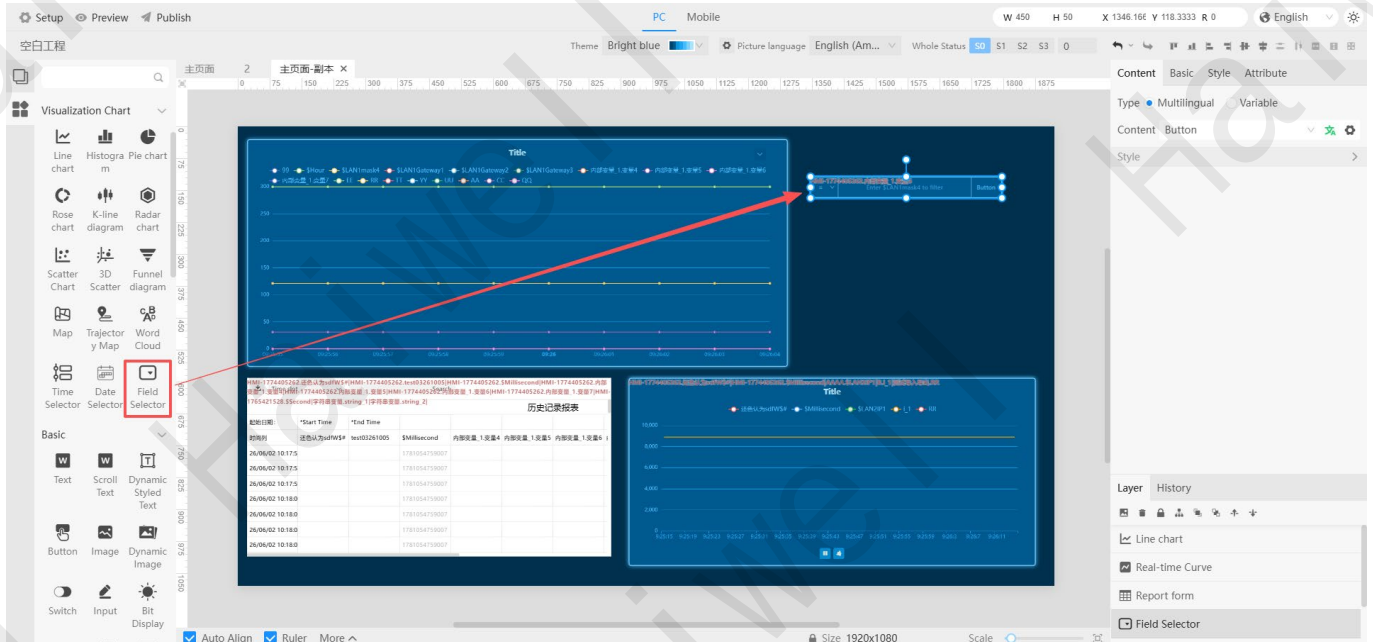


Figure43 Field Selector

When using it, select the **【Field Selector】** component from the component library and drag it to the canvas. In the property panel on the right, configure the associated chart and select the target filter field. Filtering or switching of displayed content will be performed based on the common fields in the chart data

source. Configure the linked target report and corresponding fields, adjust the component style and position, save and preview the screen, and then verify the linkage filtering effect between the list items and reports in runtime mode.

11) Date Selector

The date picker component is a time-filter interaction component in the web SCADA editor. It can quickly implement data filtering by year, month, day, and specific time point. It can be linked with reports, curves, and statistical components, and is used to query historical data and real-time data within a specified time range. It is widely applicable to daily reports, monthly reports, annual reports, and precise time query scenarios.

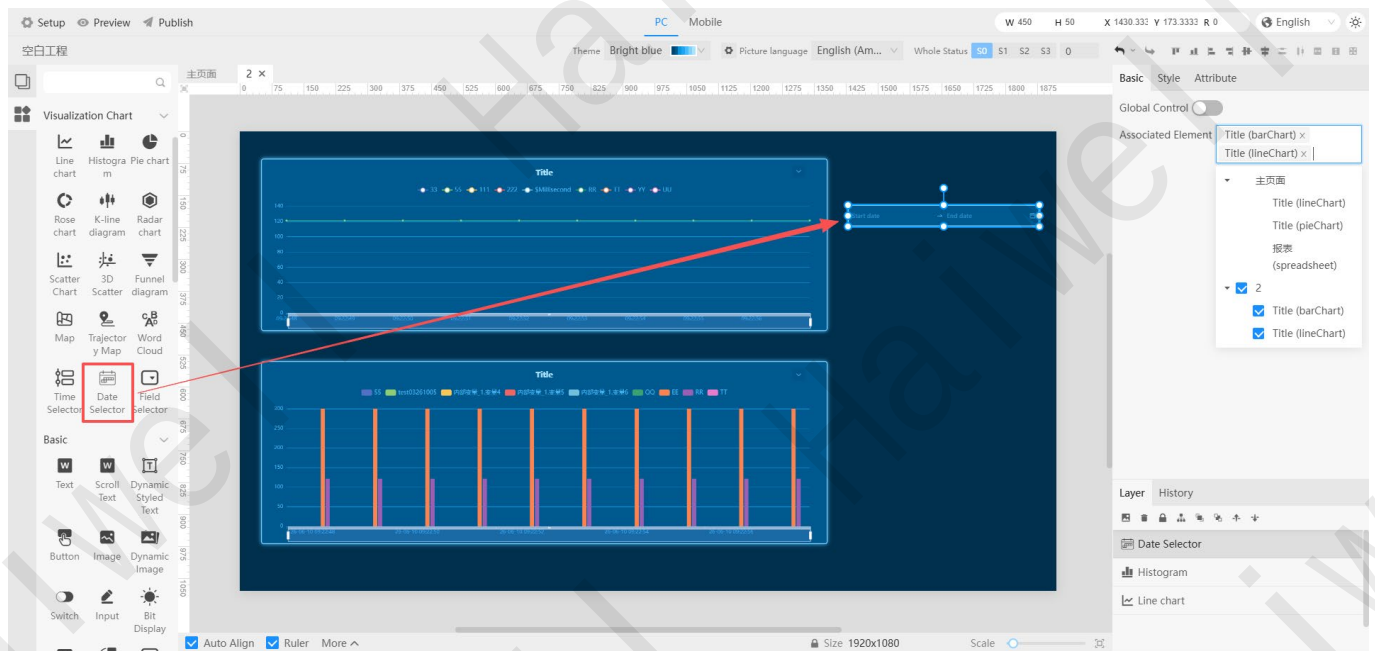


Figure44 Date Selector

It provides linkage configuration and style configuration. To use it, open the web SCADA editor and enter the target page, drag the Date Picker component from the component library to the canvas, and bind the target component that needs to be linked. After configuration, the required time period can be filtered on the project screen. This component features rich filtering granularity, a wide linkage range, flexible configuration, and strong reusability.

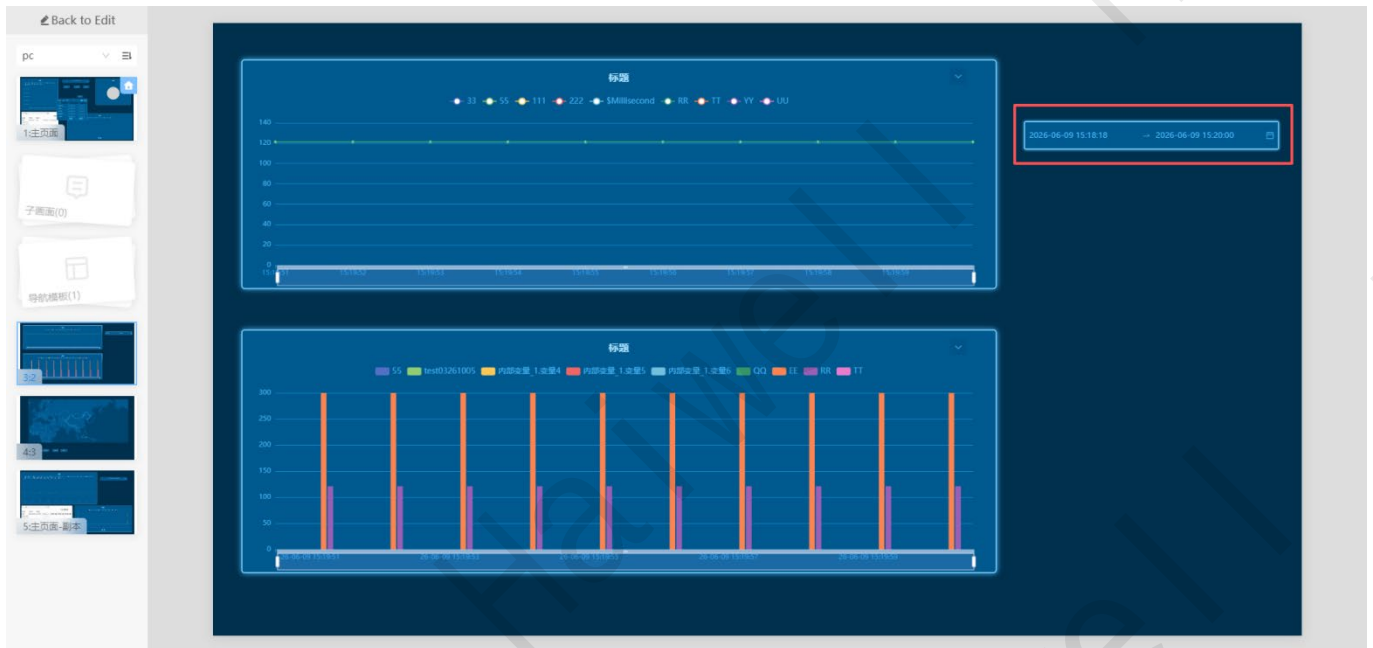


Figure45 Date Selector Usage

12) Device Status Component

The device status component is a visual statistical component used to list basic information and online/offline status of all devices on the project page in real time. It intuitively presents the on-site device ledger and instantaneous operating status. It is often used for production-line overview dashboards and equipment-room monitoring pages. It also supports searching by device name and PN code to quickly obtain the required device information.

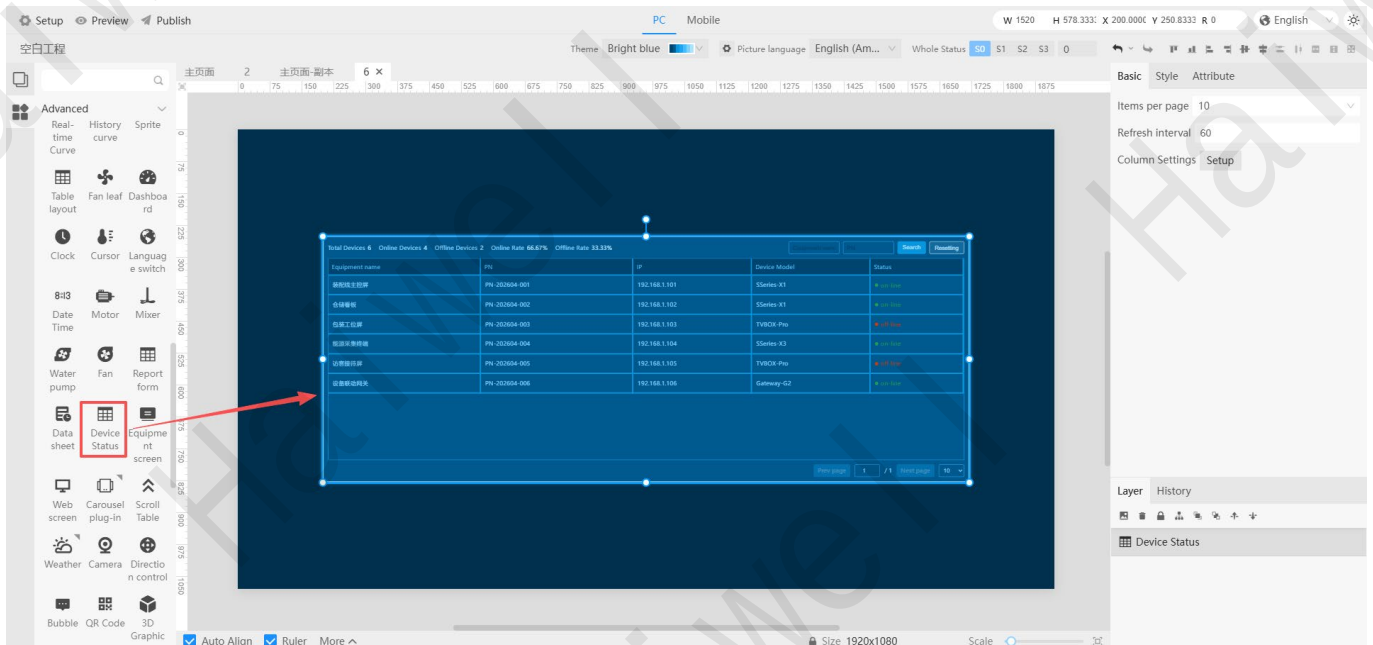


Figure46 Device Status Component

To use it, add the device status statistical component from the component library. In the property panel on the right, set the number of entries to be displayed and the refresh interval. The system will automatically obtain the status of associated devices, calculate the offline rate and online rate, and then save and preview

the page after configuring the chart style.

13) Map Component

The map component is a visual chart component. Based on longitude and latitude data matched with the data source, it renders points and indicator values on a map. It is commonly used for project location distribution, device geographic locations, and regional data statistics.

During use, select the Map component in the visual chart panel on the left and drag it onto the canvas. In the configuration panel on the right, select the target data source and bind the place-name field, longitude field, latitude field, and indicator-value field in sequence. The system will automatically generate marker points on the corresponding geographic positions according to each data record. The indicator value is used to control the point size and map color block. You can configure the map zoom level and point appearance as needed, lock the initial focus area by setting the view center longitude and latitude, and adjust the component border and overall size. Save and preview the page after configuration.

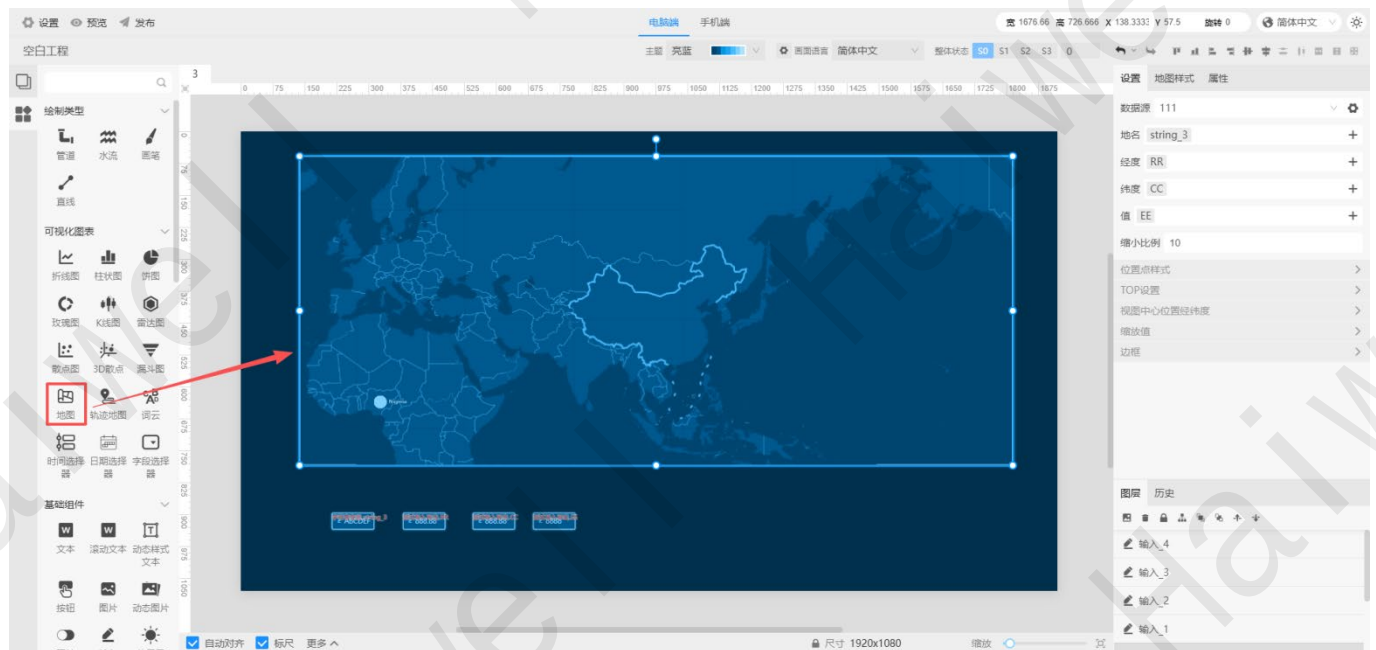


Figure47 Map Component

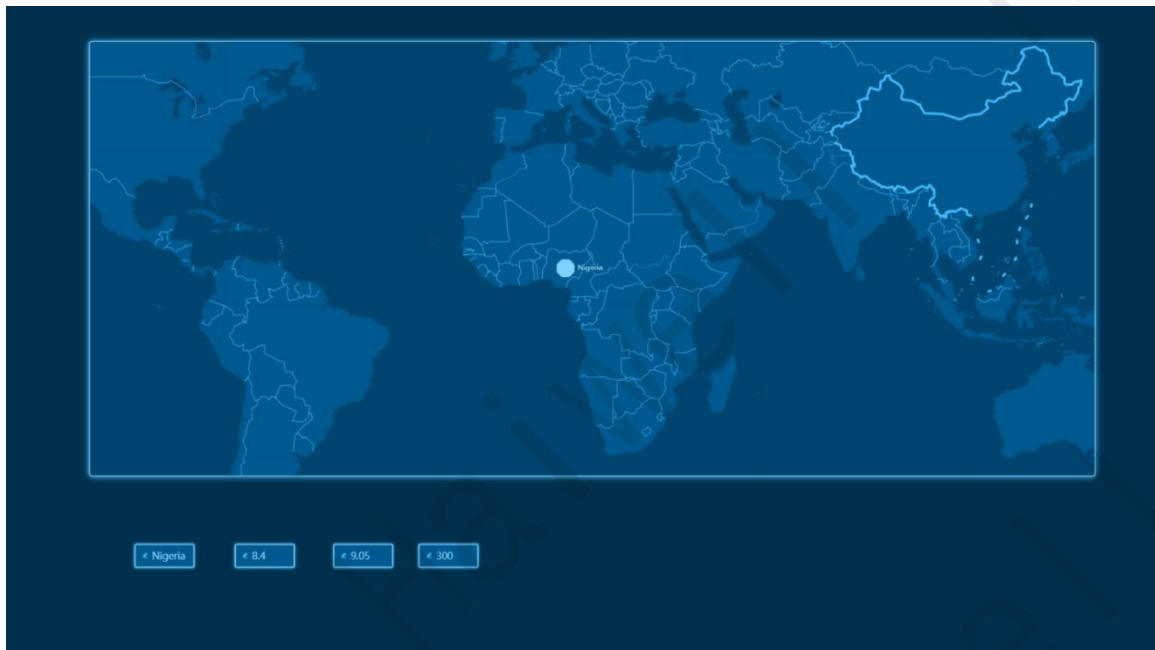


Figure 48 Map Project Page Display

During use, ensure that the longitude and latitude variables in the data source are numeric, and set variable storage to interval storage. When the map is bound with an input component, the entered data can be displayed on the map. Note that the variable bound to the input component must be the same variable as the data field to be displayed on the map. Place names must correspond to longitude and latitude values one by one. Data without longitude and latitude cannot generate map points. If the points are scattered, use the mouse wheel to zoom in or out to adjust the visible range. Before project publishing, preview and check the display position and value mapping of each geographic point.

③ Publish Project

Once the project design is complete, you can click the **【Publish】** button to publish the project.

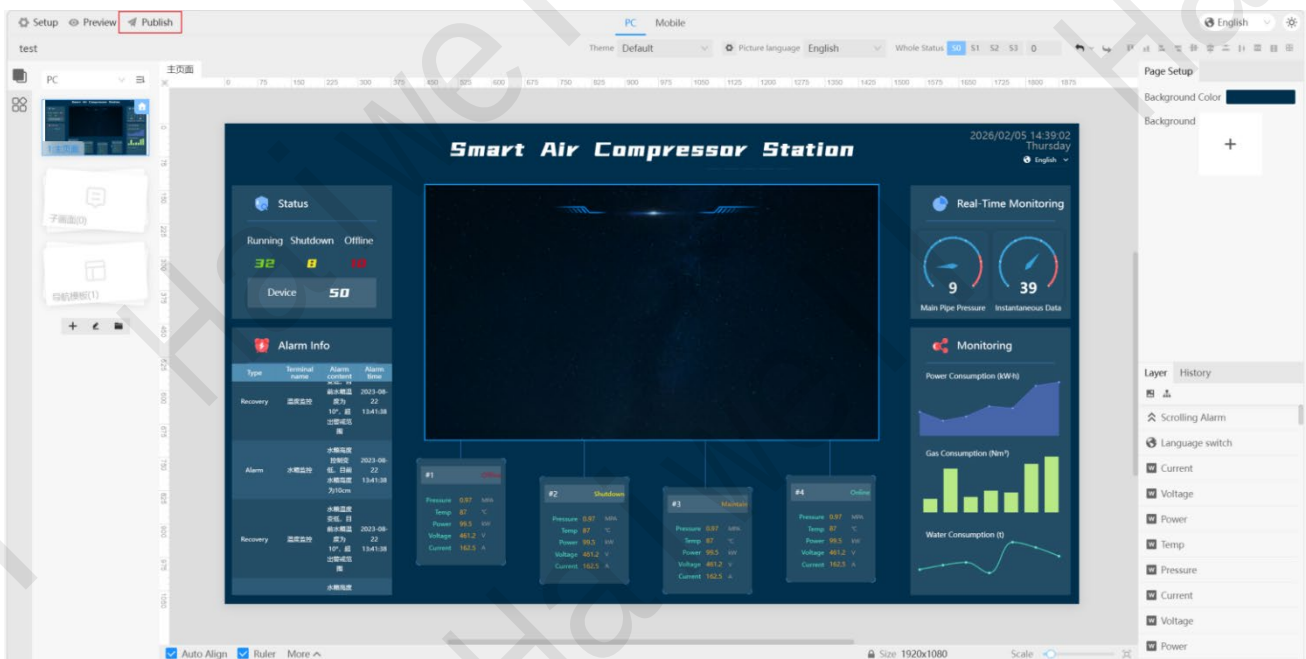


Figure 49 Publish Project

Note: If you do not publish the project after closing the project design, the project will be lost.

(2) Access Settings

Clicking **【Access Settings】** allows you to edit access permissions for existing projects, including whether to enable access and set an access password.

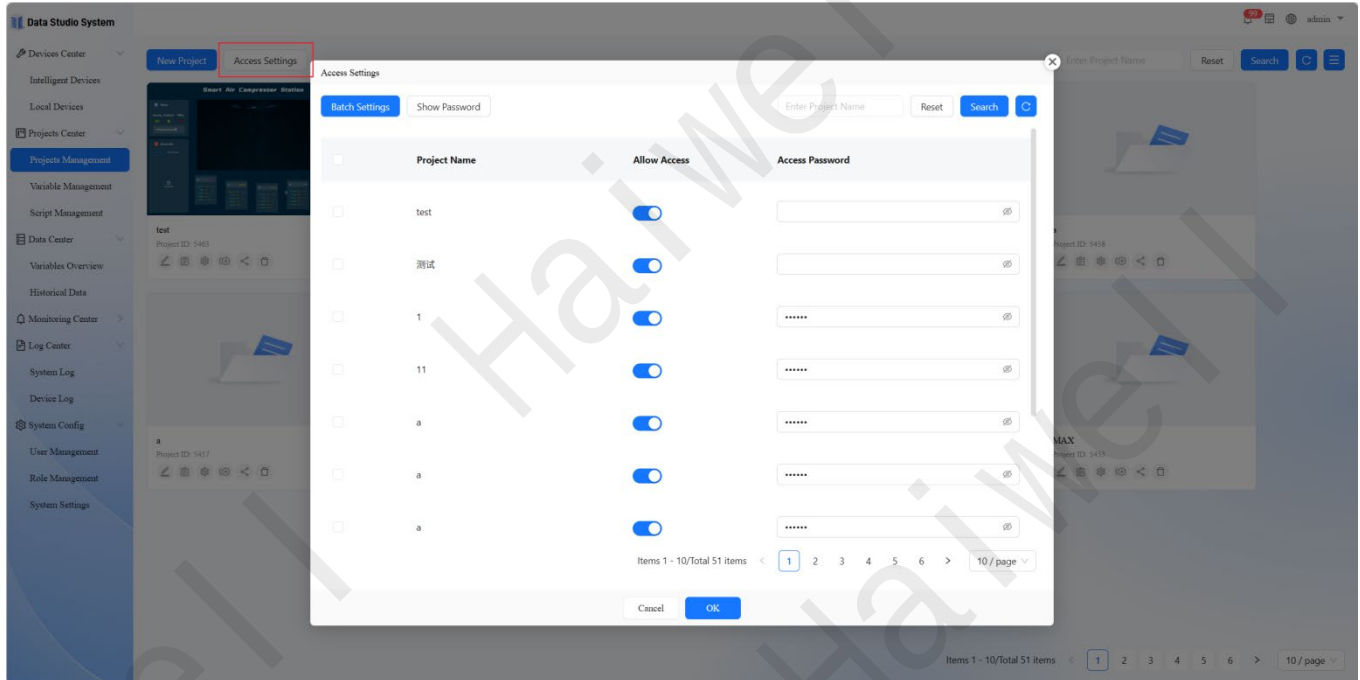


Figure50 Access Settings

(3) Import/Export Project

The project import/export data migration function is designed to enable rapid backup, migration, and reuse of project files across different devices and system environments. It fully retains all information within the project, including the configuration of visual dashboards, variable associations, script logic, and data bindings, eliminating the need for repetitive configuration and significantly enhancing project delivery and maintenance efficiency.

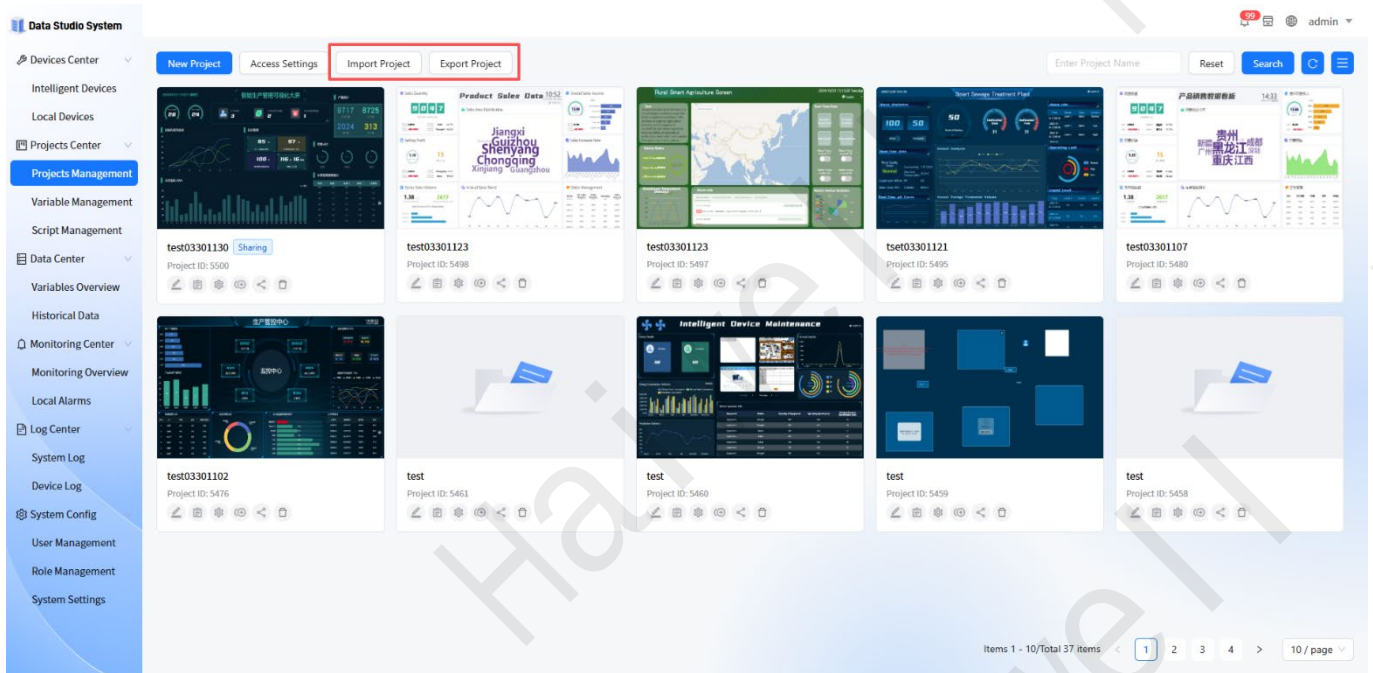


Figure51 Import/Export Project

① Export Project

Function:

It is used to package and export the created projects in the system as local files, which can be used for project backup, version archiving, cross-device migration, and project reuse. The exported files completely retain all configuration information of the project, ensuring that the project can be restored 1:1 after migration.

Operation Steps:

- 1. Select the target project:** In the project list, check the project you need to export.
- 2. Trigger the export operation:** Click the **【Export Project】** button in the upper left corner of the page.
- 3. Obtain the exported file:** The system will automatically package the project files. Once completed, it will be automatically downloaded to your local browser. The default file format is a .zip compressed package.

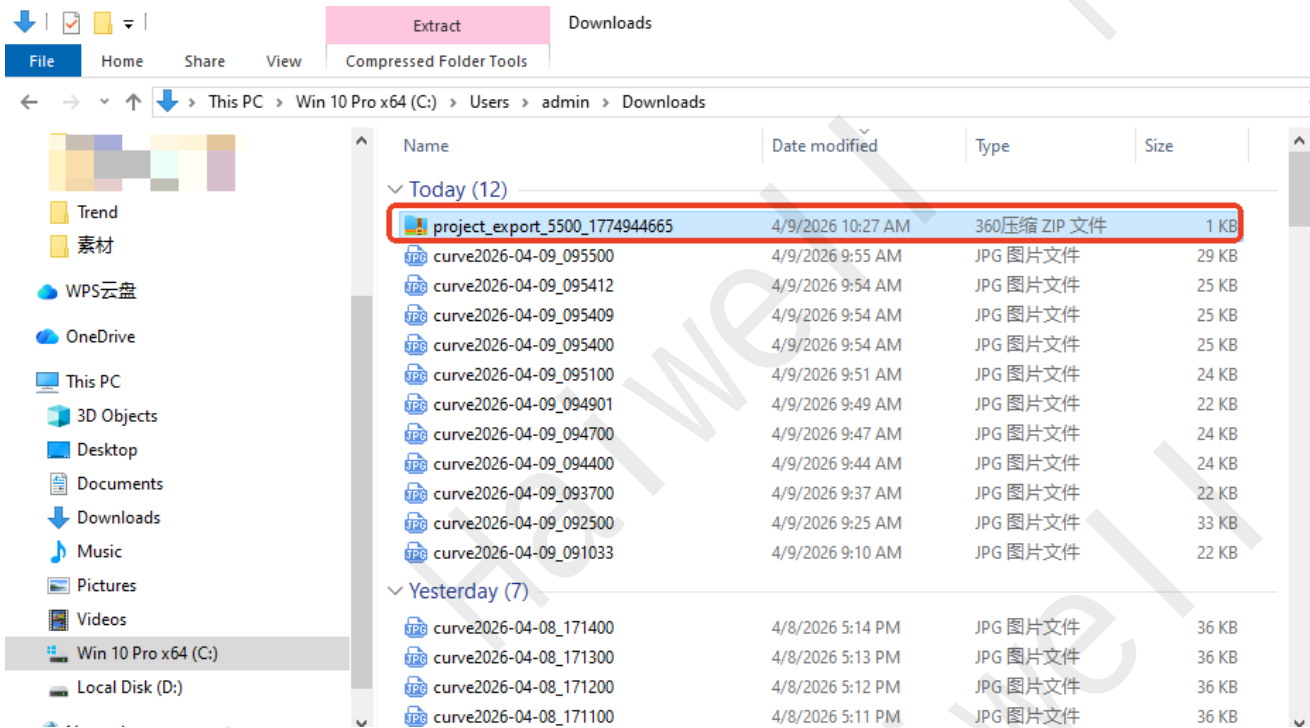


Figure52 Export Compressed Package

② Import Project

Function:

This is used to import the .zip compressed package project files that have been exported from the local browser into the current system, quickly restoring all the project's configurations. It supports project recovery, cross-environment deployment, project reuse, and version rollback, allowing direct use without the need for reconfiguration.

Operation Steps:

- 1. Trigger the import operation:** Click the **【Import Project】** button in the upper left corner of the page.
- 2. Select the import file:** In the pop-up file selection window, select the local .zip compressed package project file and click **【Open】**.
- 3. Complete the import:** The system will automatically parse and restore the project configuration. After the import is completed, the project will be automatically displayed in the project list and can be directly opened and used.

Note:

- Only .zip archive files exported from this system are supported for import; other file types cannot be recognized.
- Do not close the page or interrupt the network connection during the import process to avoid import failures or file corruption.
- The imported project will retain all configurations of the original project, including variables, scripts, dashboard layouts, and data bindings, without requiring reconfiguration.

- If the original project is linked to external devices or data sources, you must rebind the corresponding devices and data sources in the new system after import to ensure proper functionality.
- For data sources, navigate to the associated devices menu, rebind the required devices, and synchronize variables to ensure smooth communication between project variables and device connections.
- Only users with administrative privileges for project management can use the import/export function. If the function button is not displayed, contact the system administrator to assign the appropriate permissions.
- When importing a project, access passwords and sharing links from the original project will not be migrated with the project package. These must be reconfigured on the new device.

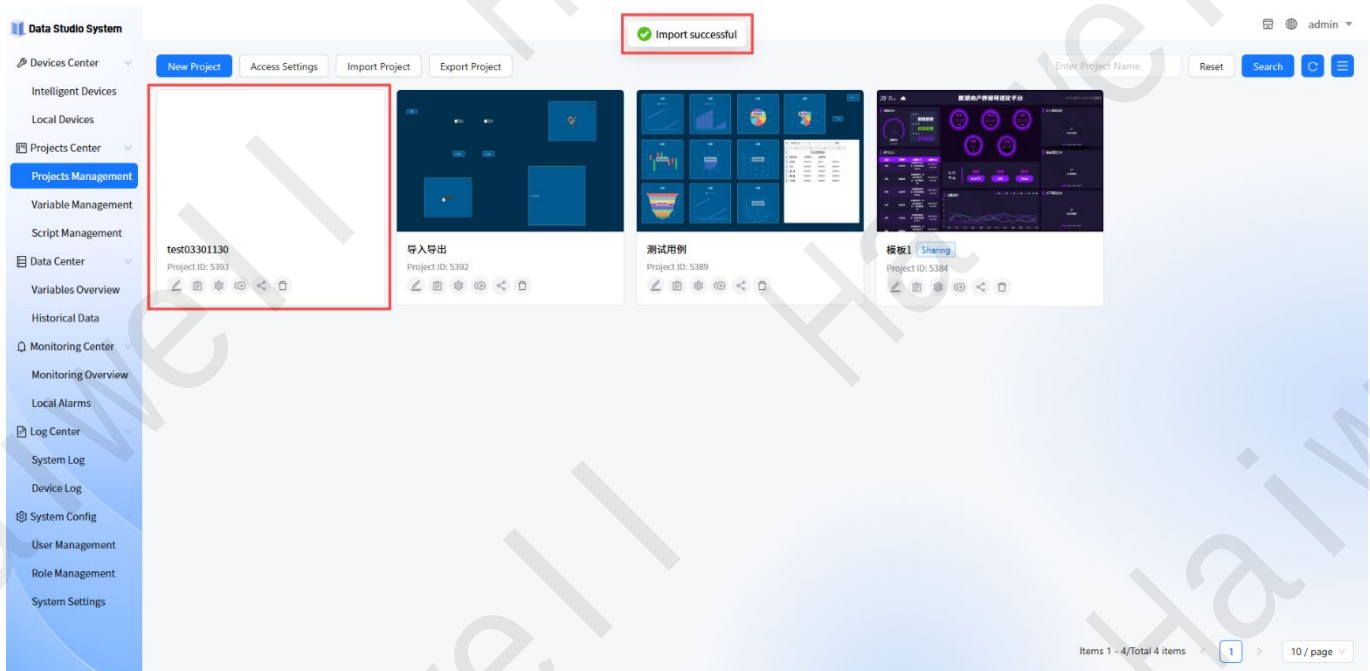


Figure53 Importing the Project

(4) Project Sharing

The project in the intelligent server supports sharing with others in the form of links and QR codes , so that non-device members can directly access and view the project screen on mobile devices and computers via links or QR codes.

① Access Methods

1) Local Area Network Access:

Access is only supported when users are on the same local area network, via an app or browser . You can set an expiration time and access password.

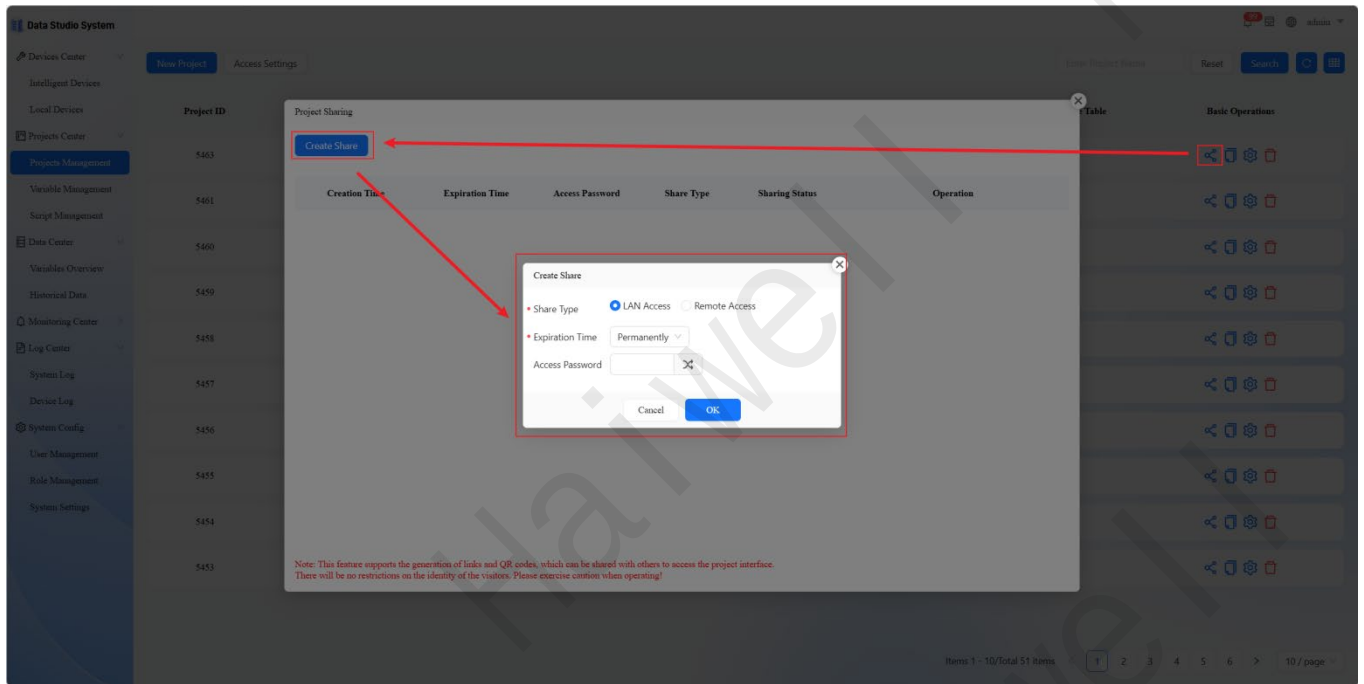


Figure54 Project Sharing - Local Area Network Access

2) Cloud Access:

It supports access via apps, browsers, WeChat, Alipay, and other applications with their built-in browsers, and allows you to set expiration times and access passwords.

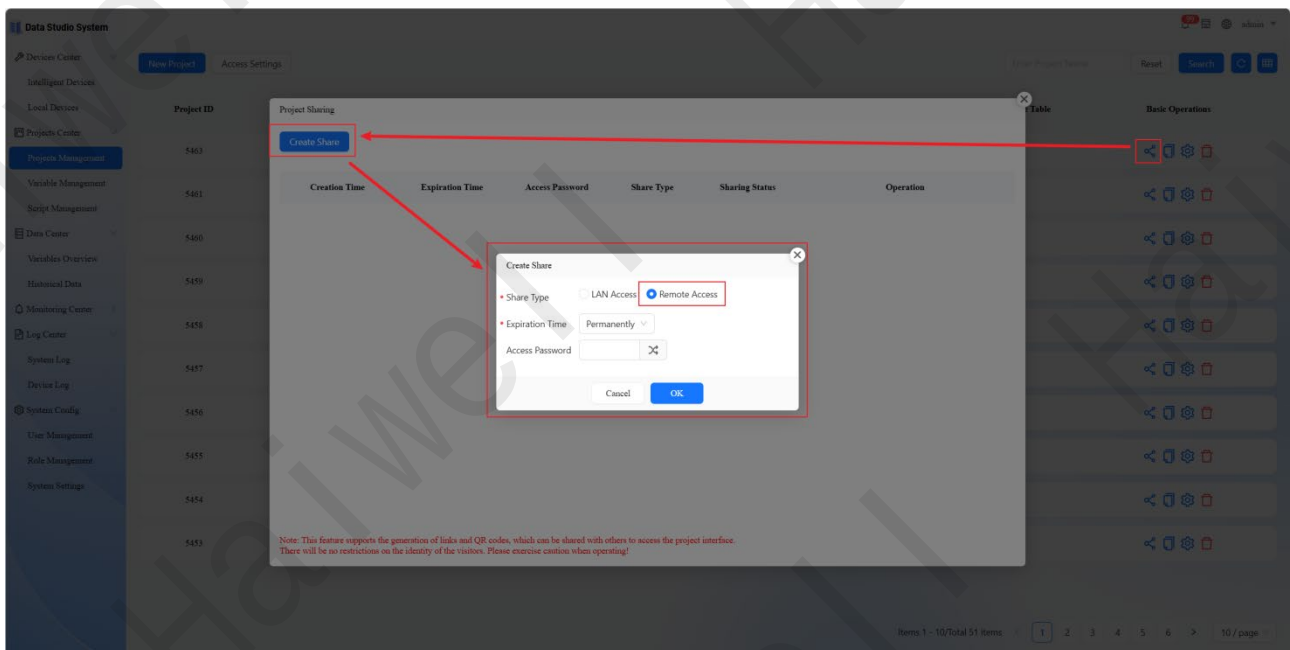


Figure55 Project Sharing - Cloud Access

② Project Sharing Methods

1) Link Sharing:

Click **【Copy Link】** button in the project sharing list to copy the project link for sharing with non-device members.

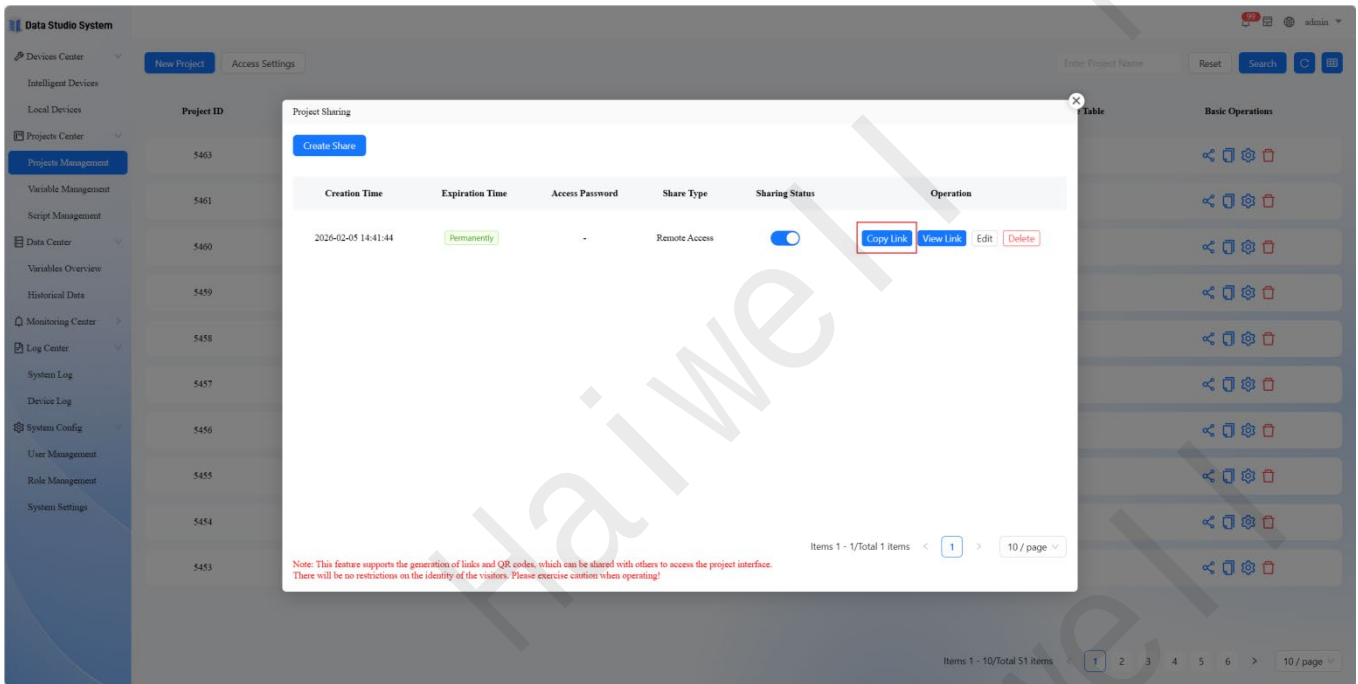


Figure56 Link Sharing Method

2) QR Code Sharing:

Click **【View Link】** button in the project sharing list to view the sharing QR code. You can download the QR code on this page to share with non-device members for access.

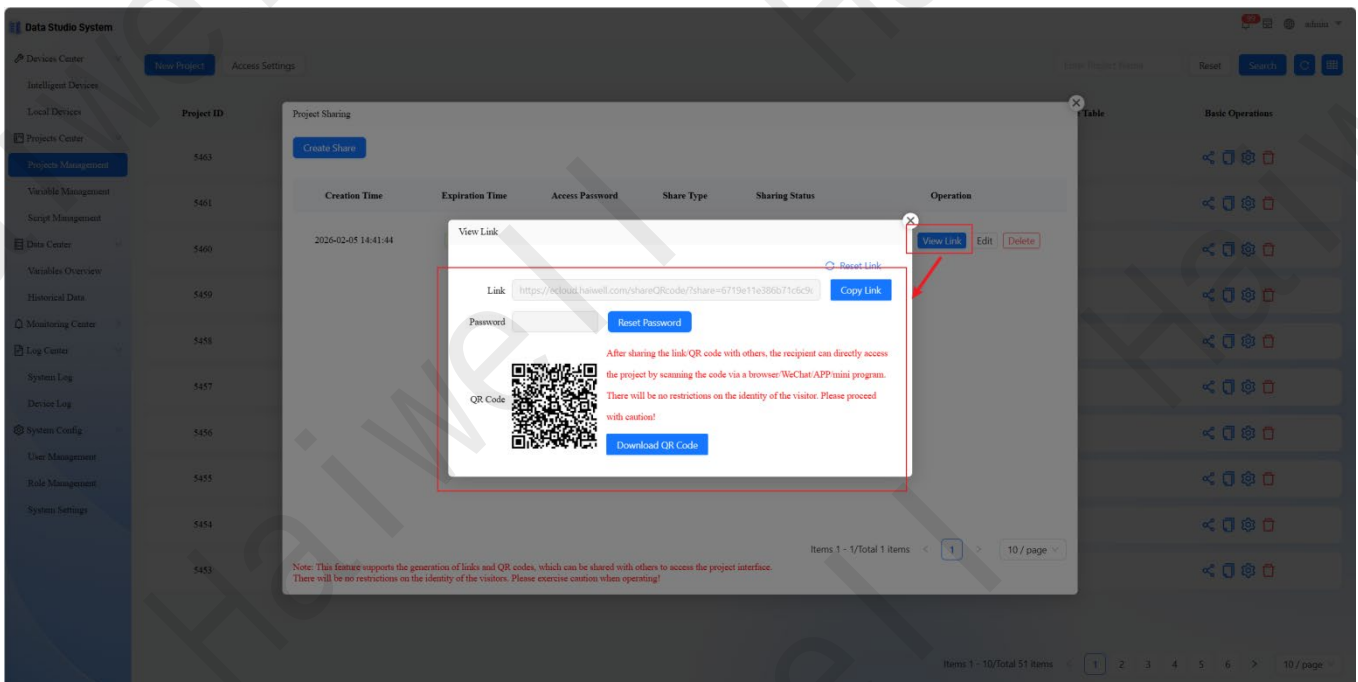


Figure57 QR Code Sharing Method

5.2 Variable Management

In addition to viewing variables in the device list, variables can be centrally managed in the **【Project Center】** - **【Variable Management】** section of the intelligent server. Variables are divided into two types: device variables and internal variables. Custom variable types can be created according to the needs of visual project design. The content of the two variable types is as follows:

Note: Initial device reports will not be stored by default; you need to configure the storage of variables for the device you are using.

(1) Device Variables

The data is reported from the intelligent device to the intelligent server. Once the device is associated with the intelligent server, the variables on both ends will be synchronized. Device variable information can be filtered by conditions such as the device, data type, variable name, and association identifier.

	Variable Name	Belonging Device	Data Type	Read and ...	Associated Identifier	Variable Description	Storage Method	Operation
☐	\$ProjectName	HMI-1770268128	String	Read Only	ProjectName	-	Do Not Store	Edit
☐	NB_回液灌最大高度值	HMI-1770262861	Float	Read and Write	NB_回液灌最大高度值	-	Do Not Store	Edit
☐	NB_策略灌模式切换	HMI-1770262861	Bool	Read and Write	NB_策略灌模式切换	-	Do Not Store	Edit
☐	NB_时控灌模式切换	HMI-1770262861	Bool	Read and Write	NB_时控灌模式切换	-	Do Not Store	Edit
☐	NB_顺次灌模式切换	HMI-1770262861	Bool	Read and Write	NB_顺次灌模式切换	-	Do Not Store	Edit
☐	NB_光照强度	光荣榜-1770199865	Integer	Read and Write	NB_光照强度	-	Store on Change	Edit
☐	NB_土壤湿度	光荣榜-1770199865	Integer	Read and Write	NB_土壤湿度	-	Store on Change	Edit
☐	NB_土壤温度	光荣榜-1770199865	Integer	Read and Write	NB_土壤温度	-	Store on Change	Edit

Figure58 List of Device Variables

① Batch Import

Click the **【Batch Import】** button to enter the Import Variables window. Click the **【Import Variables】** button again to open your local folder and select the variables you want to import. When confirming the import, select the device to which the variables are being imported. After selecting, click the **【OK】** button to complete the import operation.

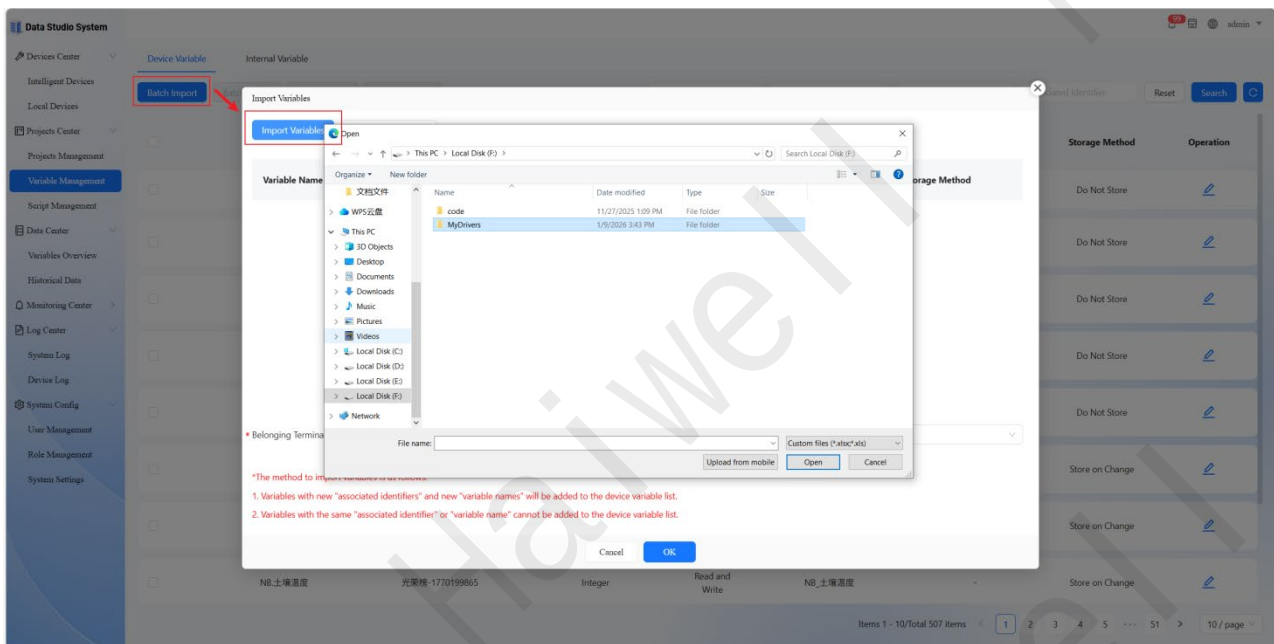


Figure 59 Batch Import of Device Variables

(2) Internal Variables

Created internally by the intelligent connection server, the relevant variable values are stored locally on the intelligent connection server and are not synchronized with intelligent connection devices. It supports operations such as creating, editing, deleting, importing, and exporting internal variables.

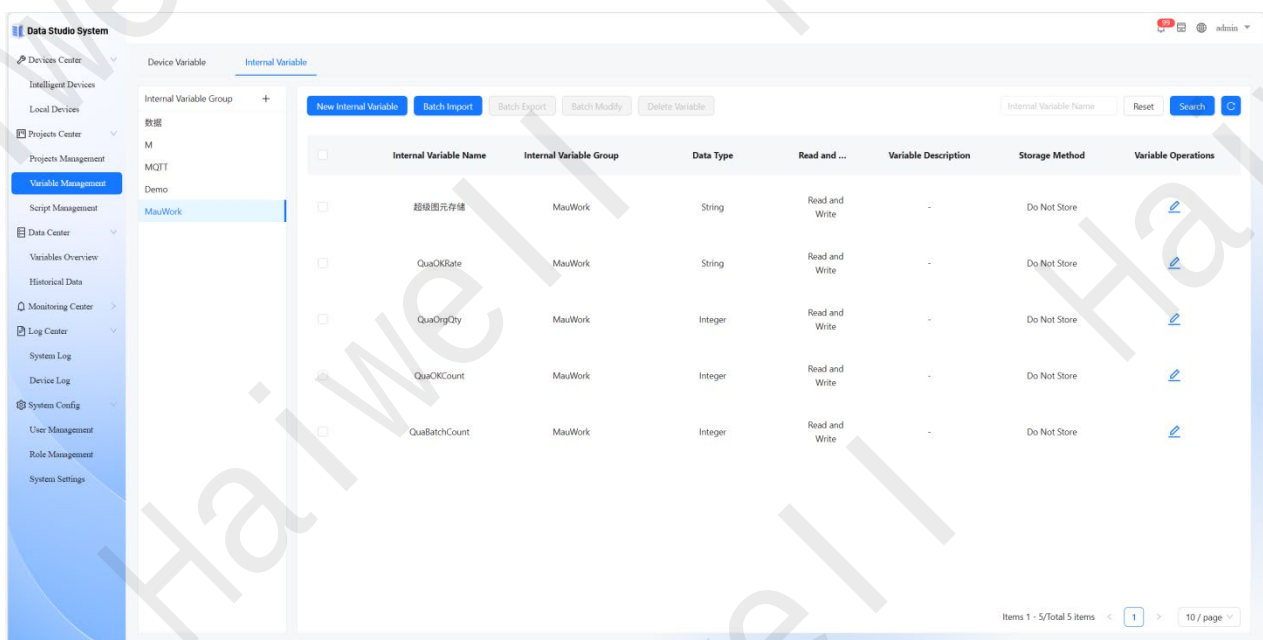


Figure 60 Internal Variables

① Grouping of Internal Variables

Users can group internal variables according to different usage scenarios. A new internal variable group can be created by clicking the button in the upper right corner of the internal variable group selection bar.

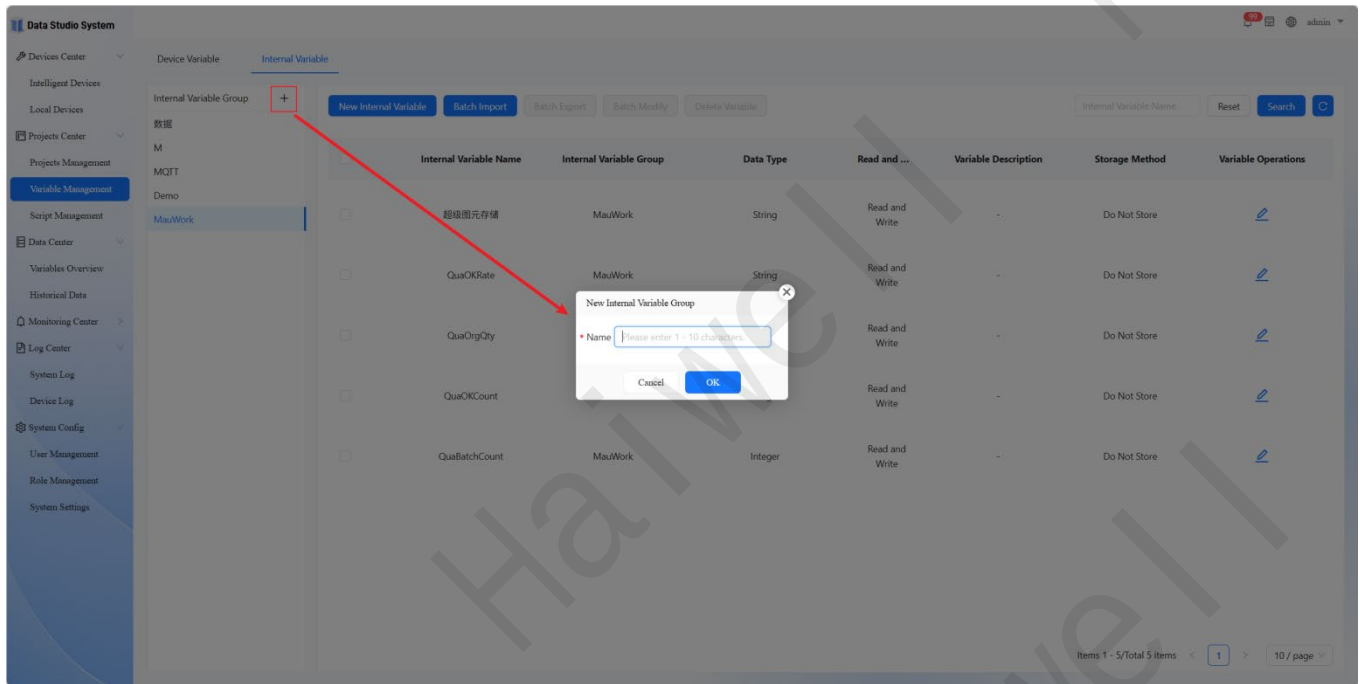


Figure61 Create New Internal Variable Group

② Create New Internal Variables

Click the **【Create Internal Variable】** button in the upper left corner of the list to create an internal variable. It supports two creation methods: **【Add Individually】** and **【Batch Add】**.

1) Add Individually:

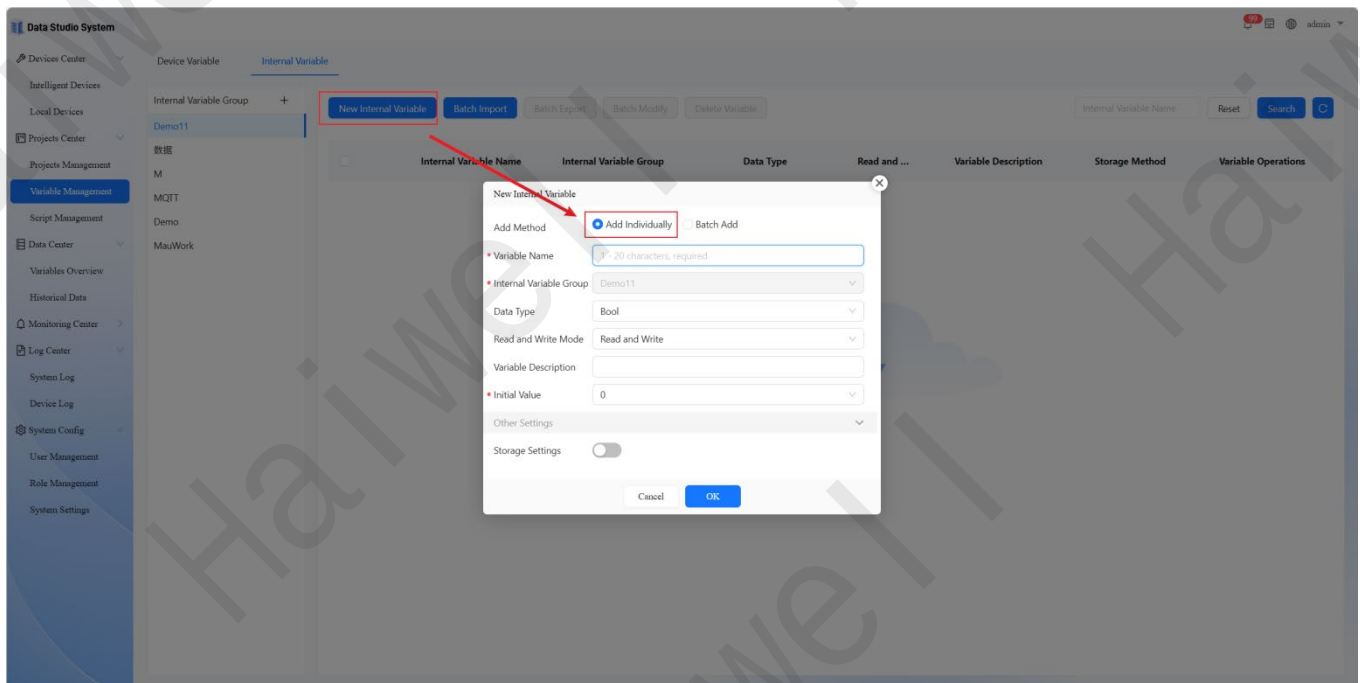


Figure62 Internal Variables - Add Individually

2) Batch Add:

The function allows for batch addition of internal variables by inputting the variable name prefix "m", the starting sequence number, the number of variables to be added, and setting the corresponding configuration information.

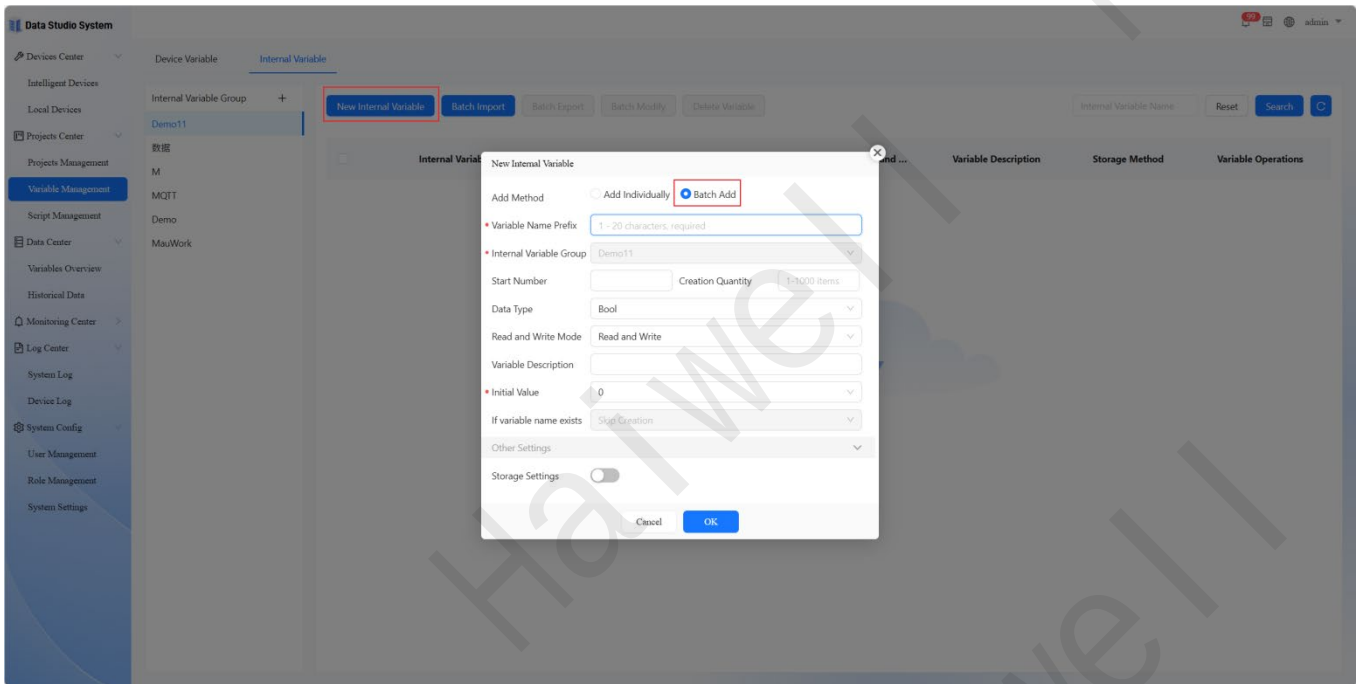


Figure63 Adding Internal Variables - Batch Add

③ Batch Modification

It supports batch modification of variables by selecting multiple internal variables, including read/write mode, variable description, and storage settings.

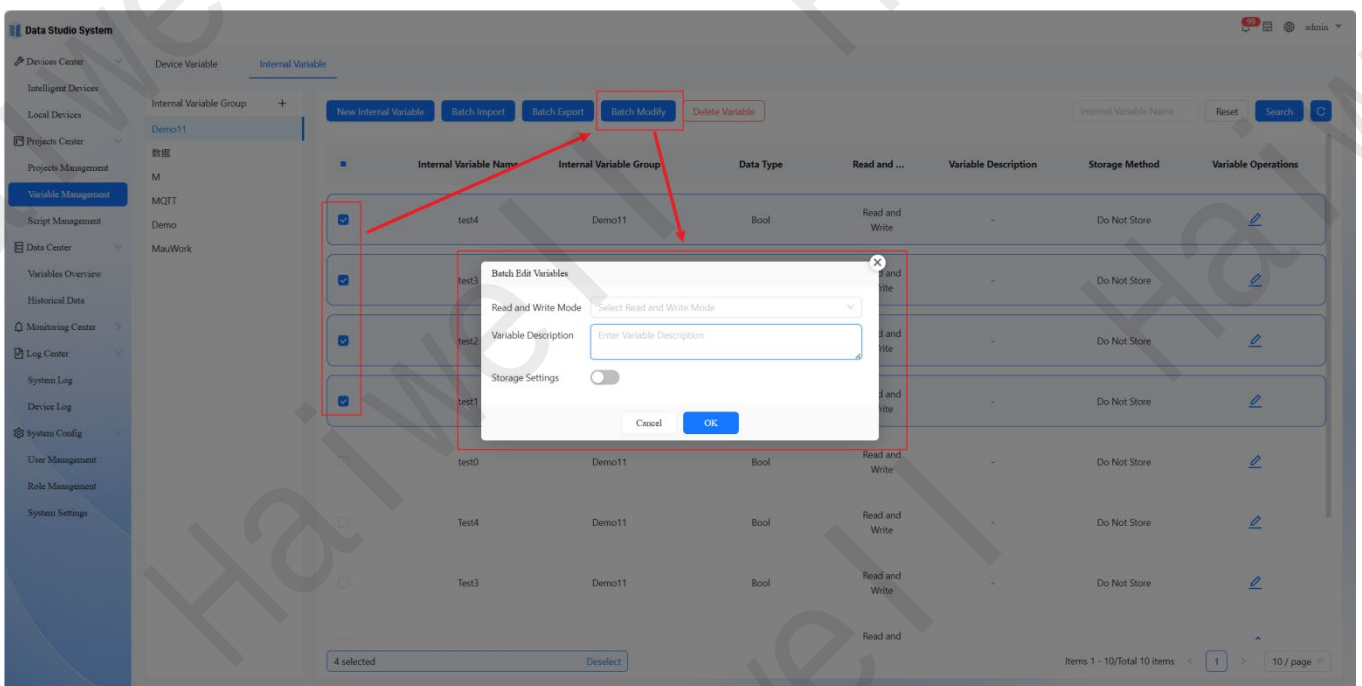


Figure64 Batch Modification of Variables

(3) Variable Tags

Variable tags are used for tag-based group management of device variables and internal variables. Users can create variable tags by business meaning, production line, area, device type, monitoring scenario, and other dimensions. The variable collection under a tag can be directly referenced in historical curves, real-time curves, script variable selection, data storage rules, and other function pages to achieve quick

filtering and batch calling.

Device variables and internal variables can be added to the same tag. Users can view the associated variable list by tag, batch add variables to a tag, batch remove variables from a tag, and export the variable tag list. Batch export only exports the currently selected records, which is convenient for on-site checking and delivery archiving.

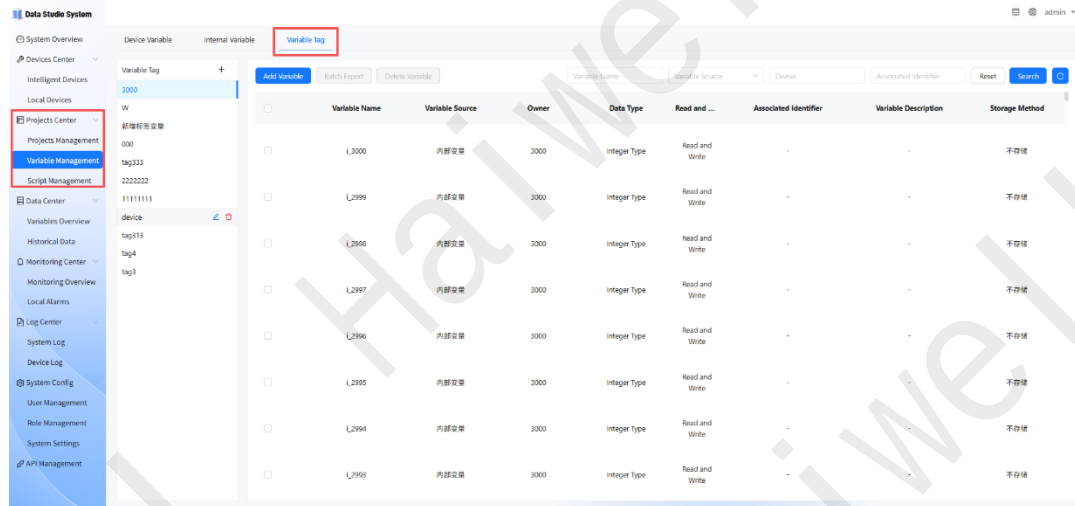


Figure65 Variable Tags

To use this function, enter the Variable Management page and switch to the Variable Tags tab. Click the Add button to create a tag and associate variables. After saving, variables can be quickly filtered by tag in each function module. Removing a variable from a tag only removes the tag association and does not delete the original variable. This function effectively reduces the selection cost in scenarios with a large number of variables, supports unified data organization by business scenario, facilitates standardized delivery, and keeps tags independent from the original variables for safe and reliable use.

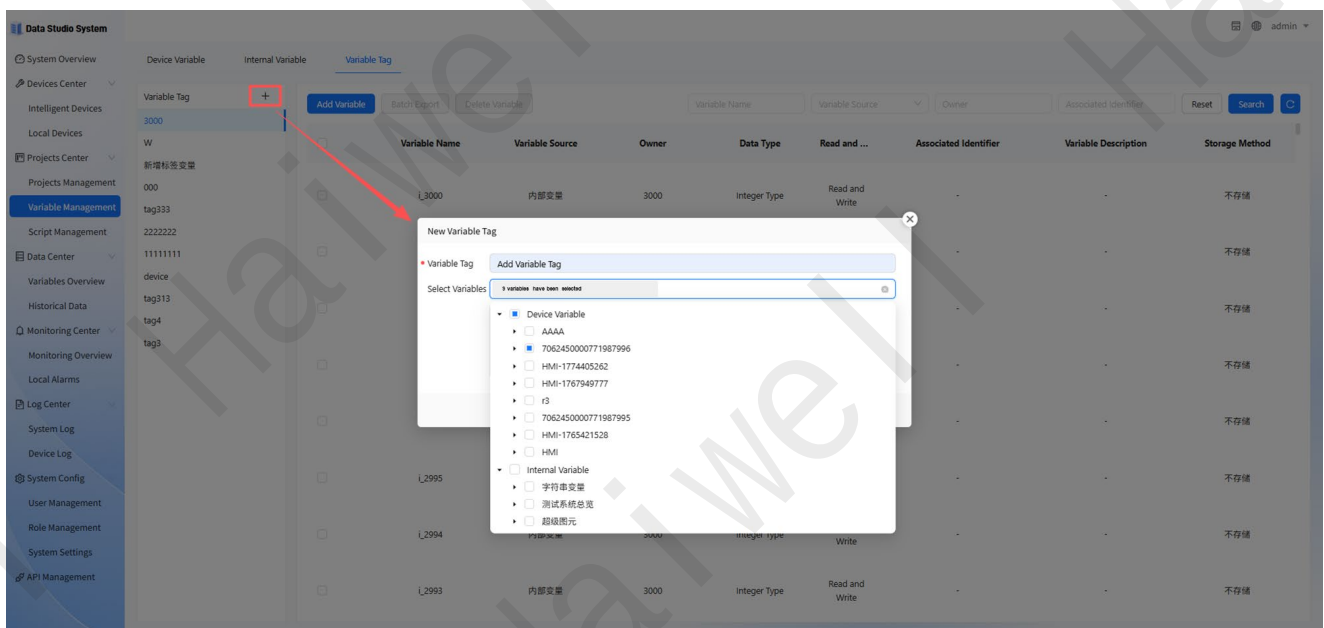


Figure66 Add Variable Tag

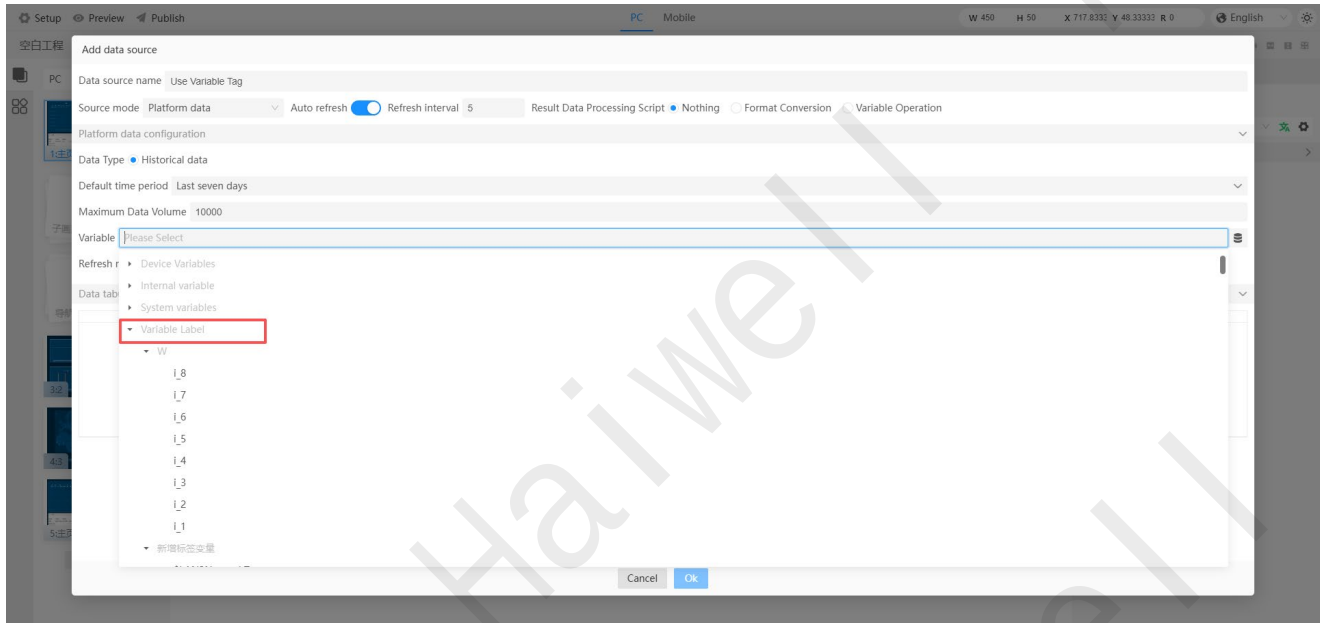


Figure67 Use Variable Tags

Note: Standardize tag naming rules and plan the number of tags properly to avoid including too many variables in a single tag. After modifying variable tags, related curve pages must be reselected for the change to take effect. Users without sufficient permissions cannot add, edit, or delete tags.

5.3 Script Management

After obtaining the variables reported by the device, the data can be processed further by scripts, such as data judgment and filtering. Complex logical operations can also be performed through task functions. The script code is written in Lua language. The script list displays the script name and script type, and allows users to choose whether to enable or disable the script and to view and edit the published code.

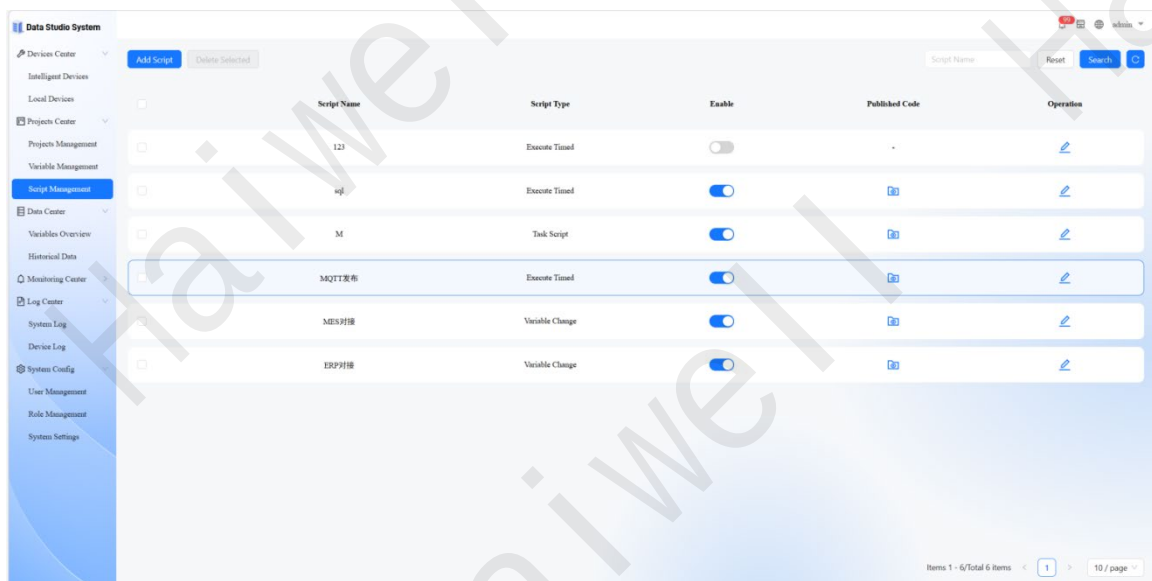


Figure68 Script List

(1) Add Script

Click on **【Create Script】** configure the relevant information in the pop-up window, and create the

script event. For detailed information, please refer to [Haiwell College | Scripts](#).

① Variable Change Script

A script that is triggered when a single or multiple specified variables meet the set conditions;

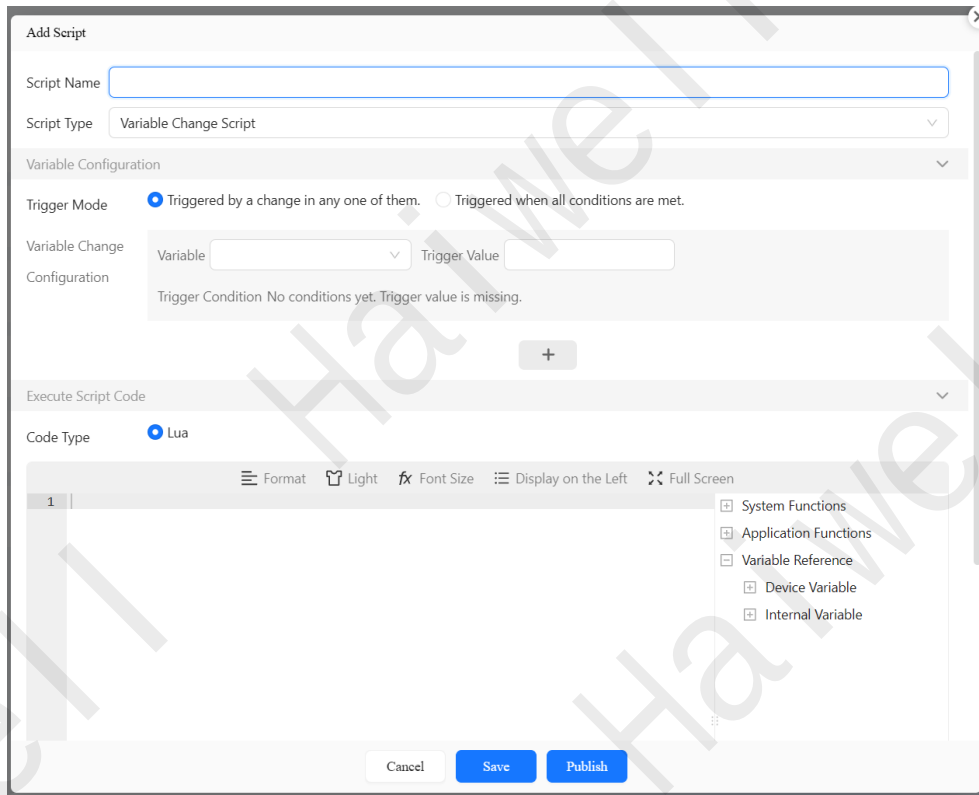


Figure69 Variable Change Script

② Schedule Execute Script

The script is triggered repeatedly according to the set time, and it performs data writing operations such as connecting to third-party platforms and databases within the specified intervals.

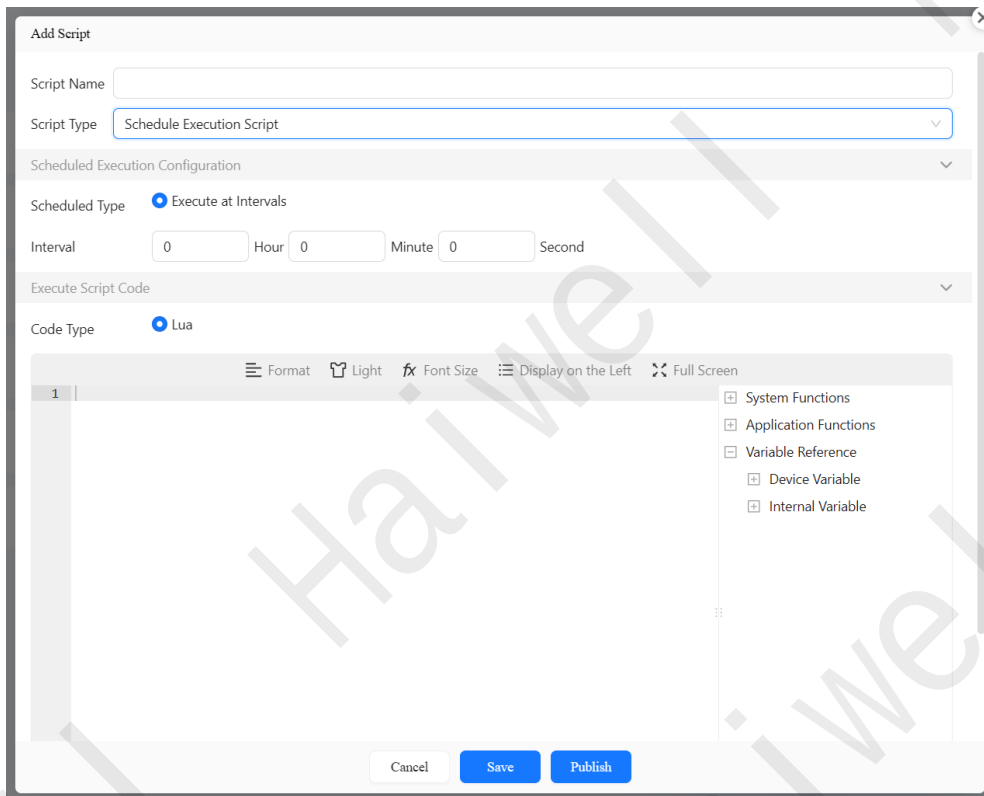


Figure70 Script Execution Timed

③ Task Script

It supports script-based operations such as connecting to third-party platforms and databases to write data. It needs to be used with the button component. Simply select Execute Script.

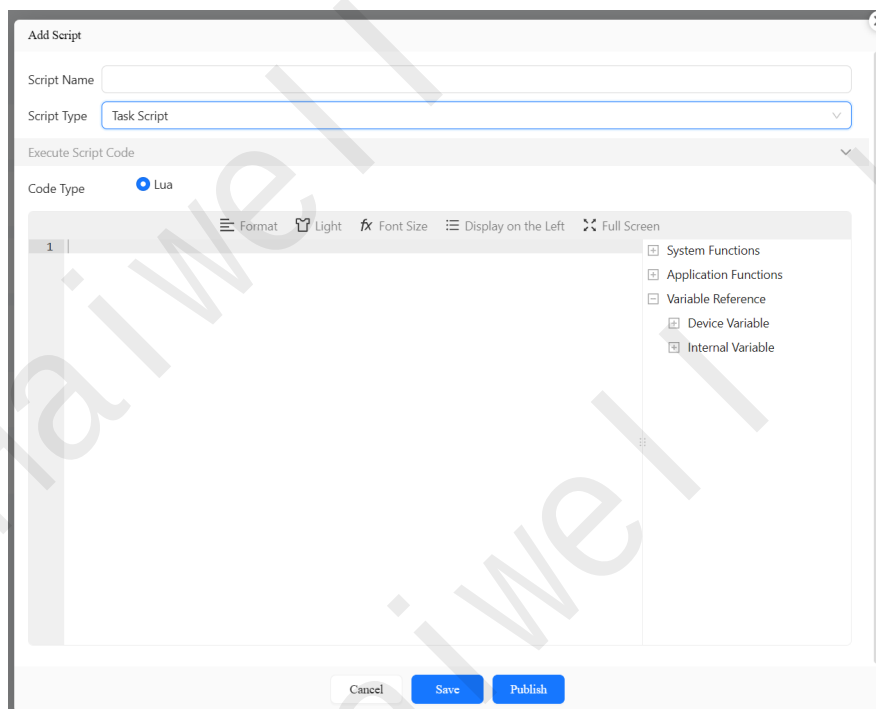


Figure71 Task Execution Script

(2) Application Function

It supports connecting to external data by configuring MySQL, MQTT, and HTTP protocols.

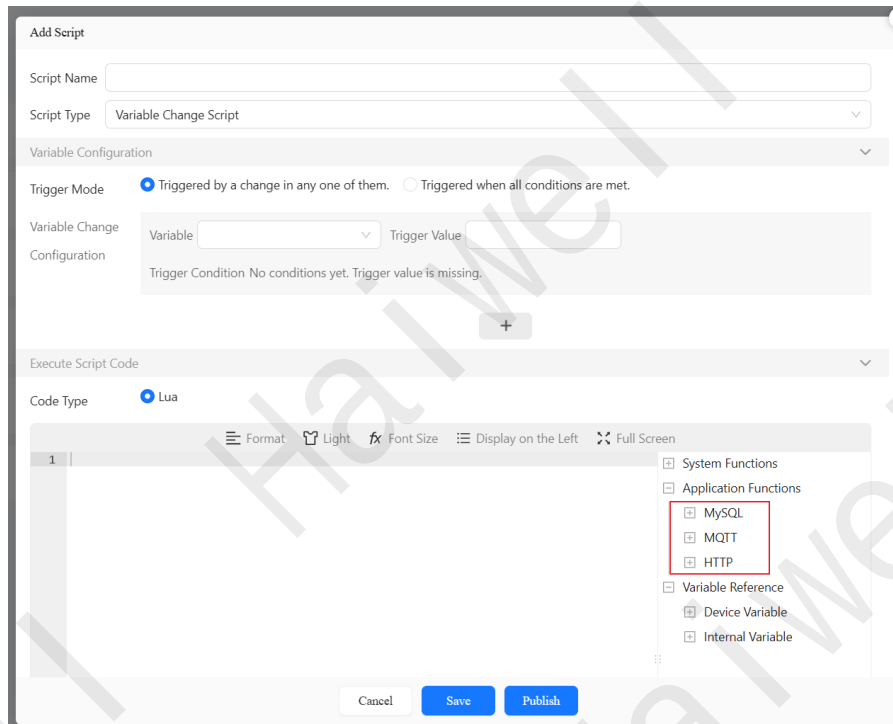


Figure72 Application Function

Note: Some functions are only supported on the Pro series.

① MySQL

The method for connecting to the database is shown in the diagram.

By calling `mysql.connect(connString)` and passing a connection string in the format `user:password@tcp(host:port)/dbname` (replacing with actual database credentials, address, and database name), you obtain the database connection object `conn`. Proceed with database connection operations.

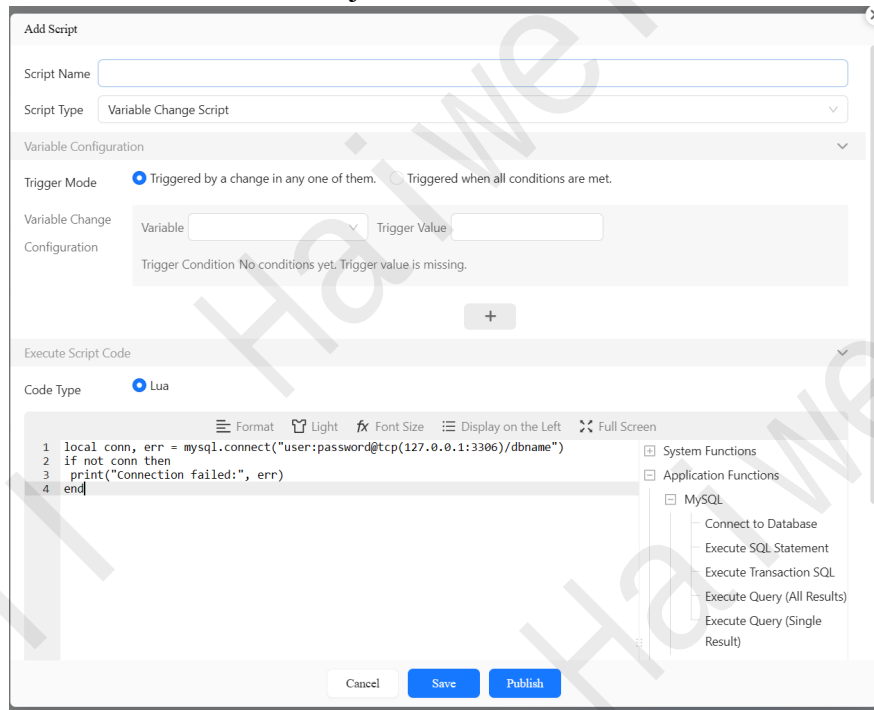


Figure73 MySQL Configuration

② MQTT

1) Step 1: Create a MQTT Client Object

Call `"mqtt.new_client(uri, client_id, username, password)` The method takes the MQTT service address, the client's unique ID, and authentication information as input and creates a client object.

2) Step 2: Connect to the MQTT Server

Call `client.connect()` method attempts to connect to the server and determines the connection status based on the return result.

3) Step 3: Post a Message to the Specified Topic

Call `client.publish(topic, payload)` method publishes a message to the specified topic and determines the publication status based on the returned result.

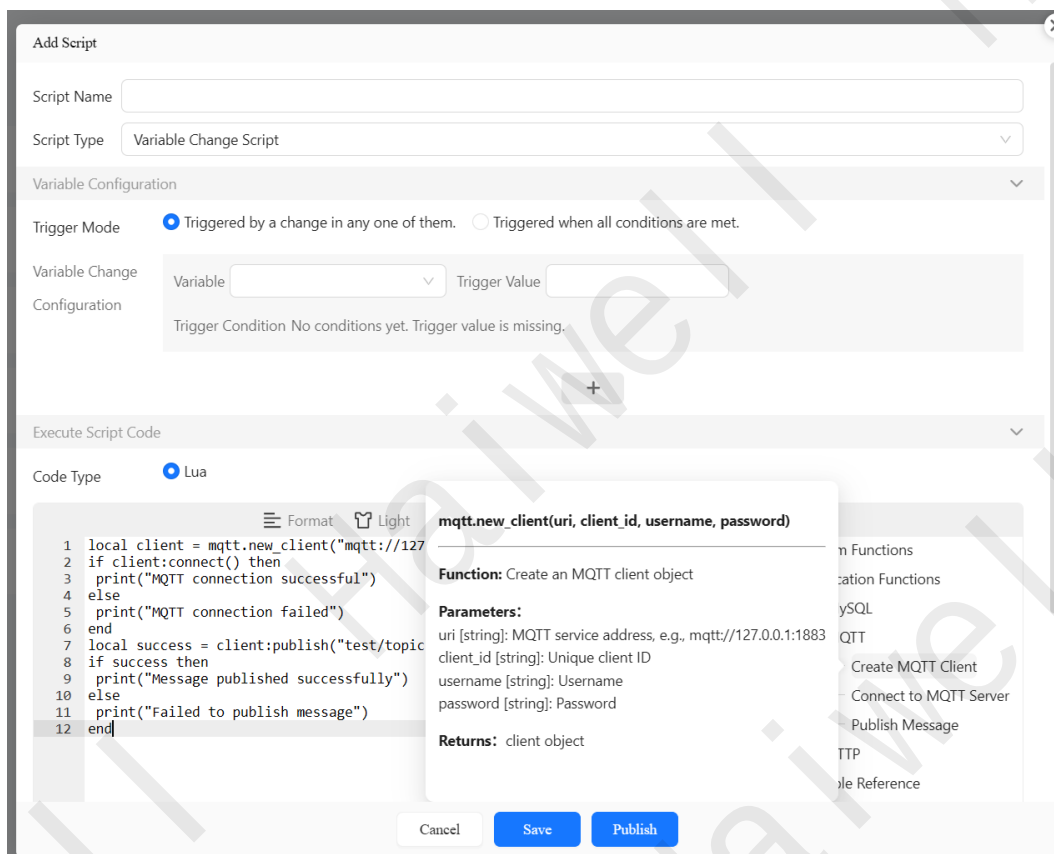


Figure74 MQTT Configuration

③ HTTP

1) Instructions for Using HTTP GET Requests

Function : Initiates an HTTP GET request to retrieve data from external interfaces (such as device status, public API data, etc.).

Parameter: url (target API address, such as http://example.com/api).

Returns: res(response object, containing status code and body response content) and err(error message, nil if no error).

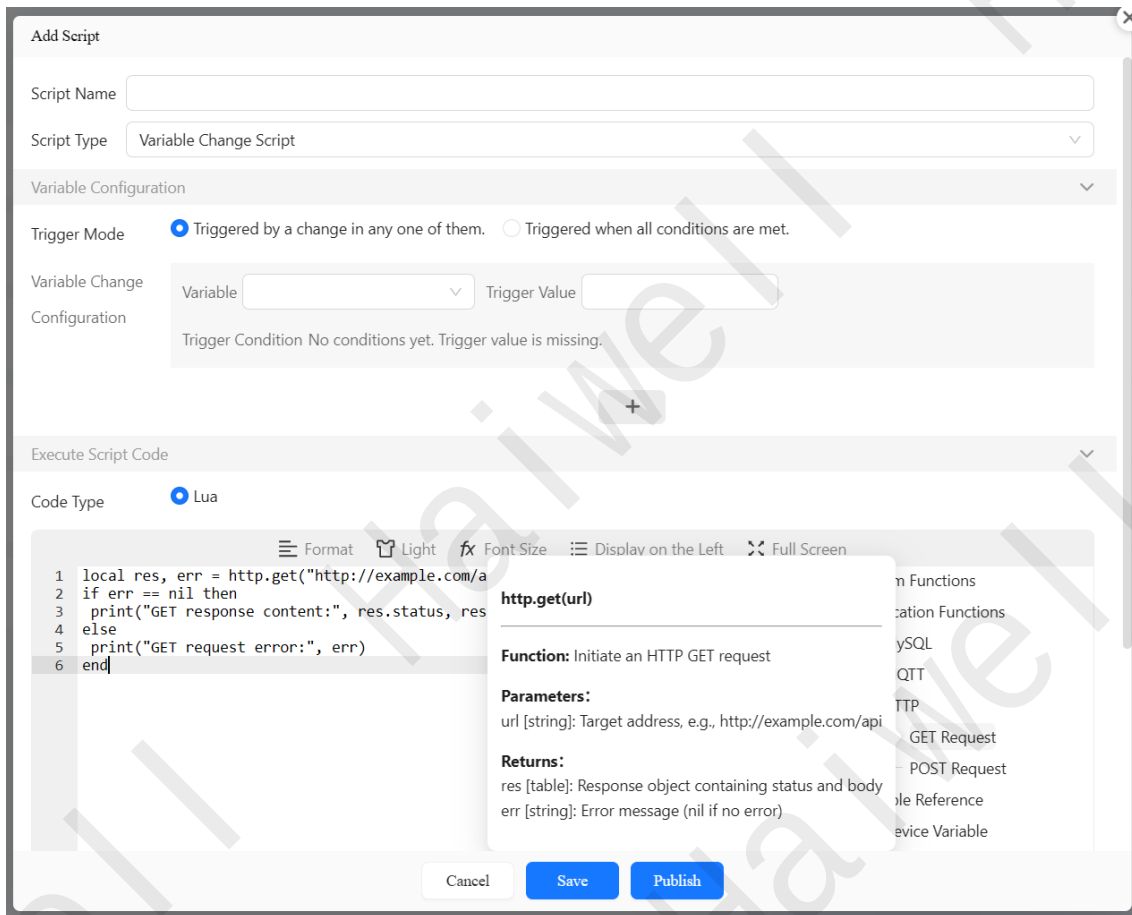


Figure75 GET Request

2) HTTP POST Request Description

Function: Initiates an HTTP POST request to submit data to external interfaces (such as issuing device control commands).

parameter:

URL: The target API address (e.g., http://example.com/api/login);

Content_type: The type of request content (e.g., application/json indicates JSON format data);

Body: The content of the request body (usually in the format of a JSON string).

Returns: res(response object, containing status code and body response content) and err(error message, nil if no error).

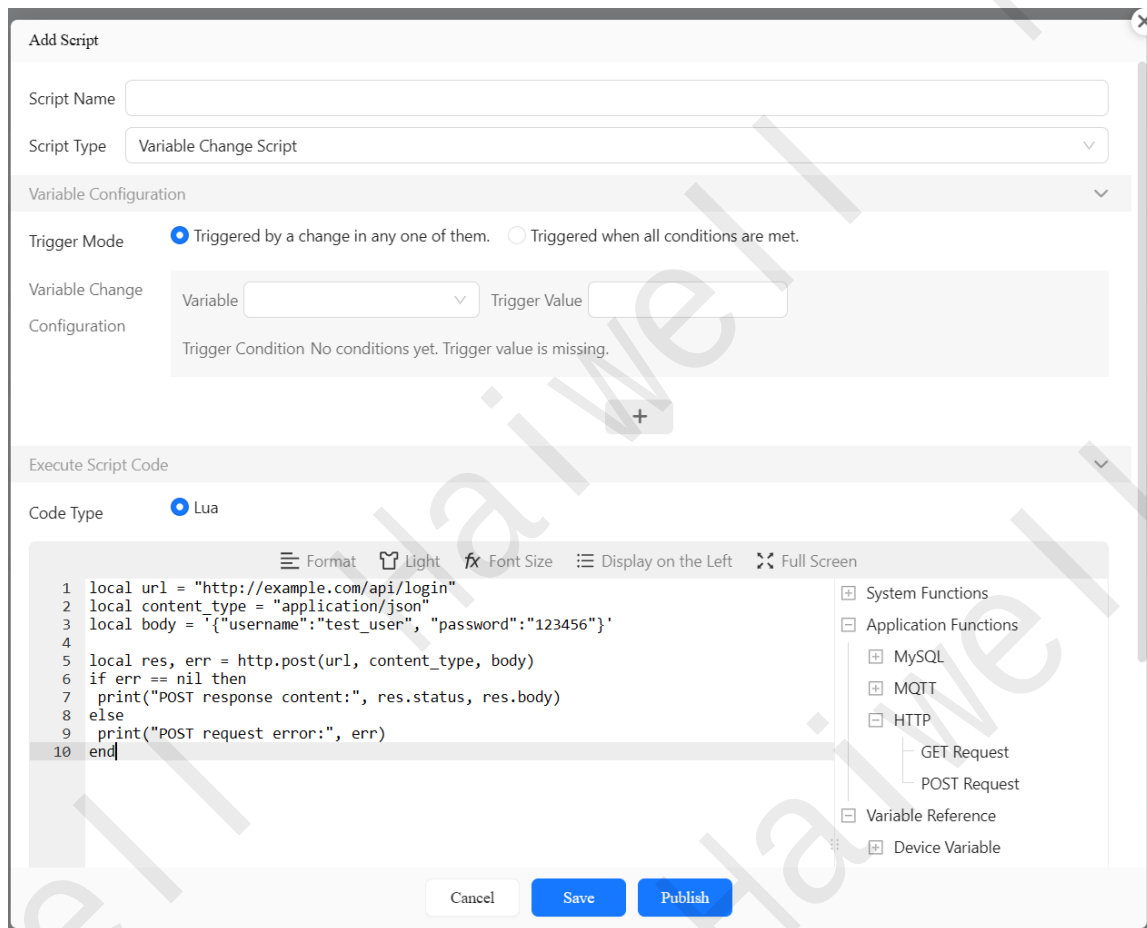


Figure76 POST Request

6. Data Center

6.1 Variable Overview

It supports viewing the basic information and change trends of all synchronized variables , including variable name, online status, data type, device/internal variable group, and associated identification information.

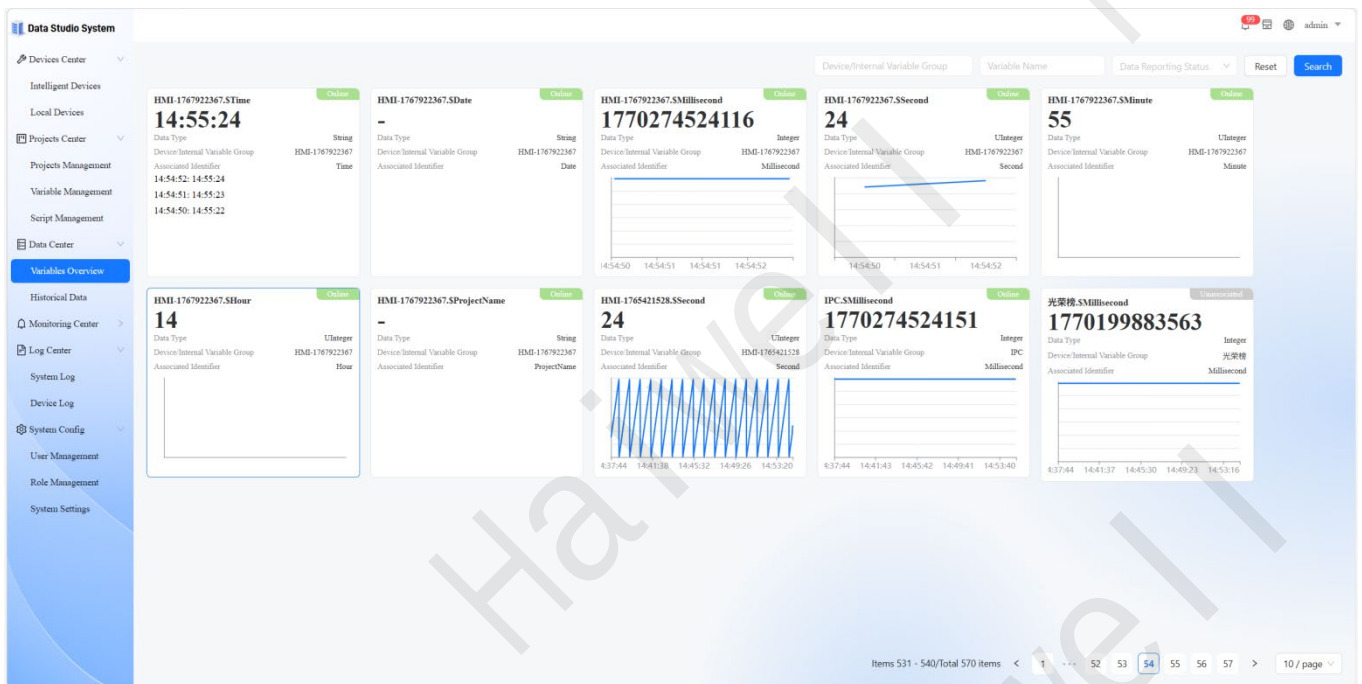


Figure77 Variable Overview

(1) Variable Data Details

Click **【Variable Visualization Chart】** to view the variable data details. Users can filter by time period to query data, or export data within a specific time period according to their needs.

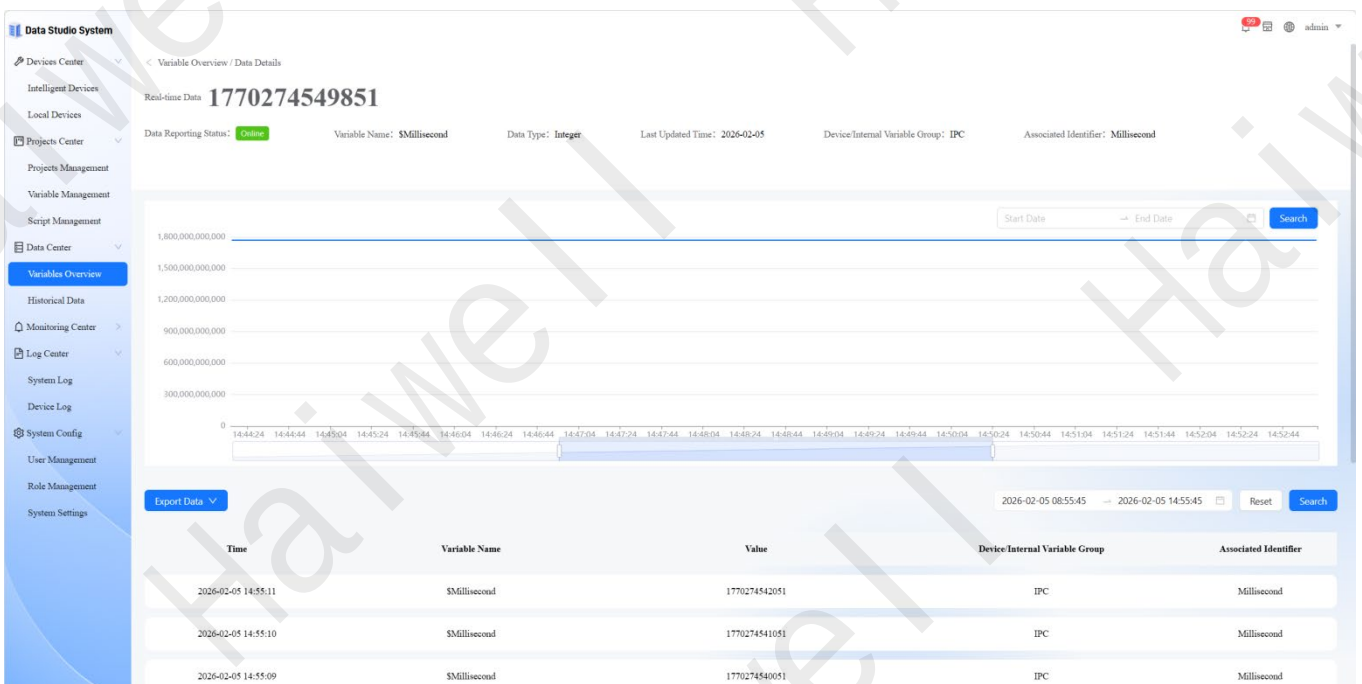


Figure78 Variable Data Details

6.2 Historical Data

Historical data records the historical data of synchronized variables in all intelligent devices associated with the current intelligent server.

Note: Initial reports from devices will not be stored by default. You need to configure the storage of

variables for the devices you are using; otherwise, they will not be recorded in the historical data.

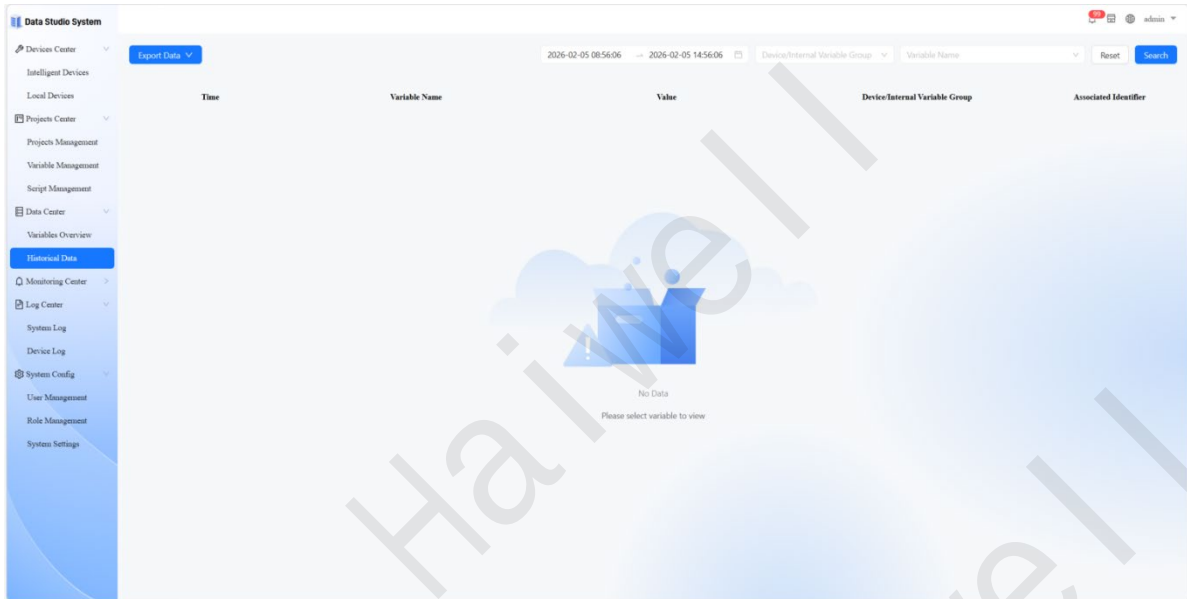


Figure79 Historical Data List

7. Monitoring Center

The monitoring center possesses centralized management capabilities for on-site monitoring and alarm events. It can achieve unified monitoring of the operating status of on-site device, centralized collection and efficient handling of alarm information, helping maintenance personnel to manage the on-site situation in one stop and improve maintenance response efficiency. Details are as follows:

7.1 Monitoring Overview

The monitoring overview module supports centralized and unified management of EZVIZ cloud cameras and local cameras. In addition to overall device control, it also supports flexible display of the monitoring screen in 4/6/9 grid layouts. This function enables seamless linkage between remote and local monitoring, breaking spatial limitations and allowing for more efficient and convenient integration of cross-regional monitoring resources. Specific operation is as follows:

(1) Cloud Camera

When configuring a cloud camera, you need to add the cloud camera's account, such as the account information registered with EZIVZ Cloud. After configuration, you can add cameras under this account. After adding, you can preview the monitoring screen when the camera is online. The specific steps are as follows:

① Account Configuration

It supports adding fields such as account name, brand, APP Key, APP Secret, region, and remarks. For APP Key and APP Secret, customers need to register an EZVIZ developer account, create an application, and bind the customer's application key in the Haiwell Cloud platform system.

EZVIZ Cloud developer accounts come in two types: personal and enterprise. For details, please refer to the [EZVIZ Open Platform](#). The following example uses a personal account to demonstrate how to access the EZVIZ cloud camera feed via Haiwell Cloud :

Step 1: Apply for an EZVIZ developer account

Log in to your personal account on the EZVIZ Cloud Open Platform (if you don't have an account, please register first).

Open Platform South America

Let us join EZVIZ [Already an account? Login >](#)

* Country/Region Please select Country/Region

* E-mail Please enter your Email and click on "Verify" to receive your verification code: Enter your email

* Verification code Please enter the verification code below: Enter verification code Verify

* Password Enter your password

* Confirm Password Confirm your password

Next step

Copyright ©2025 EZVIZ Inc. All rights reserved. [Cookie Policy](#) [Cookies Preferences](#) [Privacy Policy](#) [Terms & Conditions](#) [DPA](#)

Figure80 User Registration

Step 2: Obtain APP Key and Secret

Go to the EZVIZ Open Platform console, go to My Account - Application Information, and copy the APP Key and Secret from the application key on the right side of the interface;

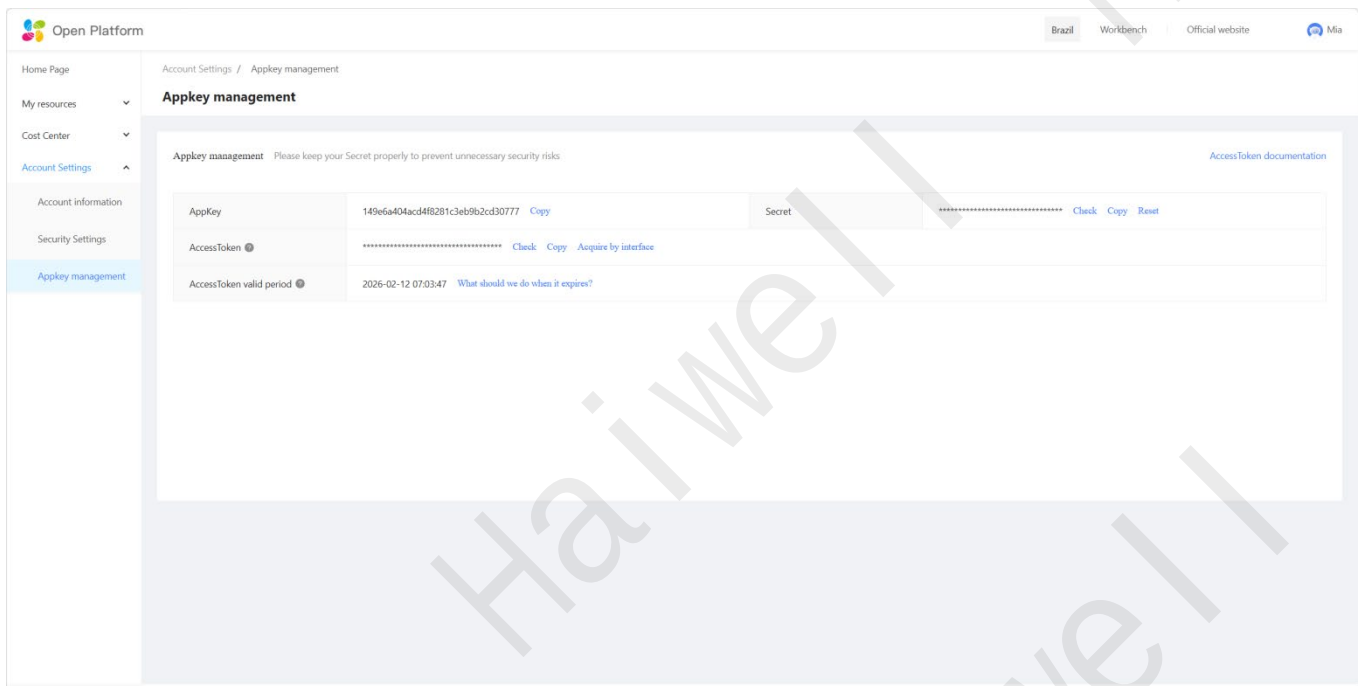


Figure81 Key Viewing

② Add Camera

Step 1: Parameter Configuration

Follow the on-screen instructions to complete the information selection and filling process: First, select the camera type, which defaults to "EZVIZ Cloud Camera"; then select the account associated with the camera, which must be selected from the list of added accounts; finally, manually enter the information for each field, the functions of which are as follows:

Camera Name: Required field. It is recommended to use a easily recognizable name (e.g., "East Corner Camera of Workshop").

Serial number and verification code: Required fields, must be completely consistent with the information marked on the camera body;

Video playback password: Optional, 1 to 32 characters of video playback password information;

Channel number: Required field. The system default value is 1. If you are adding a hard disk recorder, you need to fill in the specific number of the corresponding monitoring channel. If you are adding a regular camera, you can keep the system default value and do not need to change it.

Note: This is an optional field. You can fill in additional information such as the camera's installation location and purpose according to your actual needs to facilitate subsequent device management.

Step 2: Previewing and accessing monitoring footage

After the camera is successfully added, you can view the monitoring footage in three ways:

1. In the **【Camera Management】** list, find the target camera, click the preview button in the operation column, and you can directly view the real-time monitoring screen;

2: Enter the **【Monitoring Overview】** module, select the target camera in the layout configuration section, and connect its image to the 4/6/9 grid screen for centralized display;

3. Open the Web configuration editor, drag the Camera component from the left component bar to the canvas, select the added camera in the component property settings to complete the binding, and then the monitoring screen can be displayed in the configuration project.

Note: The current version only supports EZVIZ cloud cameras. When selecting a camera model, it must support EZVIZ cloud functionality. Please confirm the specific model with EZVIZ customer service.

(2) Local Camera

Adding a local camera only requires filling in the camera name , protocol type , and RTSP address . Here are the key points:

① RTSP Address Composition Rules

Mainly consists of: rtsp:/ username : password @ camera IP : port / RTSP path

(Example: rtsp://admin:123@192.16.1.1:554/h264/ch1/main/av_Stream)

Note: Specific address rules can be obtained by contacting the corresponding brand's customer service, and are subject to the actual configuration of the device.

② Mainstream Brand RTSP Path Comparison Table

Table 2 Mainstream Brand RTSP Path Comparison

Brand	Bitstream Type	Path Example (Suffix Part)
Hikvision (some models)	Main stream	/h264/ch1/main/av_Stream
Hikvision (some models)	Sub-stream	/h264/ch1/sub/av_Stream
EZVIZ (some models)	Main stream	/streaming/channels/101 (101 = Channel 1 main stream)
EZVIZ (some models)	Sub-stream	/streaming/channels/102 (102 = Channel 1 sub-stream)
LeOrange (Dahua Group)	Main stream	/cam/realmonitor?channel=1&subtype=0 (subtype=0 = main stream)
LeOrange (Dahua Group)	Sub-stream	/cam/realmonitor?channel=1&subtype=1 (subtype=1 = sub-stream)

③ Precautions

1. Protocol limitations: Currently only cameras associated with the RTSP protocol are supported;
2. Path concatenation: You need to prepend "username:password @IP :port" (e.g., Hikvision's default port is 554) before the above path . Please refer to the example for the complete RTSP path;
3. Model differences: The firmware paths may vary slightly for different models of the same brand. It is recommended to refer to the device manual or manufacturer's technical documents for details.

(3) Overview

The overview supports displaying the monitoring images of cloud cameras and local cameras in 1/4/9 grids. Simply select the desired grid style to associate the added cameras.

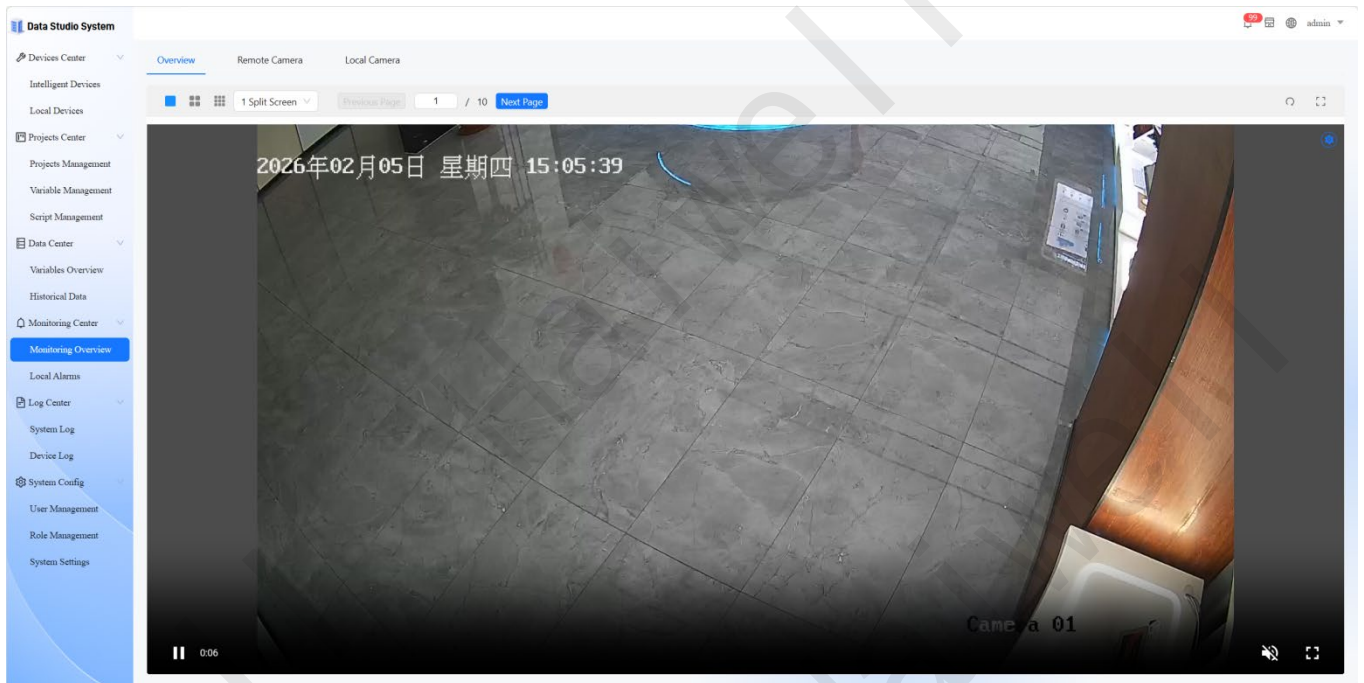


Figure82 Overview

7.2 Local Alarm

The local alarm function can centrally display alarm information reported by all intelligent devices within the local area network, and supports core operations such as centralized viewing and alarm confirmation of alarm information. This helps maintenance personnel quickly grasp the alarm status of devices within the local area network and handle them efficiently. Details are as follows:

(1) Local Alarm List

It supports displaying key information such as basic device information, alarm variables, alarm types, alarm content, and alarm time. The display style is as follows:

PN Code	Device Name	Variable	Alarm Type	Alarm Content	Alarm Time	Confirm Username	Confirmation Time	Operation
[Redacted]	1233	海为PLC_1.M7009	Alarm	2026-06-26 16:33:46海为PLC_1.M...	2026-06-26 16:33:46	-	-	Confirm
[Redacted]	1233	海为PLC_1.M7009	Recover	2026-06-26 16:33:46海为PLC_1.M...	2026-06-26 16:33:46	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 16:02:36内部变量_1....	2023-06-26 16:02:36	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 16:01:14内部变量_1....	2023-06-26 16:01:14	-	-	Confirm
[Redacted]	1233	海为PLC_1.M7009	Alarm	2026-01-26 15:55:56海为PLC_1.M...	2026-01-26 15:55:56	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 15:32:49内部变量_1....	2023-06-26 15:32:49	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 15:27:25内部变量_1....	2023-06-26 15:27:25	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 14:58:34内部变量_1....	2023-06-26 14:58:34	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 14:46:39内部变量_1....	2023-06-26 14:46:39	-	-	Confirm
[Redacted]	HMI	内部变量_1.变量4	Alarm	2023-06-26 14:44:18内部变量_1....	2023-06-26 14:44:18	-	-	Confirm

Figure83 Local Alarm List

(2) Batch Confirmation

After selecting the alarm information that needs to be confirmed in batches, click the **【Batch Confirm】** button to confirm in batches. The confirmation status will be synchronized with the intelligent device.

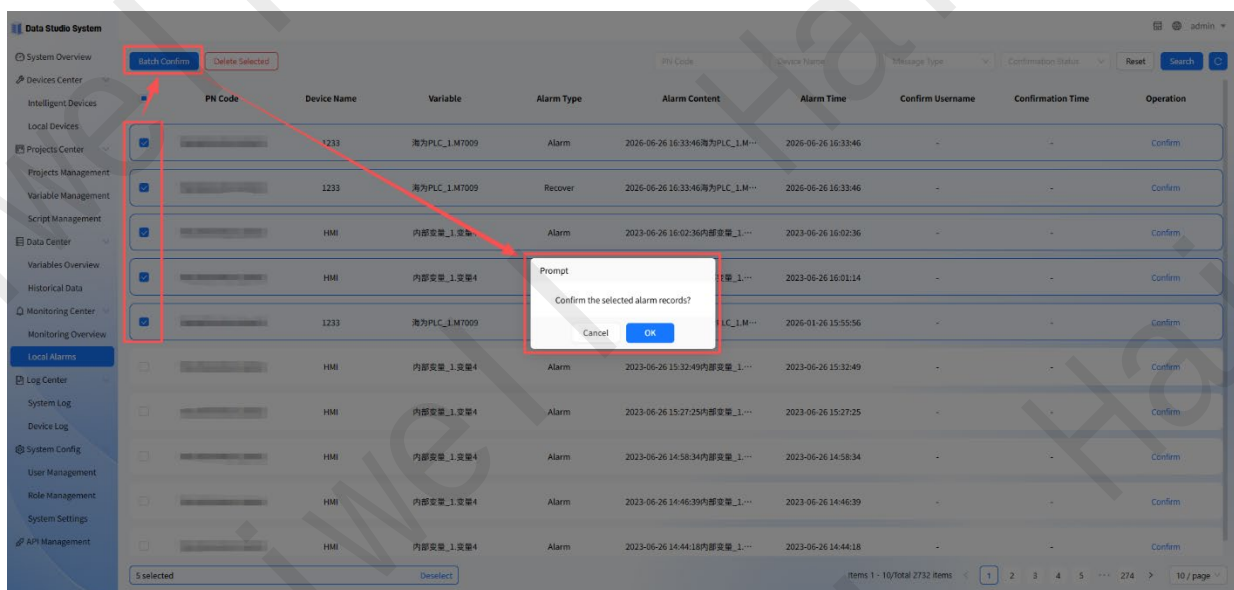


Figure84 Batch Alarm Confirmation

8. Log Center

The log center is divided into system logs and device logs, which can help users quickly locate problems and trace operation trajectories, providing data support for system operation and maintenance and device management.

8.1 System Logs

User actions can be filtered by operator, system module, and time interval to quickly pinpoint the root cause of operational problems. This module records a wide range of logs, including those from the device center, monitoring center, project management, role management, script management, system configuration,

user management, and variable management.

Operator	Module	Action	IP	Operation Time	Result
admin	Project Manage	Access Project	112.5.167.211	2026-02-05 15:03:40	Success
admin	Project Manage	Access Project	112.5.167.211	2026-02-05 15:03:17	Success
TJC	User Manage	User Login	192.168.36.87	2026-02-05 14:58:15	Success
LS	User Manage	User Logout	192.168.36.87	2026-02-05 14:57:49	Success
LS	Project Manage	Access Project	192.168.36.87	2026-02-05 14:52:21	Success
LS	Project Manage	Access Project	192.168.36.87	2026-02-05 14:52:19	Success
admin	Device Center	Sync Variable	192.168.36.98	2026-02-05 14:48:04	Success
admin	Device Center	Sync Variable	192.168.36.98	2026-02-05 14:47:47	Success
TJC	Project Manage	Access Project	192.168.36.77	2026-02-05 14:47:25	Success
admin	Project Manage	Access Project	112.5.167.211	2026-02-05 14:43:05	Success

Figure85 System Log List

8.2 Device Logs

Records the online, offline, running, and stopped status of associated devices, monitors device online rate and operational health in real time, quickly locates problems such as device offline and data transmission failure, and assists in device maintenance and fault repair.

Device Name	PN Code	Device Type	Status	Time
HMI-1770268128	7062559132800160003	A7 Pro	Online	2026-02-05 13:09:04
HMI-1770268128	7062559132800160003	A7 Pro	Offline	2026-02-05 13:09:04
HMI-1770268128	7062559132800160003	A7 Pro	Online	2026-02-05 13:08:49
HMI-1770262861	7062559182800157002	A10 Pro	Online	2026-02-05 11:41:22
HMI-1770262861	7062559182800157002	A10 Pro	Offline	2026-02-05 11:41:22
HMI-1770262861	7062559182800157002	A10 Pro	Online	2026-02-05 11:41:02
IPC	7092459400820186001	R15	Online	2026-02-05 09:51:22
IPC	7092459400820186001	R15	Offline	2026-02-05 09:51:05
HMI-1767922367	7052229028810173100	D4/N4	Online	2026-02-05 08:20:33
HMI-1765438557	7043059309800119007	D10 Pro-W	Online	2026-02-05 08:20:31

Figure86 Device Log List

9. System Configuration

9.1 User Management

Data Studio System supports simultaneous management by multiple users. Multiple accounts can be configured in Data Studio System to meet the management needs of different personnel for device, projects, data, personnel, alarms, etc., and to meet different use cases.

User management is used to manage users who can log in to this Data Studio System intelligent server. A default user, admin, exists with the initial password "123456". This user is the default administrator and cannot be deleted. The default admin user can modify the username and password of everyone; other users without permission can only modify their own username and password.

Account	Username	Email	Phone Number	Role	Operation
admin	Administrator	admin	-	admin	Edit Delete
admin2	admin2	-	-	1	Edit Delete
AAA	AAA	-	-	admin	Edit Delete
666	666	-	-	admin	Edit Delete

Figure87 User Management

(1) New User

Only users with the **【Create New User】** permission and the admin account can create new users. To create a new user, simply fill in the account name, password, and select the role in the **【Create New User】** pop-up window.

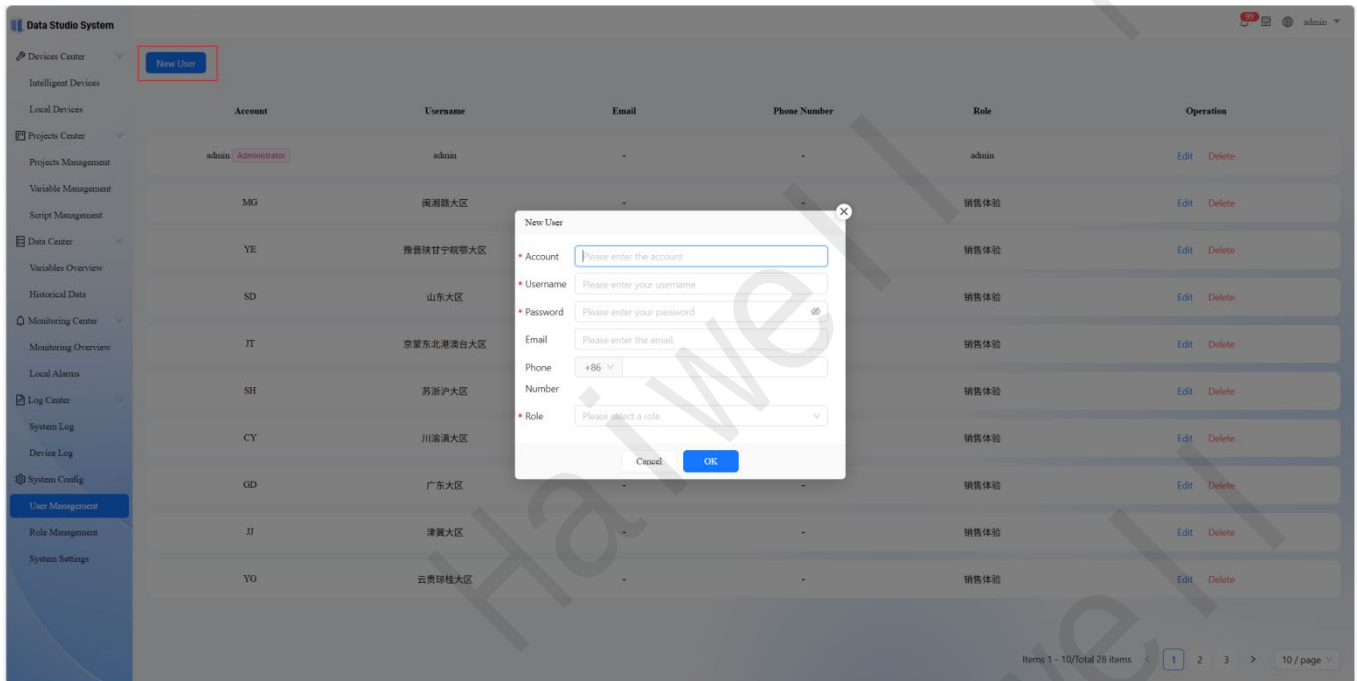


Figure88 New User

(2) Edit User Information

The default admin user can edit the user information of everyone. Other users who do not have permission can only edit their own user information. In the information editing pop-up window, users can modify their username, password, email, mobile phone number, and role.

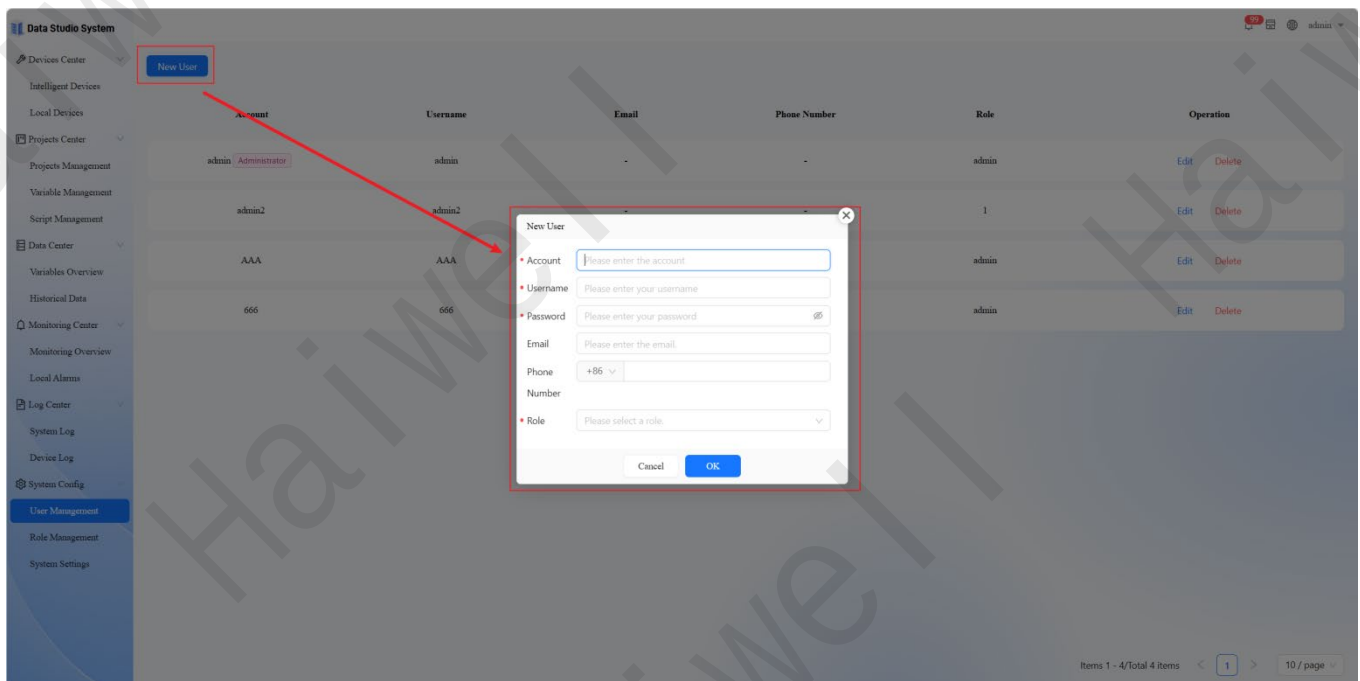


Figure89 Editing User Information

9.2 Role Management

Role management is the core module of access control in the Data Studio System. It associates permissions with users through **Roles**, enabling unified allocation and management of permissions to

ensure system data security and operational compliance. By default, the admin user has all permissions and cannot edit them. Users can add, edit, and delete roles on this interface.

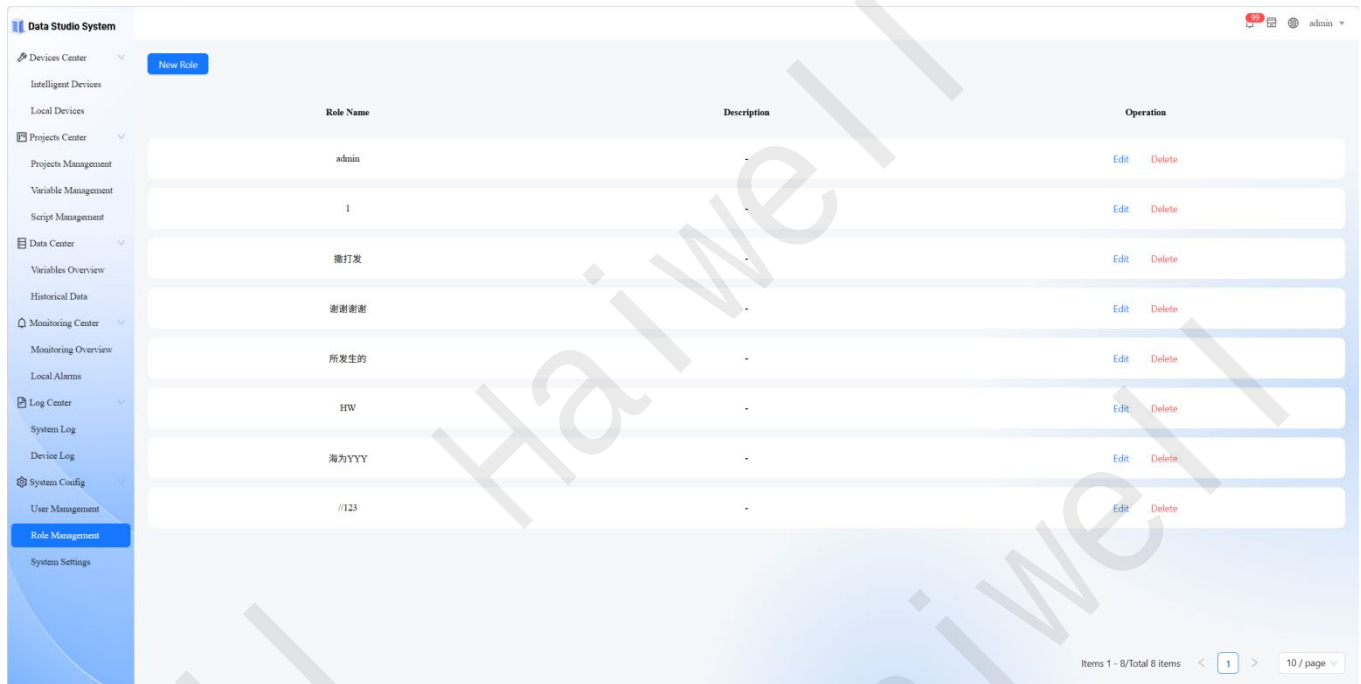


Figure90 Role Management

(1) New Role

Users with the permission to create a new role can click the **【New Role】** button, enter the role name, role description, and configure the corresponding permissions for the role.

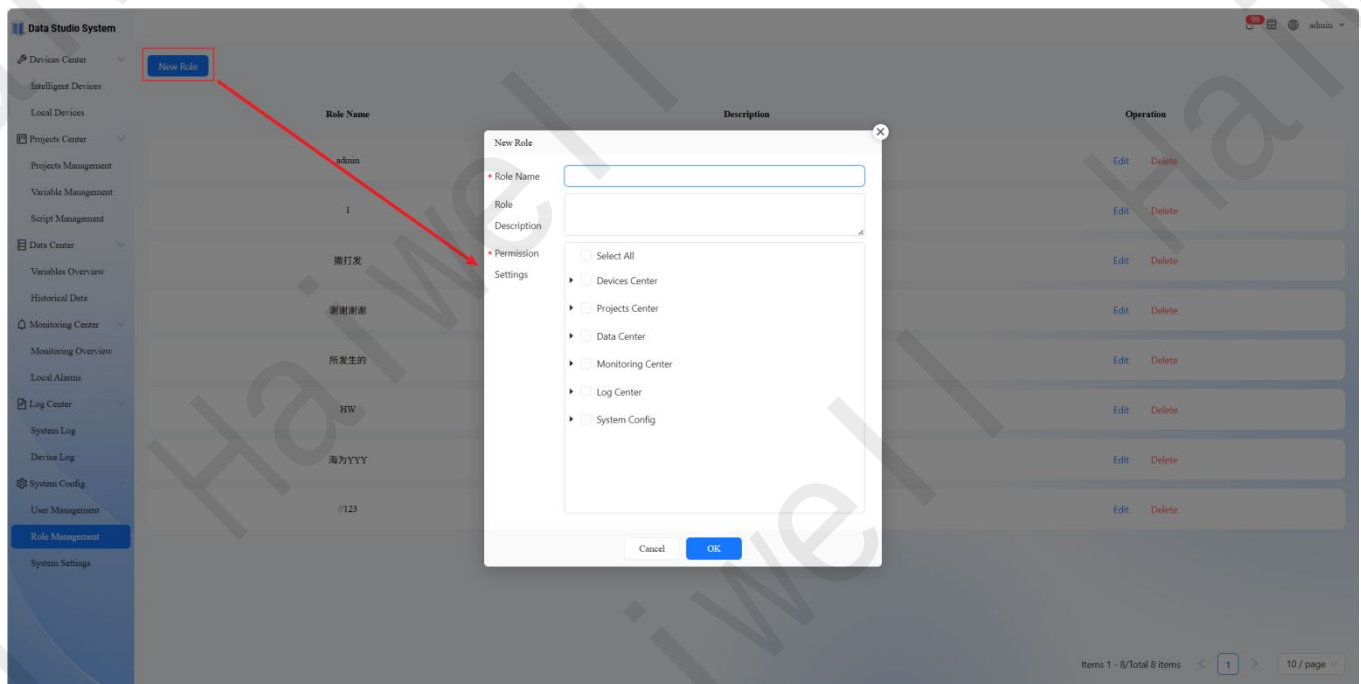


Figure91 New Role

(2) Editing Role

Users with character editing permissions can click the **【Edit】** button to modify the character name,

character description, and permission configuration in the character editing pop-up window.

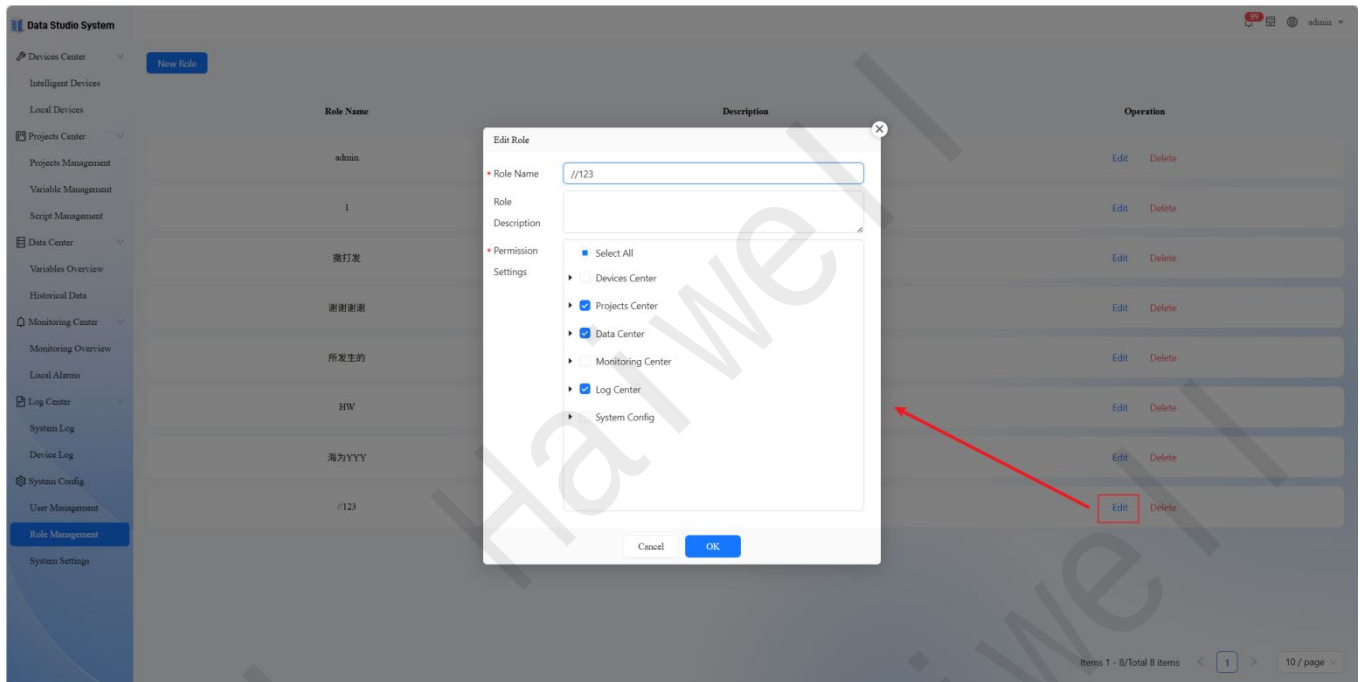


Figure92 Edit Role

9.3 System Settings

The system settings support configuration of terminal name, current time, channel server, storage, network, etc. of the intelligent server. During the initial power-on, it is recommended to configure the network first, according to the Ethernet or WIFI on site, to ensure that the intelligent server and intelligent devices such as intelligent HMI and intelligent gateway on site are in the same local area network.

(1) Device Settings

This page allows you to configure your local machine information, including editing the terminal name and terminal number; configuring network time synchronization, system language, cloud server, and selecting the current channel server.

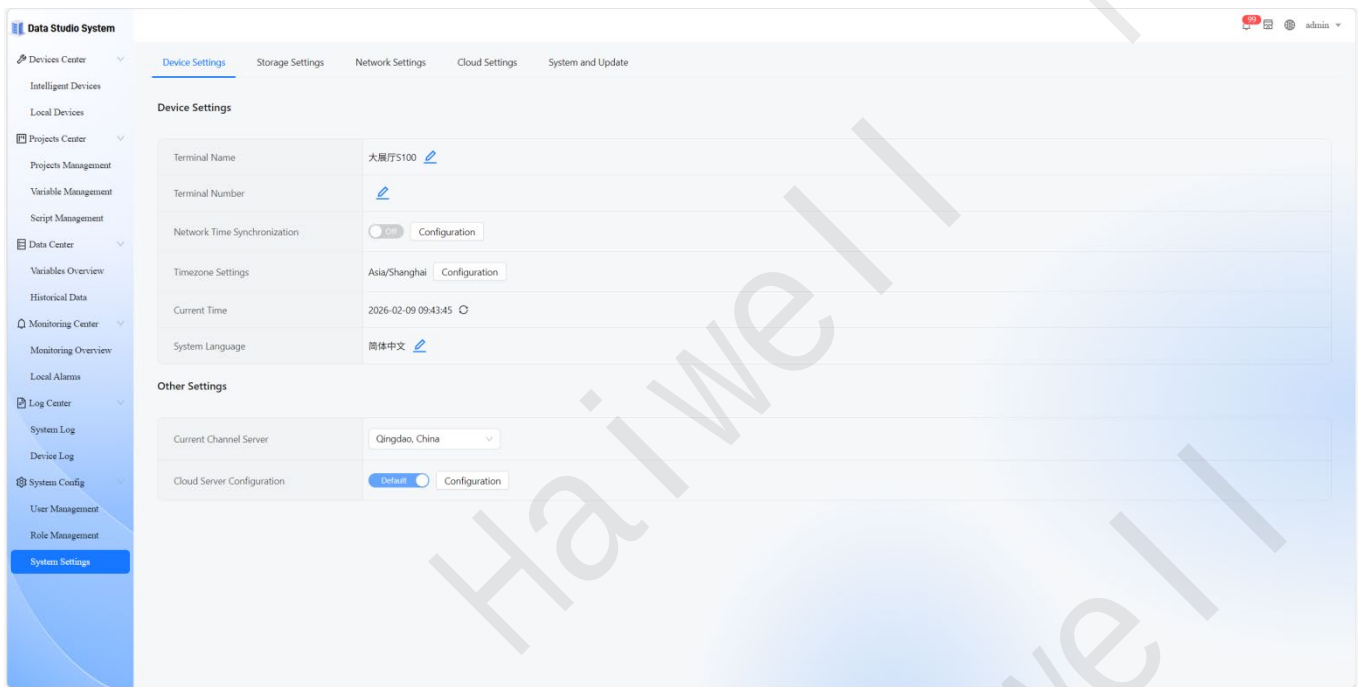


Figure93 Device Settings

(2) Storage settings

This page allows you to configure the historical data storage period, number of records, and storage size, and also allows you to view disk storage usage.

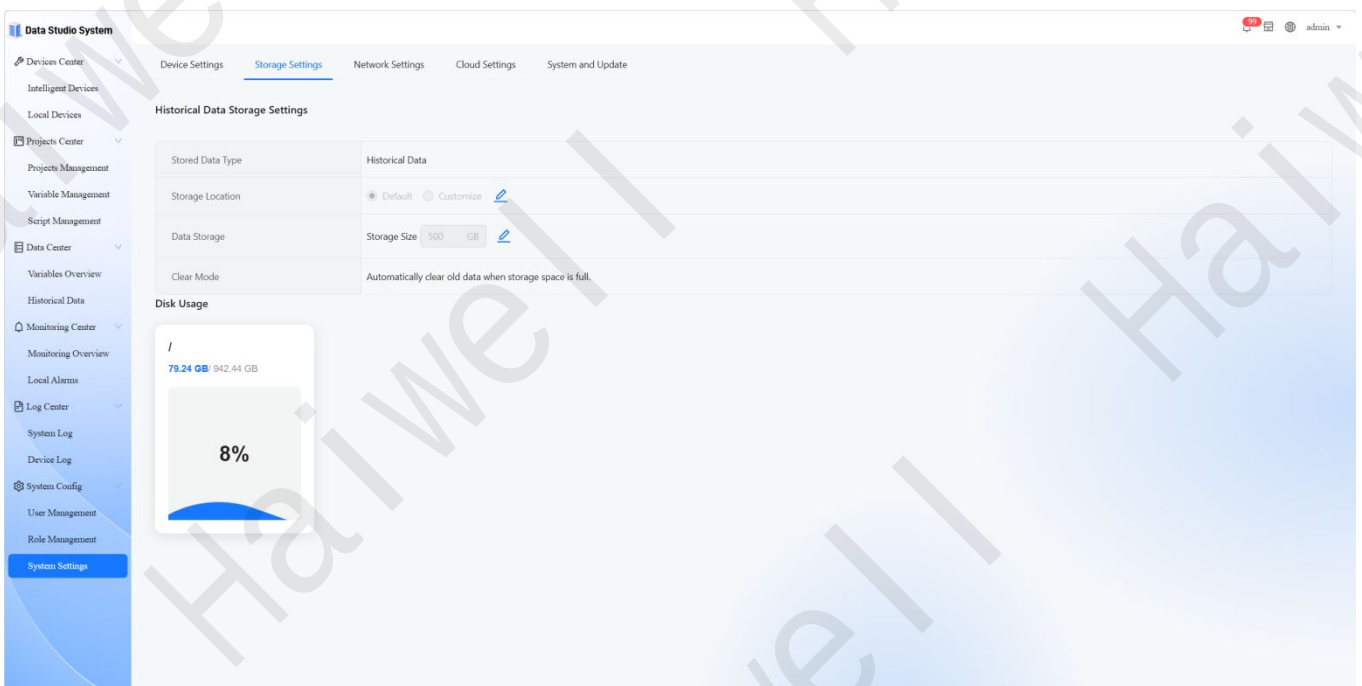


Figure94 Storage Settings

(3) Network Settings

The intelligent server supports dual network ports and WIFI connectivity. Depending on the network conditions at the site, you can choose either Ethernet or WIFI for network connection. The following two methods are supported:

① Method 1: Data Studio System Configuration

WIFI Connection:

Select the **【WIFI】** module, select the WIFI device, a pop-up window will appear asking for the WIFI password. Enter the password and click **【OK】** to connect to WIFI.

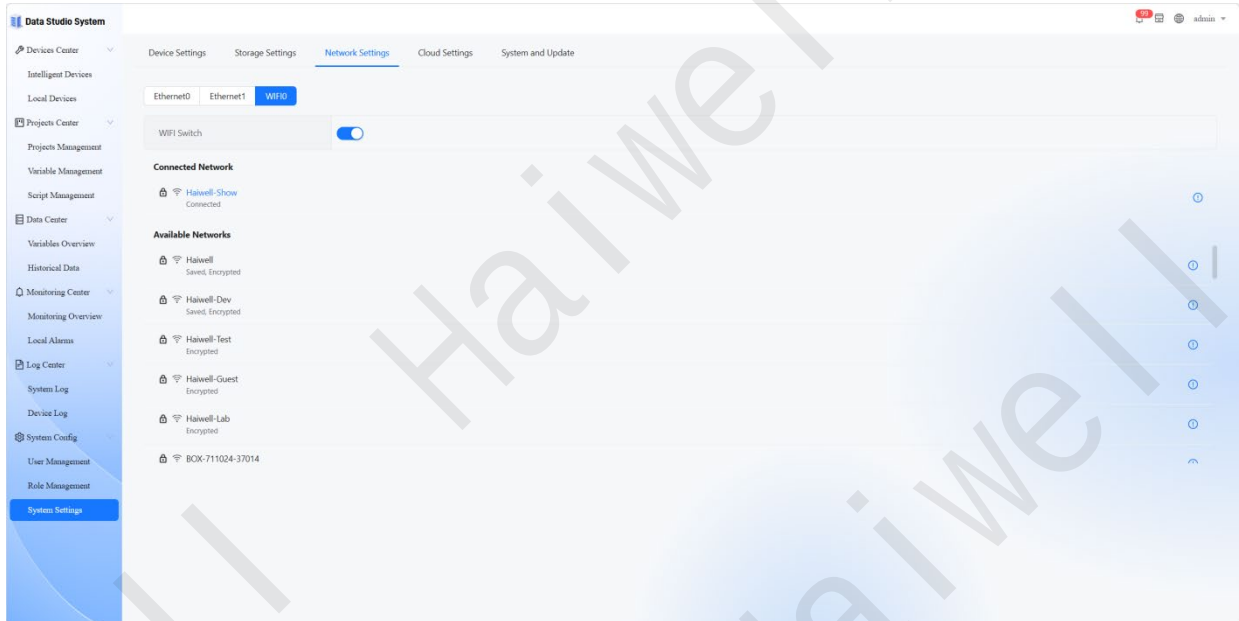


Figure95 WIFI Connection

Ethernet Port Connection:

Click on the **【Ethernet】** to enter the Ethernet configuration interface.

1) Dynamic IP:

Connect the network cable, select **【DHCP】** in the network configuration, and click **【OK】**. The device will automatically obtain an IP address.

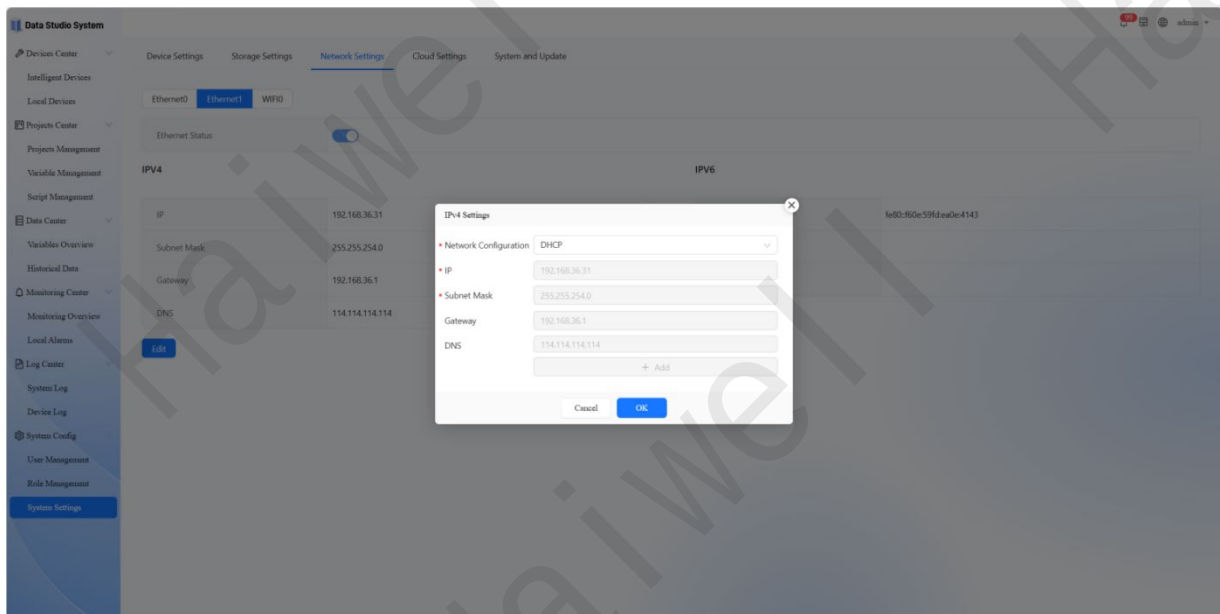


Figure96 Dynamically Obtaining IP

2) Static IP:

Connect the network cable, select **【Static】** for network configuration, enter the correct IP address, subnet mask, default gateway, and DNS, and click **【OK】** . After successful verification, the device can connect to the network via Ethernet.

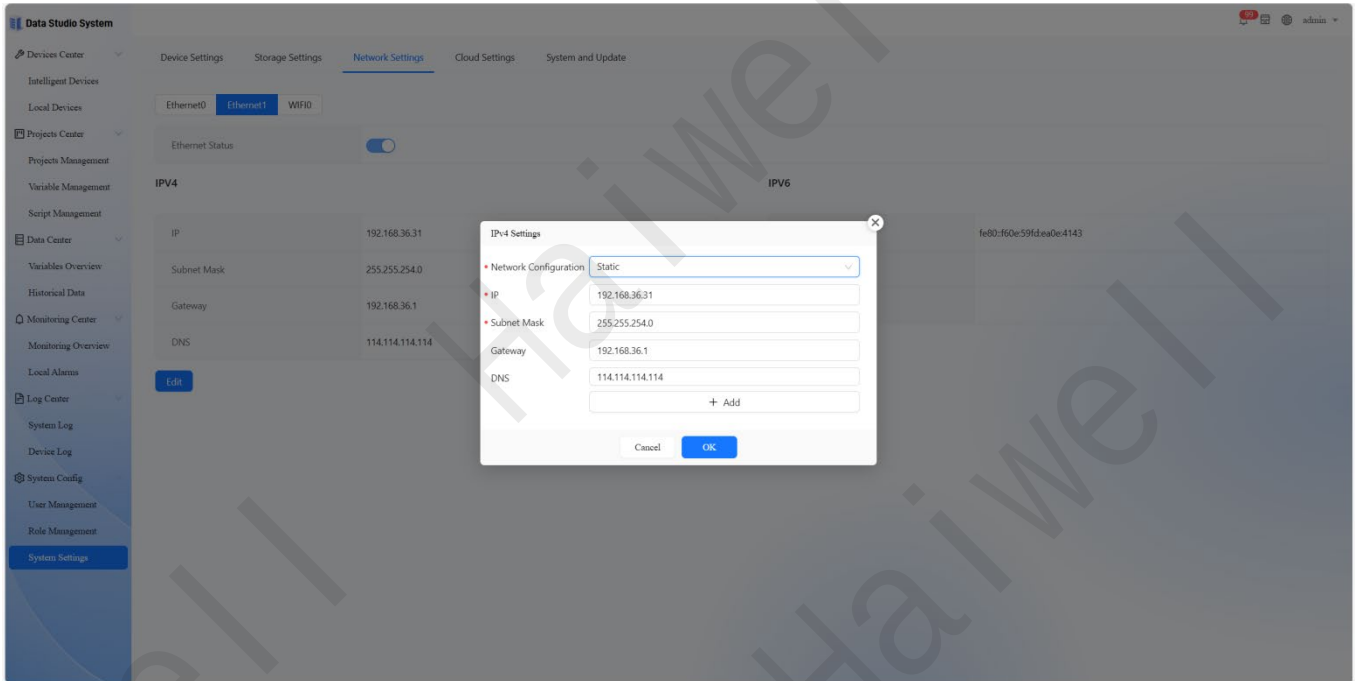


Figure97 Static IP Configuration

② Method 2: System Settings - Network Settings

Without logging into Data Studio System initially, press **【Ctrl+W】** to exit the current interface, find the configuration button in the upper right corner of the desktop, enter the system settings - network settings interface, and configure the network. For detailed instructions, please refer to: [Network Settings](#) .

Note: Once the network configuration of the intelligent server is complete, it supports accessing the Data Studio System via a PC by entering " IP address + system " , for example, " 192.168.11.1/system " , which can meet the needs of remotely configuring the intelligent server within the local area network.

(4) Cloud Settings

Cloud settings are primarily used to bind devices to personal or enterprise devices. The prerequisite for using this function is that the device can connect to the Internet normally.

① Haiwell Cloud App Download

APP:

Scan the QR code to get it directly



Figure98 Haiwell Cloud APP QR Code Download

② Haiwell Cloud APP Binding QR Code

Enter the Data Studio System, click on **【System Settings】**, turn on the cloud online status, and a QR code and PN code will pop up.

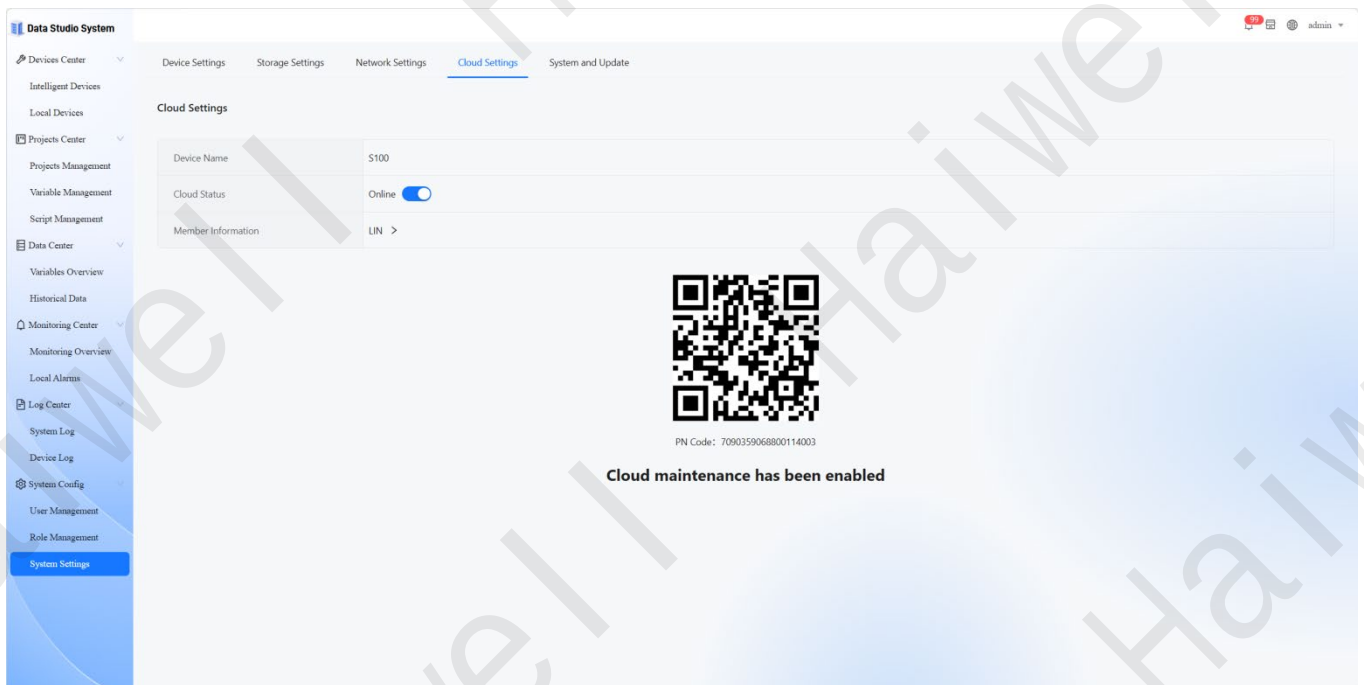


Figure99 Cloud Settings

Log in to the Haiwell Cloud APP on your mobile phone, click  the button in the upper right corner of the main interface, then click **【Scan】** in the drop-down menu. After scanning the QR code, select the addition type and click the **【OK】** button. A device binding prompt box will pop up in the upper right corner of the Data Studio System. Click **【Agree】** to successfully add the device, and users can remotely access the device.

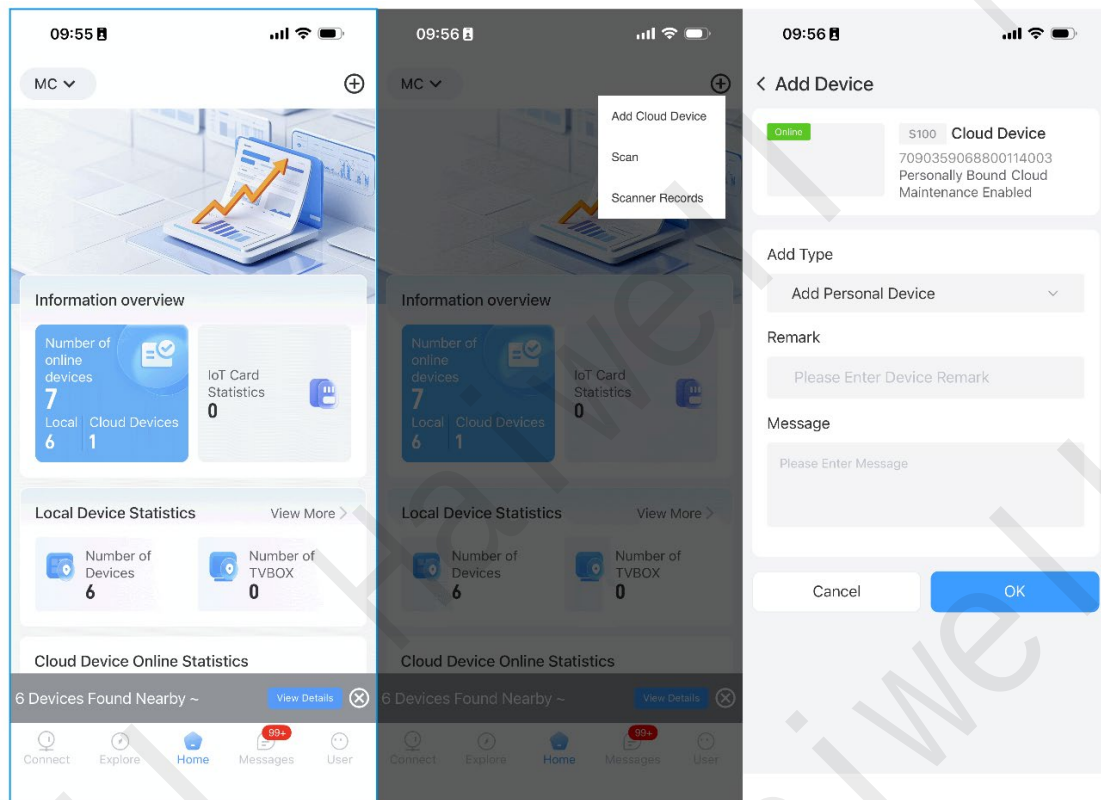


Figure100 Mobile App Binding Device

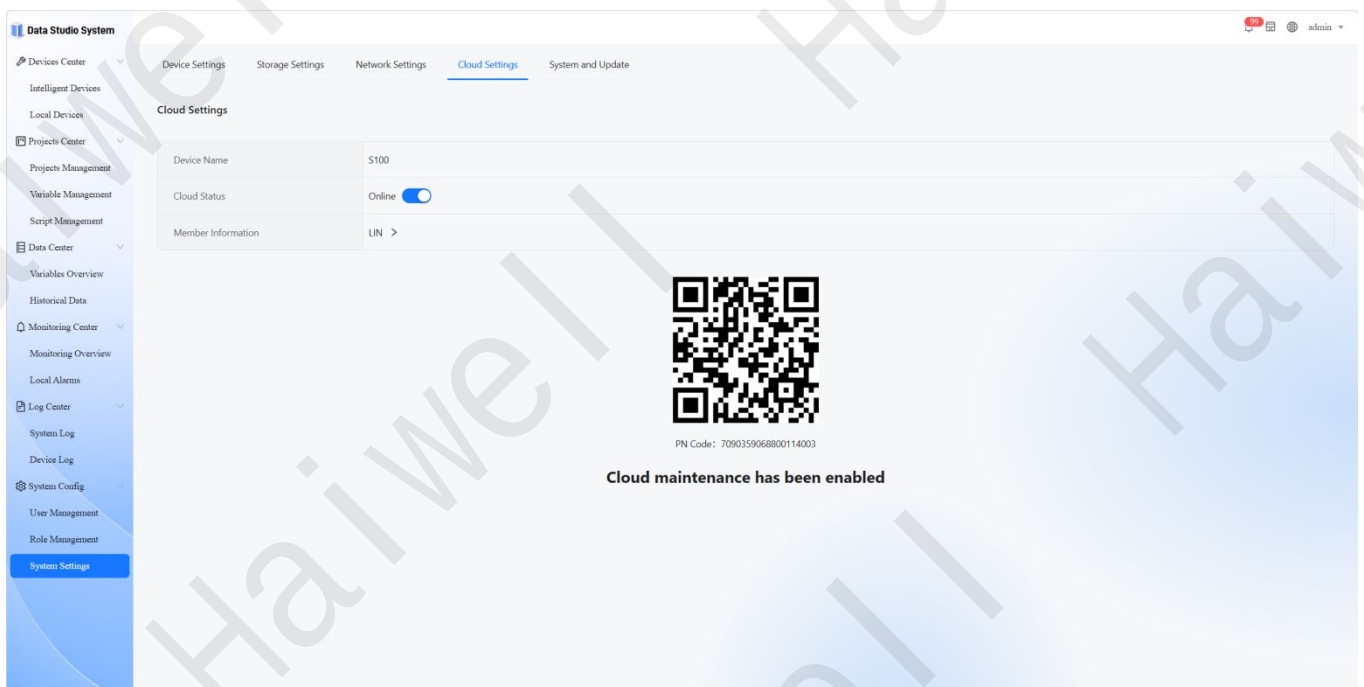


Figure101 Cloud Settings Agree to Binding

③ Remote Monitoring and Control

Open the Haiwell Cloud APP on your mobile phone, go to **【Explore】** - **【Cloud Devices】**, find the corresponding device, and click the thumbnail at the top to remotely access all accessible projects in the intelligent server.



Figure102 HaiwellLink APP Remote Access

(5) System and Updates

It displays basic information about the intelligent server, such as PN code, OS version, hardware version, and firmware version, while also providing access to the **【USB Flash Drive Update】** and **【Restart Device】**

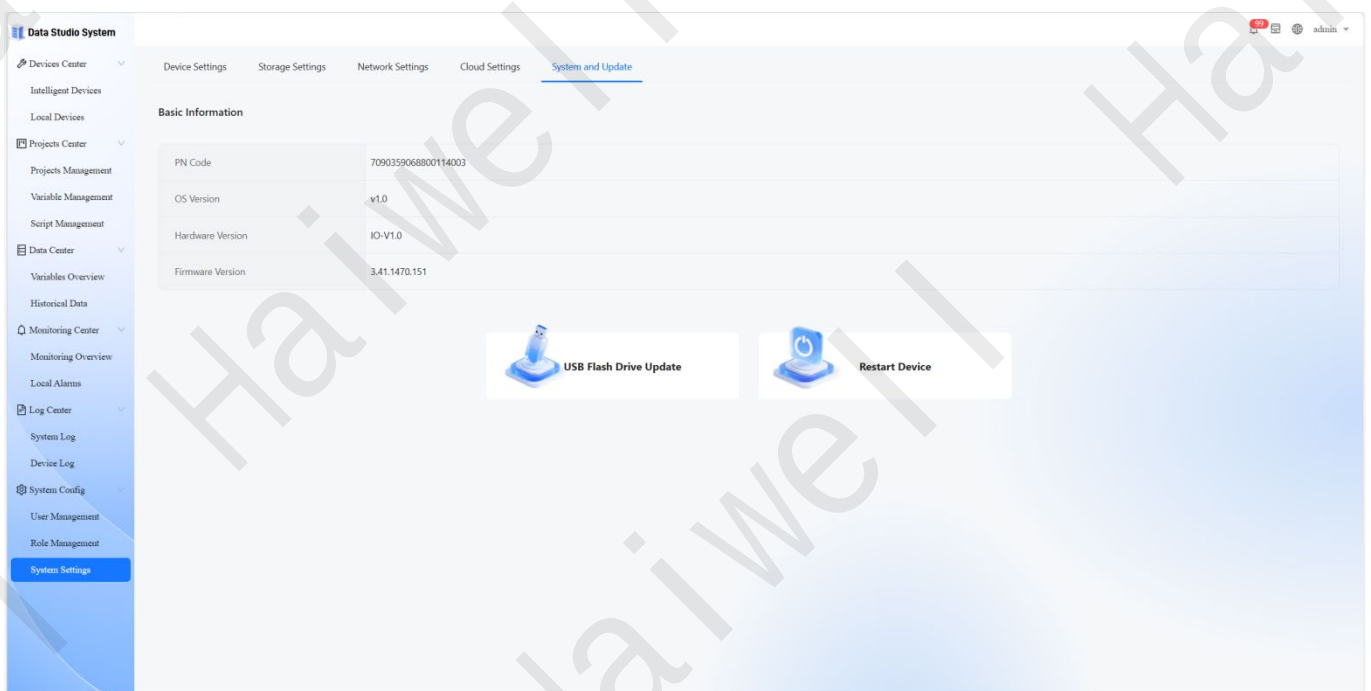


Figure103 System and Updates

10. Interface Management

Interface Management is mainly used for integration with third-party platforms such as MES systems, production reporting software, and customer-developed host computer systems. It allows these platforms to read real-time device variables and historical archived data from the S100, helping quickly implement factory data collection, production statistics, and other project scenarios. The page is divided into three functional areas: key management, request construction, and online testing.

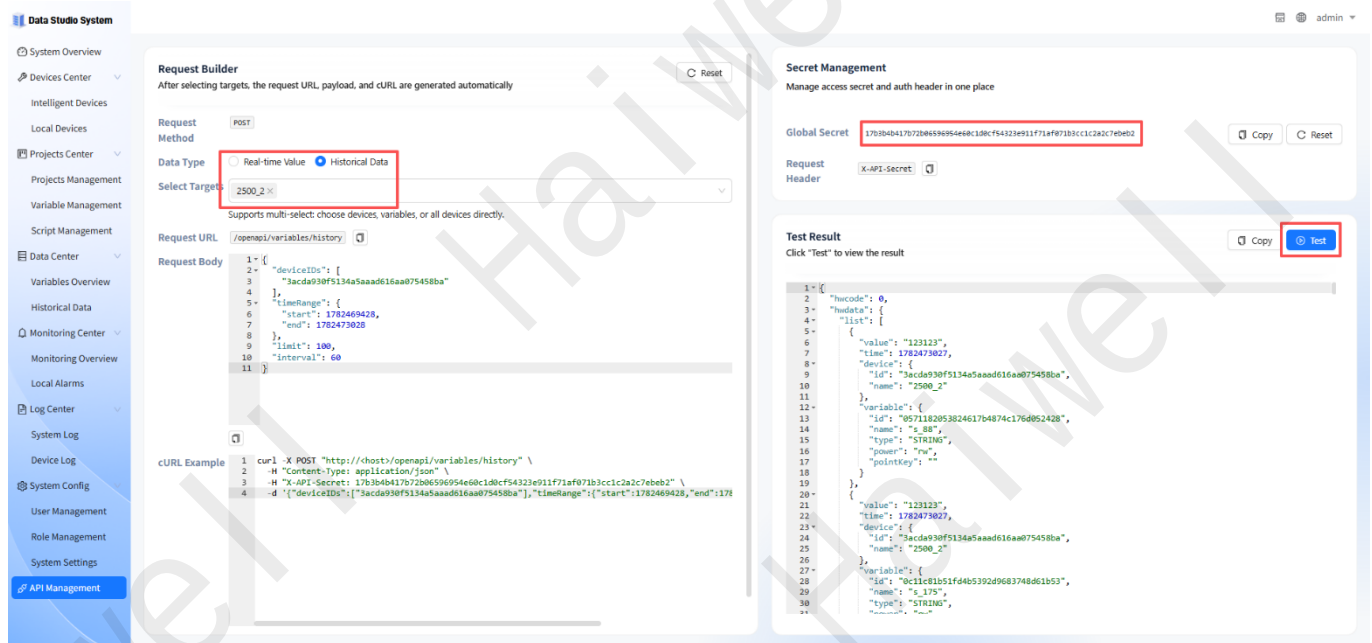


Figure104 Interface Management

Before use, obtain the global access key in the key management area. Third-party access interfaces must configure the X-API-Secret field in the request header. The key supports viewing, copying, and resetting. In the request construction area, select the query type (real-time data or historical data), and freely select all devices, a single device, or variables. The system automatically generates the interface address and call parameters. Historical queries additionally require second-level start and end times, the number of returned data records, and the data sampling interval. All parameters support one-click copying. After parameter configuration, click the Test button to preview returned data or error prompts online, which is convenient for quick on-site verification of integration results.

Once the key is reset, third-party systems using the old key will no longer be able to retrieve data. If the time range for a single historical data query is too large, interface response speed will slow down. When a device without valid variables is selected, no data will be returned for that device. Keep keys secure during daily use and do not disclose them casually. Integration programs should avoid high-frequency cyclic calls to prevent occupying server resources. For large-batch historical data queries, it is recommended to split the query into multiple time periods. If the key needs to be reset, notify all integration partners in advance to avoid business data interruption.

V. Intelligent Server Firmware Update

1. Data Studio System USB Drive Update

Firmware updates can be performed via the **【USB Flash Drive Update】** function within the Data Studio System on the intelligent server, under **【System Config】** - **【System Settings】** - **【System and Updates】**. Click the **【USB Flash Drive Update】** button and select the desired firmware in the **【Firmware Update】**

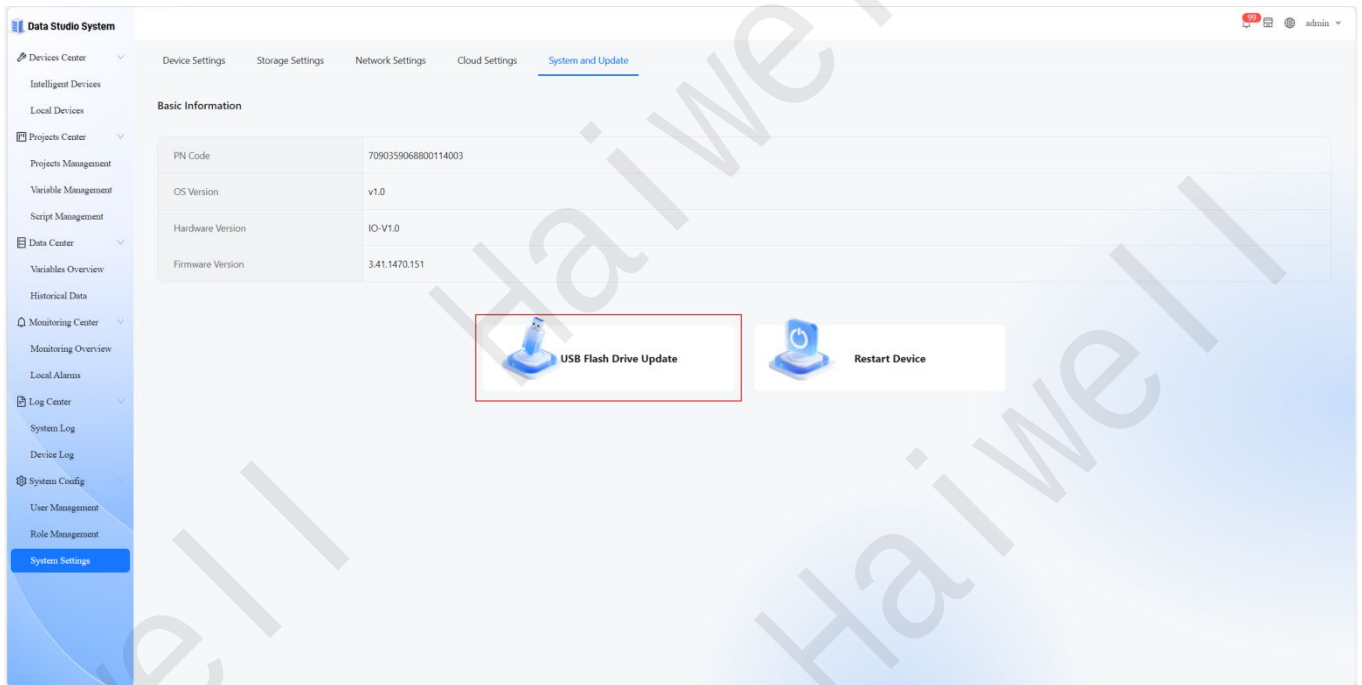


Figure105 USB Flash Drive Firmware Update

2. Device Management Tools - Firmware Update (SCADA Software)

The intelligent server can be updated locally and via the cloud through the device management tool in the SCADA software. For details, please see [Local Management | Update Firmware](#) and [Cloud Management | Update Firmware](#).

VI. Device Manager Tools

Tool icon  in the menu bar to enter the Device Manager Tool, or click **【Tools】** and then **【Device Management Tool】**. It supports effective device control using both local and cloud manager.

1. Local Manager

Access the device management tool , click on **【Local Management】** ,select the device based on its IP address, and click on **【Manage.】** This will open the current device manager, allowing you to perform operations on the current device, as shown in the image below:



Figure106 Local Manager

1.1 Update Firmware

Click on **【Update Firmware】**. The current firmware package will be automatically selected by default. Click on **【OK】** and wait for the update to complete. A pop-up message Update successful will appear. Click on **【OK】** to finish.

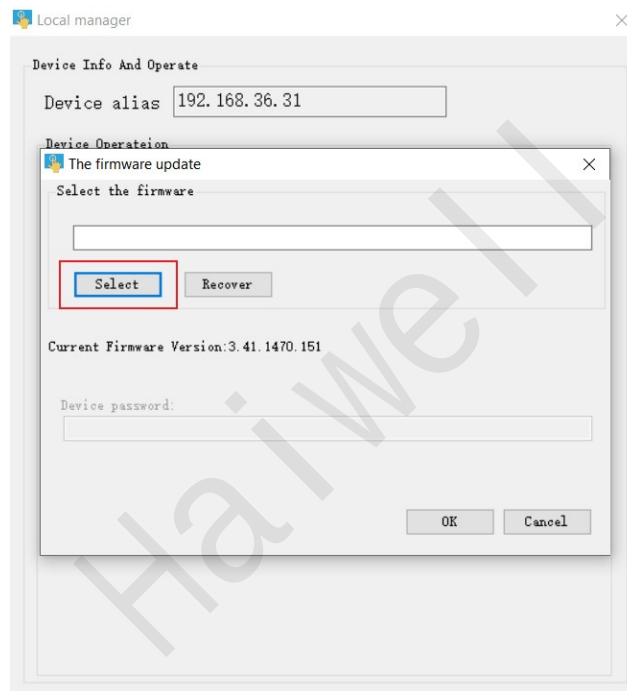


Figure107 Firmware Update

1.2 Get the PN Code

Click on **【Get the PN Code】** to view the PN code of the current device.

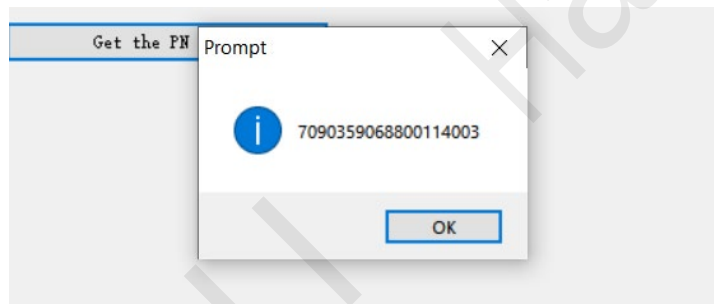


Figure108 Device PN Code

1.3 Version Detection

Click on **【Get Version】** to view the version information for your current device .

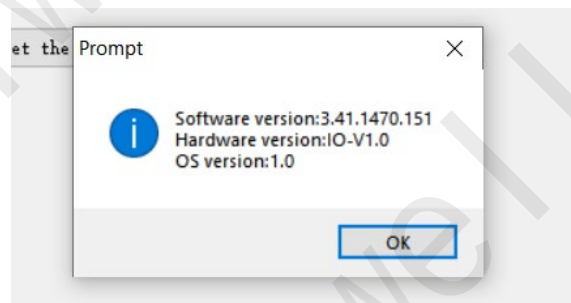


Figure109 Device Version Information

1.4 Cloud Manager

Enter Device Manager tool, click on **【Cloud Manager】** , and you can choose to log in with your mobile phone or email .After entering the correct account and password, click on **【Log In】** to enter Device Manager .

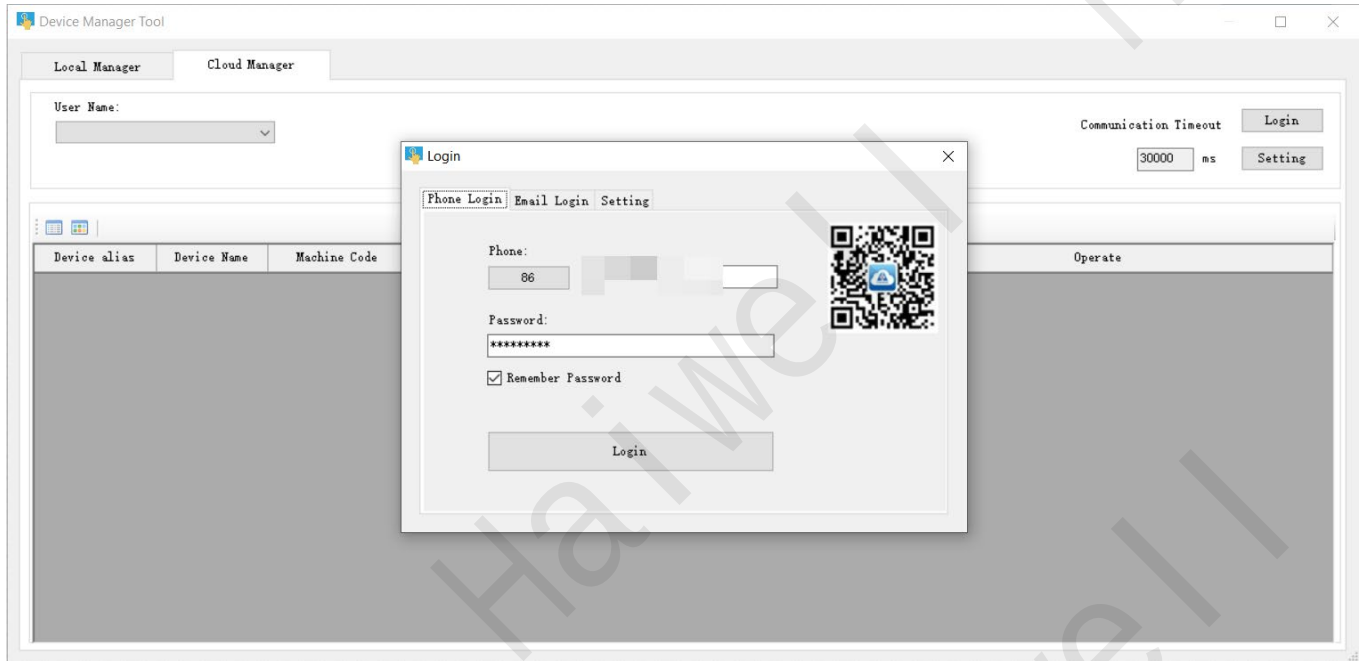


Figure110 Cloud Manager

After entering Device Manager , select the device, click **【Manage,】** and you will be able to perform operations on the current device, as shown in the image below:



Figure111 Cloud Manager

1.5 Update Firmware

Click on **【Update Firmware】**. The current firmware package will be automatically selected by default. Click on **【OK】** and wait for the update to complete. A pop-up message Update successful will appear. Click on **【OK】** to finish.

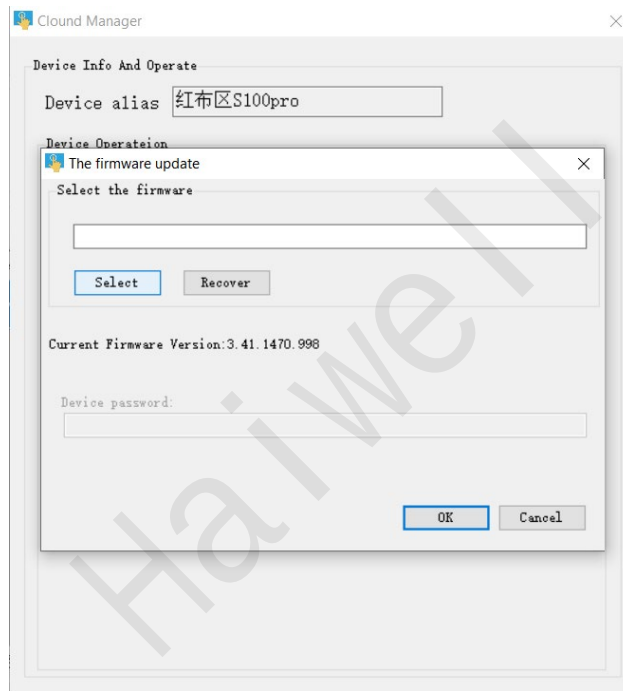


Figure112 Firmware Update

1.6 Version Detection

Click on **【Check Version】** to view the current software version information of your device.

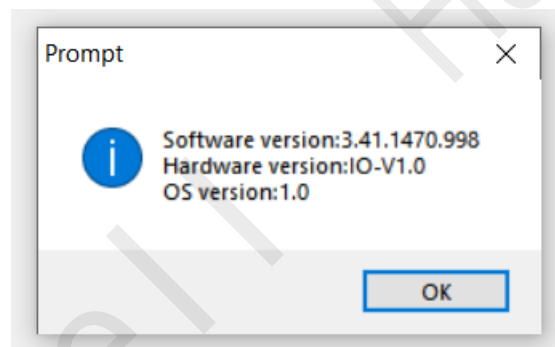


Figure113 Firmware Update

VII. Intelligent Server System Settings

In addition to configuring S100 network information in Data Studio System, you can also exit Data Studio System using the shortcut **【Ctrl+W】** and enter the system settings interface by clicking the system settings icon.



Figure114 System Settings Interface

1. Switch System Language

1.1 Language Settings

(1) Switch from Chinese to English

Click on **【Language Support】** to enter the language support interface. Select **【Language】**, and drag the language from the **【Language in Menus and Windows】** drop-down list to adjust the system language. Drag the desired language to the top of the list, and click **【Apply to System】** to set it as the system language. For example, dragging "English (United States)" to the top of the list and clicking **【Apply to System】** will set "English (United States)" as the system language.



Figure115 Switching from Chinese to English

(2) Switch from English to Chinese

Click on **【Language Support】** to enter the language support interface. Select **【Language】**, and drag the language from the **【Language for menus and windows】** drop-down list to adjust the system language. Drag the desired language to the top of the list and click **【Apply System-Wide】** to set it as the system language. For example, dragging "中文(中国)" to the top of the list and clicking **【Apply System-Wide】** will set "中文(中国)" as the system language.

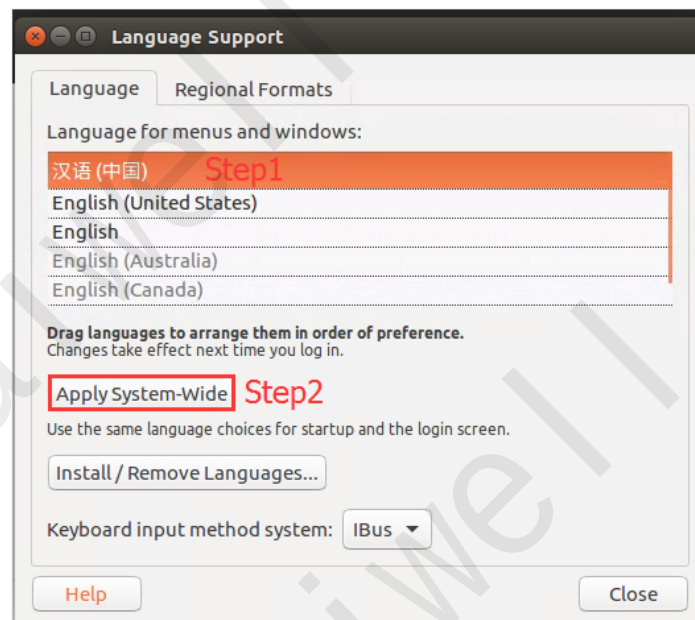


Figure116 Switching from English to Chinese

1.2 Set Region Format

(1) Switch from Chinese to English

Click on **【Language Support】** to enter the language support interface, select **【Region Format】**,

and choose a language from the **【Format for displaying numbers, dates, and currency amounts】** drop-down list to adjust the region format. Click **【Apply to the entire system】** to set the system's region format. For example, selecting "English (United States)" and clicking **【Apply to the entire system】** sets the region format to "English (United States)".

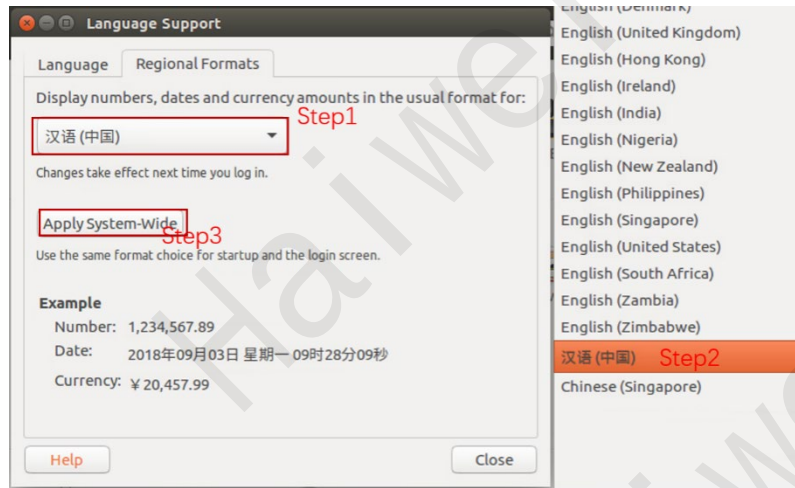


Figure117 Switching from Chinese to English

(2) Switch from English to Chinese

Click on **【Language Support】** to enter the language support interface, select **【Regional Formats】**, and choose the language from the "Display numbers, dates and currency amounts in the usual format for" drop-down list to adjust the regional format. Click **【Apply System-Wide】** to set the system's regional format. For example, selecting **【Chinese (China)】** and clicking **【Apply System-Wide】** indicates that the regional format is set to "Chinese (China)".

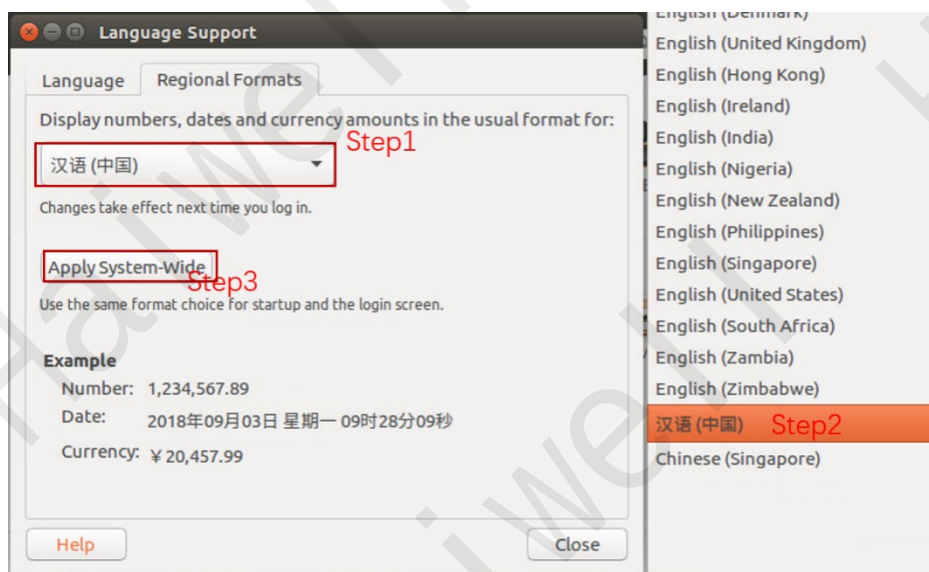


Figure118 Switching from English to Chinese

2. Network Settings

2.1 Connecting to Ethernet

Click on **【Network】** to enter the network settings interface, select **【Wired】** network connection.

The device supports two Ethernet ports. In the wired network connection interface, click **【Options】** to enter network settings, select **【IPv4】**. You can choose to obtain an IP address automatically or manually set an IP address.



Figure119 Connecting to Ethernet

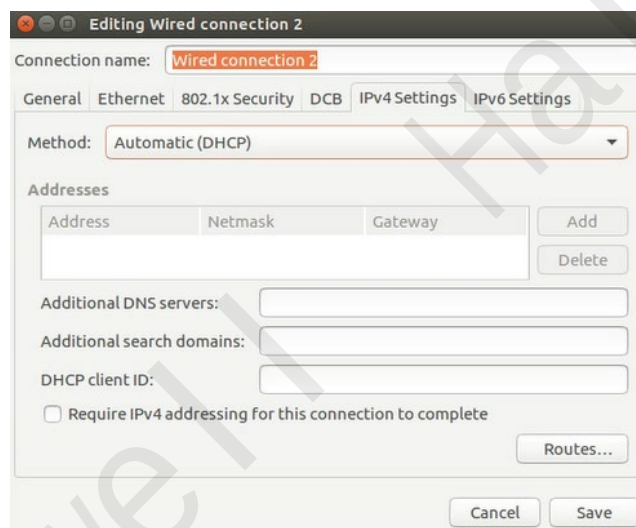


Figure120 Automatic IP Acquisition

(1) Automatically Obtain IP Address

Click the drop-down menu under "Method", select "Automatic", set it to automatically obtain IP address, click "Save", return to the main network settings interface, and restart the network to automatically obtain IP address.

(2) Manually Set the IP Address

Click the drop-down menu under **【Method】** and select **【Manual】** to set the IP address manually. Click **【Add】** in the address bar, enter the IP address in the IP address field, and then switch to the subnet mask input field. Enter the IP address, subnet mask, network administrator, and DNS server parameters in sequence. Click **【Save】** to return to the main network settings interface. Restart the network to connect to

Ethernet.

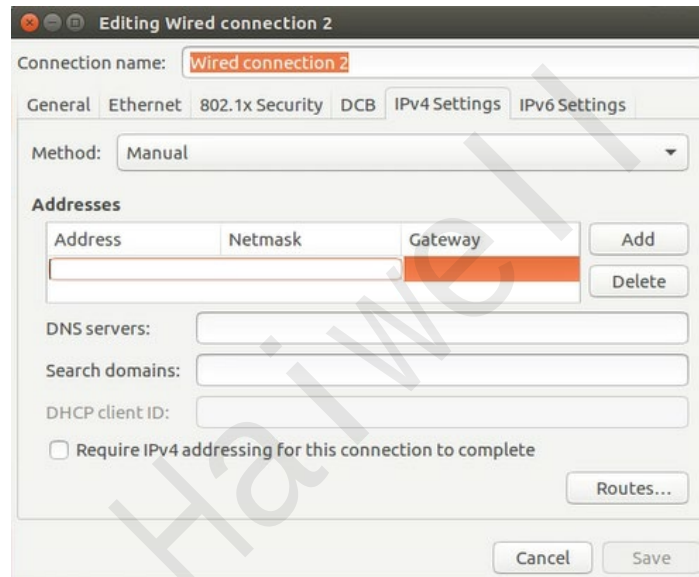


Figure121 Manually Setting IP

2.2 Connect to WIFI

Click on **【Network】** to enter the network settings interface, select **【Wireless】** to connect to WIFI, select the WIFI device, a WIFI network authentication interface will pop up, enter the authentication password, click **【Connect】**, after the connection is successful, restart the network to use WIFI connection.



Figure122 Connecting to WIFI

3. Screen Saver Settings

Click on **【Brightness and Lock Screen】** to enter the Brightness and Lock Screen interface, where you can set the screen brightness and lock the screen for screen protection.

3.1 Screen Brightness

Selecting a time from the brightness menu drop down menu indicates that the screen will turn off if there is no activity during this time period.

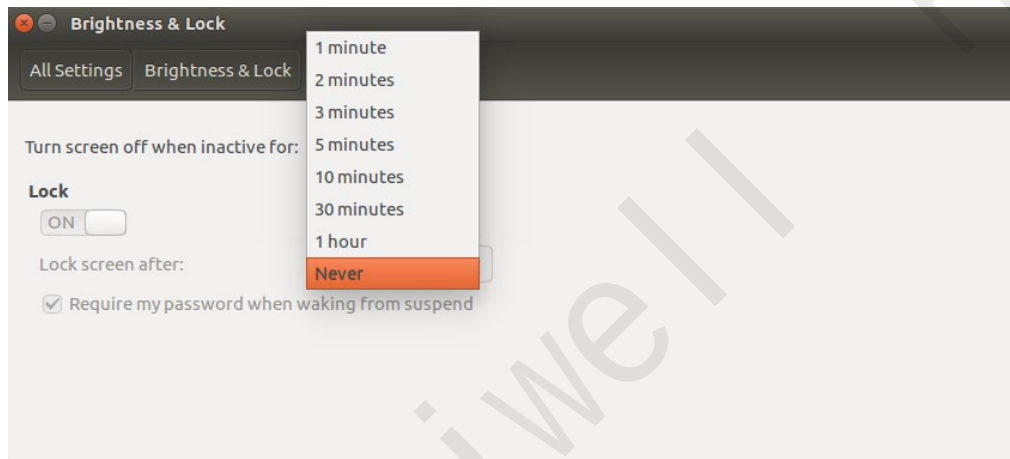


Figure123 Screen Brightness

3.2 Screen Lock

Turn on the **【Lock】** switch, and select the time from the drop-down menu in the lock screen menu. This indicates that the screen will be locked if there is no operation within this time period.

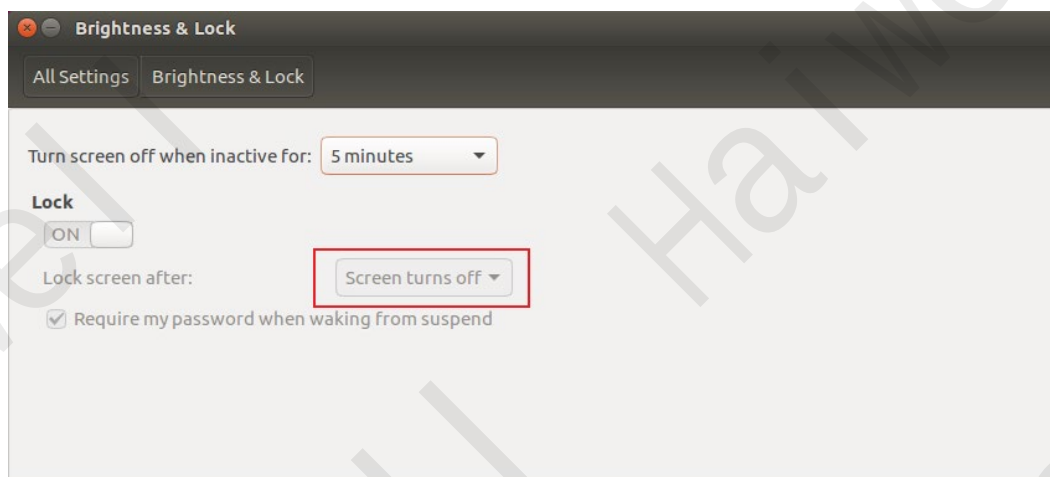


Figure124 Screen Lock

4. Date /Time Settings

Click on **【Date and Time】** to enter the date and time settings interface.

4.1 Adjust Date and Time

In the Date and Time interface, in the Set Time section, you can change the time to Manual to customize the system time and date; or change it to Automatically retrieve the time from the Internet by default.

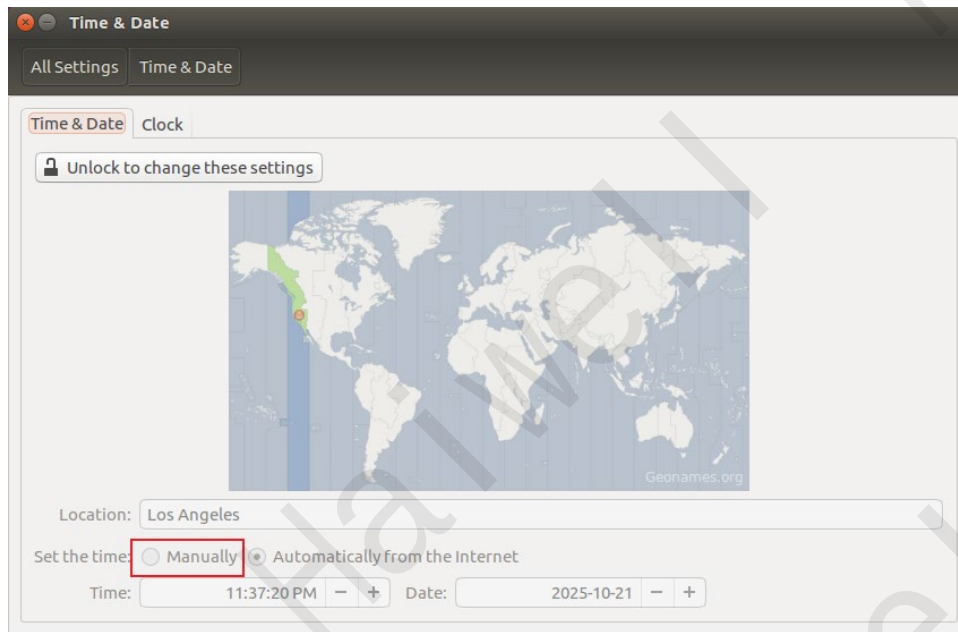


Figure125 Date and Time

4.2 Set Clock Format

Entering the **【Clock】** interface allows you to set the display format for the clock and calendar.

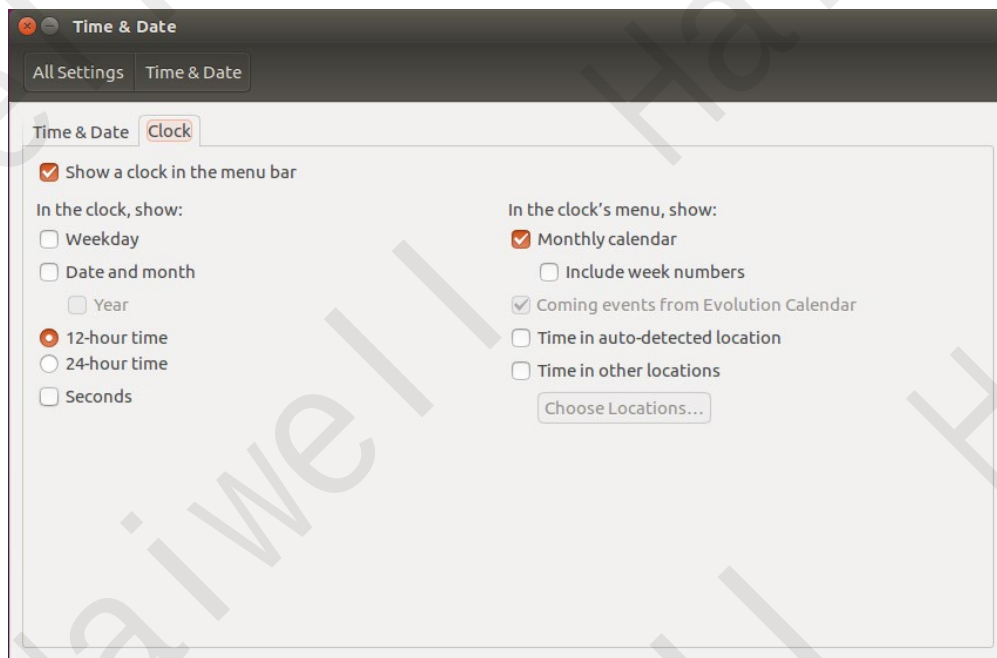


Figure126 Clock Format

5. View Hardware Information

Click on **【Details】** to enter the hardware details interface, where you can view system hardware information, including device name, memory, processor, graphics, operating system type, and disk space.

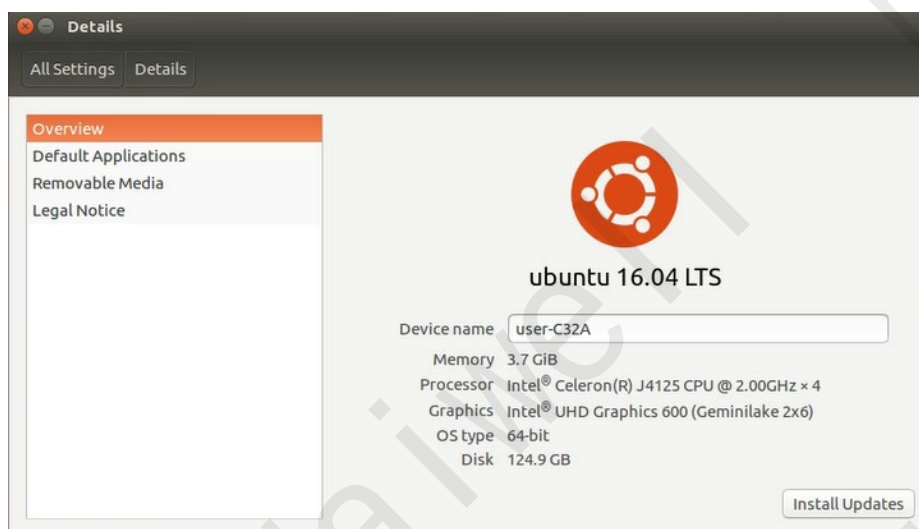


Figure127 Hardware Information

VIII. FAQs

1. What is the Function of the VGA/HDMI Interface on a Intelligent Server?

The intelligent server can be connected to a monitor or other large display screen via VGA /HDMI interface to display the system screen of the intelligent server itself as well as the project screen of the visualization large screen.

Simultaneous connection is supported. For example, a VGA connection to a monitor can be used for **【simultaneous display】** to show the main screen of the intelligent server, while an HDMI connection to another monitor can be used for **【differential display,】** where you can drag and drop the content you want to display. Specific monitor configurations can be found in the upper right corner of the intelligent server desktop under System Settings - Display Settings.

2. How to Use the Intelligent Connection Server Initially?

The intelligent Server requires a keyboard, mouse, and monitor to operate. After connecting the corresponding peripherals, power on the intelligent Server. By default, you will enter the Data Studio System interface. Log in to the system using the initial account: admin, password: 123456. You can configure basic network information, change account passwords, create users, etc. For detailed operation procedures, please refer to Section [II. System Settings 2. Network Settings](#).

3. How to operate after the Intelligent server restarts?

After the Intelligent server restarts, you need to log in with the initial system account: User, password: User. Once logged in, you can start the normal boot process.

4. Network Information Settings After the Intelligent Server is Initially Powered on ?

In addition to configuring in the System Settings -> Network Settings after entering the Data Studio System, it also supports returning to the device desktop and configuring in System Settings - Network Settings. The specific operation process for the Linux system Intelligent server can be referred to [Section II. System Settings 2. Network Settings](#).

5. How does the Intelligent server return to the desktop from the Data Studio System?

On Linux systems, you can use the external keyboard shortcut **【Ctrl + Win + D】** to return to the desktop.

6. After the Intelligent Connection Server Accesses the Project Screen, How Do I Return to the Project List?

The Intelligent server supports returning to the project list through an external keyboard or mouse. The specific steps are as follows:

External keyboard: Use the external keyboard shortcut **【Ctrl + W】** to exit the project run.

Mouse operation: Slide to the top and click the close button  to close the full-screen project view and return to the project list.

7. How to Connect to External Data Sources?

[WBE Configuration | Data Source](#) for details) and script configuration supporting MySQL, MQTT, and HTTP (see [Script | Application Function for details](#)).