



Quick Start to Remote Management



V1.0



IOTROUTER

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I. Overview

The product integrates core functions such as remote management, remote programming, and remote LAN, providing a comprehensive remote operation and maintenance solution for industrial equipment. Through a cloud platform and secure VPN tunnel technology, engineers can complete equipment debugging, program updates, and troubleshooting without on-site travel, significantly reducing travel costs and response time. The product features a plug-and-play design, allowing for one-click connection establishment; operation is simple and intuitive, providing an excellent user experience. Simultaneously, the system employs multiple security mechanisms to ensure the security of data transmission and device access, making remote operation and maintenance simple, efficient, and reliable.

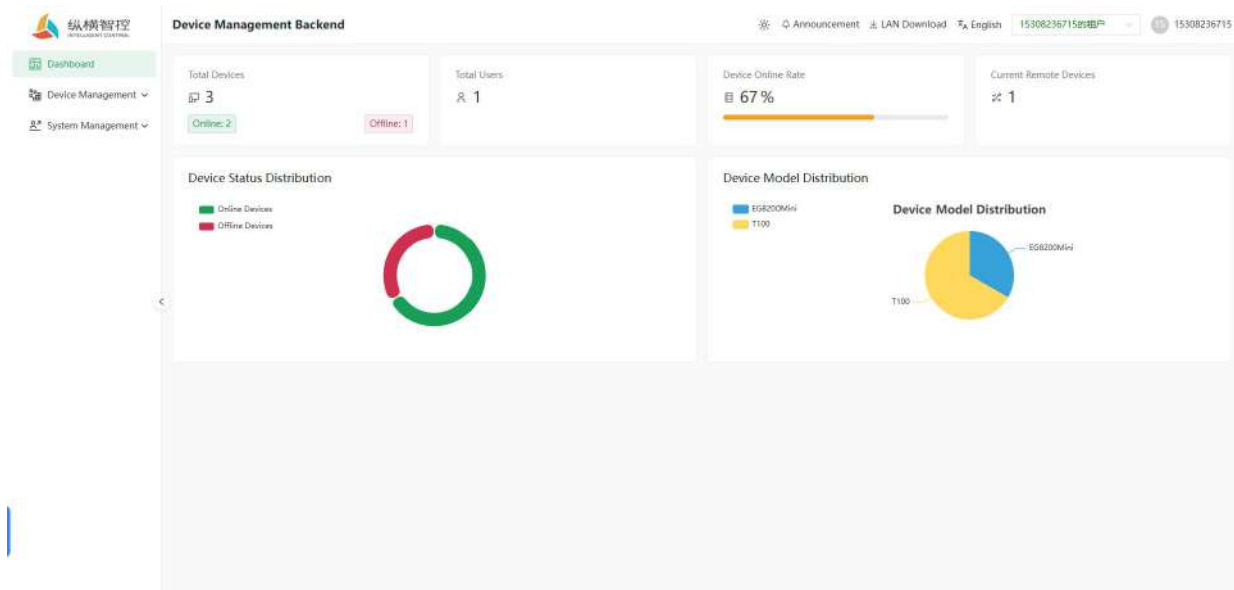
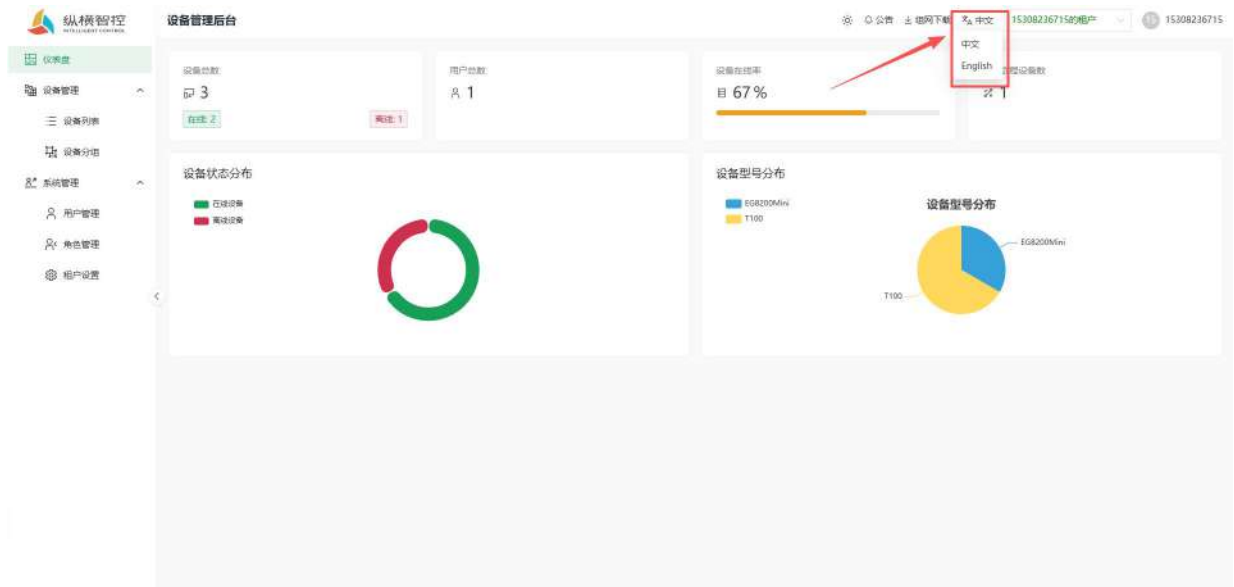
II. Preparation

1. Access address: bridge.iotrouter.com
2. Account Login: First-time users, please complete account registration before logging in.



III. Dashboard

Successfully logged into the device management backend and entered the dashboard homepage. The page will display an overview of the devices under the current tenant, including key data such as the total number of devices, online rate, number of remote devices, device status, and model distribution.



Total number of devices: Displays the total number of devices added by the current tenant, and also indicates the number of offline devices.

Total Users: Displays the total number of user accounts associated with the current tenant.

Device online rate: Displays the percentage of devices that are online.

Current number of remote devices: Displays the number of devices currently being accessed remotely.

Device status distribution: A pie chart visually displays the percentage of devices that are offline.

Equipment Settings model distribution: A pie chart showing the percentage of different equipment models.

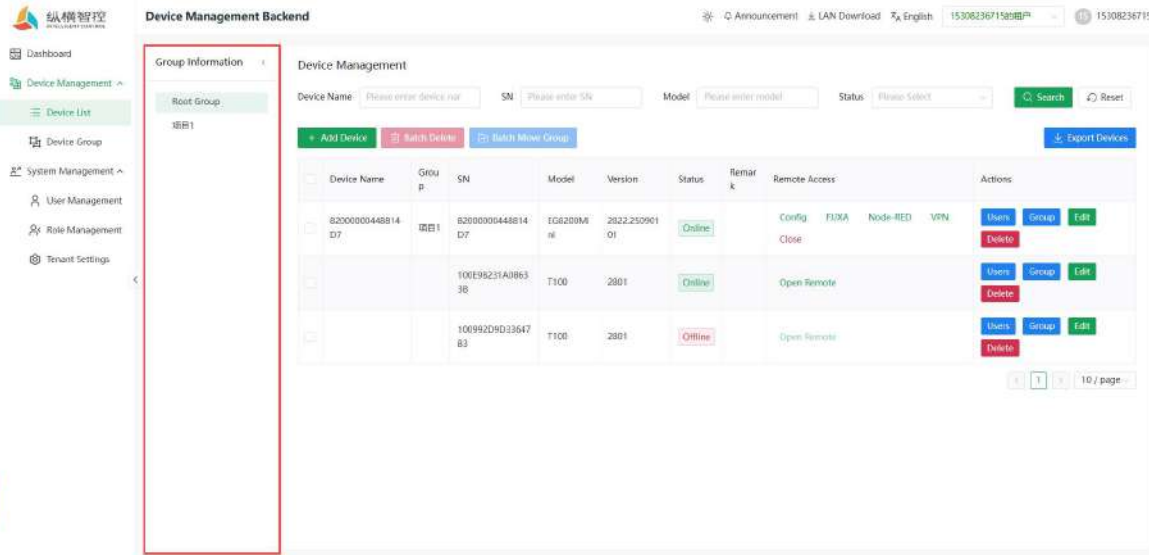
IV. Equipment Management

1. Equipment List

The device list is the core page of device management, providing functions for adding, deleting, querying, modifying, and remotely maintaining devices.

The screenshot shows the 'Device Management Backend' interface. On the left is a 'Grouped Navigation Bar' with options: Dashboard, Device Management (selected), Device List, Device Group, System Management, User Management, Role Management, and Tenant Settings. The main area is titled 'Device Management' and includes a 'Filtering and Operation Area' with search filters for Device Name, SN, Model, and Status, along with 'Search' and 'Reset' buttons. Below the filters are buttons for '+ Add Device', 'Batch Delete', 'Batch Move Group', and 'Export Devices'. The central table lists devices with columns: Device Name, Group, SN, Model, Version, Status, Remark, Remote Access, and Actions. The table contains three rows of device data. At the bottom, there is a 'Device List' label and a pagination control showing '1 / 10 / page'.

1) Group navigation bar

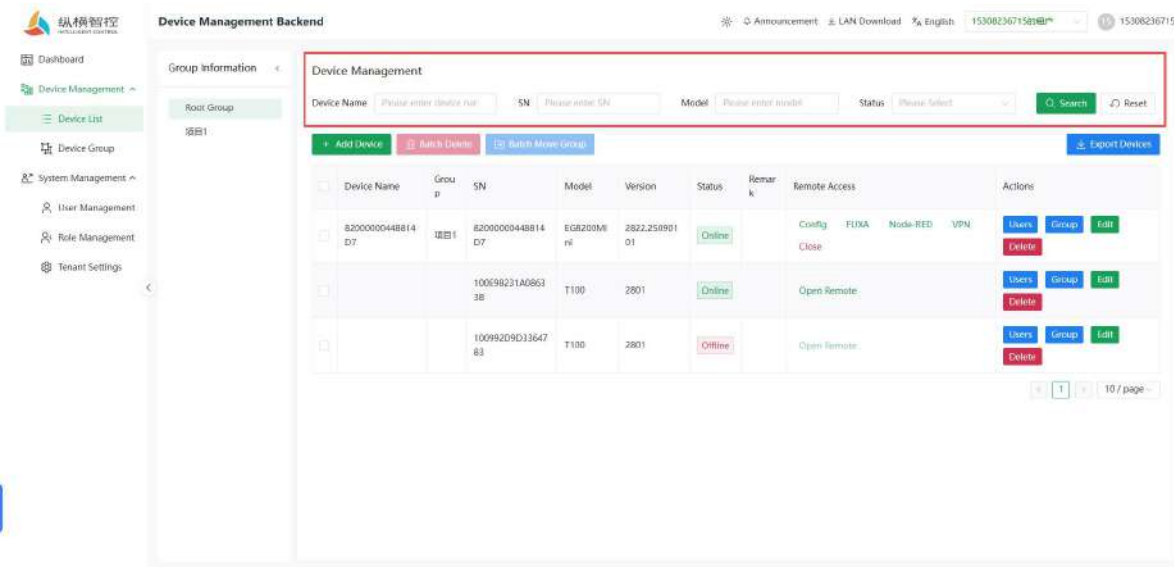


Root Group: The system default group, displaying all devices under the current tenant.

Custom (e.g., "Project 1") groups: User-defined groups are used to manage devices by project/scenario, facilitating quick and easy filtering.

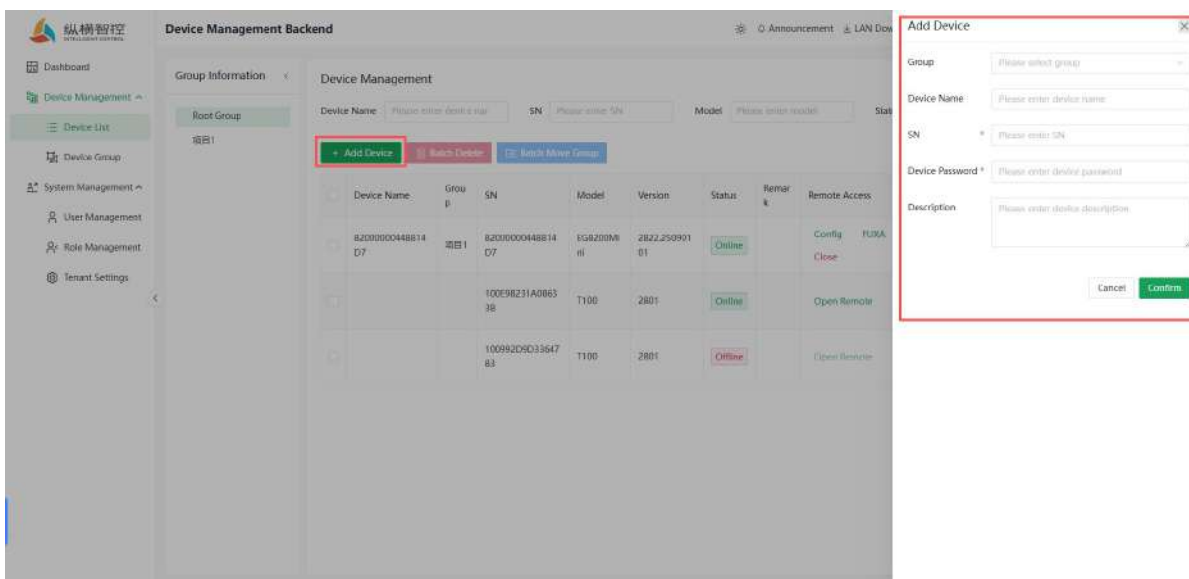
2) Filtering and Operation Area

a) Equipment screening



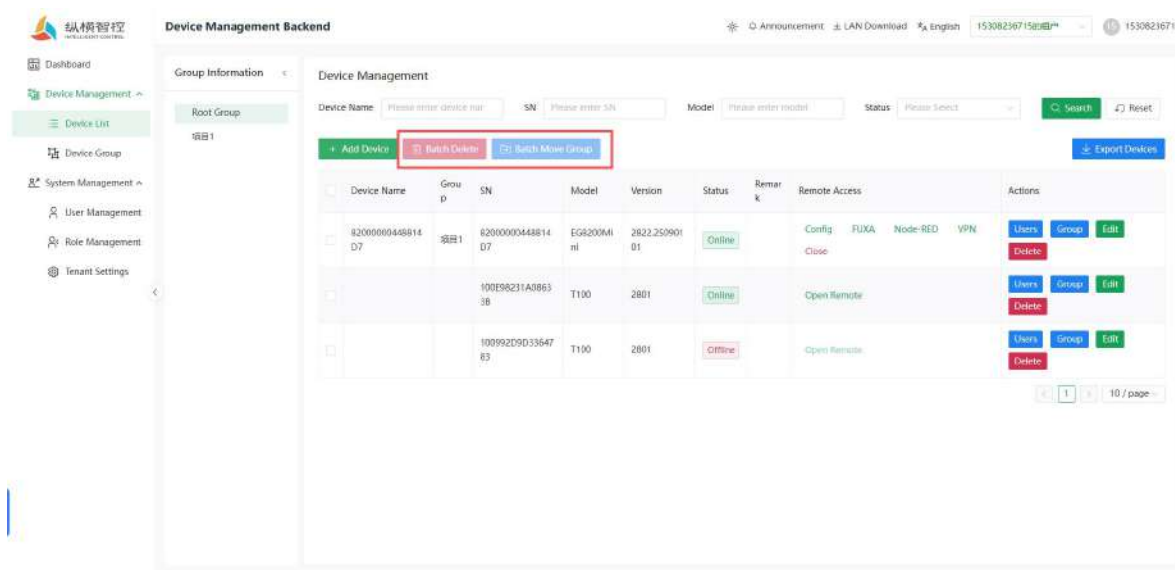
Equipment filtering: Supports quick searching of equipment by name, serial number, model, and status.

b) New equipment



Add a device: Configure the group and customize the device name in the pop-up window, fill in the gateway's unique SN serial number and the device login password, and submit to complete the binding. (Each gateway has a unique SN and password. After the gateway is bound, others cannot bind it again unless the owner deletes the gateway under the corresponding account.)

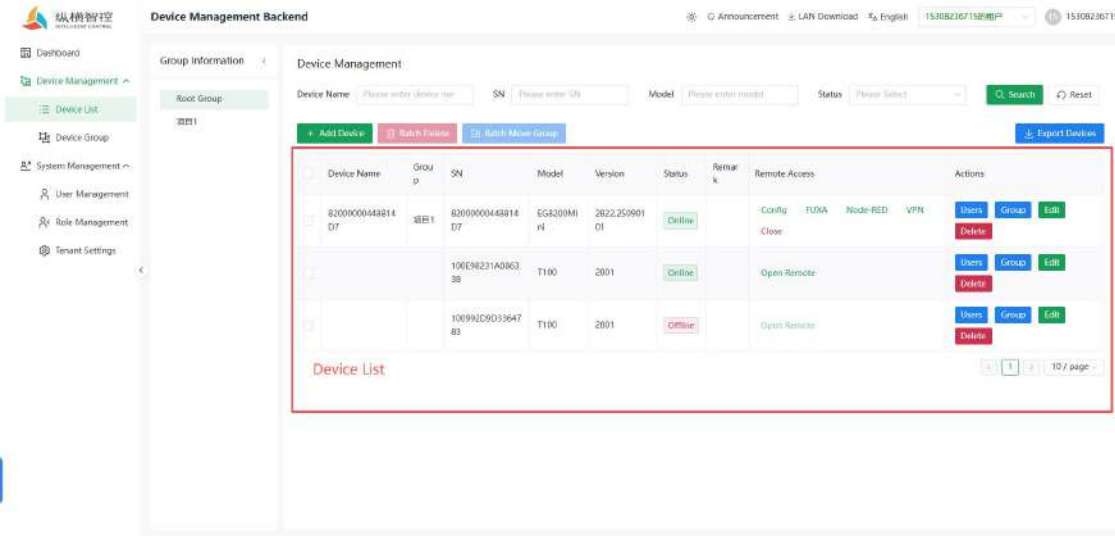
c) Batch operations



Batch operations: After selecting multiple devices, you can delete devices in batches with one click, or move devices to other groups in batches.

3) Equipment List

This area serves as the core display and operation portal for single device management.



Information Display: Device Name, Group, SN, Model, Version, Online Status, and Remarks

Remote access: Supports enabling/disabling remote access for quick access to configuration and setup interfaces.

Operation and maintenance: Provides management functions such as user assignment, group adjustment, editing, and deletion.

a) Remote configuration

The screenshot shows the 'Device Management' page in the IOTROUTER backend. A table lists devices with columns for Device Name, Group, SN, Model, Version, Status, Remark, Remote Access, and Actions. The 'Status' and 'Remote Access' columns are highlighted with red boxes. The 'Remote Access' column shows options like 'Config', 'Close', 'Open Remote', and 'VPN'.

Device Name	Group	SN	Model	Version	Status	Remark	Remote Access	Actions
8200000448814-D7	组1	8200000448814-D7	EG8200M1	2822.250901	Online		Config, Close, Node-RED, VPN	Users, Group, Edit, Delete
		100E98231A086338	T100	2801	Online		Open Remote	Users, Group, Edit, Delete
		100992D9D3394783	T100	2801	Offline		Open Remote	Users, Group, Edit, Delete

This screenshot is similar to the one above, but with a red arrow pointing to the 'Config' option in the 'Remote Access' column of the first device row, indicating the next step in the remote configuration process.

Device Name	Group	SN	Model	Version	Status	Remark	Remote Access	Actions
8200000448814-D7	组1	8200000448814-D7	EG8200M1	2822.250901	Online		Config, Close, Node-RED, VPN	Users, Group, Edit, Delete
		100E98231A086338	T100	2801	Online		Open Remote	Users, Group, Edit, Delete
		100992D9D3394783	T100	2801	Offline		Open Remote	Users, Group, Edit, Delete

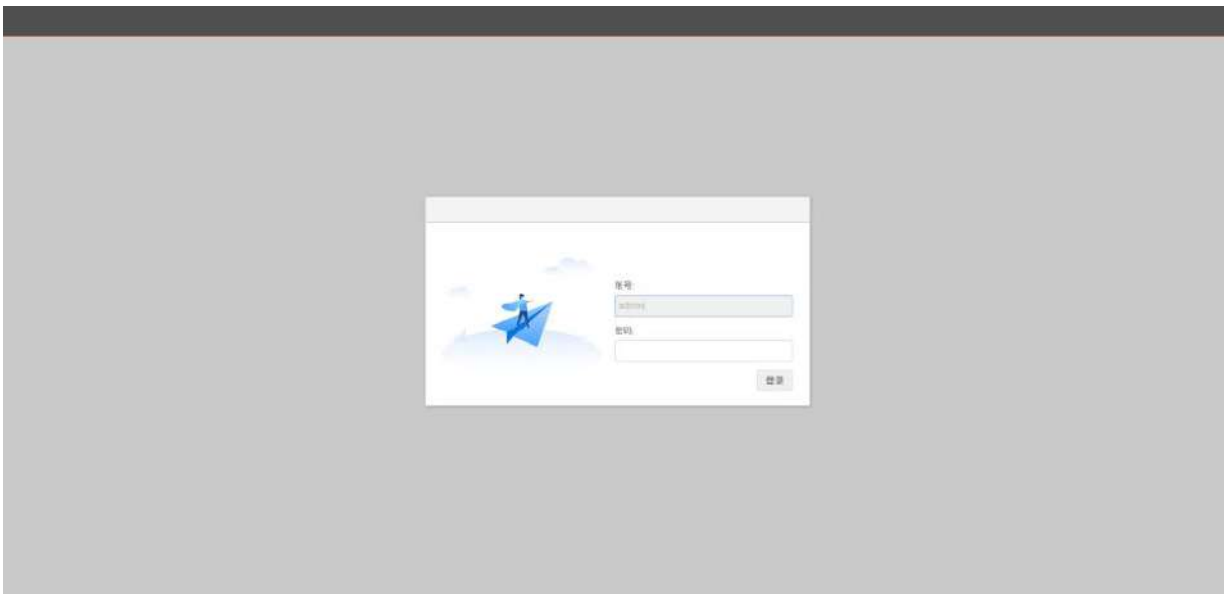


Remote configuration: Ensure the gateway is online, click "Enable Remote Configuration," and upon successful configuration, clicking the "Configure" button will automatically open a browser and redirect you to the gateway's configuration interface.

b) Remote programming

The screenshot shows the 'Device Management Backend' interface. On the left is a navigation menu with options like Dashboard, Device Management, Device List, Device Group, System Management, User Management, Role Management, and Tenant Settings. The main area is titled 'Device Management' and contains a search bar and a table of devices. The table has columns for Device Name, Group, SN, Model, Version, Status, Remark, Remote Access, and Actions. A red box highlights the 'Nocle-RED' entry in the Remote Access column, with a red arrow pointing to it. Below the table is a pagination control showing '1 / 10 / page'.

Device Name	Group	SN	Model	Version	Status	Remark	Remote Access	Actions
8200000448614-D7	组01	8200000448614-D7	EGR200M-rf	2822.25090101	Online		Config: FLUXA Nocle-RED YFPN Close	Users Group Edit Delete
		100E98231A086338	T100	2801	Online		Open Remote	Users Group Edit Delete
		10099209D3364783	T100	2801	Offline		Open Remote	Users Group Edit Delete



Remote Programming: Clicking the Remote Programming button will automatically open a browser and redirect you to the gateway's programming interface.

Device Management Backend

Group Information: Root Group

Device Management

Device Name: Please enter device name | SN: Please enter SN | Model: Please enter model | Status: Please Select | Search | Reset

+ Add Device | Batch Delete | Batch Move Group | Export Devices

Device Name	Group	SN	Model	Version	Status	Remark	Remote Access	Actions
820000004448814 D7	组1	820000004448814 D7	EG8200Mini	2822250901 01	Online		Config FUZA Node-RED VPN Close	Users Group Edit Delete
		100E98231A0863 3B	T100	2801	Online		Open Remote	Users Group Edit Delete
		100992D9D33647 83	T100	2801	Offline		Open Remote	Users Group Edit Delete

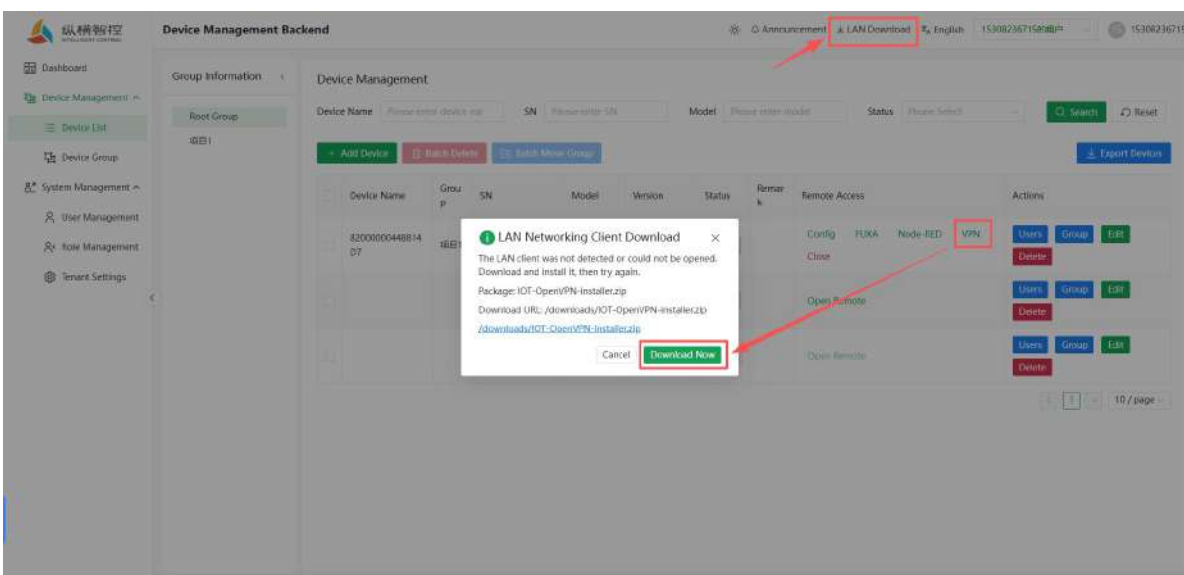
1 / 10 page

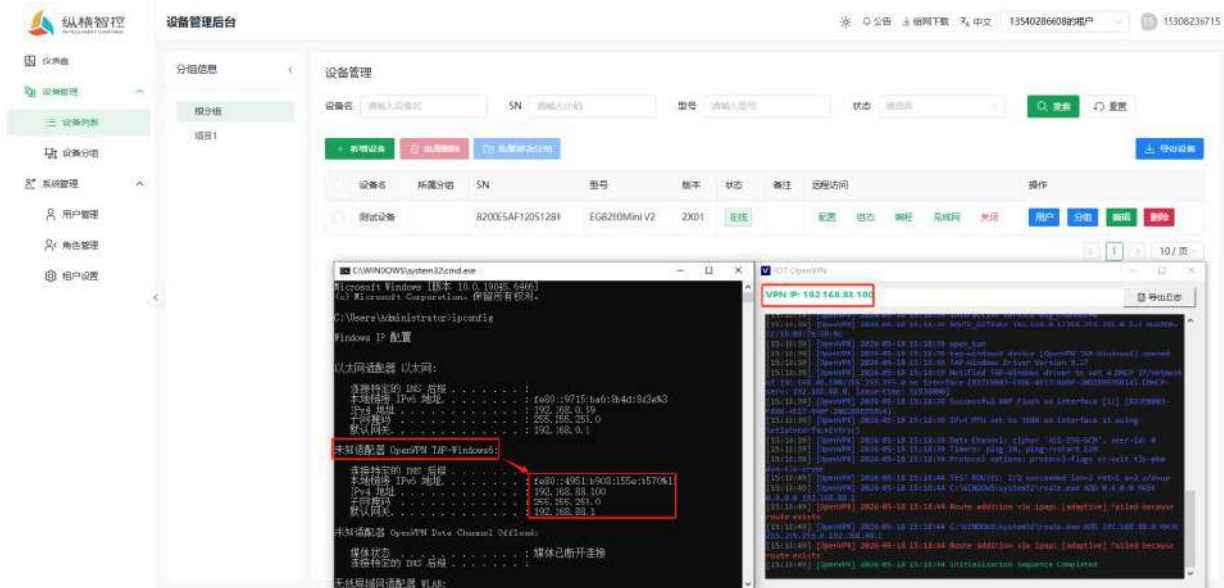
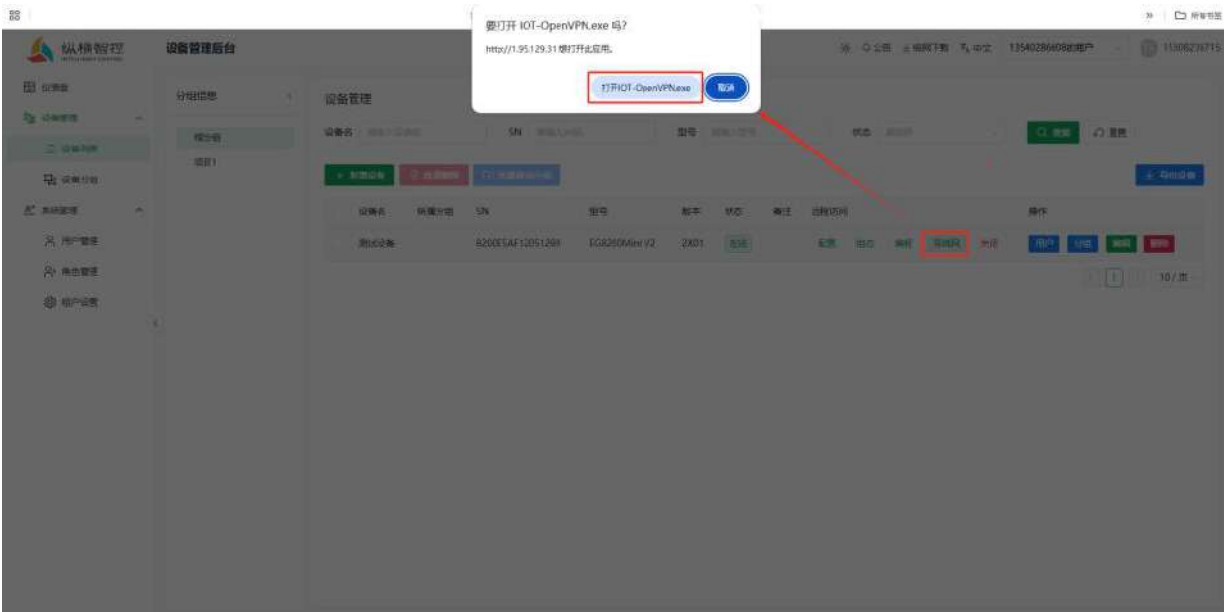
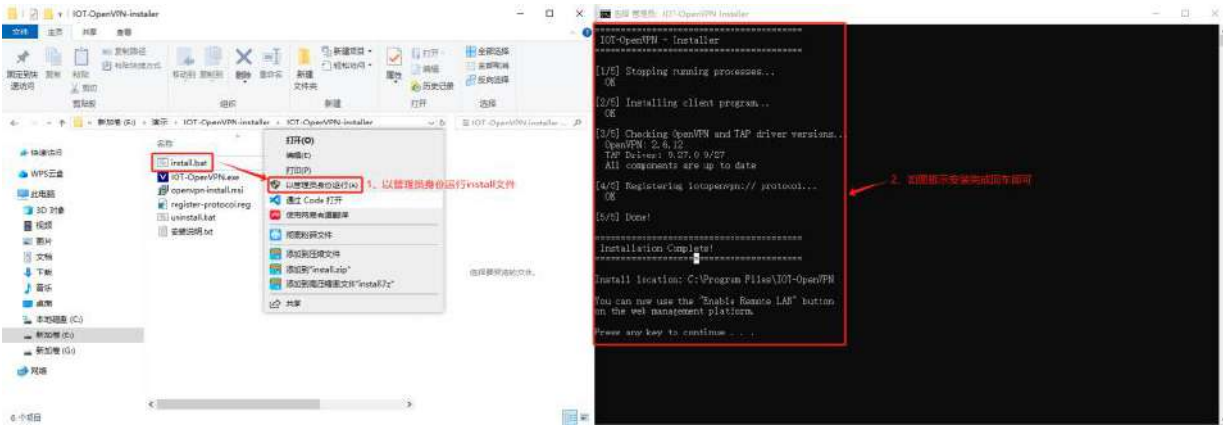


Remote configuration: Clicking the remote configuration button will automatically redirect you to the web configuration interface. **Note: Only gateways that support configuration functions can use this feature.**

c) Intranet Penetration

When using the "LAN" function for the first time, the system will prompt that no client has been detected. You can download and install it according to the instructions, or you can install the IOT-OpenVPN client in advance through the "Network Download" entry at the top.

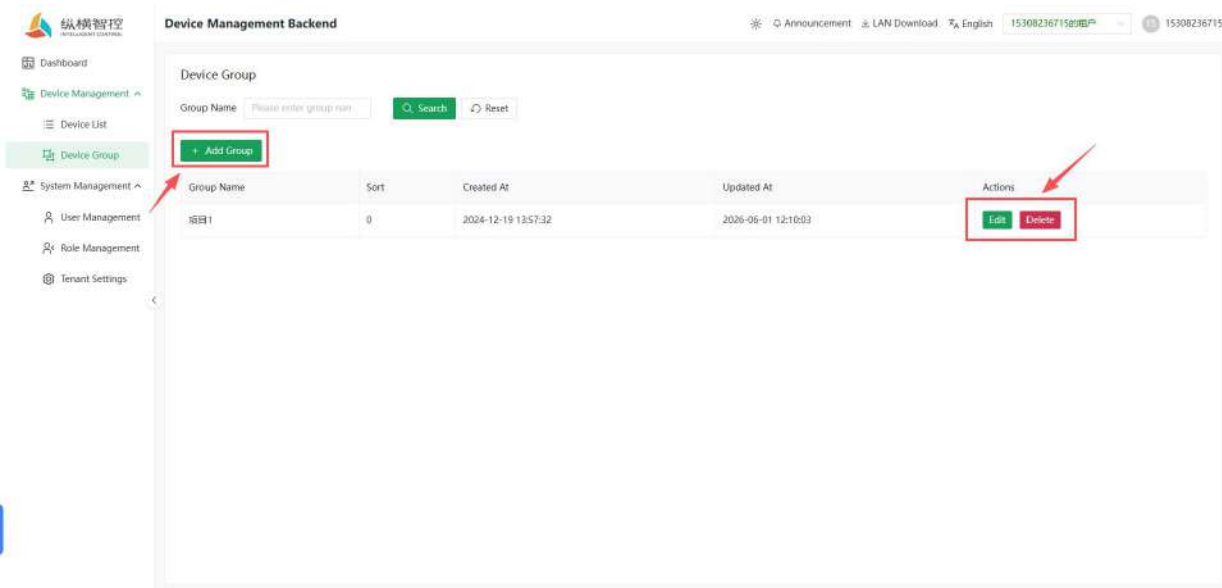




IP address successfully assigned; local machine can now directly access the local area network where the gateway is located. **Note: The network segment used by the computer cannot be the same as the gateway network segment, otherwise it may cause the remote LAN to fail; the IOT-OpenVPN software interface cannot be closed, closing it will disable intranet penetration.**

2. Equipment grouping

The device grouping interface is used for hierarchical management of devices. It supports creating groups by project, scenario or business line, which facilitates subsequent batch management, permission allocation and operation and maintenance.



Group search and filtering: Supports quick retrieval of target groups by group name, and with the search reset button, efficiently locates groups.

Add a group: Click the Add Group button to create a new device group for categorizing and managing devices.

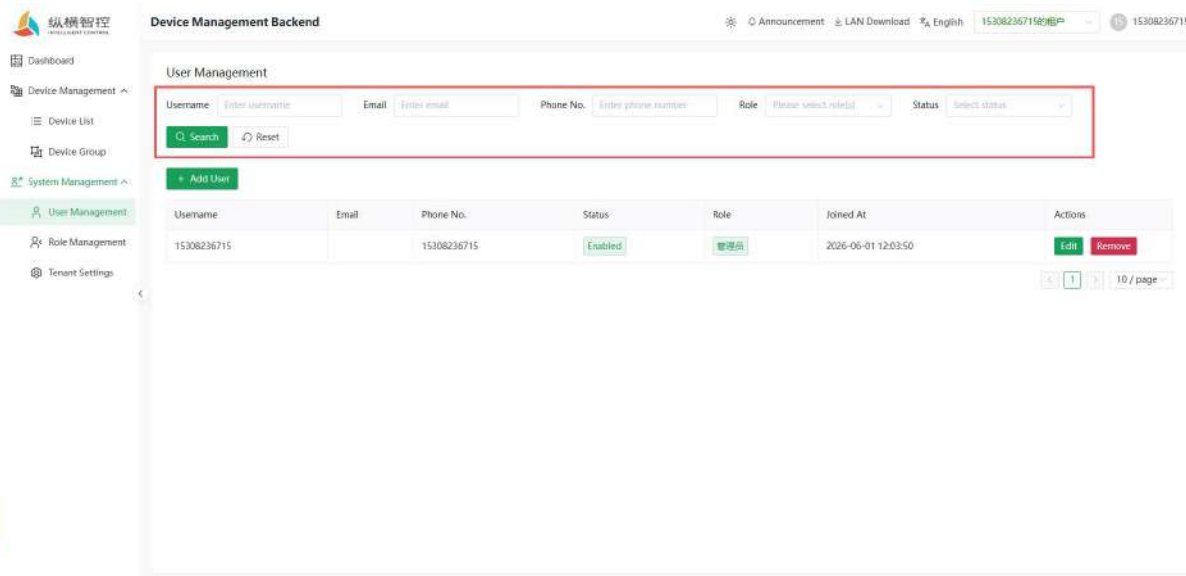
Group list information: The list displays the group name, sort order, creation time, and update time for easy management and traceability.

Grouping operations: Supports editing and deleting existing groups (ensure there are no devices in the group before deletion).

V. System Management

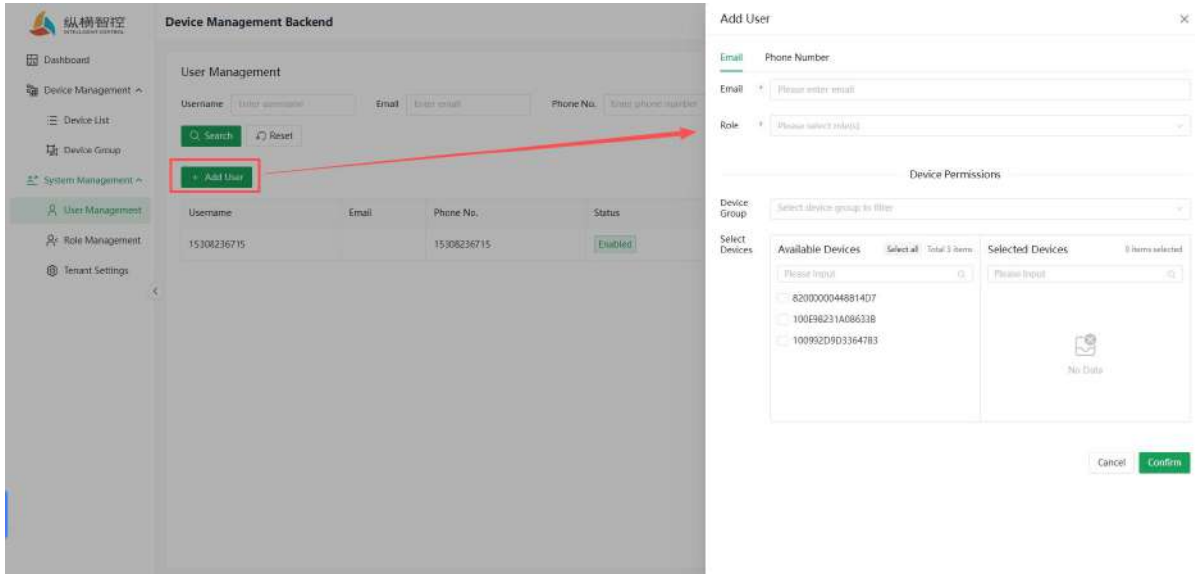
1. User Management

1) User Filtering



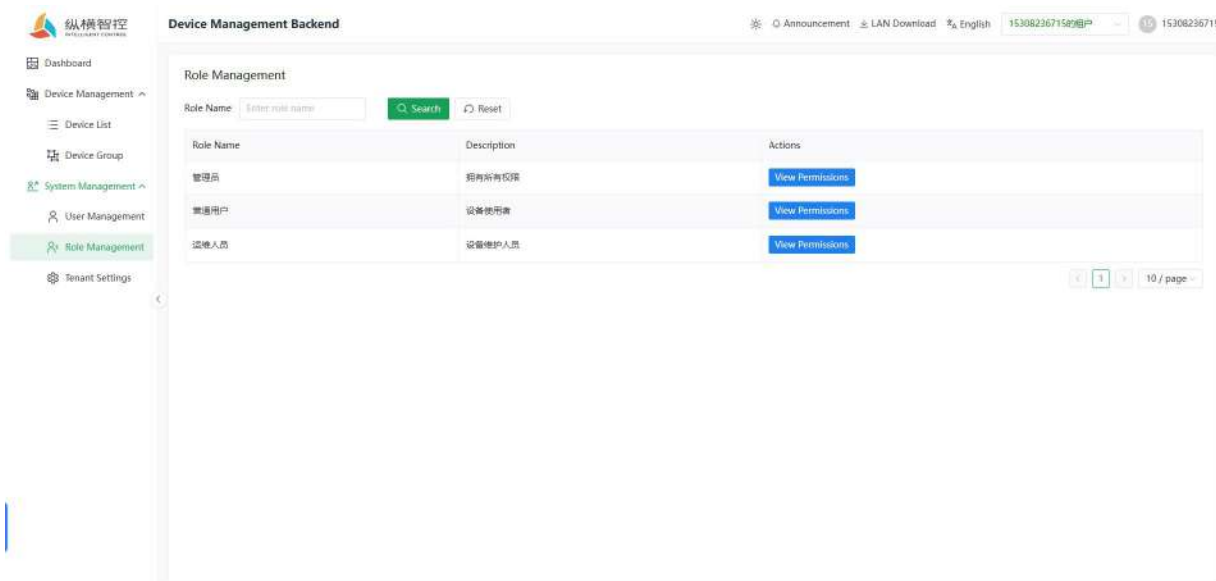
User filtering: Supports filtering users by username, email, mobile number, role, and status.

2) New users



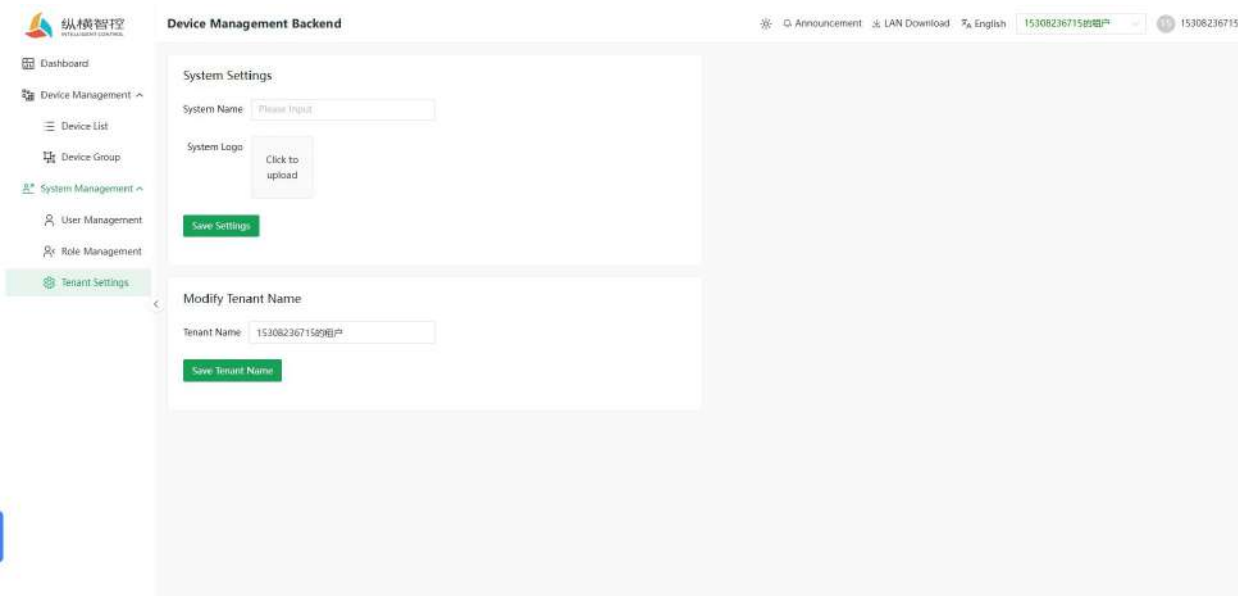
Add a user: Click the "Add User" button, enter the registered user's mobile phone number/email address in the pop-up window, and select the role. Device permissions are optional and can be adjusted later. After confirming, the user addition is complete.

2. Role Management



Role Management: The role management module provides information display and permission viewing functions for preset roles, including three types: administrators, regular users, and operations and maintenance personnel. The responsibilities and permission scope of each role are clearly defined. Administrators can assign matching role permissions to users based on their actual business scenarios, achieving reasonable permission control.

3. Tenant settings



Tenant settings: Supports custom system name, uploading system logo, and modifying tenant name. Save the settings to update the relevant configuration.

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