# Search Active Audio Device Tool User Guide--v2.0.0

# Contents

# 1. Preface

## 1.1 Audience

This manual is intended to provide clear operating instructions for those who will configure and use the Search Active Audio Device (SAAD) Tool. By carefully reading and consulting this guide, users could solve the setting and usage issues of the Search Active Audio Device (SAAD) Tool.

## 1.2 Revision History

| Document Version | Applicable Firmware Version | Update Content | Update Date |
|---|---|---|---|
| 2.0.0 | 2.0.0 | Updated operating instructions for software version v2.0.0 | Mar, 2026 |
| 1.1.2 | 1.1.2 | Updated operating instructions for software version v1.1.2 | May,2024 |
| 1.1.0 | 1.1.0 | Updated operating instructions for software version v1.1.0 | Nov,2023 |

# 2. Overview

## 2.1 Software Overview

The SAAD Tool is an advanced, all-in-one platform for centralized operations and maintenance. It streamlines and automates routine configuration tasks, ensuring consistent device parameters while greatly reducing the complexity and time required to manage large-scale deployments of terminal devices. Ideal for business environments — such as enterprises, campuses, and schools—where numerous ZYCOO audio terminal devices are in use, the SAAD Tool simplifies operations and enhances efficiency.

## 2.2 Operating Environment

Search Active Audio Device Tool can be installed on the following platforms:

- **Windows OS**
- **Mac OS**

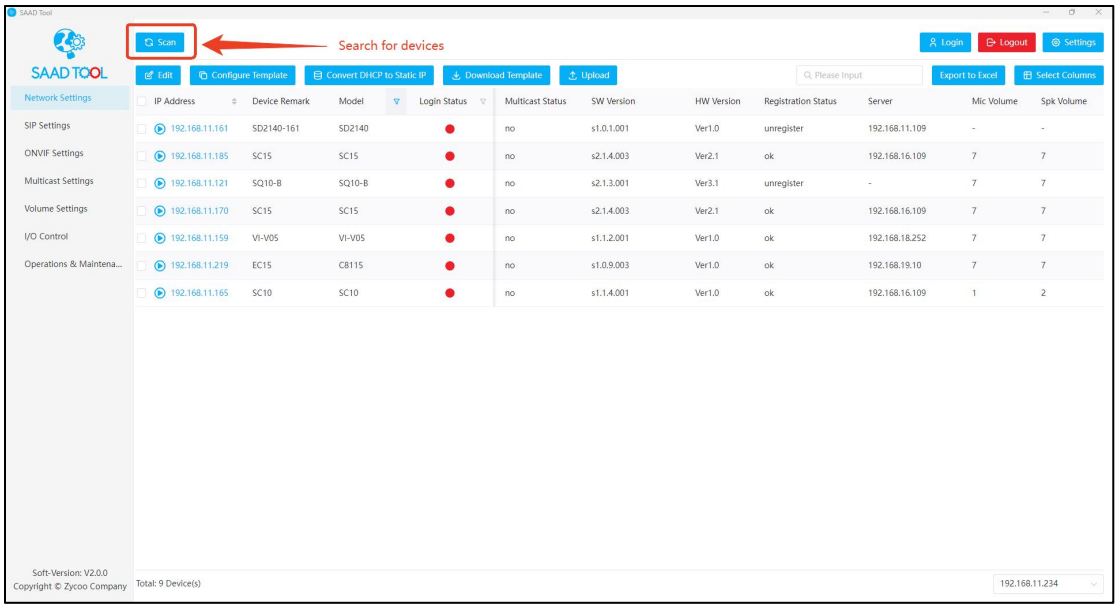
# 3. Feature Usage

## 3.1 Setup and Device Discovery

Scan for ZYCOO audio terminals on the local area network.

**Prerequisites:**

Ensure that the computer running the SAAD Tool and the target device are on the same Layer 2 network (same subnet).



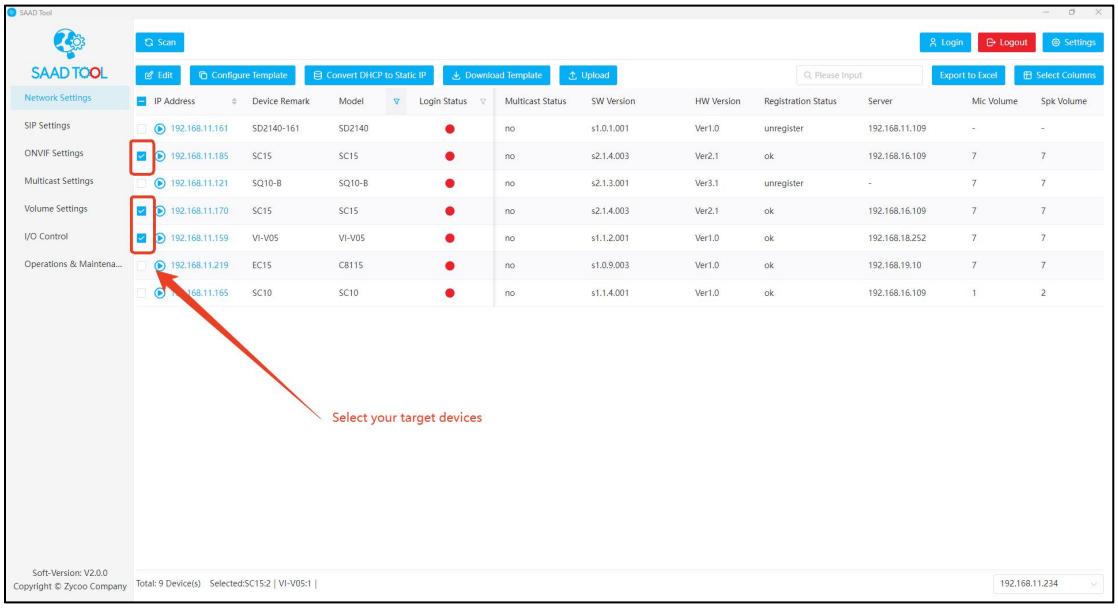

Scan to find Zycoo devices.

**Steps:**

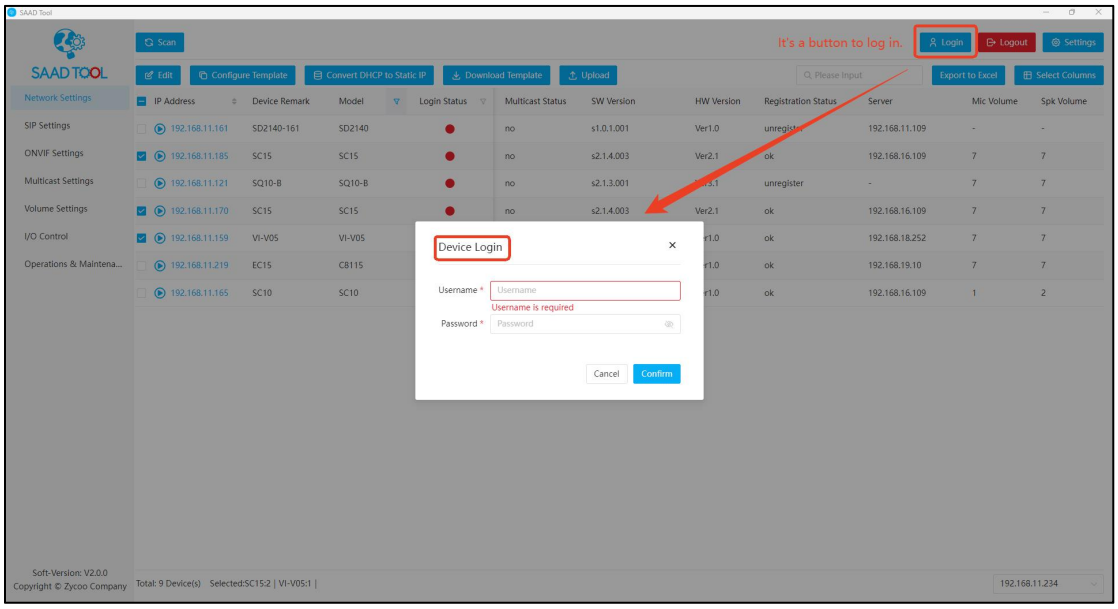
1. Launch the SAAD Tool software.
2. Click the blue “Scan” button in the upper-left corner of the interface.
3. Wait for the scan: The system will automatically send broadcast packets to discover online devices.
4. View results: Once the scan is complete, the main table will display information such as the Name, IP Address, Model, and MAC Address for all devices.
5. Refresh: If device information changes, click “Scan” again to refresh the list.

# 3.2 Device Authentication Management

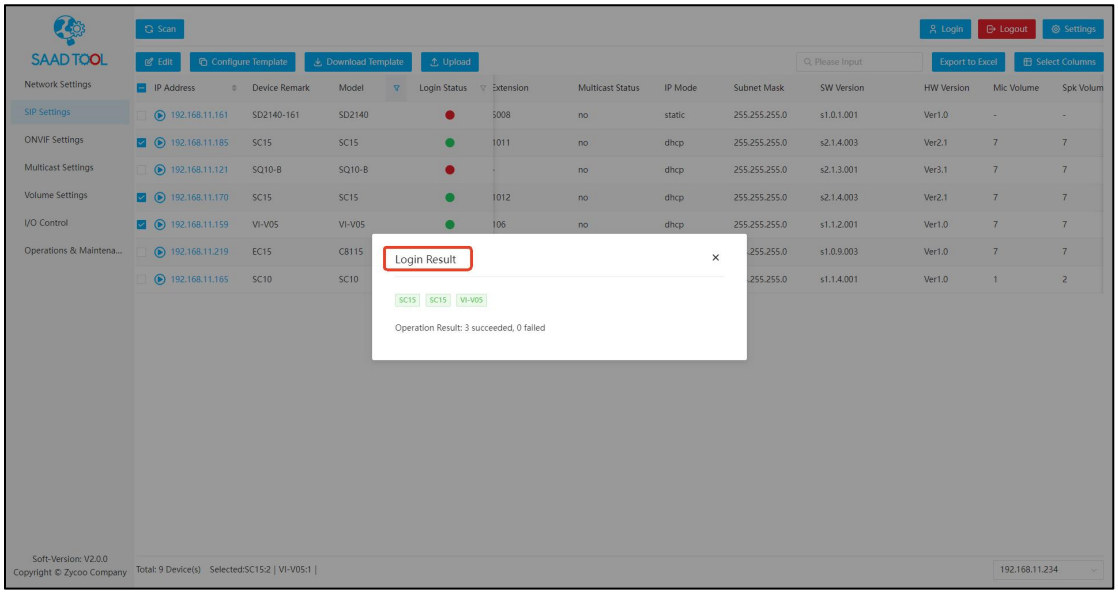
Obtain modification permissions for the device.




Select Devices




Click the “Login” Button

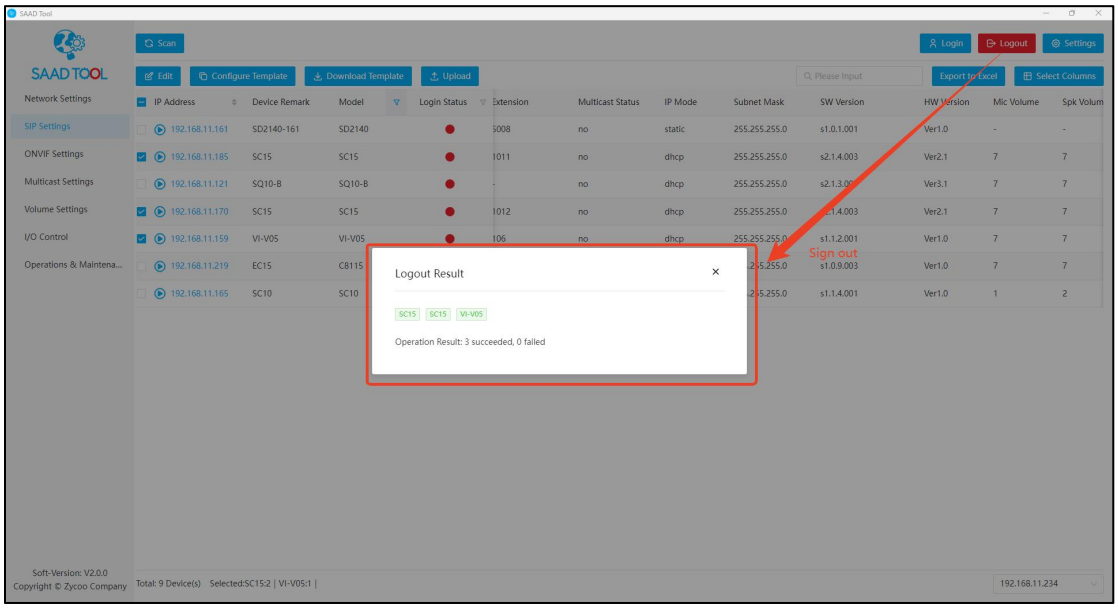



The Login Results

**Steps:**

**Batch Login (Login):**

1. In the device list, select one or more devices to configure (check the checkbox at the beginning of the row).
2. Click the “Login” button on the toolbar.
3. Enter the administrator username and password in the pop-up modal window.
4. Click “Confirm”.
5. Result Feedback: The status bar will display the number of successful logins. After successful login, the device status light turns green, and configuration deployment can then proceed.




The Logout Results

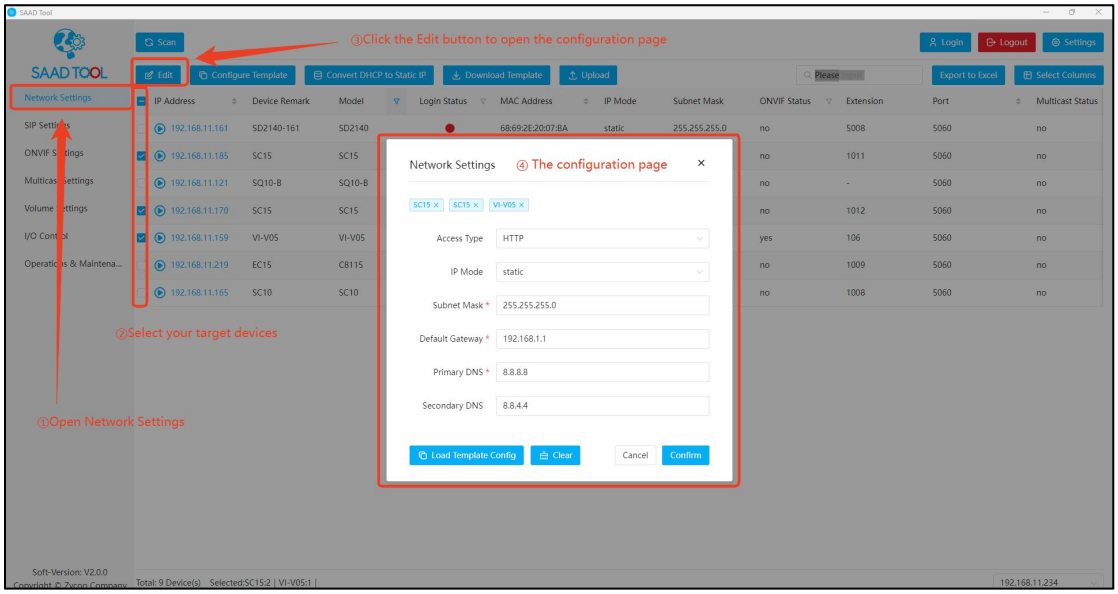
**Logout:**

1. In the device list, select one or more devices to configure (check the checkbox at the beginning of the row).
2. Manual Logout: Click the red “Logout” button in the upper-right corner.

## 3.3 Network Settings

Bulk modification of subnet masks and gateways, or bulk IP planning via Excel.

**Operation A: Online Bulk Modification** (Suitable for uniform subnet masks/gateways)



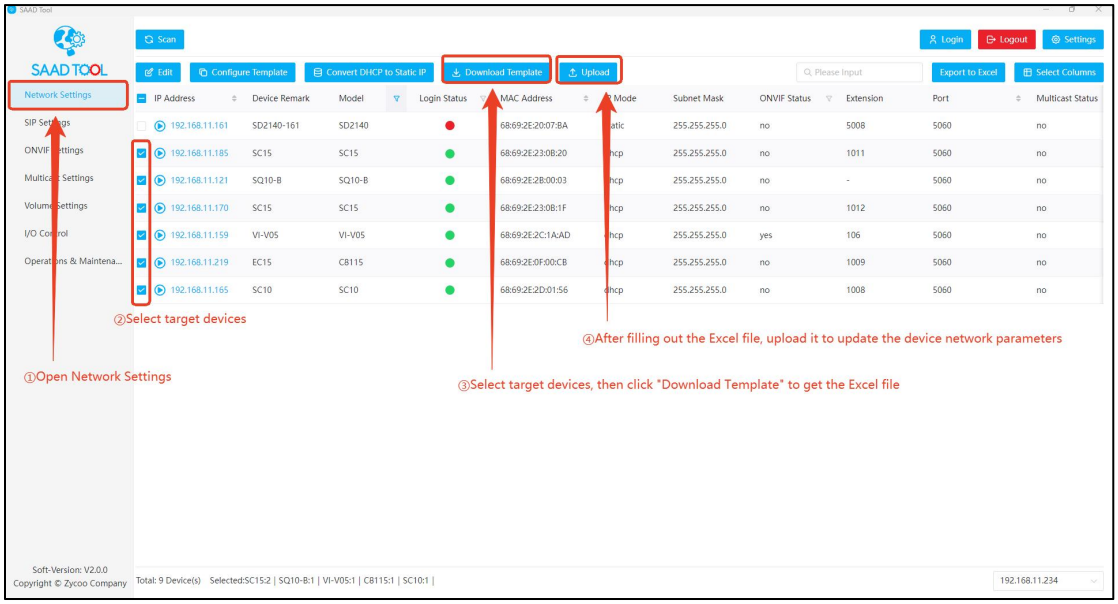

Edit the Network Settings

**Steps:**

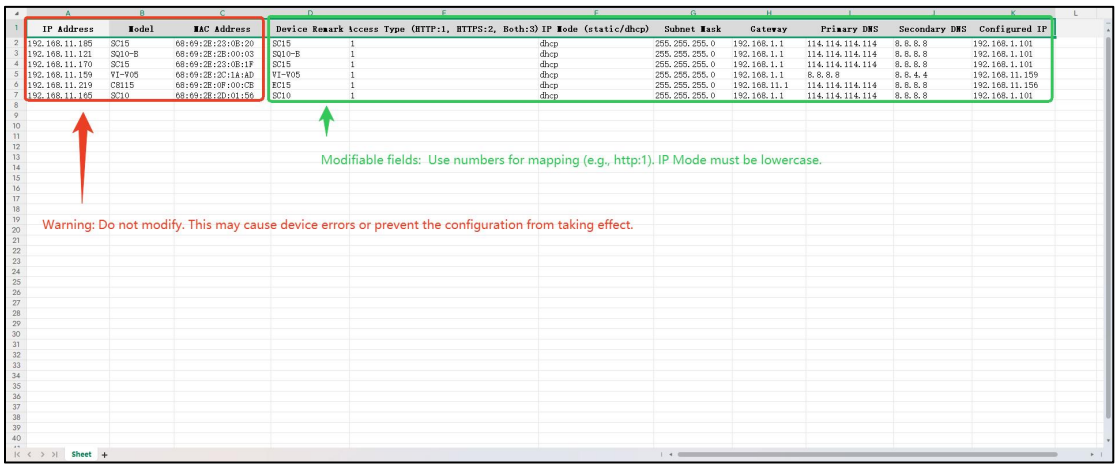
1. Select Devices: Check 2 or more devices.
2. Access the Page: Click “Network Settings” in the navigation bar.
3. Click the **Edit** button to configure the parameters：
4. Access Type: Select HTTP/HTTPS.
5. IP Mode: Select Static or DHCP.
6. Submit: Click “Submit”.

*Note: In multi-select mode, the IP Address field is hidden (to prevent IP conflicts), but you can modify Subnet Mask, Gateway, and DNS. If critical parameters are modified, the devices may automatically reboot.*

**Operation B:** Import via Excel Template (Suitable for Detailed IP Planning)




Download the Network Settings Templates



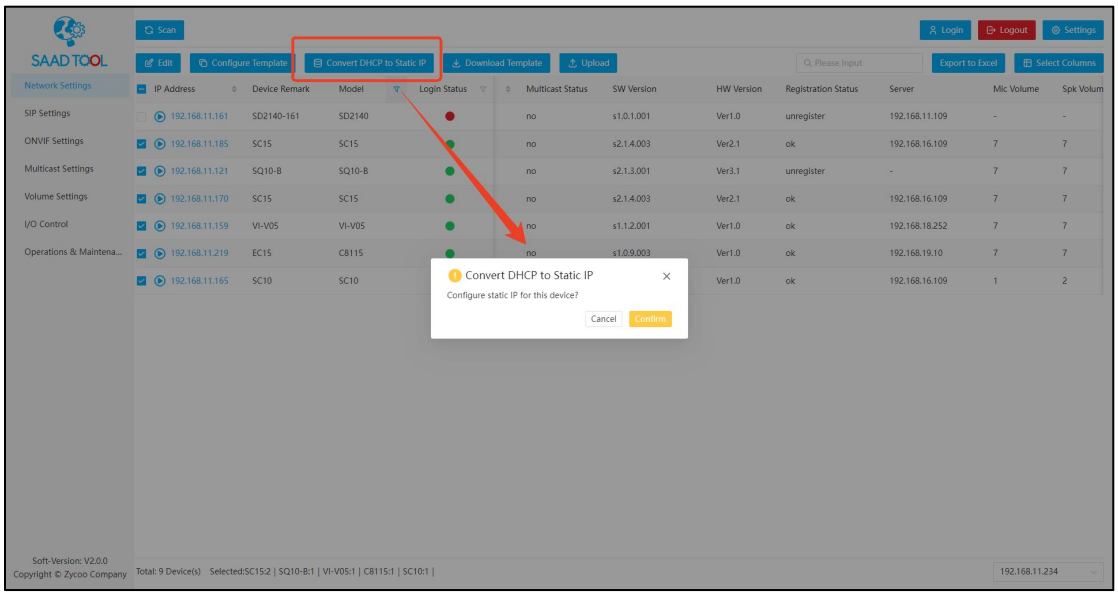

Fill the network parameters

**Steps:**

1. Download Template: Click “Download Template” in the toolbar. The system will generate an Excel file based on the currently selected devices (including MAC addresses, current IP, etc.).
2. Edit File: In Excel, modify the IP, subnet mask, and gateway as needed (Do not modify the MAC address).
3. Upload Updates: Click “Upload,” select the edited file, and click “Submit.”

*Note: Devices will reboot immediately after upload, causing a brief service interruption.*

**Operation C:** Switch from DHCP to Static (Set as Static), to convert a temporary IP obtained via DHCP into a static IP.

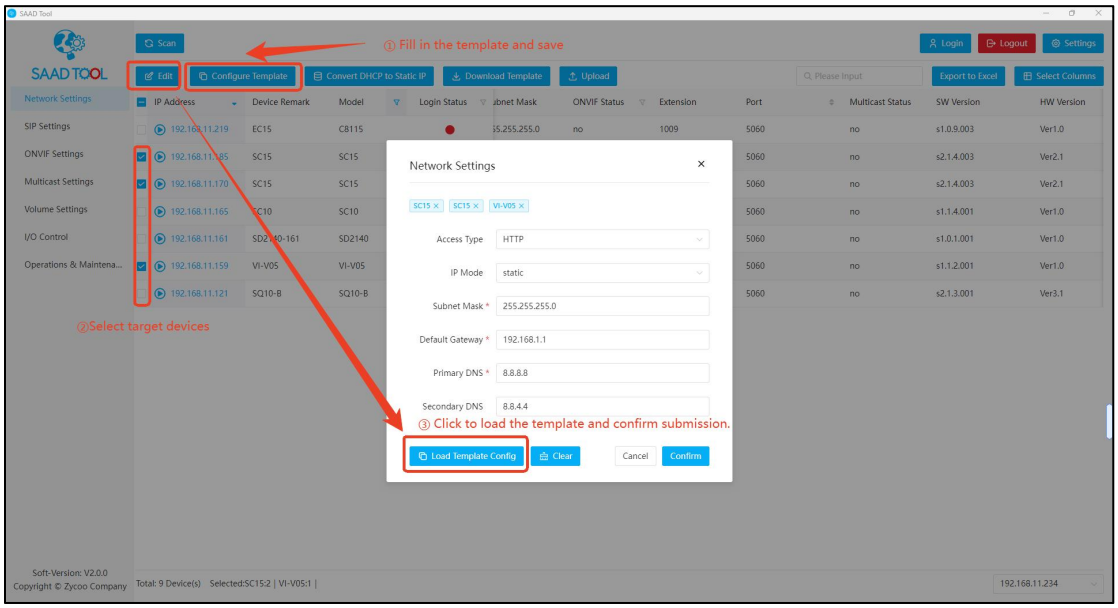



Convert DHCP as Static IP

**Steps:**

1. Select the devices with the network mode set to DHCP.
2. Click the “Convert DHCP to Static IP” button.
3. A confirmation pop-up will appear (Configure static IP for the device); click Confirm.
4. The device will automatically save the current IP as a static configuration and reboot.

**Operation D:** Save Current Network Settings as a Template (e.g., IP Mode, Subnet Mask, Gateway, DNS, etc.). Once saved, the template can be quickly applied using the "Edit" button, avoiding the need for repetitive input.




Load the template

**Steps:**

1.Save Template:

- Click the Config Template button on the toolbar.
- In the "Network Settings" dialog, manually configure the required network parameters (e.g., Fill in the Subnet Mask, Gateway, etc.).
- Select Confirm to save the configuration.

2.Apply Template:

- Select the device(s) you want to configure, then click the Edit button on the toolbar.
- In the pop-up "Network Settings" dialog, click the Load Template Config button and choose the template you saved earlier.
- The parameters from the template will automatically populate the dialog. You can make adjustments as needed (e.g., change the IP address).

3.Apply Configuration:

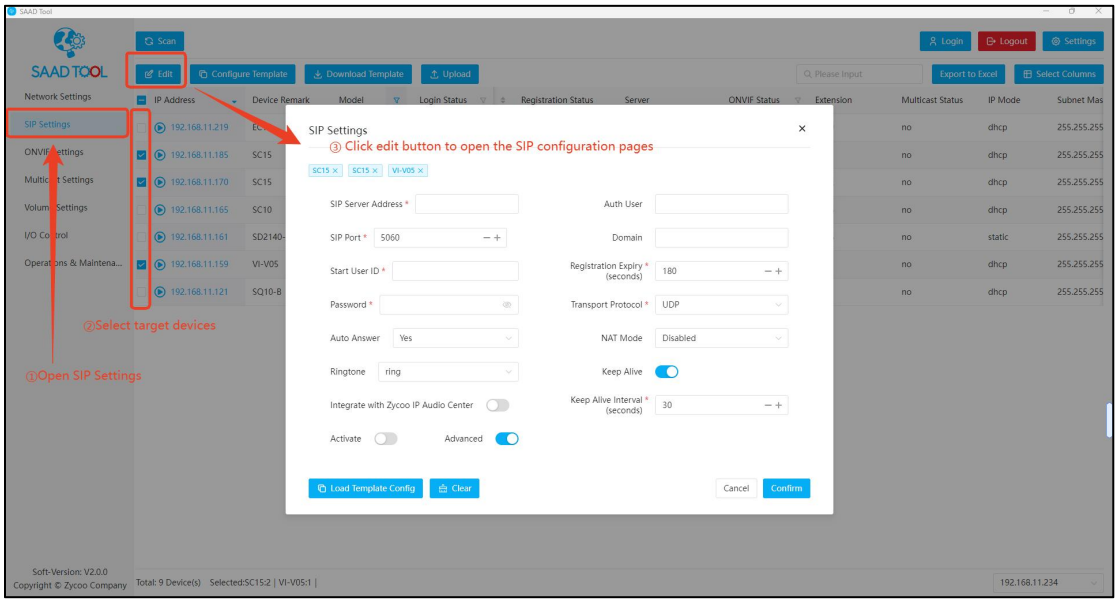
- Once the parameters are correct, click Confirm to apply the configuration to the selected devices.

*Note: Ensure that the IP address and other parameters in the template match the current network environment to avoid conflicts. It is recommended to back up the current configuration of the devices before applying the template.*

# 3.4 SIP Settings

Supports template import, batch configuration, and advanced parameter adjustments, making it suitable for scenarios requiring uniform SIP configuration across multiple devices.

**Operation A:**




SIP Settings Configure

**Steps:**

1. Access the Page: Click on "SIP Settings" in the navigation bar.
2. Select Devices: Check the target devices (e.g., 10 devices).
3. Fill in Configuration:

- SIP Server: Enter the IP address or domain name of the SIP server.
- SIP Port: The default SIP port is 5060. If your SIP server uses a different port, update this setting accordingly.
- User ID: Enter the SIP account number provided by your SIP server.
- Password: Enter the password for authorizing the SIP account.
- Auto Answer: Options include Yes, No, or Answer Delay. The default setting is ‘Yes.’
- Enable Integration with ZYCOO IP Audio Center: Disabled by default. Enable this option when connecting to the ZYCOO IP Audio Center. This option is available only for the primary SIP account.

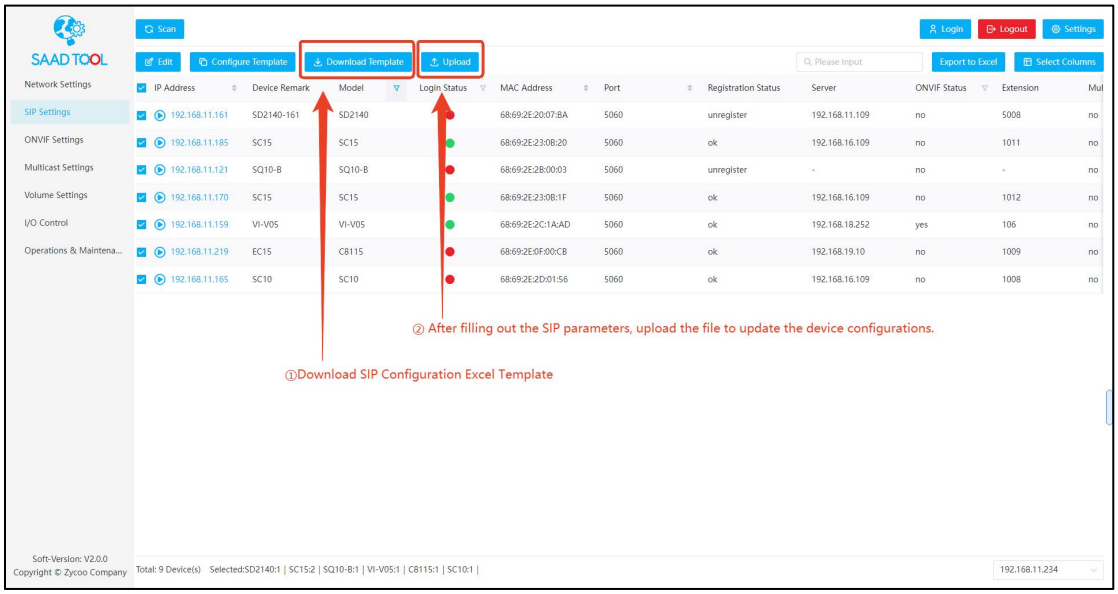
- Activate: Once enabled, the account will be activated and registered with the SIP server.

*If you have enabled the advanced switch, you can begin the following configurations.*

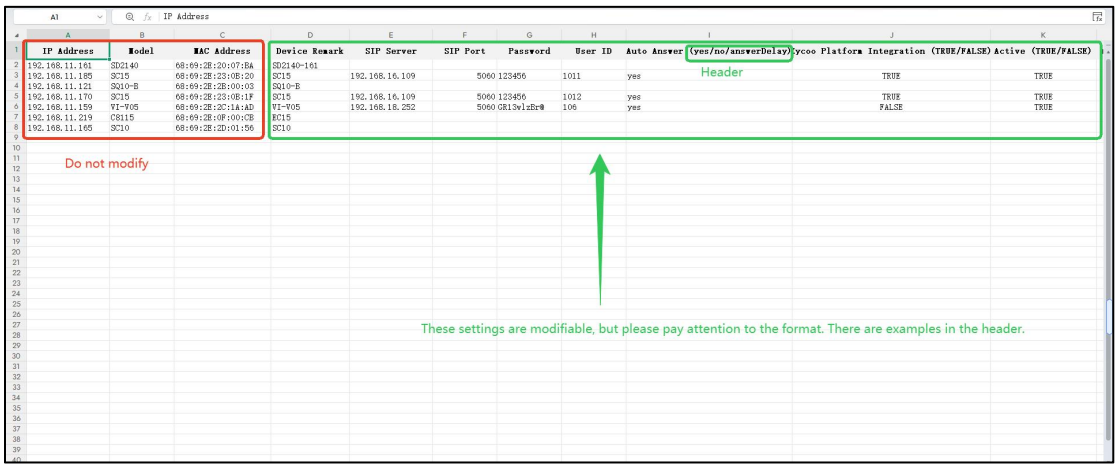
- Auth User: Enter the authorized username for the SIP account.
- Domain:  Enter the SIP Domain.
- Register Expiration (sec): Set the SIP registration expiration time, with a default of 180 seconds.
- Transport: Choose the transport protocol: UDP, TCP, or TLS.
- NAT Mode: Select the NAT mode and provide the necessary details. Supports STUN, TURN, and ICE modes.
- Keepalive: Enable the SIP keepalive function to maintain an active connection.
- Keepalive Interval(Sec): Set the interval for SIP keepalive messages.

*Note: If 10 devices are selected and the Starting User ID is set to 1001, the system will automatically assign the IDs 1001, 1002, 1003, ..., 1010 to the devices.*

**Operation B:** Import via Excel Template (Suitable for Detailed SIP Planning)




Import via Excel Template



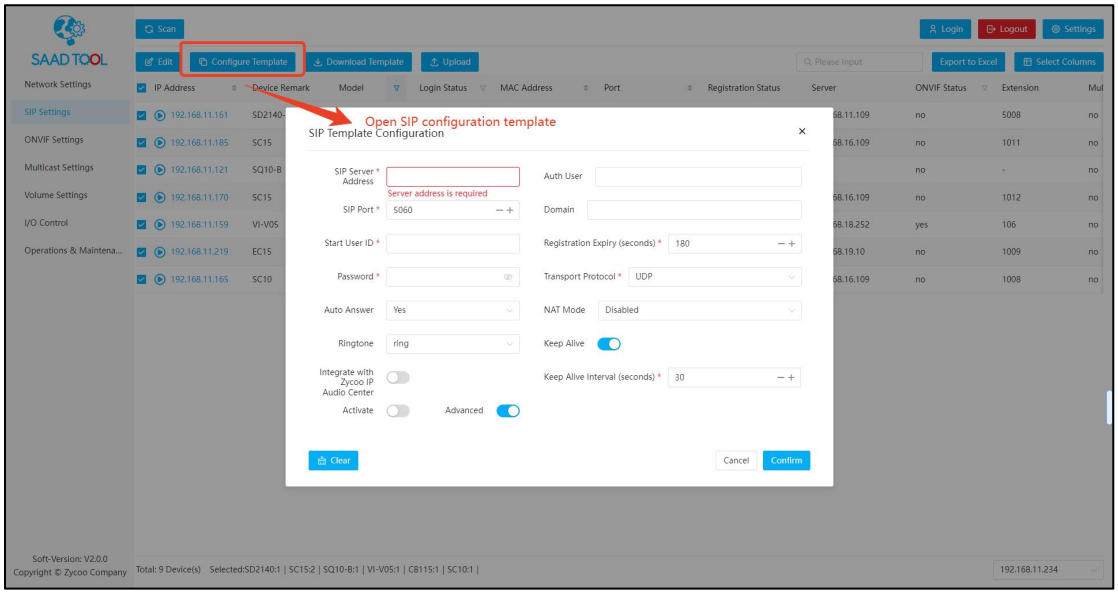

Fill the SIP parameters

**Steps:**

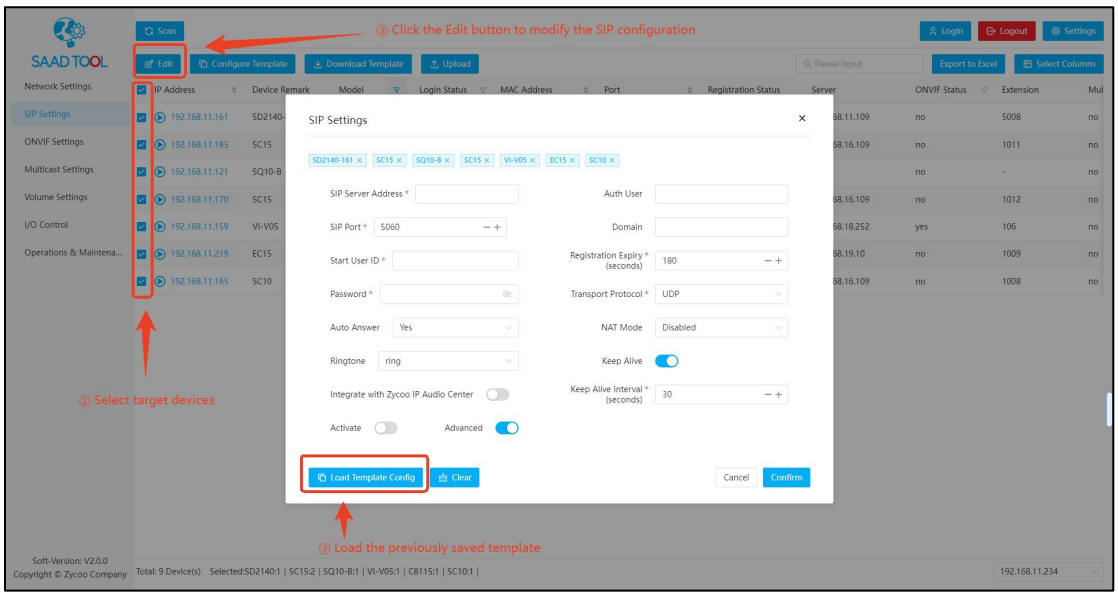
1. Download Template: Click “Download Template” in the toolbar.The system will generate an Excel file based on the currently selected devices (including MAC addresses, current SIP Server Address, etc.).
2. Edit File: In Excel, modify the SIP Server Address, SIP Port, etc. (Do not modify the MAC address).
3. Upload Updates: Click “Upload,” select the edited file, and click “Submit.”

*Note:No device selection needed before upload. The system automatically validates the MAC address and login status to determine parameter updates.*

**Operation C:** Save Current SIP Settings as a Template




Save Current SIP Settings as a Template




Load the template

**Steps:**

1.Save Template:

- Click the Config Template button on the toolbar.
- In the "SIP Settings" dialog, manually configure the required SIP parameters.

2.Apply Template:

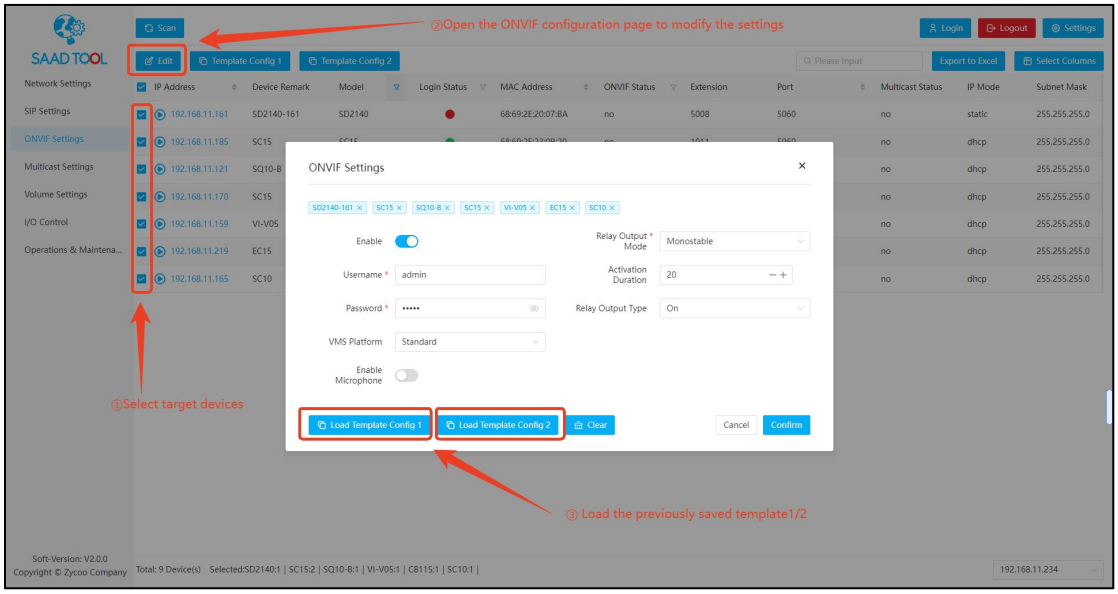
- Select the device(s) you want to configure, then click the Edit button on the toolbar.
- In the pop-up "SIP Settings" dialog, click the Load Template Config button and choose the template you saved earlier.
- The parameters from the template will automatically populate the dialog. You can make adjustments as needed .

3.Apply Configuration:

- Once the parameters are correct, click Confirm to apply the configuration to the selected devices.

## 3.5 ONVIF Settings

Use 2 templates (Config Template 1/2) to store different ONVIF parameters and batch modify device configurations without the need for repeated input.




ONVIF Settings

**Steps:**

1. Save Template: After entering the parameters, click Config Template 1 or Config Template 2 at the top of the interface (choose one to save).

2. Batch Apply Template:

- Select the devices to be modified (check the IP list).
- Click ONVIF Settings at the left, then either modify the settings directly or choose Template 1/2.

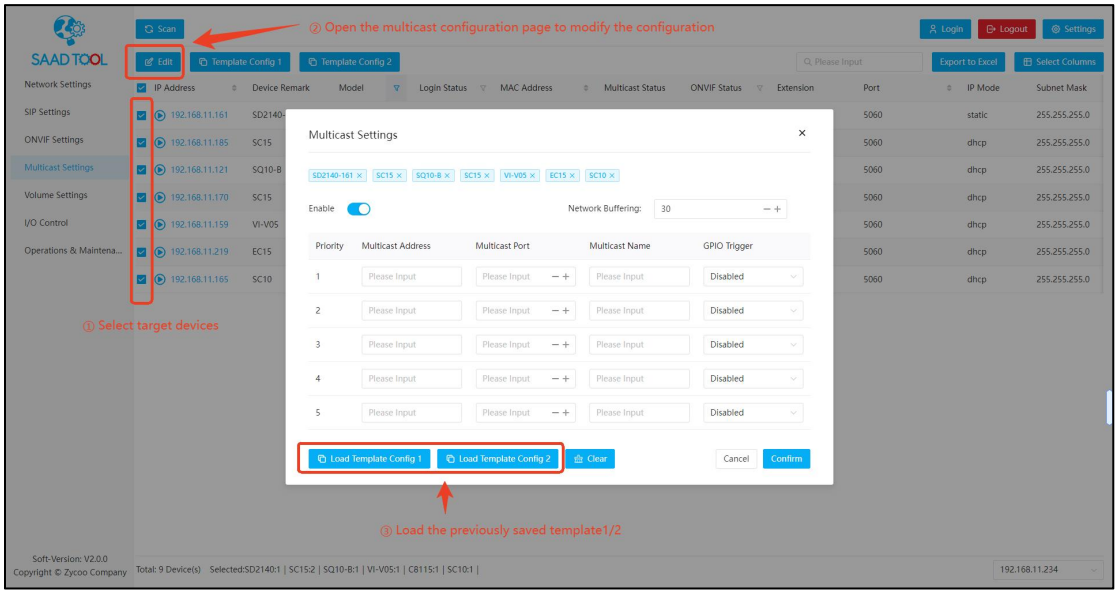
- Click Confirm, and the configuration will be applied to all selected devices in batch.

*Notes:The two templates can store different parameters . Simply select the corresponding template when switching.*

*The password and username must match the actual device configuration; otherwise, the connection will fail.*

## 3.6 Multicast Settings

Configure the multicast parameters (IP, port, etc.) for devices, allowing multiple devices to receive the data stream simultaneously. Once configured, the settings can be applied in bulk without repeated input. Currently, the system supports multicast parameter editing for up to 9 channels.



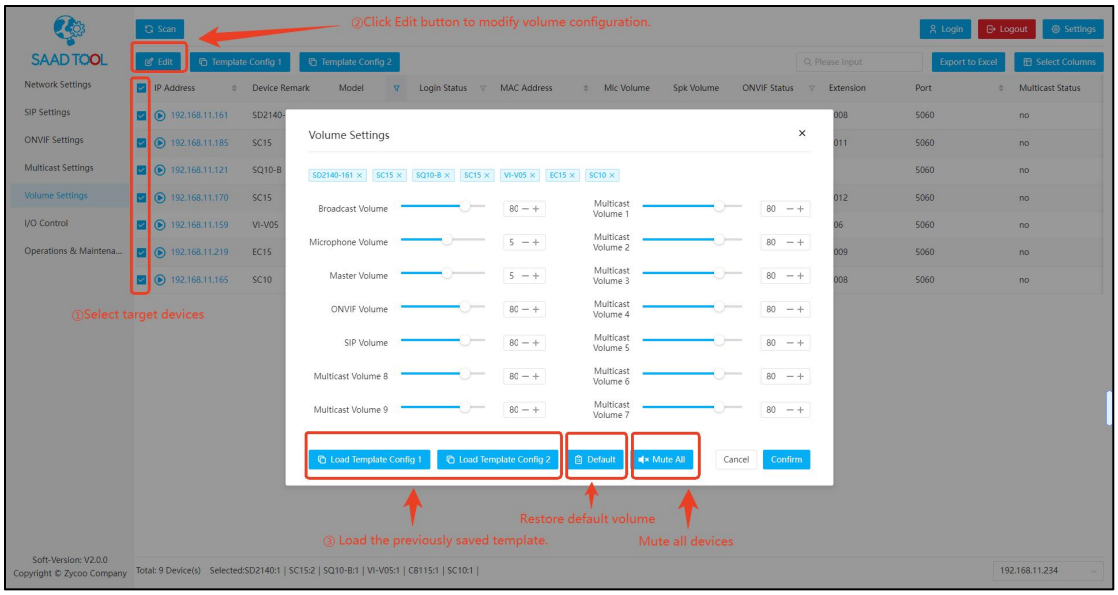

Multicast Settings

**Steps:**

1. Save Parameters:
   - After entering the Multicast Settings interface, click Config Template 1 or Config Template 2 at the top of the screen. Enter the corresponding parameters and save the template.
2. Apply in Bulk:
   - Select the IP list of devices you wish to configure.
   - Click Multicast Settings in the left navigation bar, then either import the previously saved template (1 or 2) or manually enter the settings.
   - Click Confirm, and the configuration will be applied in bulk to the devices.

# 3.7 Volume Settings

This function allows users to perform batch audio parameter configuration on multiple devices over the network, supporting various volume types such as Master Volume, Microphone Volume, and Broadcast Volume. Users can precisely control the volume via slider bars or manual input, and the tool also provides convenient operations such as saving templates, restoring defaults, and one-click muting.




Volume Settings

**Steps:**

- Enter the Settings Interface, In the device list on the left, check one or multiple devices whose volume you want to adjust.
- Click the "Volume Settings" option in the left menu bar to open the volume configuration window.
- In the "Volume Settings" window, locate the target volume item (e.g., Master Volume, Broadcast Volume).
- Click +/-: Use the "+" or "-" buttons on the right side of the slider to adjust step by step or directly click on the numerical input box and enter the desired value.
- Master Volume and Microphone Volume: 0 ~ 9. Other Volumes (e.g., Broadcast, ONVIF, SIP, Multicast): 0 ~ 100.
- To reset all volume parameters to their system initial values, click the "Default" button at the bottom of the window. This operation will clear all manually adjusted values and restore the factory or default configuration.
- To quickly set all volumes to 0 (mute), click the "Mute All" button at the bottom of the window. This operation will set all volume sliders to 0, achieving instant muting.
- If you need to save the current configuration for future repeated use, click the

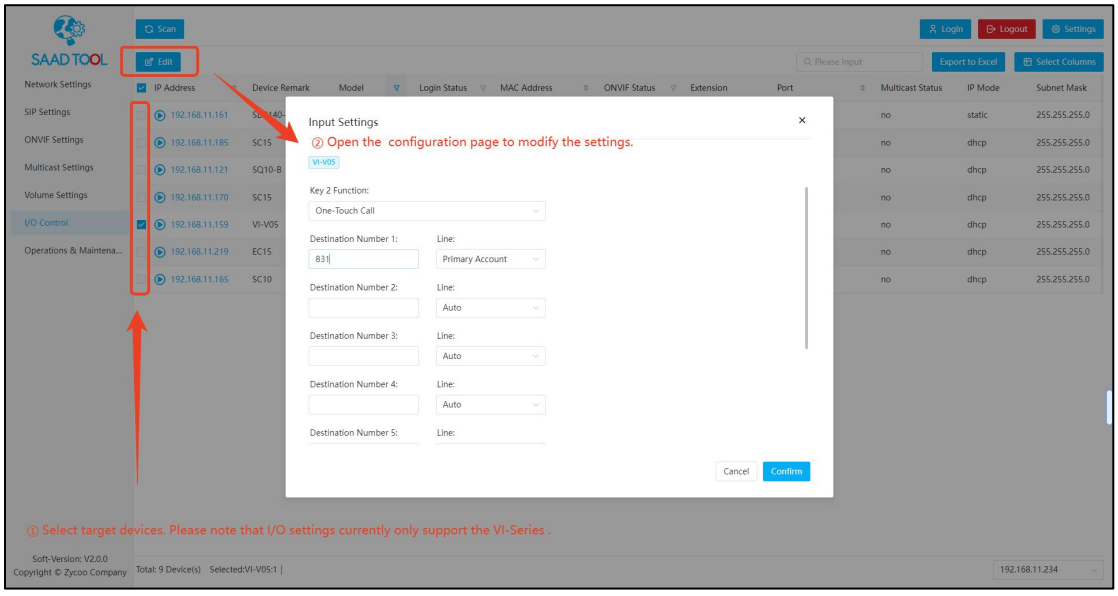
"Template Config 1" or "Template Config 2" button at the top of the window to save it.

- After completing all settings, click the "Confirm" button at the bottom of the window. The system will push and apply the current volume settings to all selected devices in batch.

*Notes:Value Range: Do not exceed the 0-9 range for Master and Microphone volumes, otherwise the system may restrict it or report an error.*
*Operation Effectiveness: All settings must be confirmed by clicking "Confirm" to be actually pushed down to the devices and take effect.*
*Mute Status: After using "Mute All", if you need to restore the sound, you must readjust the volume or click "Default" to restore the default values.*

## 3.8 I/O Settings

Configure the device's physical buttons (Button 1/2) to enable One-Touch Call or HTTP requests. This allows for automatic dialing or triggering external commands when a button is pressed, suitable for scenarios such as emergency assistance or automatic reporting.




I/O Settings

**Steps:**

1. Access Configuration Page:

- Click Input/Output Settings in the left navigation bar to enter the button configuration page.

- Select the target devices by checking the IP list.

2. Configure Button Parameters:

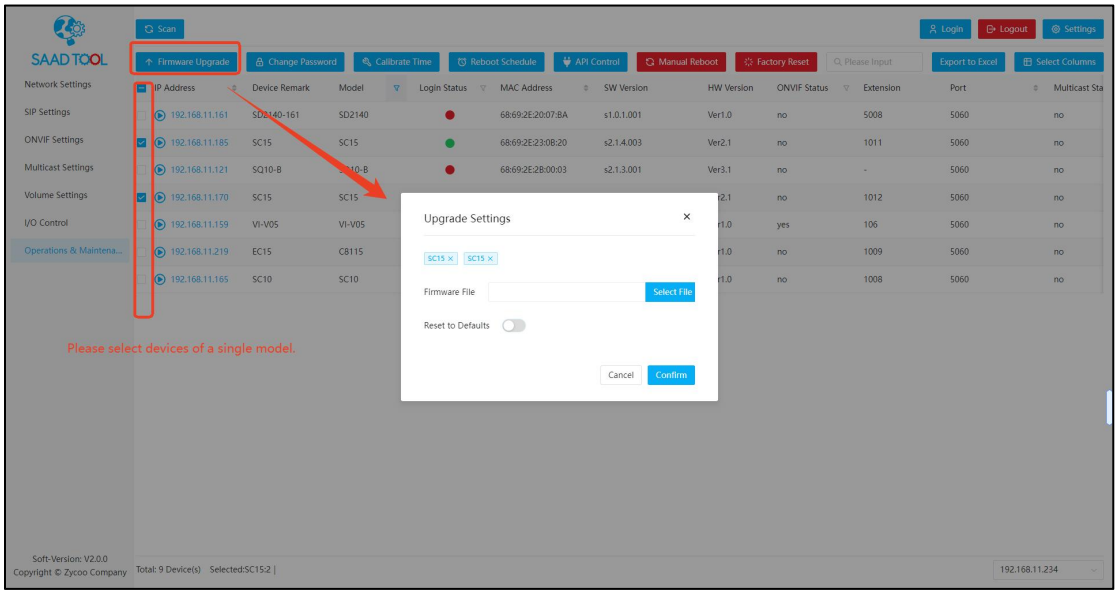
- In the Button 1 Function drop down list, select One-Touch Call or HTTP Request.
- If One-Touch Call is selected:
- Enter the Destination Number 1-5 (configure as needed) and select the Line.
- To enable redial on busy line, check Transfer to Next Destination Number (when busy or unavailable).
- To enable redial on no-answer, check Transfer to Next Destination Number (on no-answer).
- Set the No-Answer Timeout.
- Check Press Button Again to End Call (enabled by default, allows the call to be ended by pressing the button during the call).
- For dual-button devices, repeat the above steps to configure Button 2 (skip for single-button devices).

3. Apply Configuration:

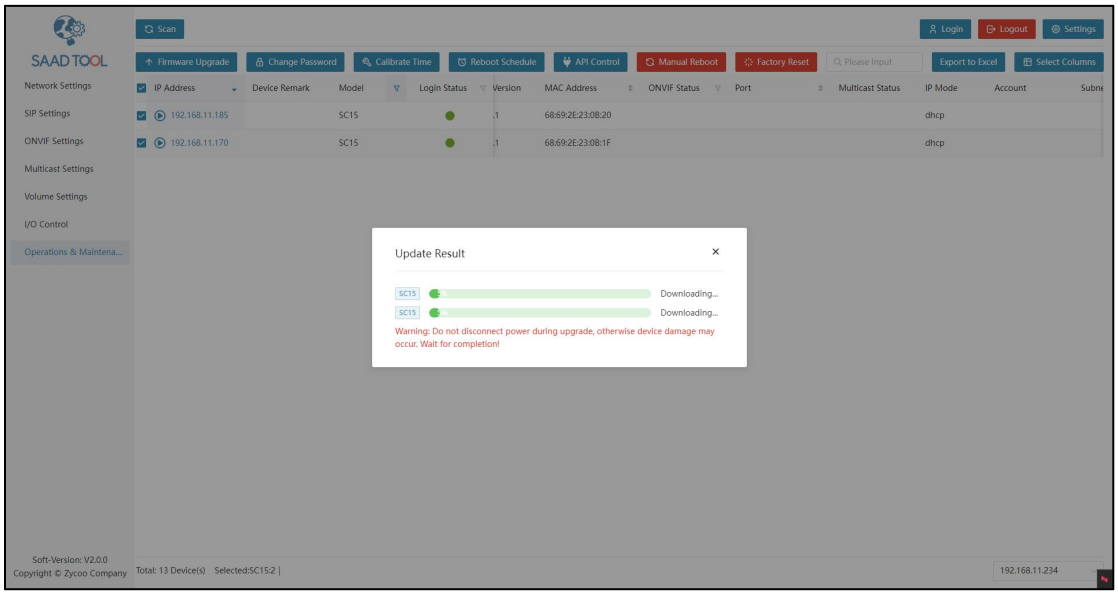
- Click the Submit button at the bottom of the page, and the configuration will be automatically applied to the devices.

*Note:Currently, I/O settings (specifically One-touch Call and HTTP Request) are supported exclusively on VI Series devices. Other models are not supported at this time.*

## 3.9 Operational Settings



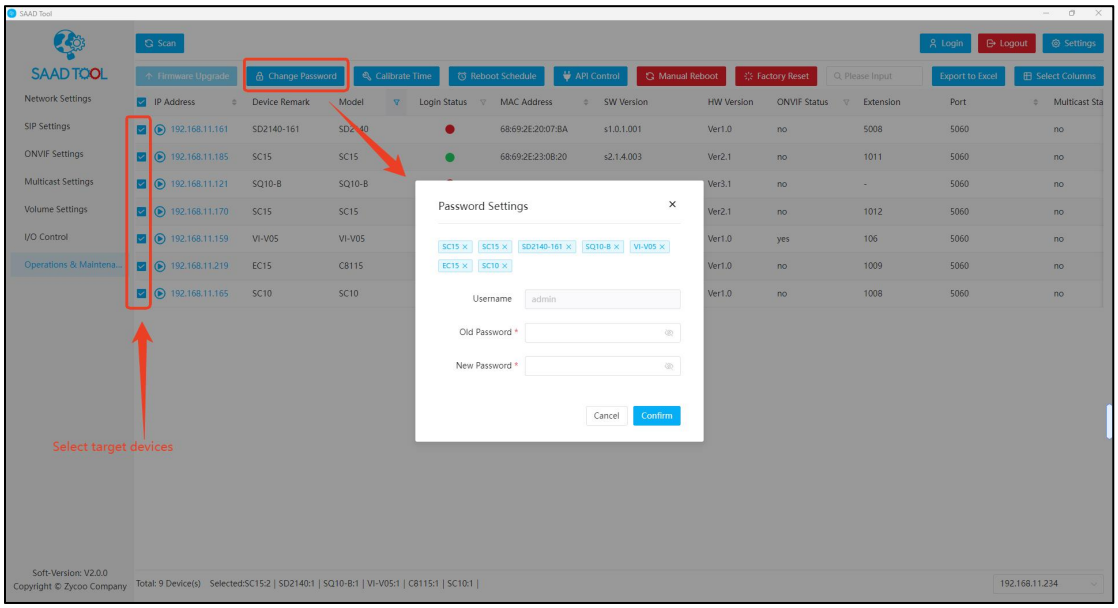

Firmware Upgrade




Upgrade in progress

**Steps:**

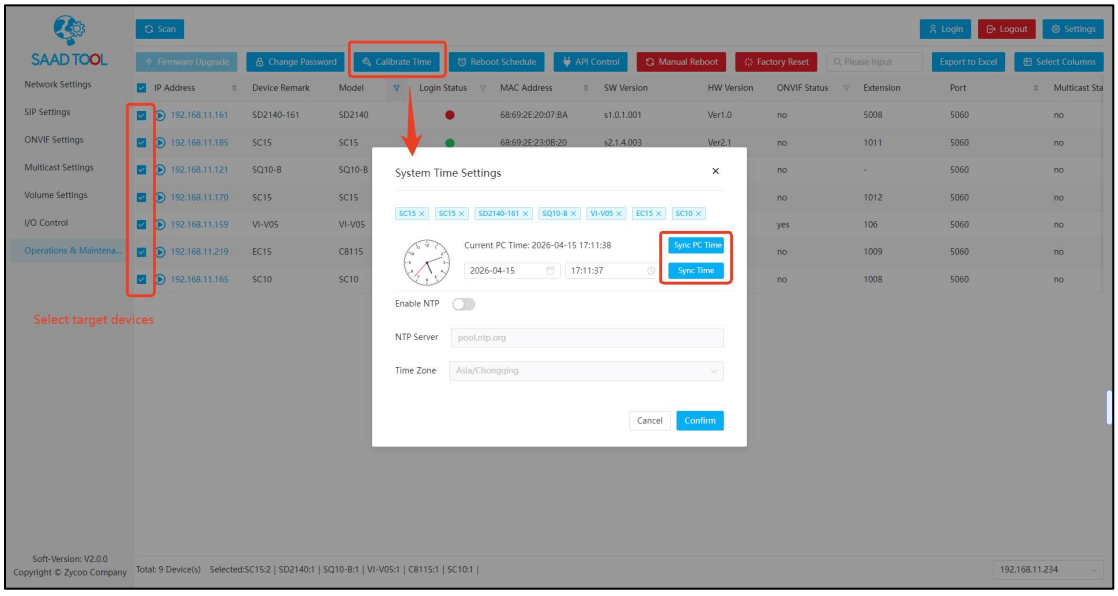
1. Go to Operation&Maintenance-> Firmware Upgrade.
2. Click “Select File” to select the local firmware file.
3. Select the option Reset Factory Defaults (optional, to restore to factory settings after upgrade).
4. Warning: The system will prompt "Do not power off during the upgrade process."
5. Click Submit.




Change Password

**Steps:**

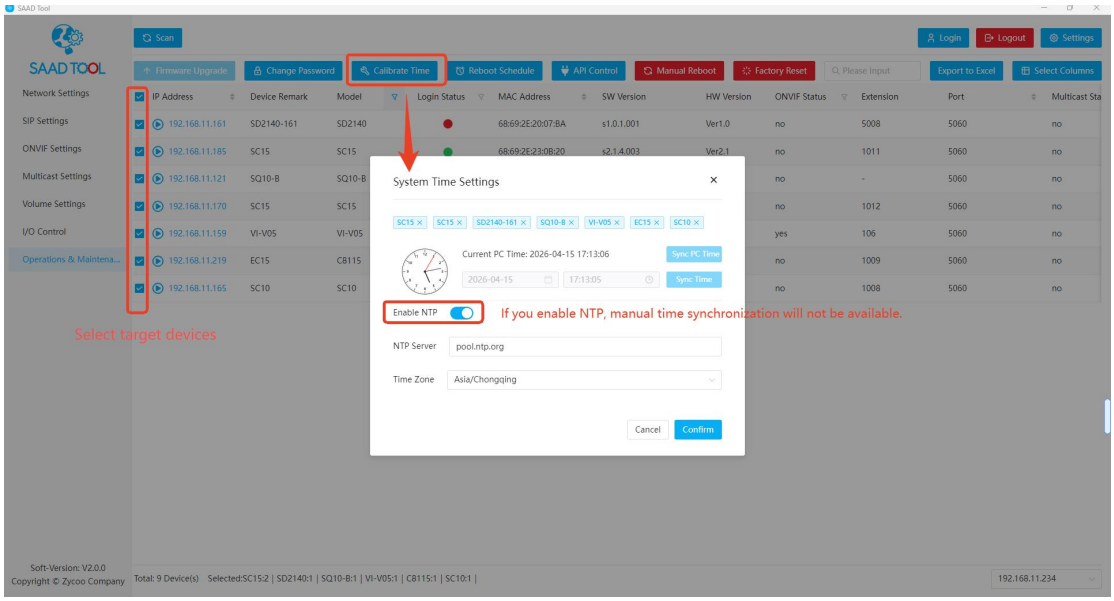
1. Access the interface: Click the Change Password button at the top.
2. Fill parameters: Ensure the Username is set to admin, then fill in the Old Password and New Password.
3. Apply: Select the devices' IP addresses and click Confirm to batch modify the passwords.




Time Calibration-Mode A: Sync with PC time

**Steps:**

1. Click PC Sync to automatically set the device time to the current time on your PC.
2. Click Sync to lock the time.
3. Click Submit to apply the settings.

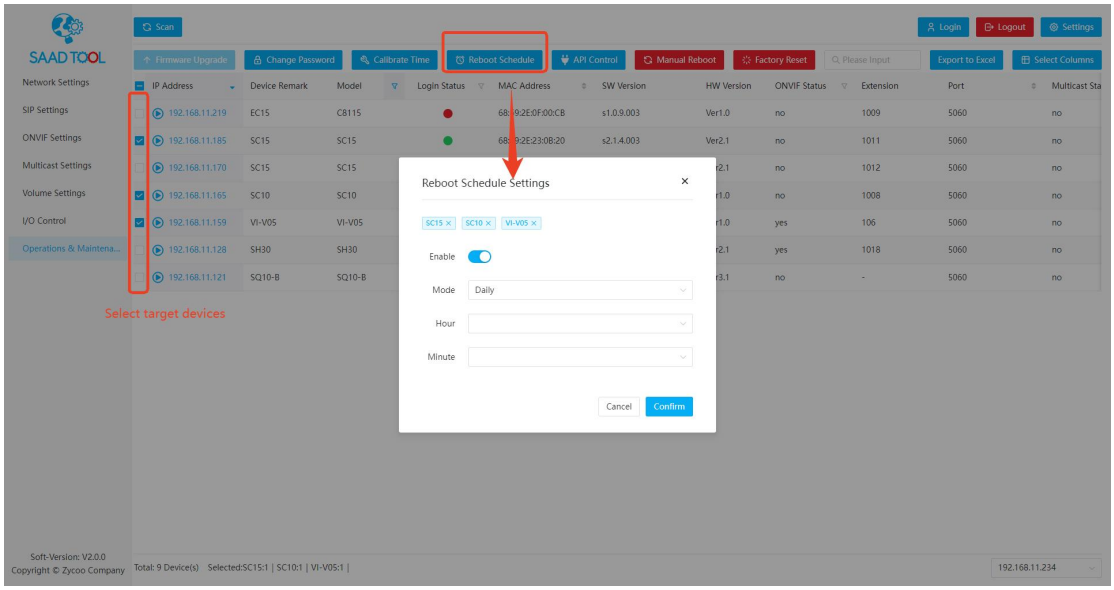



Time Calibration- Mode B: Sync with NTP server

**Steps:**

1. Enable the NTP master switch.
2. Enter the NTP server address (e.g., cn.pool.ntp.org).
3. Select the Time Zone (e.g., EU/Madrid).
4. Click Submit to apply the settings.

*Note:For certain terminals with non-disablable built-in NTP, manual time synchronization will not take effect; the device will continue to synchronize time via NTP.*

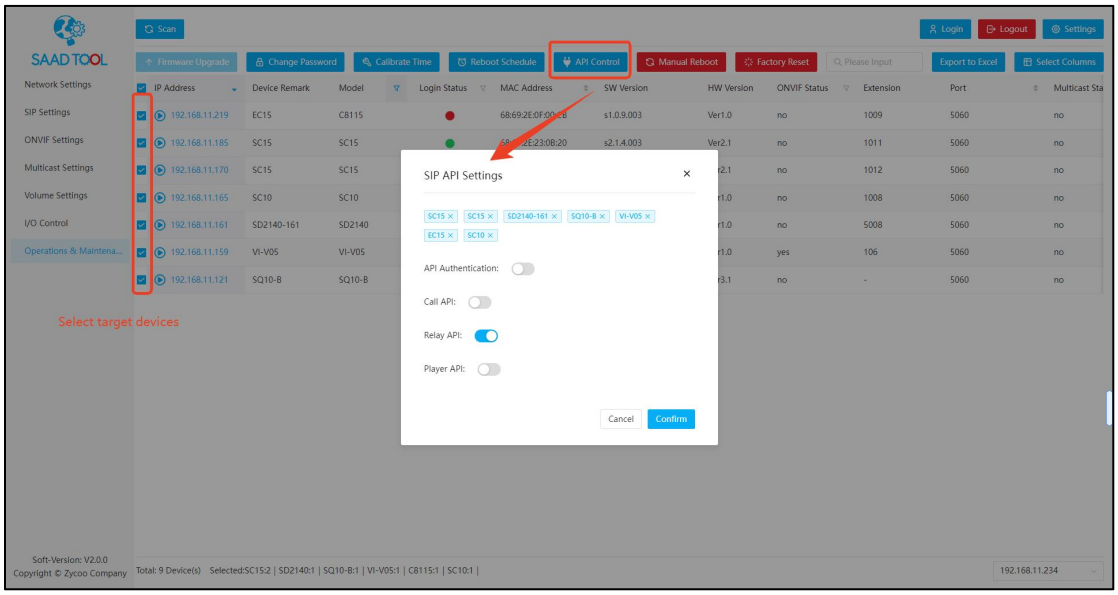



Timing Plan and Reboot

**Steps:**

Scheduled Reboot (Timing Plan):

1. Enable Reboot Schedule.
2. Set the Mode (Daily/Weekly).
3. Set the Hour and Minute (e.g., 2:00 AM).
4. Click Submit to save.

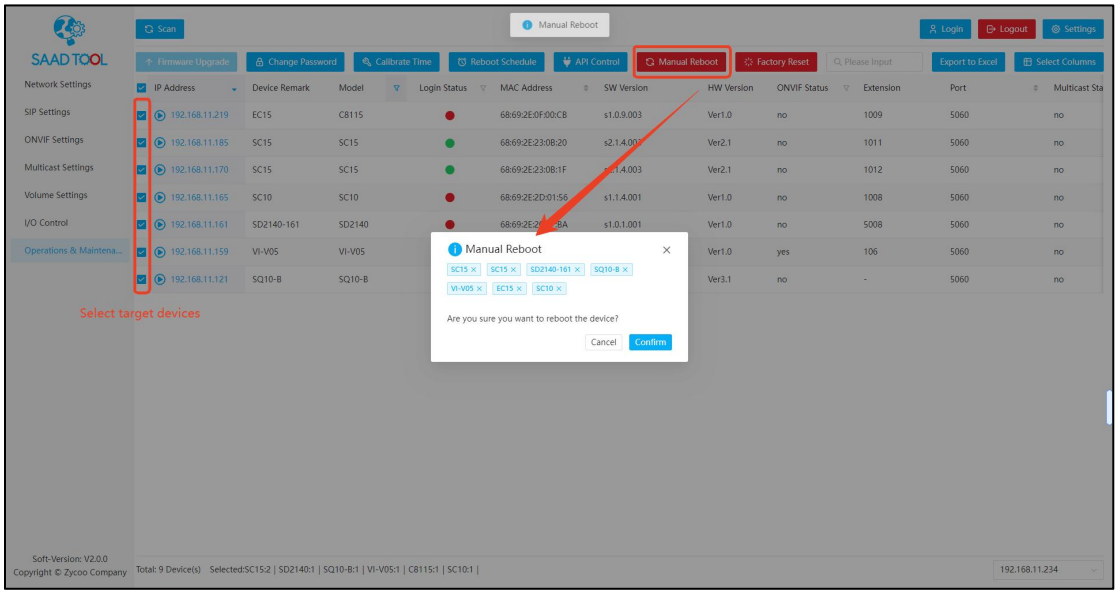



API Settings

**Steps:**

1. Access the configuration interface: Click the API Control button on the top toolbar to open the API Settings dialog and Enable API Access.
2. Click the Confirm button at the bottom of the dialog, and the configuration will be automatically applied to the devices.

*Note: If API Authentication is enabled, API calls require authentication credentials; otherwise, they cannot be executed.*




Manual Reboot & Factory Reset

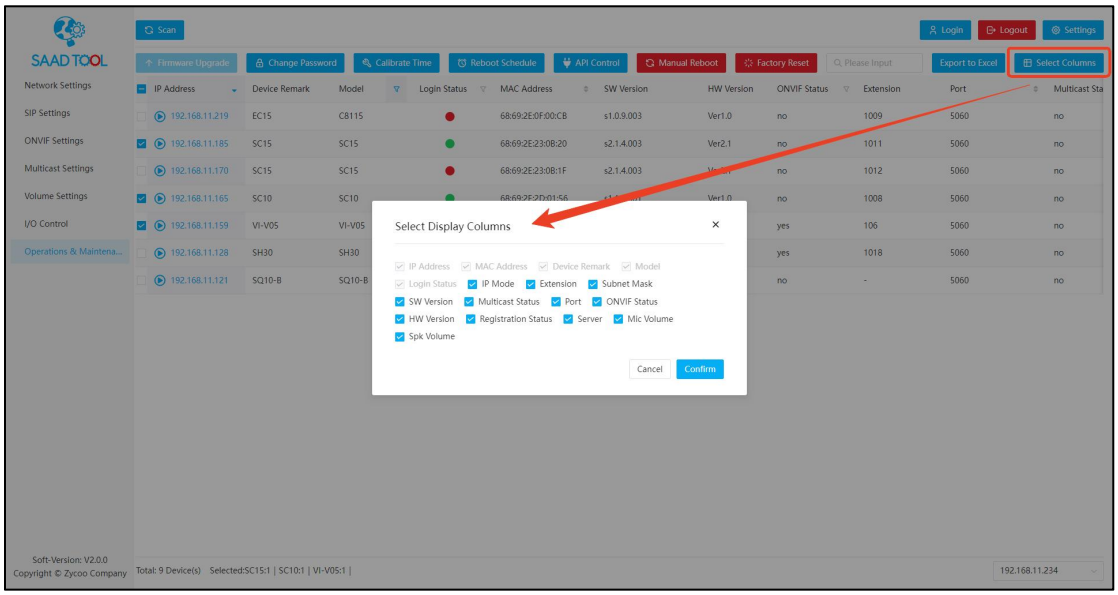
**Steps:**

1. Select device: Check the target device.
2. Execute action:

Click Manual Reboot to immediately restart the device.

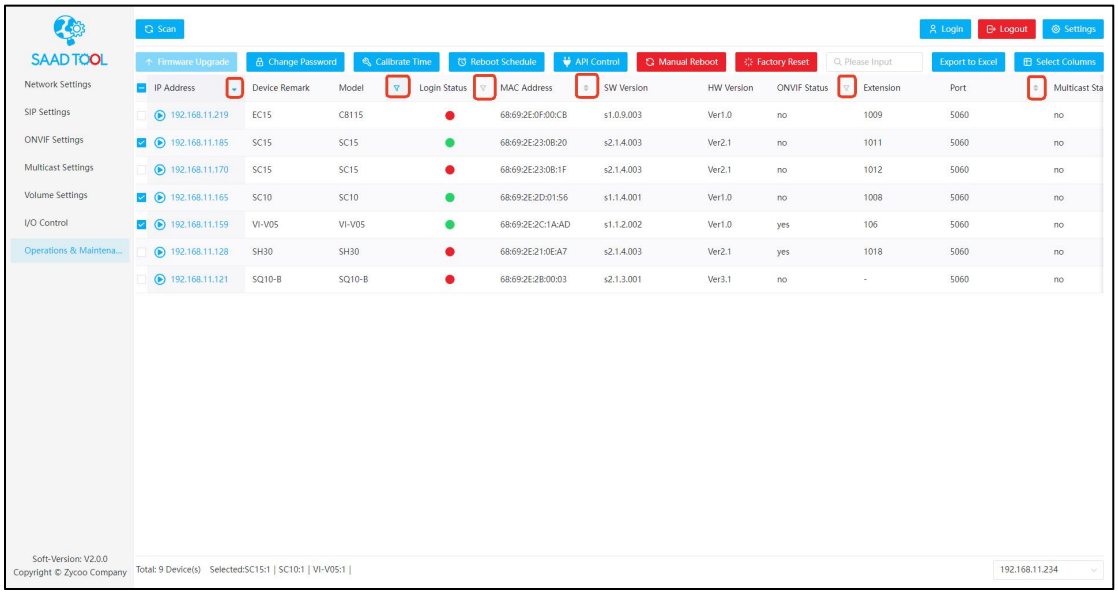
Click Factory Reset to restore the device to its factory settings (Note: all configurations will be lost).

# 4.Appendix: General Configuration



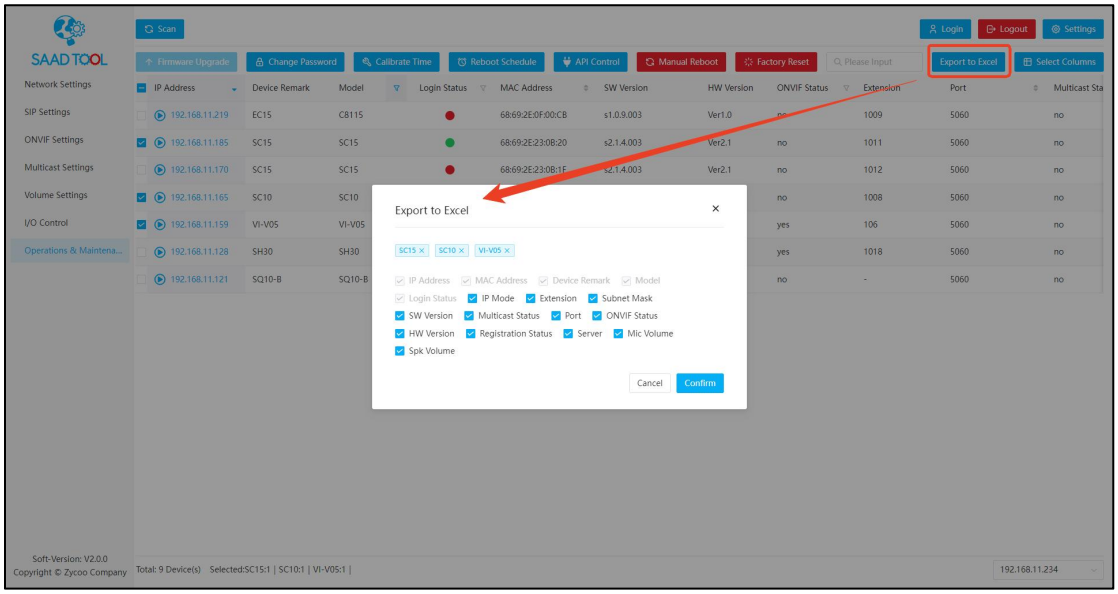

List Management

Custom Fields: Click the "Optional Fields" at the top of the table to select or deselect specific columns to display.



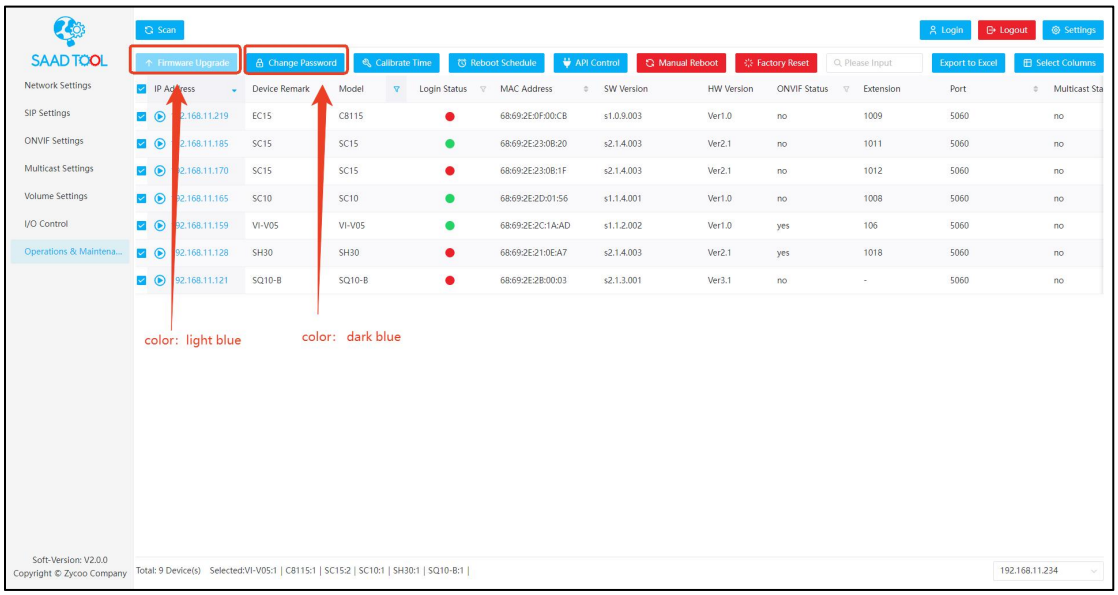

Filtering and Sorting

Filtering and Sorting: Supports filtering by Network Type, etc., or clicking the column headers to sort the data.



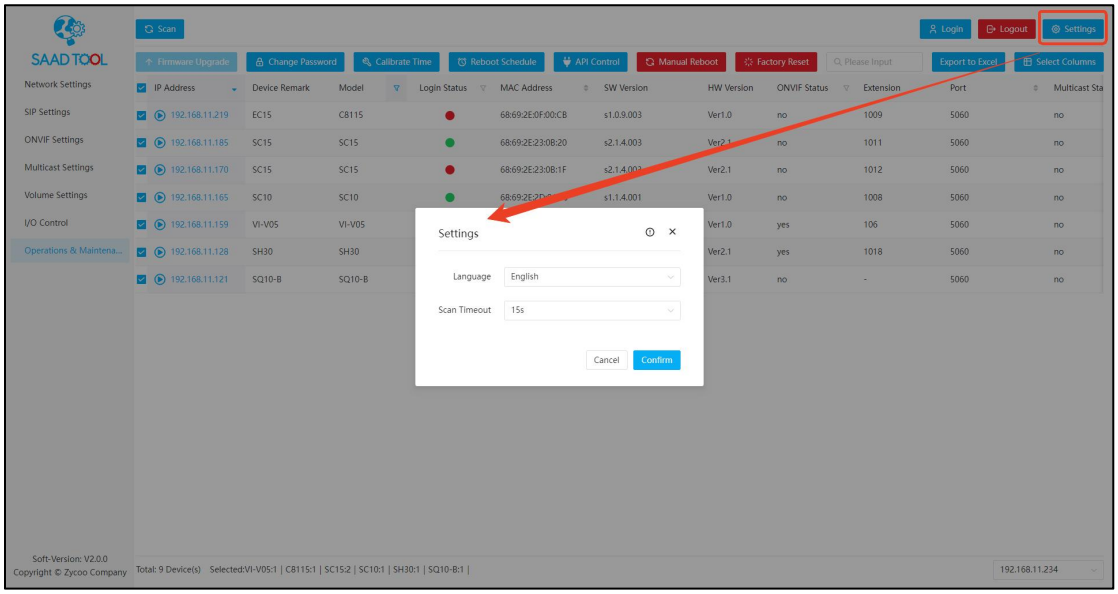

Data Export

Click Export to export the current list to Excel format for asset tracking.



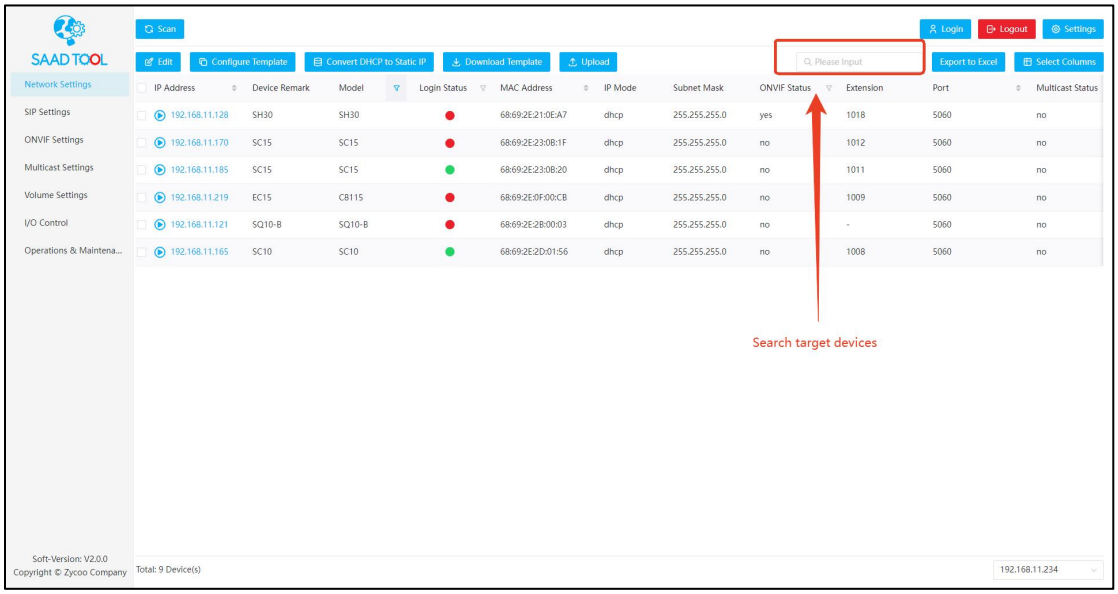

Button Colors

1. Dark Blue: Clickable
2. Light Blue:Unavailable
3. Feedback on Results: After applying configurations, status feedback is provided to indicate whether the configuration was successfully applied. Therefore, device configuration can only be applied after logging in.




System Settings

- Click the Settings icon in the upper-right corner.
- You can modify the Software Language (Simplified Chinese / English) and scan timeout . For more information about SAAD Tool, Please click the links provided.




Search target devices

The search function supports case-insensitive fuzzy matching for IP addresses, models, device remarks, and MAC addresses.

***Technical Notes & Compatibility***

***Compatibility varies across currently available ZYCOO terminals. This may result in the Device Remark, Subnet Mask, ONVIF Status, and Multicast Status fields failing to display. If visibility of these fields within the SAAD Tool is required, please contact Technical Support to request a Beta firmware upgrade package or wait for the official standard release on the website.***

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