3onedata



BlueEyesTools Management Software

User Manual

Version 01

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Preface

The user manual of BlueEyesTools Management Software has introduced the software:

- Product features

Audience

This manual applies to the following engineers:

- Network administrators
- Technical support engineers
- Hardware engineers

Conventions

Format	Description
" "	Words with “” represent the interface words. Fox example “Port number”.
>	Multi-level path is separated by ">". Such as opening the local connection path description: Open "Control Panel> Network Connection> Local Area Connection".
Light Blue Font	It represents the words clicked to achieve hyperlink. The font color is as follows: ‘Light Blue’.
About this chapter	The section ‘about this chapter’ provide links to various sections of this chapter, as well as links to the Principles Operations Section of this chapter.

Symbols

Format	Description
Notice	Remind the announcements in the operation, improper operation may result in data loss or equipment damage.
Warning	Pay attention to the notes on the mark, improper operation may cause personal injury.

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Format	Description
 Note	Make a necessary supplementary instruction for operation description.
 Key	Configuration, operation, or tips for device usage.
 Tips	Pay attention to the operation or information to ensure success device configuration or normal working.

Revision Record

Version No.	Date	Revision note
01	5/31/2021	Create document

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1 Software Overview

BlueEyesTools is a device configuration software developed for the convenience of managing devices, which is mainly aimed at other network management devices such as network management industrial Ethernet switches, serial port servers, CAN servers and MODBUS gateways. Run Windows2000/XP/Win7/Win10 and other operating systems.

BlueEyesTools supports functions such as searching devices, modifying device IP, modifying device name and number, obtaining device configuration, distributing configuration, obtaining log, upgrading, quickly entering device Web settings and Telnet.

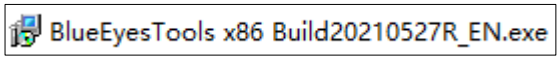
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2 Installation

2.1 Program Installation

Note

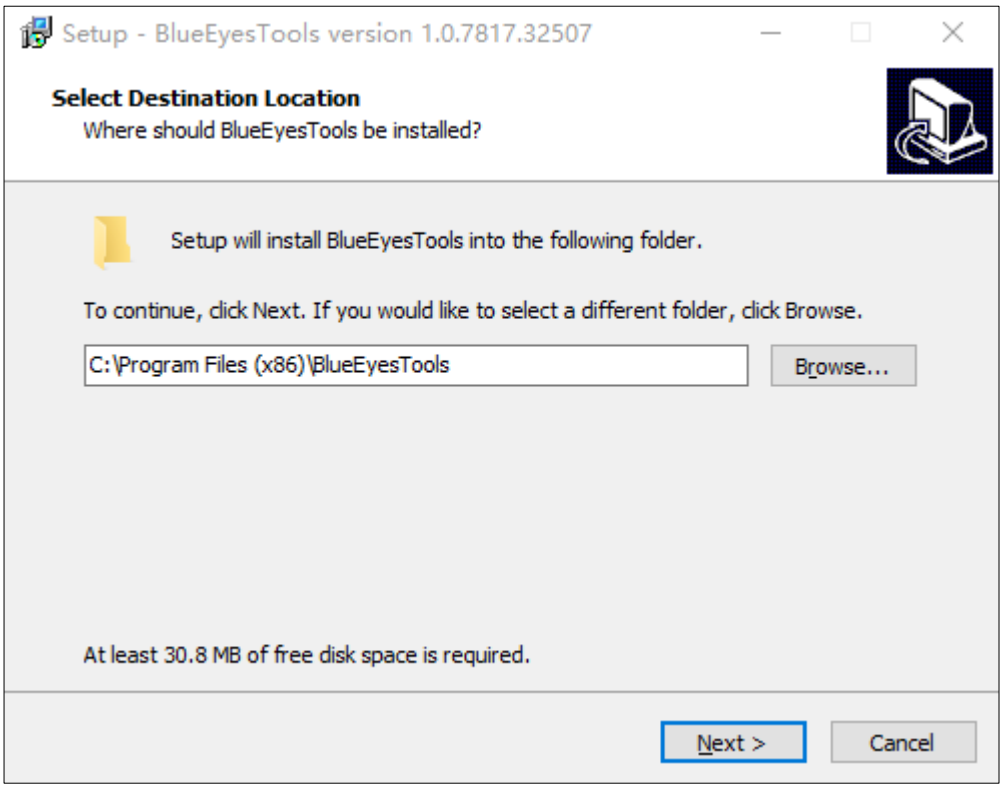
The following software versions are only examples, please refer to the actually acquired. software version number.



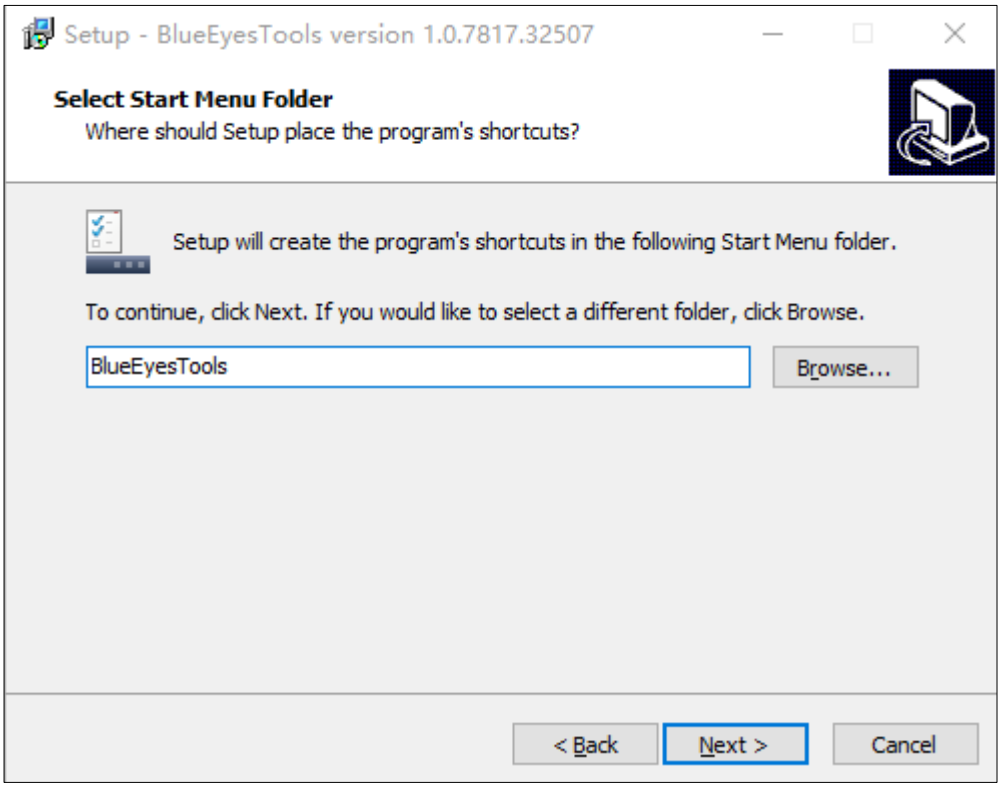
2.2 Installation Steps

Step 1 Run the installer, and the installation wizard will appear on the screen, and enter the target path display interface of the installer. As shown in the following figure, select the path of software installation through [Browse];

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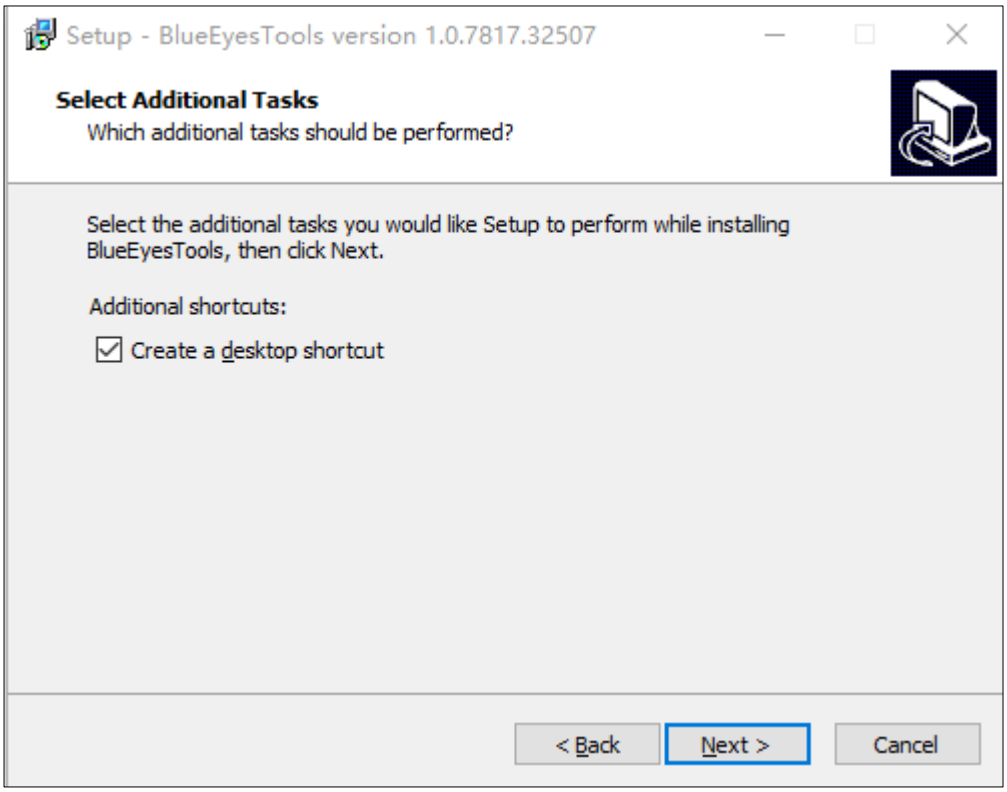


Step 2 Select “Next”, then click [Browse] to select the folder where the shortcut of BlueEyesTools is located after installation, as shown in the following figure;

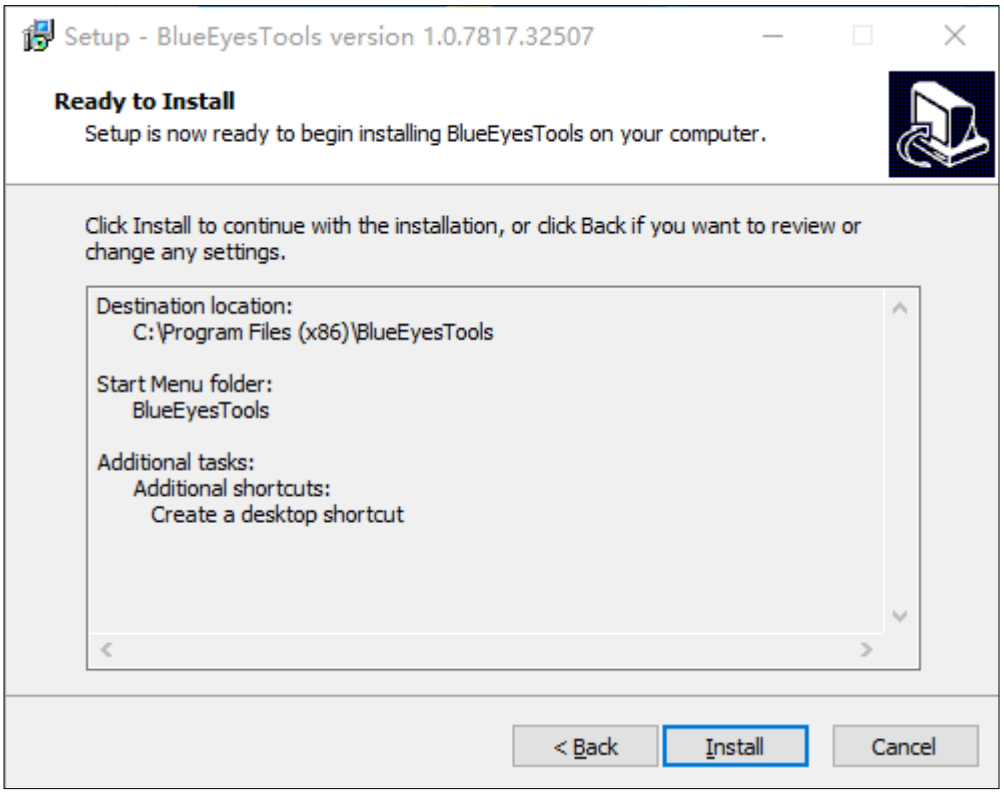


Step 3 Select “Next” to decide whether to create a desktop shortcut as shown in the following figure (if yes, there is a BlueEyesTools shortcut icon on the desktop after installation);

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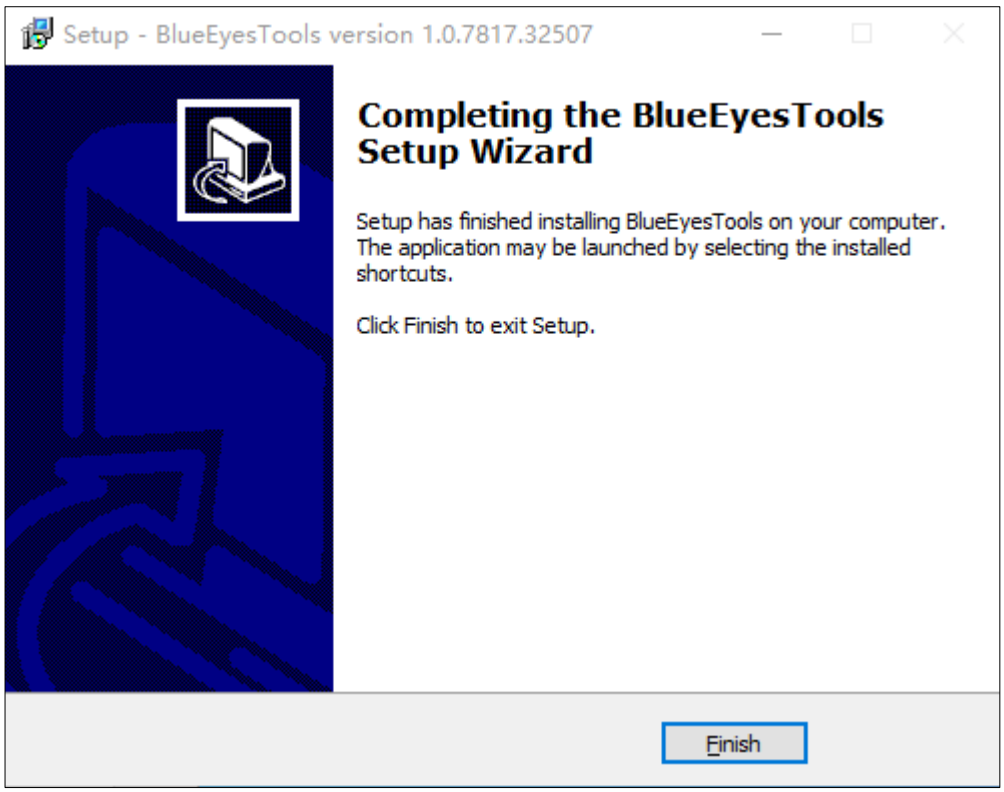


Step 4 Select “Next”, if the user chooses to create shortcut on the desktop in Step 3, then enter the installation interface as shown in the following figure.



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Step 5 Select “Install” and wait for the installation to be completed. The display interface is as shown in the following figure.



Step 6 Select “Finish” to finish this installation. And check whether there are installed BlueEyesTools in the folder under the installation path. If you choose to create shortcuts on the desktop, it will be on the desktop.

Step 7 End.

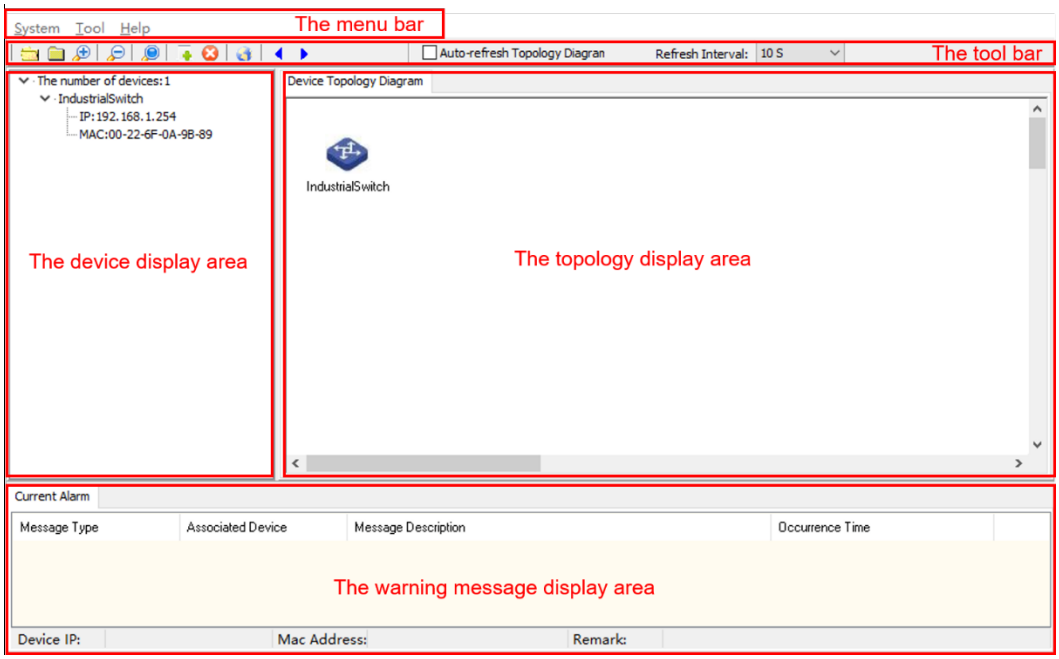
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3 Software Interface

BlueEyesTools software, and its icon is shown in the following figure.



Double-click the icon to run BlueEyesTools software, and the main interface is shown in the following figure;



The configuration page is divided into five parts. Click the options in the menu bar to realize the corresponding function configuration:

1. The menu bar

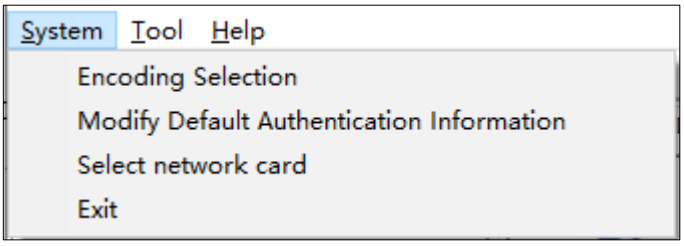
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2. The tool bar
3. The device display area
4. The topology display area
5. The warning message display area

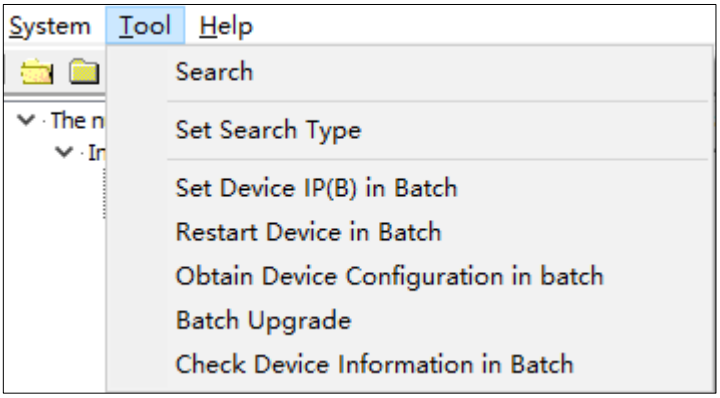
- The menu bar includes system, tools and help as shown in the following figure;



  - The system option includes select code, modify default authentication information, specify network card and exit as shown in the following figure.

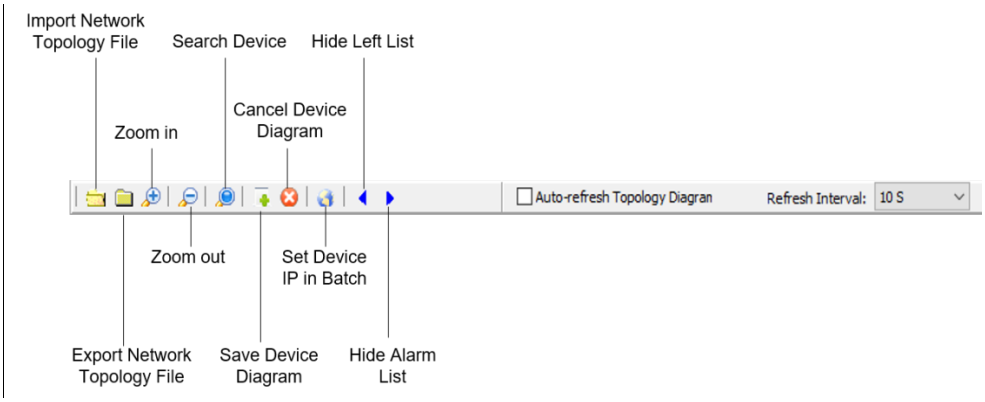


  - The tool option includes Search Device, Set Search Type, Set Device IP in Batch, Restart Device in Batch, Obtain Device Configuration in Batch and Batch Upgrade as shown in the following figure.



- The toolbar includes (from left to right) Import Network Topology File, Export Network Topology File, Zoom in, Zoom out, Search Device, Save Device Diagram, Cancel Device Diagram, Set Device IP in Batch, Hide Left List, Hide Alarm List, Refresh Topology Automatically and Refresh Time Interval as shown in the following figure.

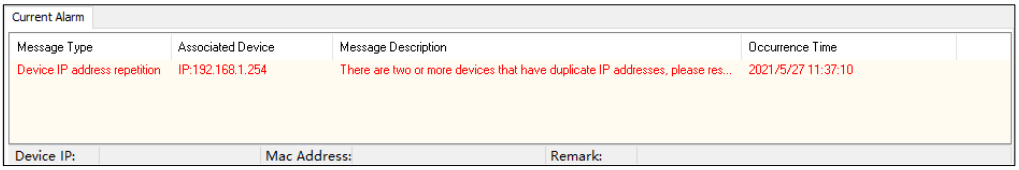
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- Warning message display area

  Current alarm information includes Message Type, Associated Devices, Message Description and Occurrence Time. The main function includes Clear Alarm Messages.

  - The message type includes power message, port message, device MAC duplication and device IP address duplication.
  - The associated device displays the IP address of the alarm device.
  - Message description shows abnormal power supply or port Link/Down, etc.
  - The Occurrence Time is the occurrence time of the corresponding alarm.



Menu Introduction

Menu item	Pull-down menu	Capabilities
System	Code Selection	Users can select the encoding system of the device name
	Specify Network Card	Specify the network card to be bound
	Exit	Exit the currently running BlueEyesTools software
Tools	Search Device	Start searching for devices in the current network
	Specify Search Type	Specify the types of devices to be searched for (serial server, switch, all devices)
	Set Device IP in Batch	Set device IP address in batch
	Restart Device in Batch	Restart the devices in batch.

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Menu item	Pull-down menu	Capabilities
	Obtain Device Configuration in Batch	Obtain the relevant configuration of the device in batch
	Batch upgrade	Upgrade devices in batch
Import Network Topology	_	Import the saved device topology into the current topology display area
Export Network Topology	_	Export the searched device topology diagrams into ".BEF" type file
Zoom in	_	Zoom in the topology diagrams according to a certain proportion
Zoom out	_	Scale down the topology diagrams
Search Device	_	Start searching for devices in the current network
Save Device Diagram	_	After searching for the devices, save the topology diagrams of the devices
Cancel Device Diagram	_	Delete saved topology diagrams
Set device IP in batch	_	Set device IP address in batch
Hide the Left List	_	Hide the left operation list
Hide the Alarm List	_	_
Current Alarm	Clear alarm messages	_

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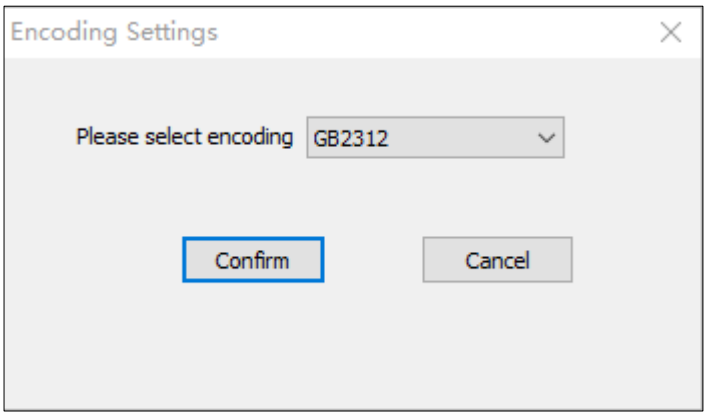
4 Software Function Configuration

4. 1 System Configuration

4.1.1 Code Selection

- Function: users can select the encoding of the device name.
- Operation method:

Step 1 Click [System]→[Encoding Selection] in the menu bar, and the [Coding Settings] dialog box pops up as shown in the following figure.



Step 2 Select the encoding "GB2312" or "UTF-8" from the "Please select encoding" drop-down box.

Note:

When the device name is displayed as messy codes, different encoding methods can be selected for adjustment.

Step 3 Click "OK".

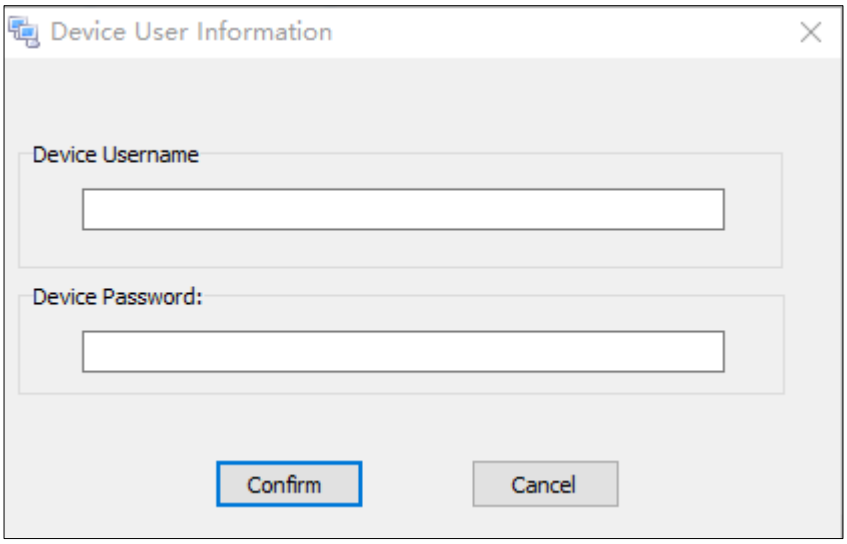
Step 4 End.

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4.1.2 Modify Default Authentication Information

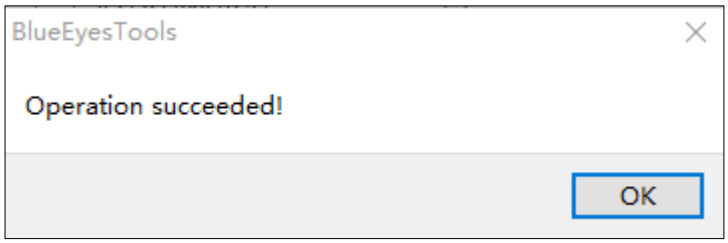
- Function: It can modify device user information, such as device user name and device password.
- Operation method:

Step 1 Click [System] → [Modify Default Authentication Information] in the menu bar, and the [Device User Information] dialog box pops up as shown in the following figure.



Step 2 Enter device username and device password.

Step 3 Click “OK”, then device user information is modified successfully.



Step 4 End.

4.1.3 Specify Network Card

Note

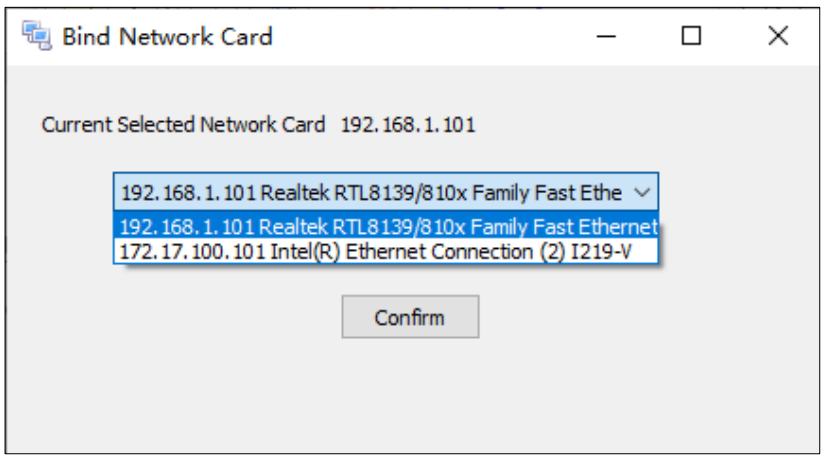
This function is only supported by the new version of the software.

- Function: specify the bound network card
- Operation method:

Step 1 Click the menu [System] → select [Specify Network Card], and the pop-up window is

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shown in the figure below, where you can select the specified network card.



Step 2 Click the "OK" button.

Step 3 End.

4.1.4 Exit

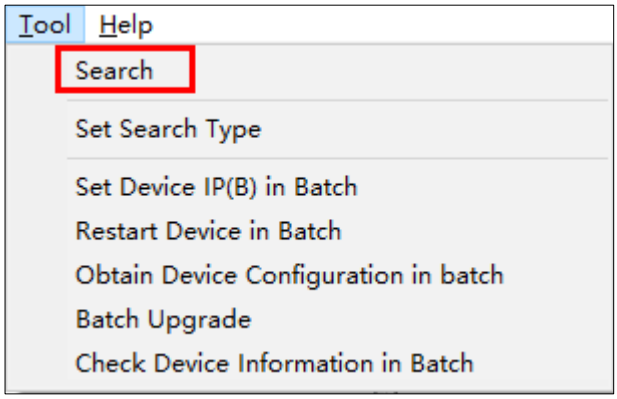
- Function: end operation and exit BlueEyesTools
- Operation method:Click the menu [System] → select [Exit]

4. 2 Tool Configuration

4.2.1 Search Device

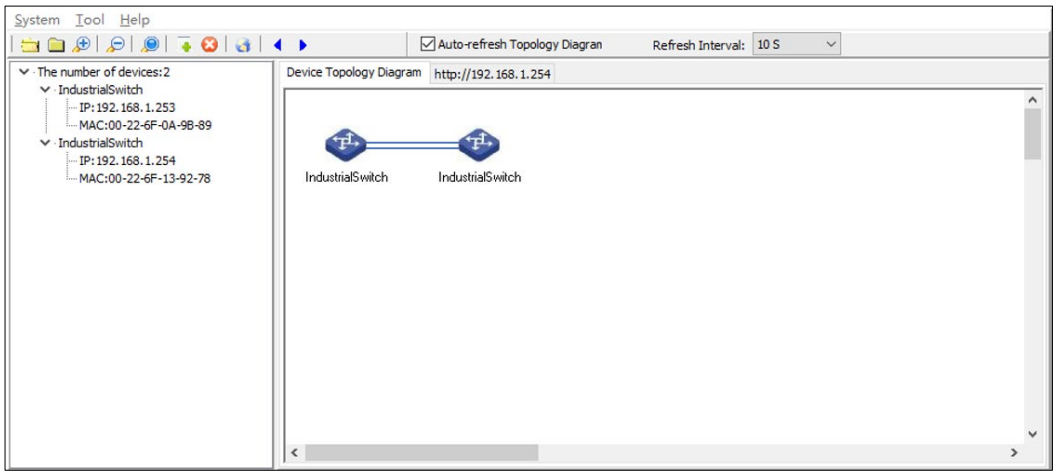
- Function: It can search the devices that users have connected and need to manage, and check the quantity and IP address, etc.
- Operation method:

Step 1 Click [Tools] → [Search Device] in the menu bar as shown in the following figure.



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Step 2 The BlueEyesTools interface searches for devices as shown in the following figure.



Note

- Within the same network, their IP addresses or MAC addresses cannot be the same. When there are devices with the same IP address in the network, they will be displayed in the alarm bar; When there are devices with the same MAC address in the network, only one of them can be searched, and [Operation Timeout] window may pop up when any function operation is configured.
- Only when the LLDP configuration is enabled for the device, the connection between the device topology diagrams can be realized. There are four connection modes, which are as follows:
  - : The blue lines are the aggregation lines;
  - : The purple lines are the ring lines;
  - : The black lines are ordinary lines;
  - : The red lines are the self-loop lines.

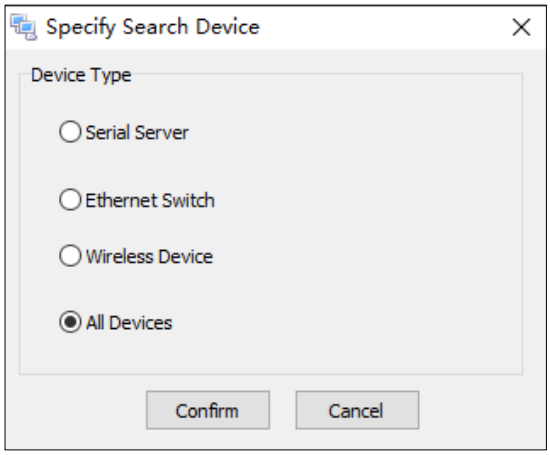
Step 3 End.

4. 2. 2 Set Search Device

- Function: Specify the types of devices to be searched for (Serial server, Ethernet switch, All devices).
- Operation method:

Step 1 Click [Tools] → [Set Search Type] in the menu bar to pop up the setting interface of [Specify Search Device], as shown in the following figure. Select corresponding single option from three single options of [Serial Server], [Ethernet Switch], [Wireless Device] and [All devices] in [Device Type].

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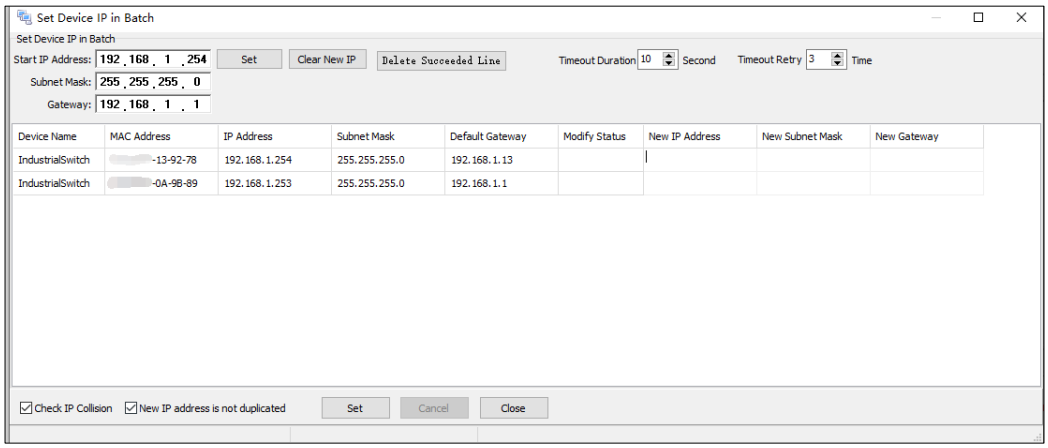
Step 2 Click "OK" button to search for devices, and only the corresponding devices can be searched.

Step 3 End.

4.2.3 Set Device IP in Batch

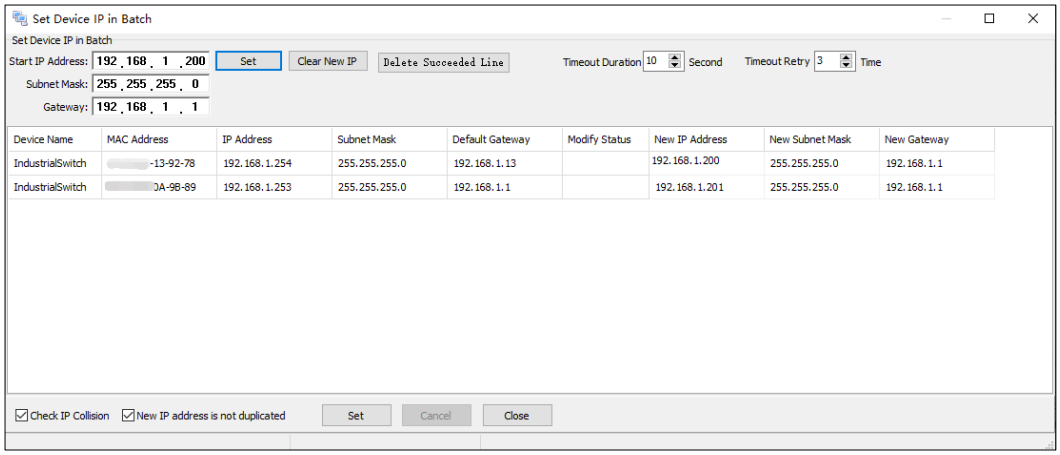
- Function: Set IP addresses of devices in batch
- Operation method:

Step 1 Click [Tools]→[Setting Device IP in Batch] in the menu bar to pop up the setting interface of [Set Device IP in Batch], as shown in the following figure;



Step 2 Set new IP address, new subnet mask and new gateway in the blank space corresponding to [Start IP address], [Subnet mask] and [Gateway] in the interface of Set Device IP in Batch.As shown in the following figure.

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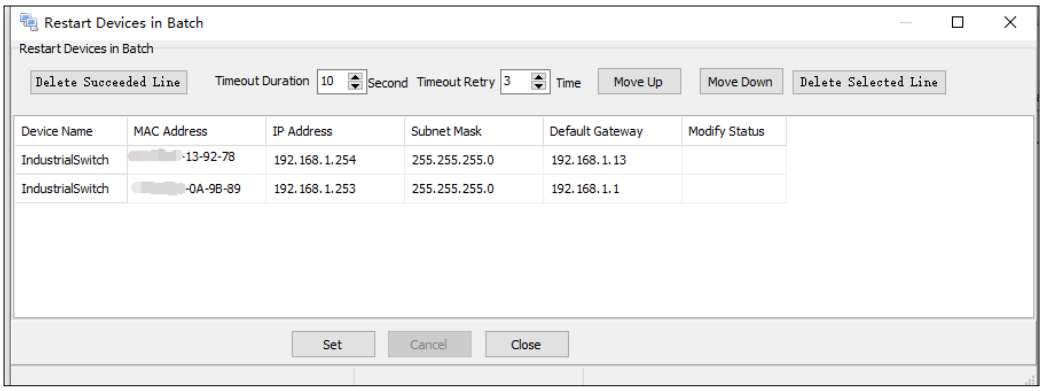


Step 3 End.

4.2.4 Restart Device in Batch

- Function: restart device in batch
- Operation method:

Step 1 Click [Tools]→[Restart Device in Batch] in the menu bar to pop up the setting interface of [Restart Device in Batch] as shown in the following figure;



Step 2 When a device has been successfully restarted, select the information line of the device that has been restarted successfully and click "Delete Succeeded Line" to delete it.

Step 3 You can enter the time of response timeout and the number of timeout retry in the "Timeout" and "Timeout Retry" input boxes.

Step 4 You can adjust the device restart sequence by clicking the "Move Up" and "Move Down" buttons.

Note:

The farthest device connected to the PC will be restarted first, and the closest device connected to the PC will be restarted last, in order from far to near.

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Step 5 Click the "Apply" button to restart the device in batch.

Step 6 End.

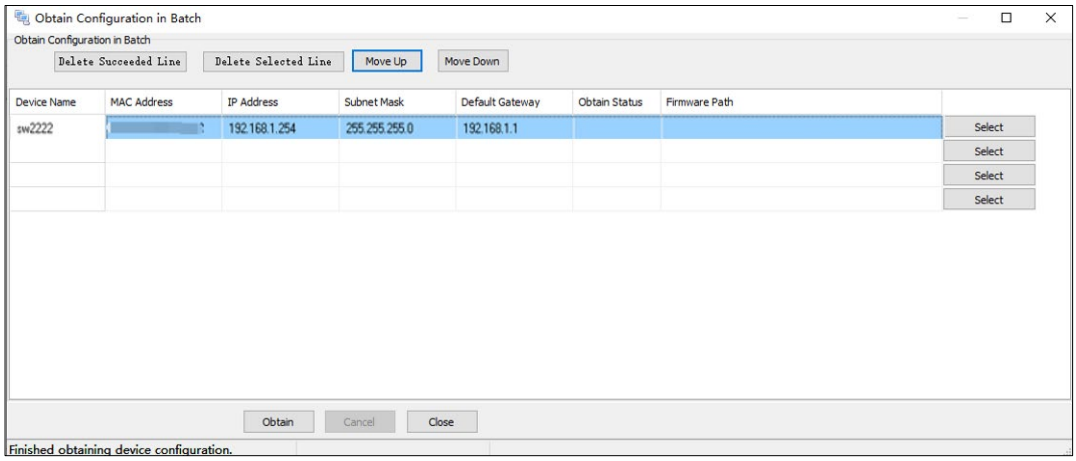
4.2.5 Obtain Device Configuration in Batch

- Function: obtain device configuration in batch
- Operation method:

Step 1 Click [Tools] → [Obtain Device Configuration in Batch] in the menu bar to pop up the setting interface of [Obtain Configuration in Batch] as shown in the following figure;

Note:

This function is only supported by new devices.



Step 2 Select the information line of the device that has obtained the configuration successful, and click "Delete Succeeded Line" or "Delete Selected Line" to delete it.

Step 3 You can adjust the sequence of device configuration by clicking the "Move Up" and "Move Down" buttons.

Step 4 Click the "Select" and "Get" buttons in turn to get the device configuration in batches.

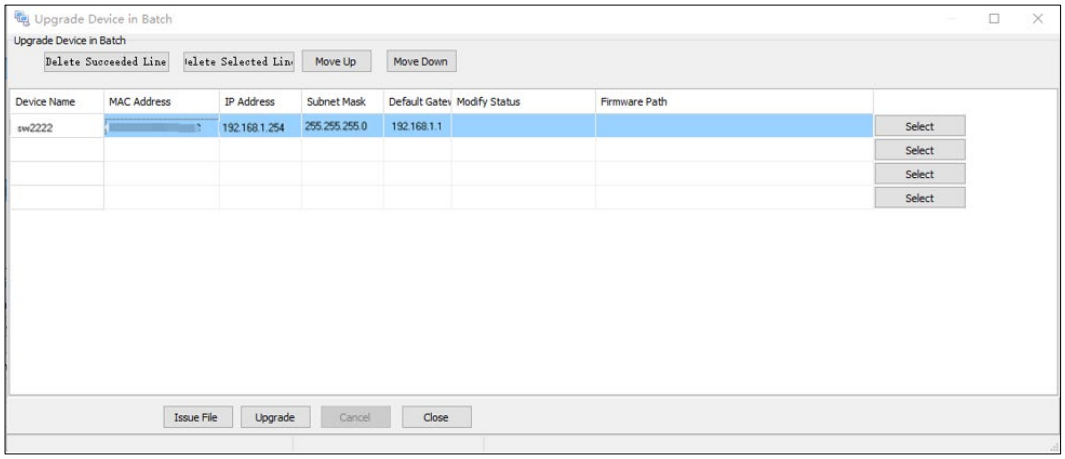
Step 5 End.

4.2.6 Batch Upgrade

- Function: batch upgrade
- Operation method:

Step 1 Click [Tools]→[Batch Upgrade] in the menu bar to pop up the setting interface of [Batch Device Upgrade] as shown in the following figure;

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Step 2 Select the information line of the device that has been upgraded successfully, and click "Delete Succeeded Line" or "Delete Selected Line" to delete it.

Step 3 You can adjust the sequence of device upgrade by clicking the "Move Up" and "Move Down" buttons.

Note:

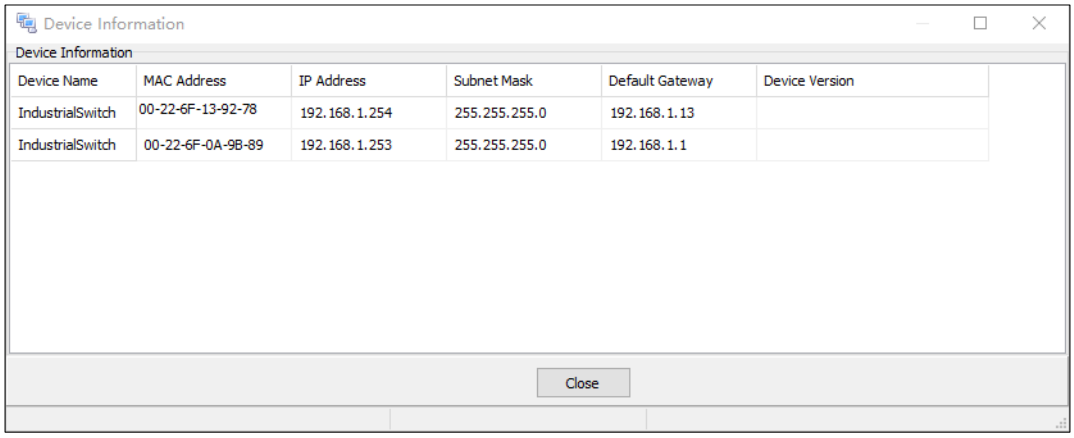
The device furthest connected to the PC needs to be upgraded first, and the device nearest to the PC needs to be upgraded last. They will be upgraded in order from far to near.

Step 4 Click the "Select" and "Get" buttons in turn to upgrade the device in batches.

Step 5 End.

4.2.7 Check Device Information in Batch

- Function: batch upgrade
- Operation method: Click [Tools] → [Check Device Information in Batch] in the menu bar to pop up the interface of [Device Information] as shown in the following figure.



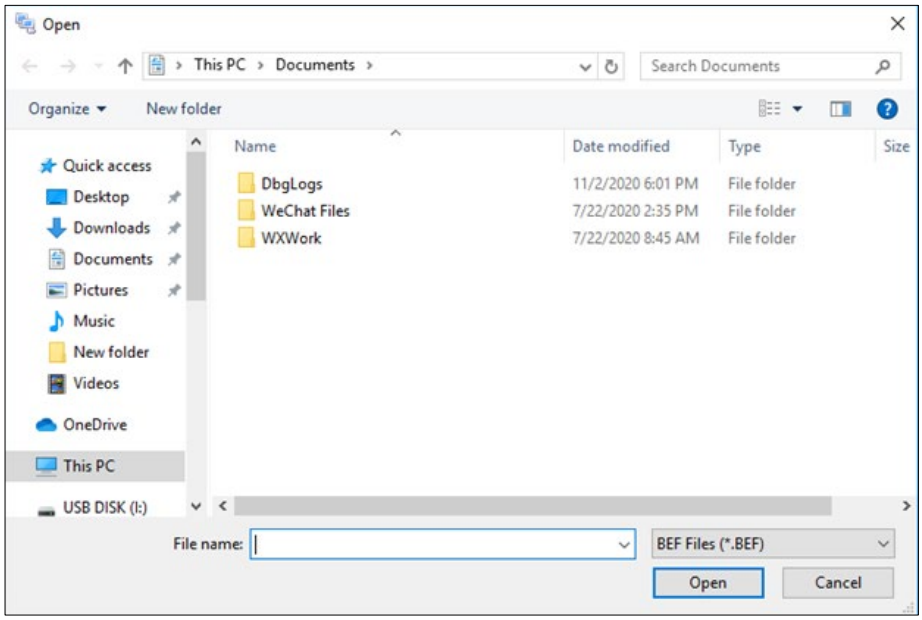
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4.3 Tool Icon

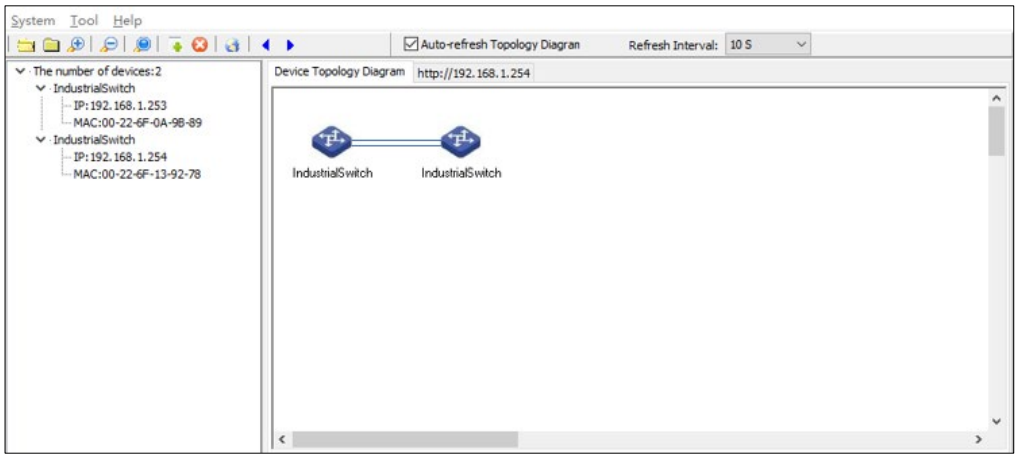
4.3.1 Import Device Topology Diagram

- Function: Import the exported device topology diagram into the current topology display area.
- Operation method:

Step 1 Click the [Import Device Topology File] icon in the toolbar [] → enter the path to save the topology file;



Step 2 Select the type file ending in ".BEF" to import, and then select open. For example: after selecting [tuopu.BEF] file, open the imported device topology diagram as shown in the following figure.



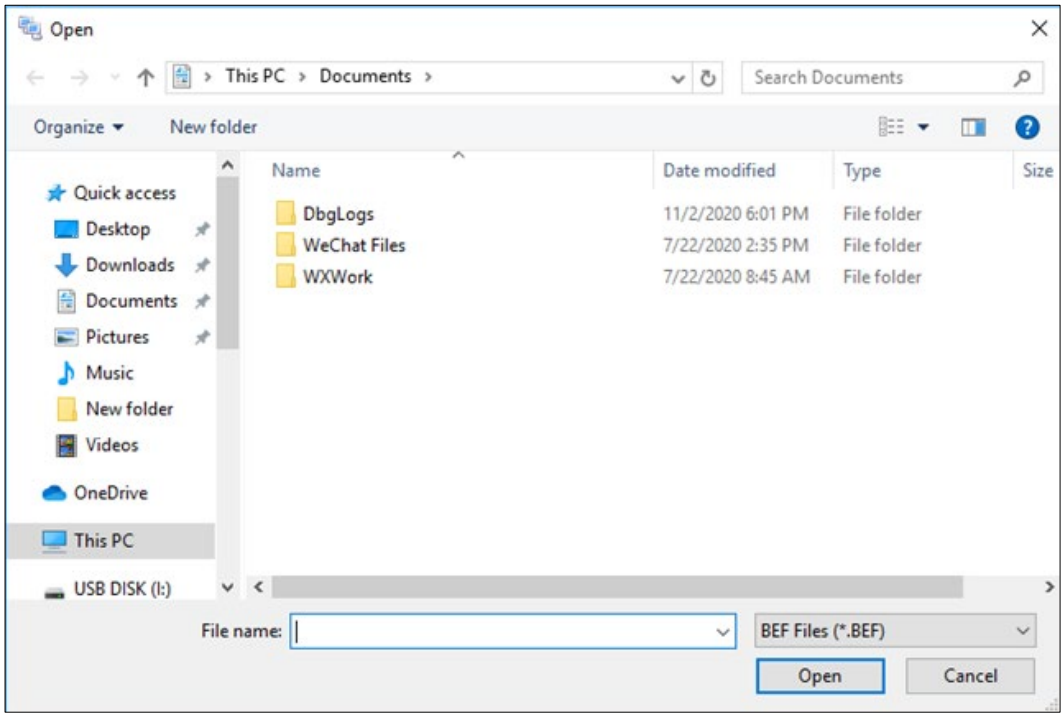
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Step 3 End.

4.3.2 Export Device Topology

- Function: Export the topology diagram of the devices in the main interface of BlueEyesTools into ".BEF" type file and save it.
- Operation method:

Step 1 Click the [Export Device Topology File] icon [] in the toolbar →enter the save interface;



Step 2 Select the path of saving address in the above figure, fill in the legal file name, and select Save. After saving, user can find the corresponding ".BEF" file in the saved address directory.

Step 3 End.

4.3.3 Zoom In

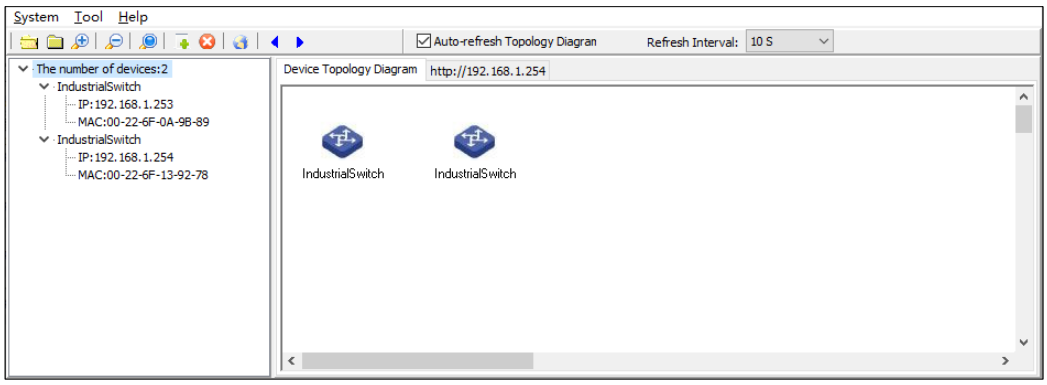
- Function: zoom in the topology diagram
- Operation method:

Step 1 Search Device;

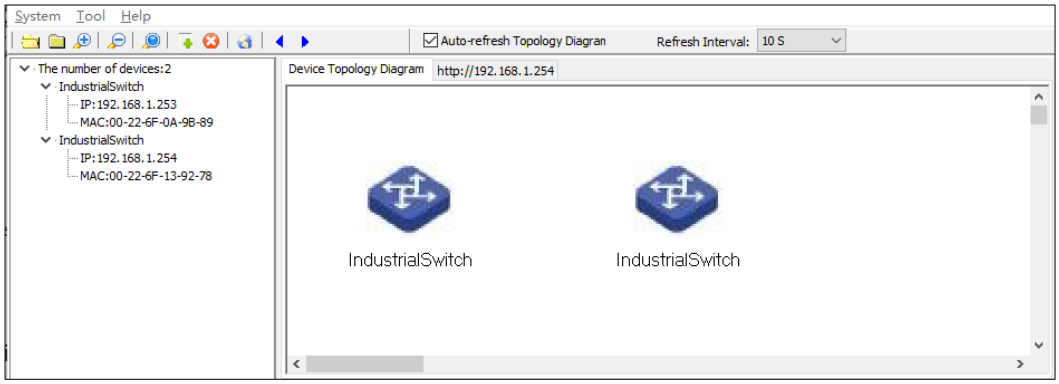
Step 2 Click the [Zoom In] icon [] in the toolbar.

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The following figure is the initial view:



After clicking the Zoom In function, the initial view changes as shown in the following figure. After zooming in the view, you can see that the enlarged network topology diagram is larger than before.



Step 3 End.

4.3.4 Zoom Out

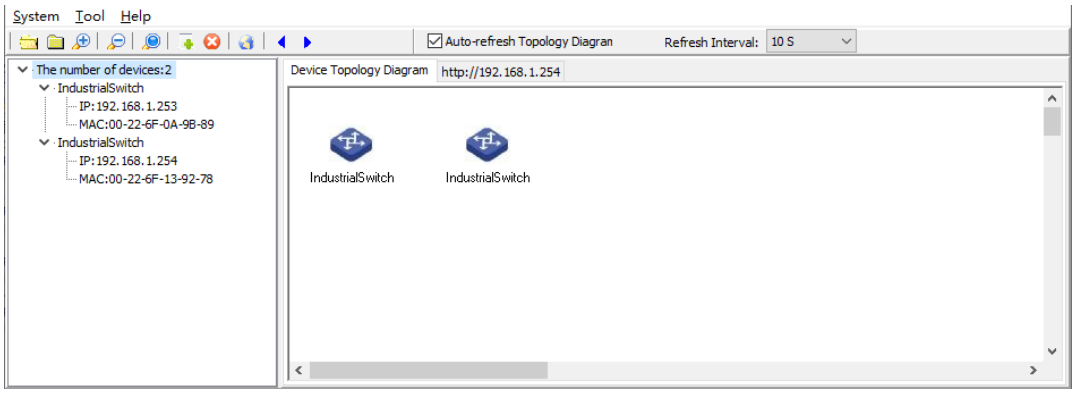
- Function: zoom out the topology diagram
- Operation method:

Step 1 Search Device;

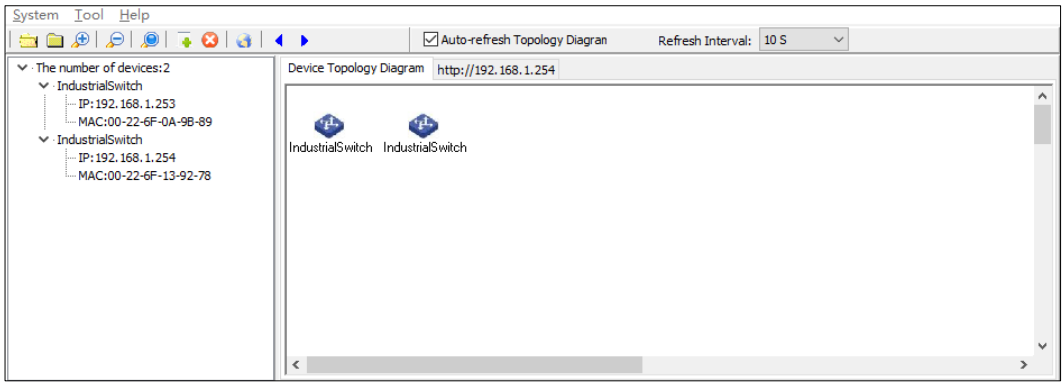
Step 2 Click the [Zoom Out] icon [] in the toolbar;

The following figure is the initial view:

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After clicking the zoom-out function, the initial view changes as shown in the following figure. After zooming out, you can see that the scaled-down network topology diagram is smaller than the previous one.



Step 3 End.

4.3.5 Search Device

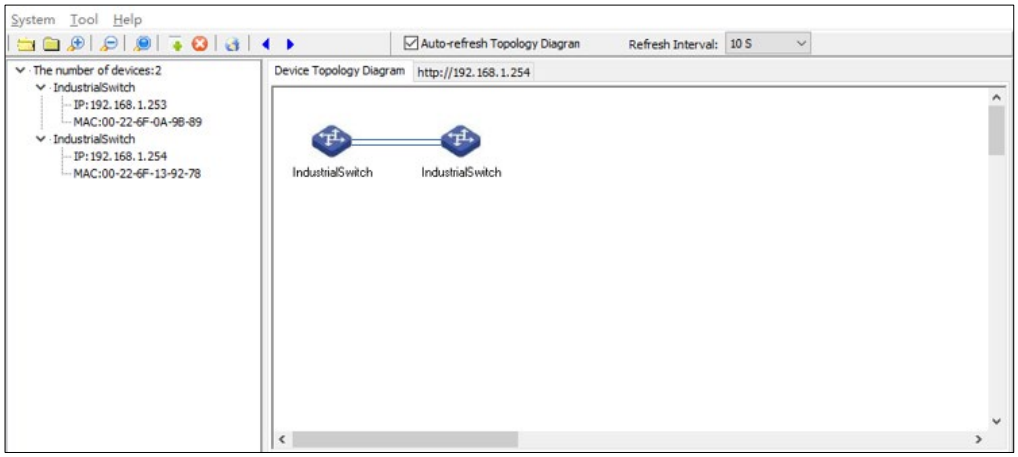
- Function: Search the topology diagram of the device.
- Operation method:

Step 1 Open the main interface of BlueEyesTools.

Step 2 Click the search device icon []. After searching for devices, the topology diagram of the switch will be displayed in the blank space on the right.

Step 3 Searching for devices can obtain information such as IP address, MAC address, and device name.

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note

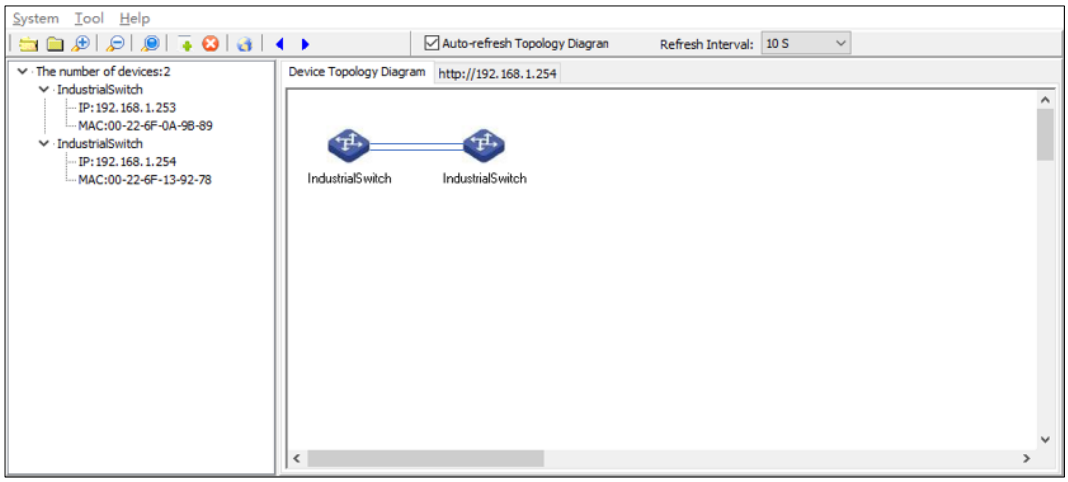
- IP or MAC addresses of all devices cannot have any two or more identical addresses.
- If you can't search all of them, the reasons may be: there are devices with the same MAC address or exists VLAN configuration errors.
- Only when LLDP is enabled will the connections between switches in the topology diagram of the devices be displayed.

Step 4 End.

4.3.6 Save Device Diagram

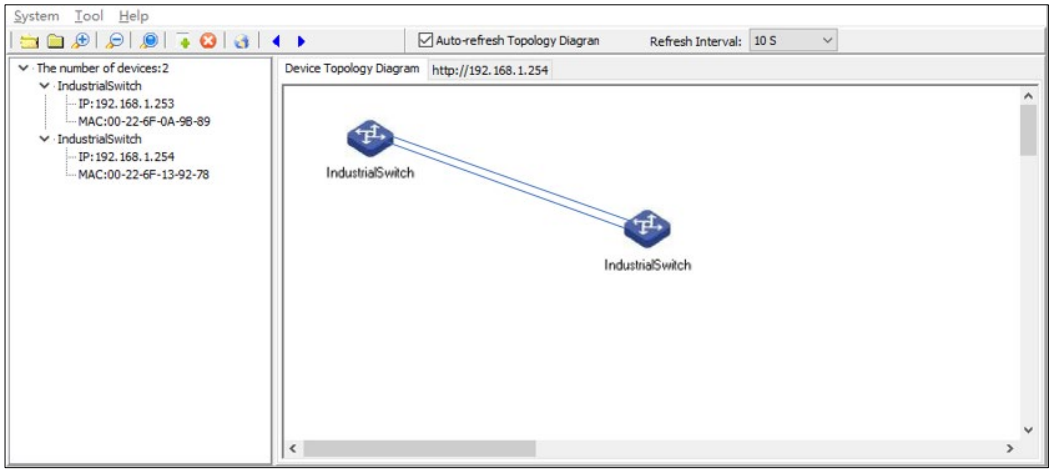
- Function: Search the current topology diagram and save it. When searching for devices again, the topology diagram will not change. This function is applied to personalized topology diagram with a large number of devices.
- Operation method:

Step 1 Search for devices and check the topology diagram of the devices as shown in the following figure;



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Step 2 Change the topology diagram as shown in the following figure, and click the [Save Device Diagram] icon [ ] in the toolbar;



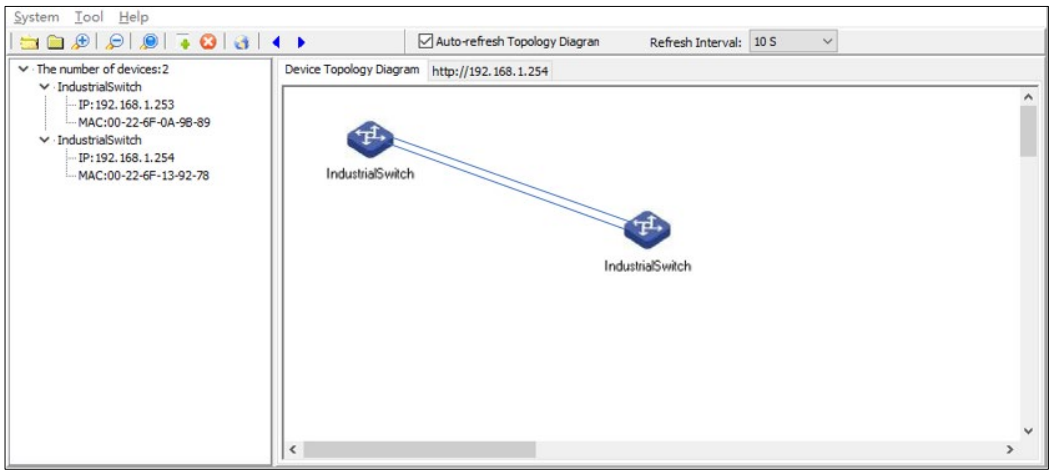
Step 3 (Authentication, optional) Re-search the devices, and its topology diagram is consistent with the above figure.

Step 4 End.

4.3.7 Cancel Device Diagram

- Function: restore to the initial topology diagram (reverse operation for saving device diagram).
- Operation method:

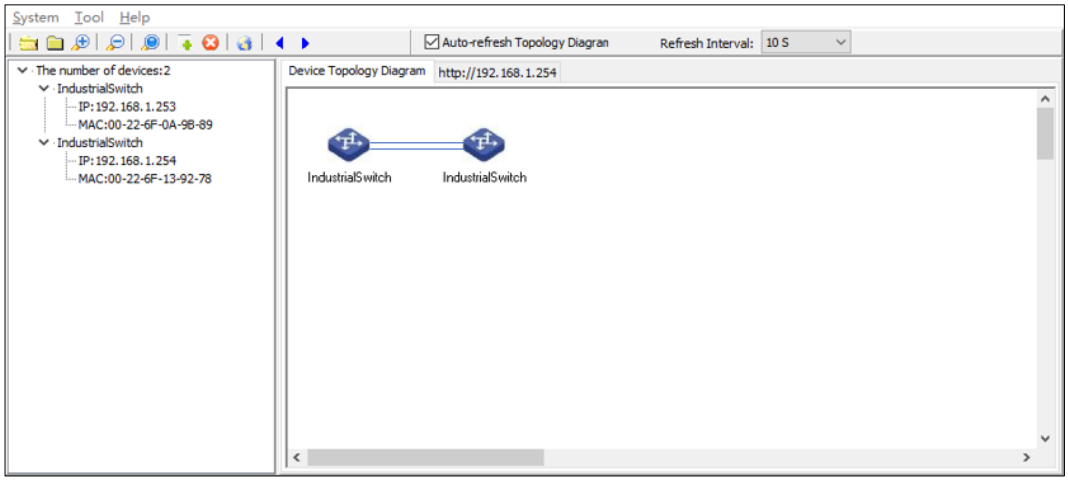
Step 1 After the operation of previous section [Save Device Diagram], search for devices and check the network topology diagram as shown in the following figure;



Step 2 Click the [Cancel Device Diagram] icon [ ] in the toolbar;

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Step 3 (Authentication, optional) Re-search the devices, and check the topology diagram as shown in the figure below.

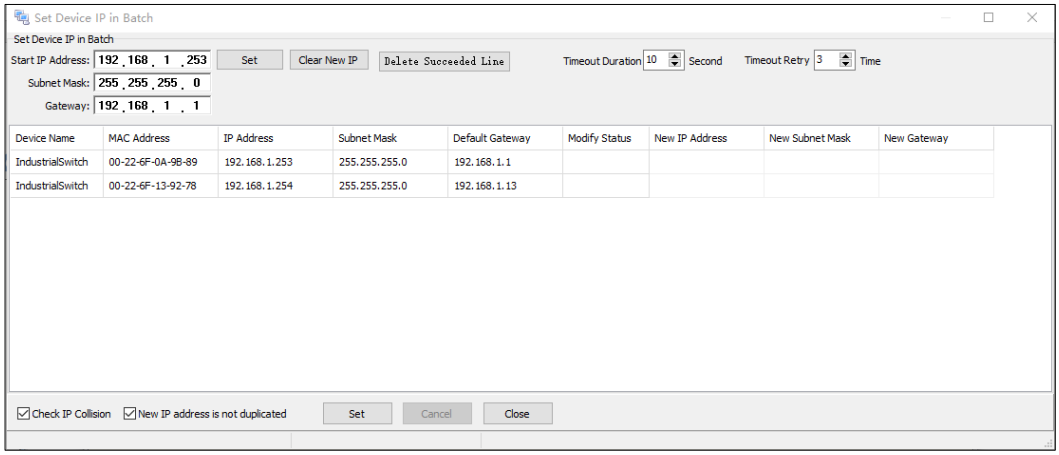


Step 4 End.

4.3.8 Set Device IP in Batch

- Function: Set IP addresses of devices in batch
- Operation method:

Step 1 Click [Set Device IP in Batch] icon [ ] in the toolbar to enter the interface of Set Device IP in Batch as shown in the figure below;



Step 2 Please refer to 4.2.3 Set Device IP in Batch for specific setting steps.

Step 3 End.

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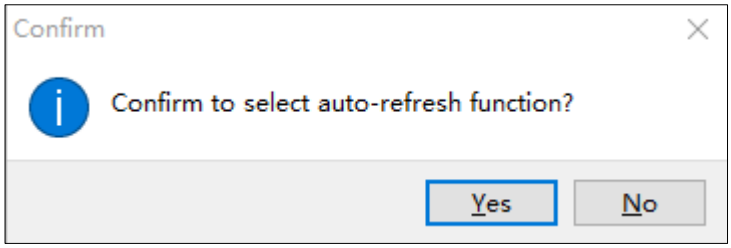
4.3.9 Automatically Refresh the Network Topology Diagram

- Function: automatically refresh the display of network topology diagram, and the refresh interval can be selected.
- Operation method:

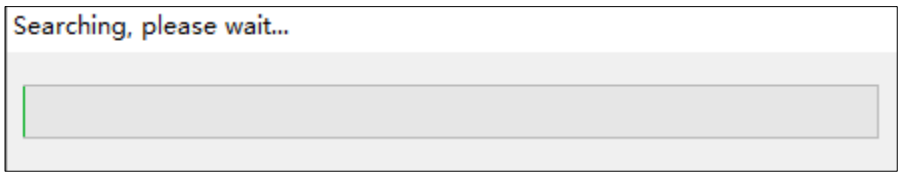
Step 1 Click the icon [ ] in front of [Automatically Refresh Topology Diagram] in the toolbar.



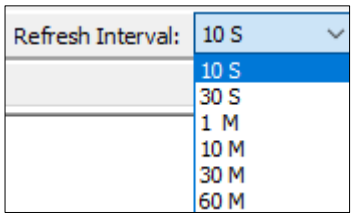
Step 2 Select "YES" in the pop-up window prompt as shown in the following figure;



Step 3 After selecting "YES", it will automatically refresh as shown in the figure below;



Step 4 Click the [Refresh Time Interval] drop-down icon, the corresponding time selection will appear, as shown in the following figure.



Step 5 End.

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5 Device Function Configuration

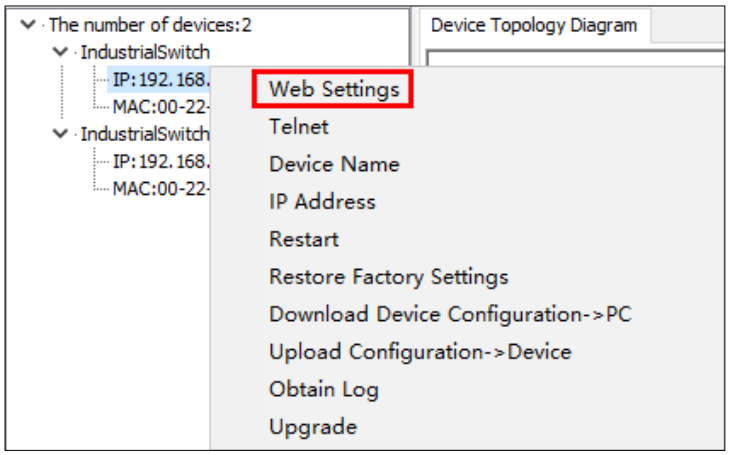
Note:

In the setting functions (such as modifying device name, modifying device IP, restoring factory settings, obtaining configuration, distributing configuration, obtaining log, upgrading), BlueEyesTools will verify user name and password, and the default user name and password (admin123/admin@123) will be used for each device for verification for the first time. If successful, the settings will be executed. If the verification fails, the BlueEyesTools software will pop up the user name and password input interface, prompting the user to enter the correct user name and password.

5.1 Enter Web Interface

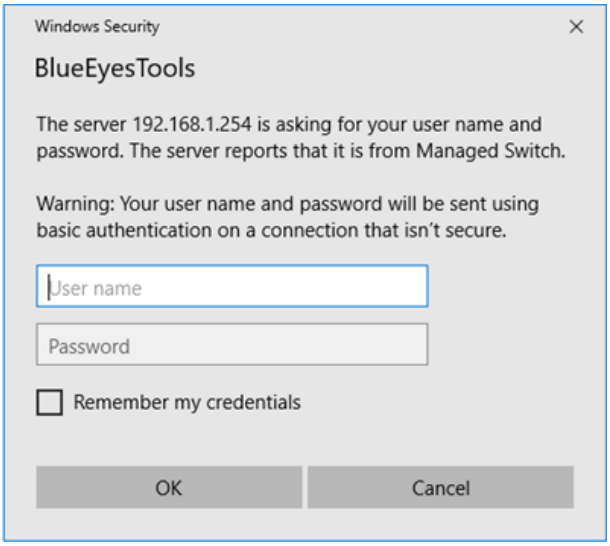
- Function: Quickly enter the Web configuration interface of the device.
- Operation method:

Step 1 Open the function selection interface and select [Web Settings].



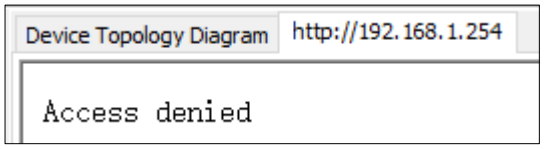
Step 2 The password verification interface pops up as shown in the following figure.

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Step 3 Enter the user name and password of the device, and select [OK] to enter the WEB configuration interface to configure various functions, which is equivalent to IE browser.

Step 4 If the user name and password are entered incorrectly for three consecutive times, the interface will prompt Deny Access as shown in the following figure.



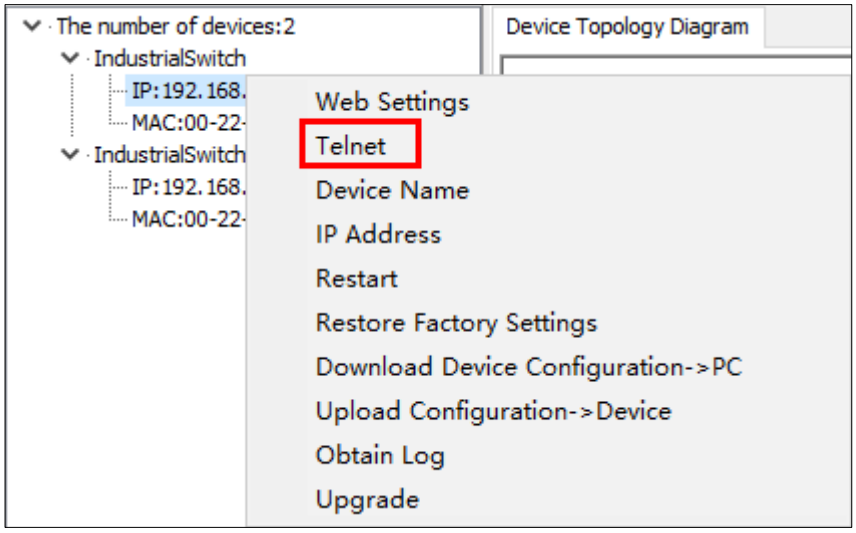
Step 5 End.

5.2 Connect Telnet

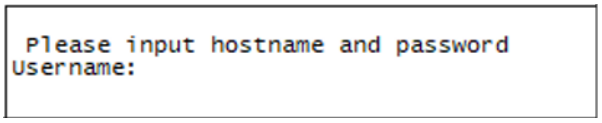
- Function: Quickly enter the command interactive interface of the device, so as to configure and manage the device.
- Operation method:

Step 1 Open the function selection interface and select [Telnet].

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Step 2 The password verification interface pops up as shown in the following figure.



Step 3 Enter the user name and password of the device, and click the Enter key. A command line prompt (such as Switch#) appears after the password is entered correctly.



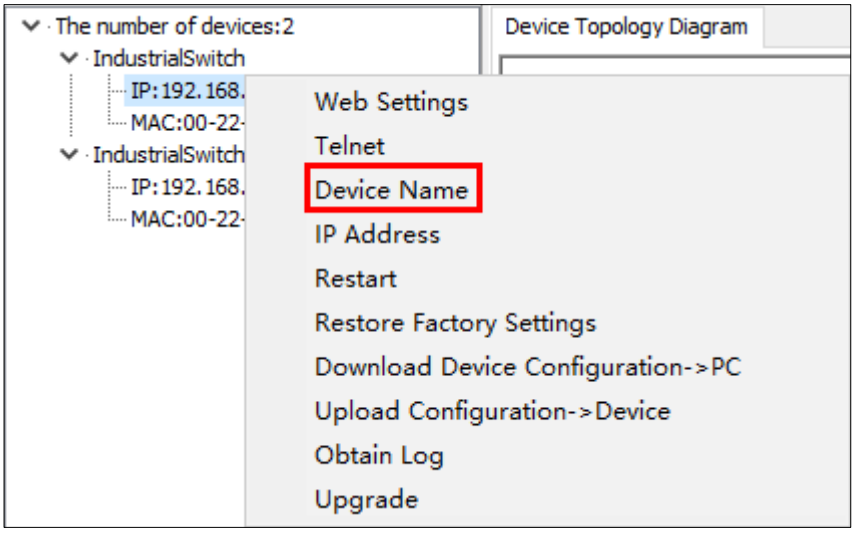
Step 4 End.

5.3 Modify Device Name

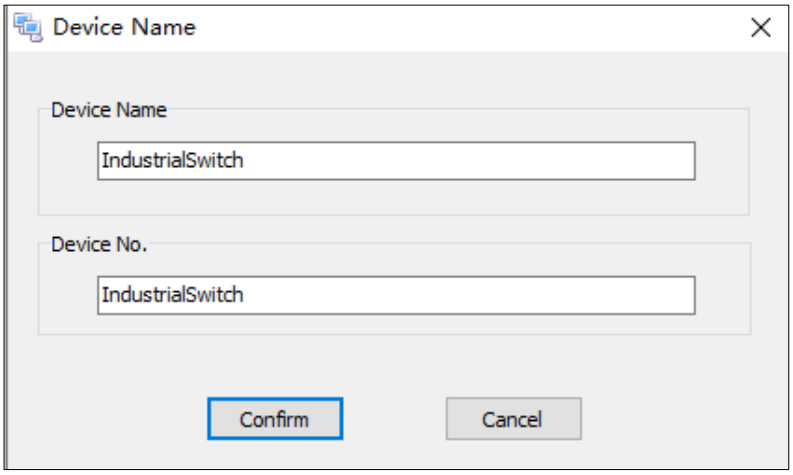
- Function: Quickly modify the name of the devices, so as to make it easy to distinguish the devices.
- Operation method:

Step 1 Open the function selection interface and select [Device Name].

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Step 2 [Device Name] modification dialog box pops up as shown in the figure below.



Step 3 The user can configure the new device name and device number in the interface shown above. Device name and device number should be less than 21 characters.

Step 4 End.

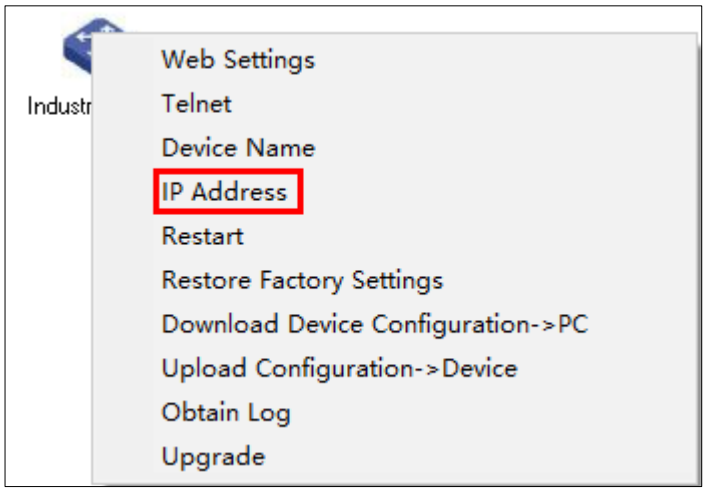
5.4 Modify Device IP

- Function: Quickly modify IP address, subnet mask and default gateway of the device.
- Operation method:

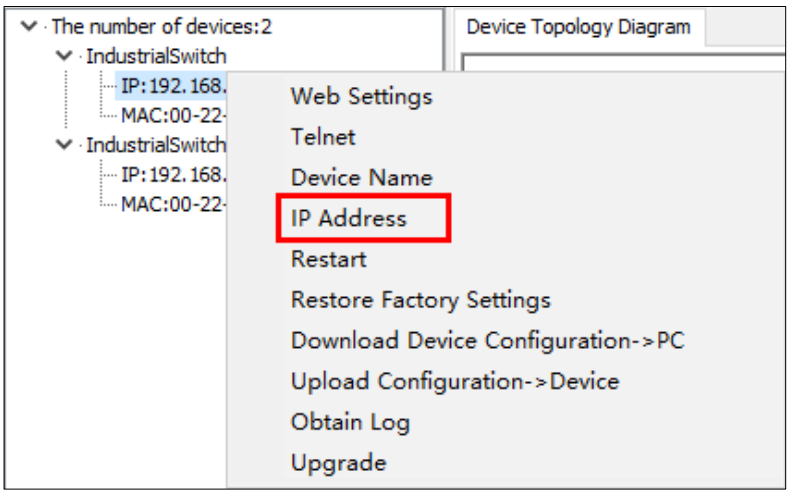
Step 1 The shortcut menu of IP address pops up.

Method 1: Right-click the display function menu of the topology diagram of the device whose IP address needs to be modified, as shown in the following figure.

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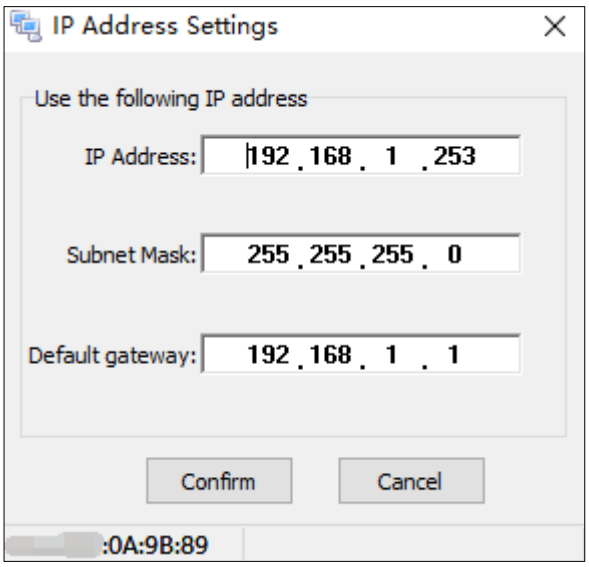


Method 2: Right-click the name of the device whose IP address needs to be modified, and the IP address shortcut menu is shown in the following figure.



Step 2 Select [IP address], and the dialog box of IP address configuration pops up as shown in the following figure.

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Step 3 Configure the required IP address, subnet mask and default gateway as required in the above figure.

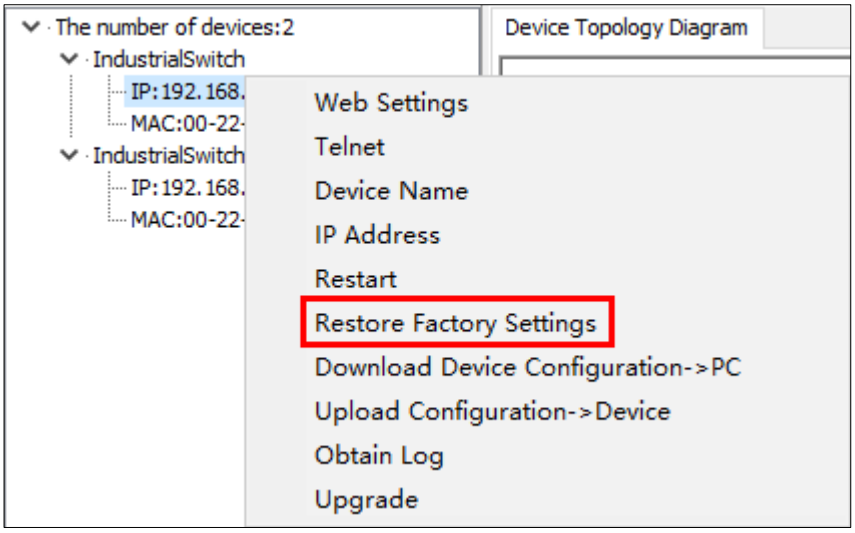
Step 4 End.

5.5 Restore Factory Settings

- Function: Restore the device to the factory setting state.
- Operation method:

Step 1 Search Device;

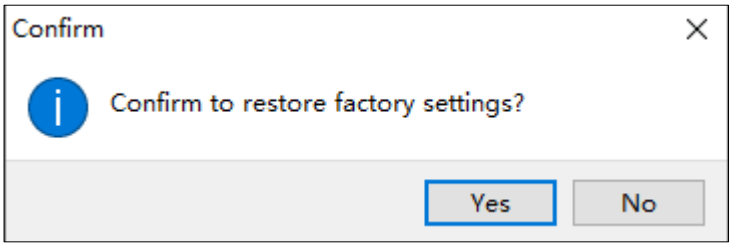
Step 2 Open the function selection interface and select [Restore Factory Settings] as shown in the following figure.



Step 3 The confirmation dialog box of [Restore Factory Settings] pops up, as shown in the following figure. After selecting [Yes], the device starts to restore factory settings, and

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it will prompt that the configuration is successful after completion. After restoring the device to the factory settings, its IP address, name and other function settings are all restored to the factory settings. Please refer to the user manual of the device for the specific factory settings. Note that the ring network function will be disabled after restoring the factory settings. Please use it with caution when there is a ring network in the network.



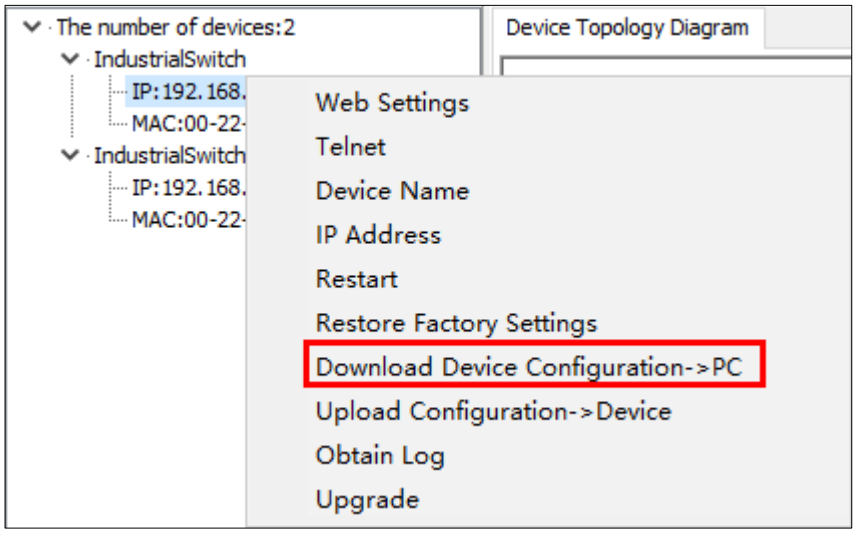
Step 4 End.

5.6 Obtain Configuration

- Function: obtain device configuration.
- Operation method:

Step 1 Search Device;

Step 2 Open the function selection interface and select [Download Device Configuration-> PC], as shown in the following figure.

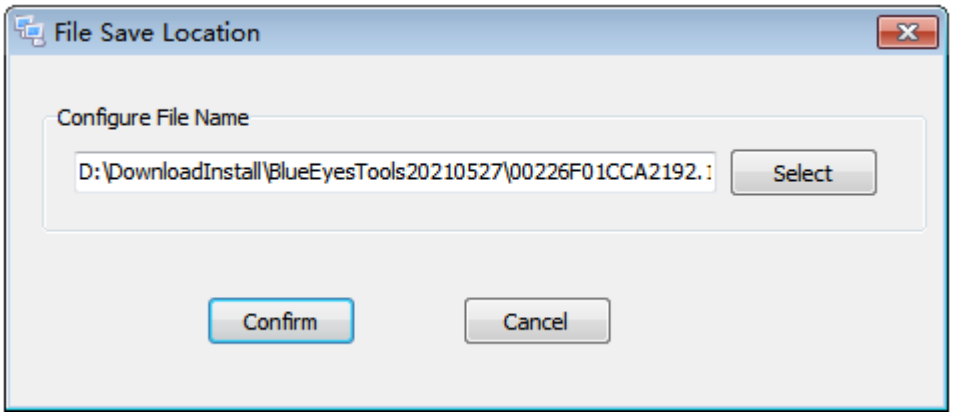


Step 3 The "File Save Location" dialog box pops up, as shown below:

Note:

This function is only supported by new devices.

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Step 4 Click the "Select" button, select location to save the file, and click "OK".

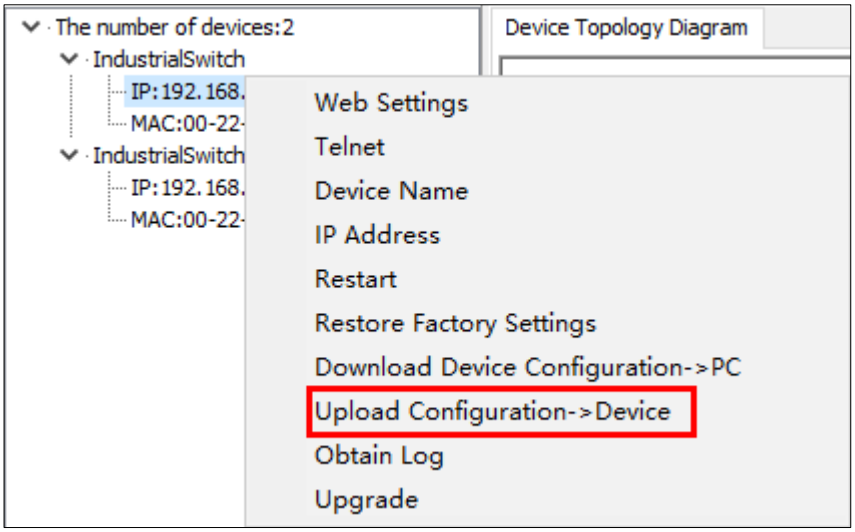
Step 5 End.

5.7 Issue Configuration

- Function: issue configuration and apply saved configuration to devices.
- Operation method:

Step 1 Search Device;

Step 2 Open the function selection interface and select [Upload Configuration->Device], as shown in the following figure.



Step 3 The dialog box of "Configuration File Path" pops up.

Note:

- This function is only supported by new devices.
- Configuration files contain different format types and end in. cfg or. conf format.

Step 4 Select the configuration file and click “Open”.

Step 5 End.

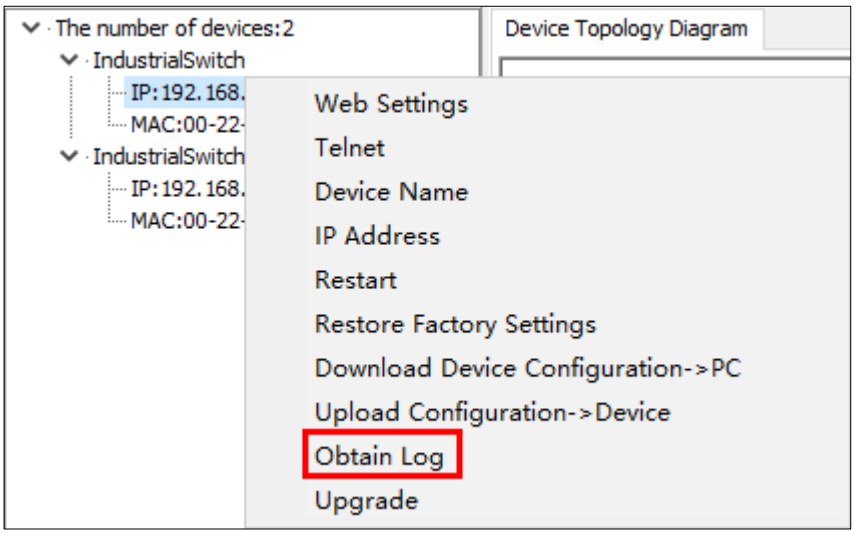
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5.8 Obtain Log

- Function: obtain device log information.
- Operation method:

Step 1 Search Device;

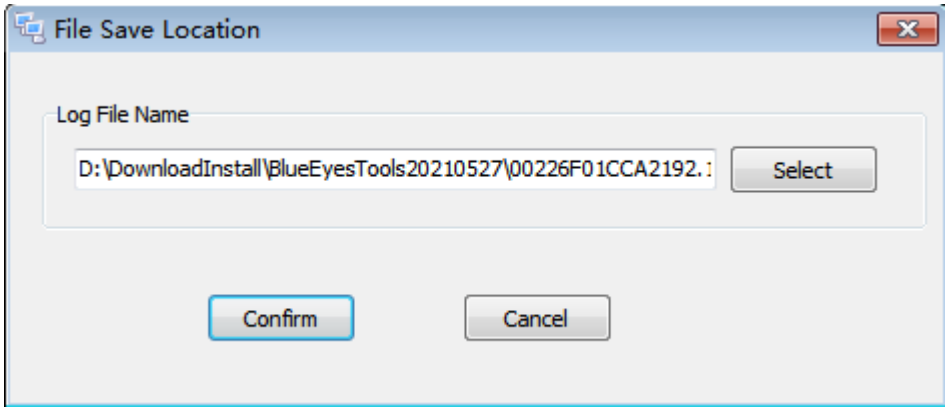
Step 2 Open the function selection interface and select [Obtain Log], as shown in the following figure.



Step 3 The "File Save Location" dialog box pops up.

Note:

This function is only supported by new devices.



Step 4 Click the "Select" button, select location to save the file, and click "OK".

Step 5 End.

5.9 Upgrade

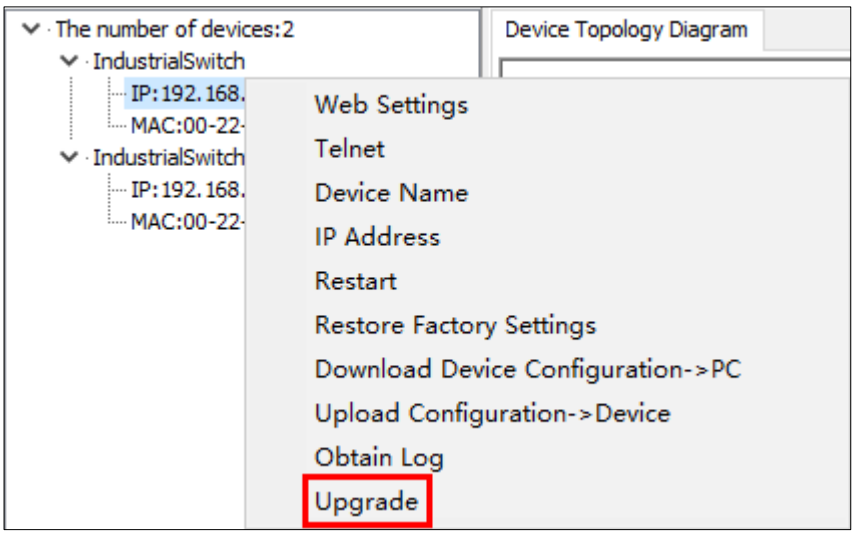
- Function: upgrade the firmware of the device.

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- Operation method:

Step 1 Search Device;

Step 2 Open the function selection interface and select [Upgrade], as shown in the following figure.



Step 3 The dialog box of "Firmware File Path" pops up.

Note:

- This function is only supported by new devices.
- When upgrading firmware, pay attention to the matching between firmware and device, and do not choose the wrong firmware.

Step 4 Select the firmware upgrade file and click the "Open" button to upgrade the firmware.

Step 5 End.

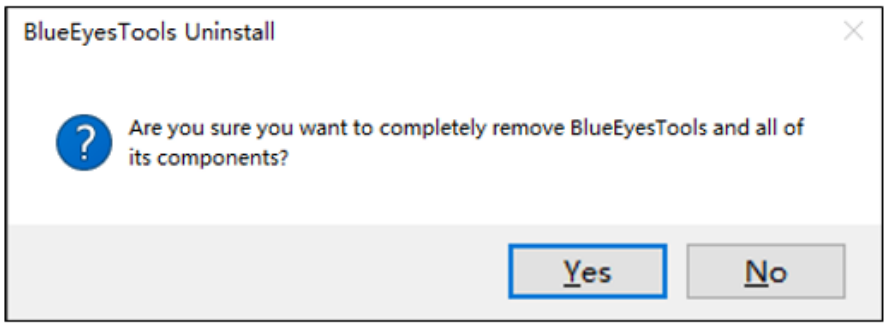
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Appendix 1 Solutions to Frequently Asked Questions

1. Uninstallation instructions:

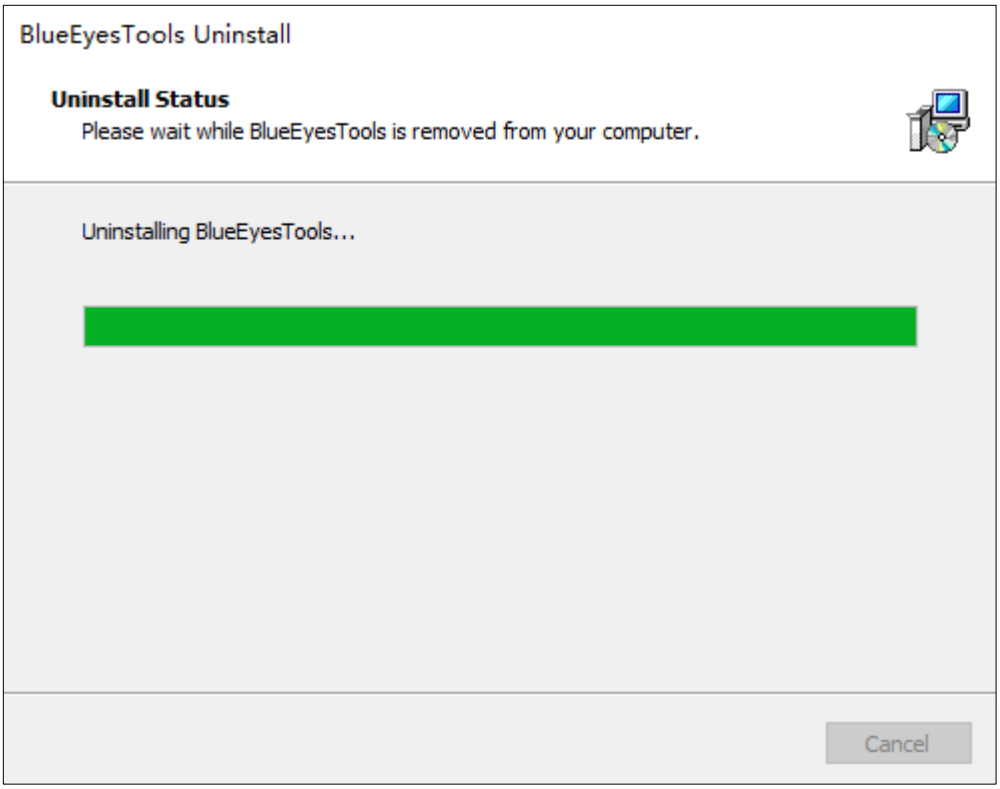
When you need to uninstall the BlueEyesTools software, you can follow the following steps:

Select: “Start → All Programs → Uninstall BlueEyesTools” to uninstall the BlueEyesTools software. The dialog box of software uninstallation preparation is as shown in the following figure:

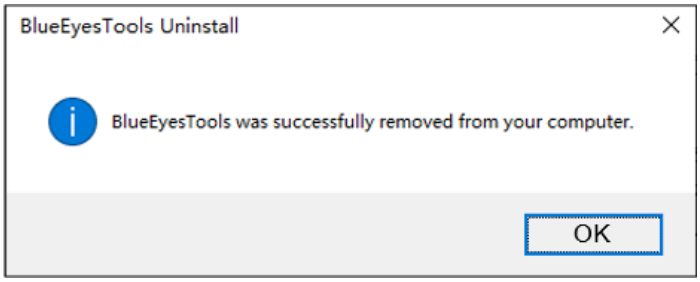


1) Select [Yes], and the software uninstallation begins.

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2) After uninstalling, click [OK] to close the window.



2. Can I use this software to search for switches produced by other companies?

A: No, the software is specially customized for our switches.

3. Why can't I search for devices by using BlueEyesTools software?

A: 1. Whether the network card is enabled normally, and ensure that the routing between the device and PC can be reached. 2. Whether the type of device to be searched is correctly selected in the specified search device in the [Tools] menu, such as switch or serial server. 3. Whether the software version used supports WEB management.

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When the device alarms, except BlueEyesTools management software would display warning message in the display area of warning message, is there any other way to notify technical staffs?

A: When there is an alarm message and the computer of the monitoring host has a buzzer, the buzzer will continuously give out an alarm sound.

5. Why can I search for devices by using BlueEyesTools software, but when I configure some functions, I will be prompted with [Operation Timeout]?

A: 1. Check whether the host IP address is in the same subnet as the device. 2. Check the VLAN setting of the device and whether the instructions sent by PC can reach the CPU_Port of the device. 3. Check whether the device and software support this function.

6. Why can devices be searched, but there are no topology lines in the topology diagram?

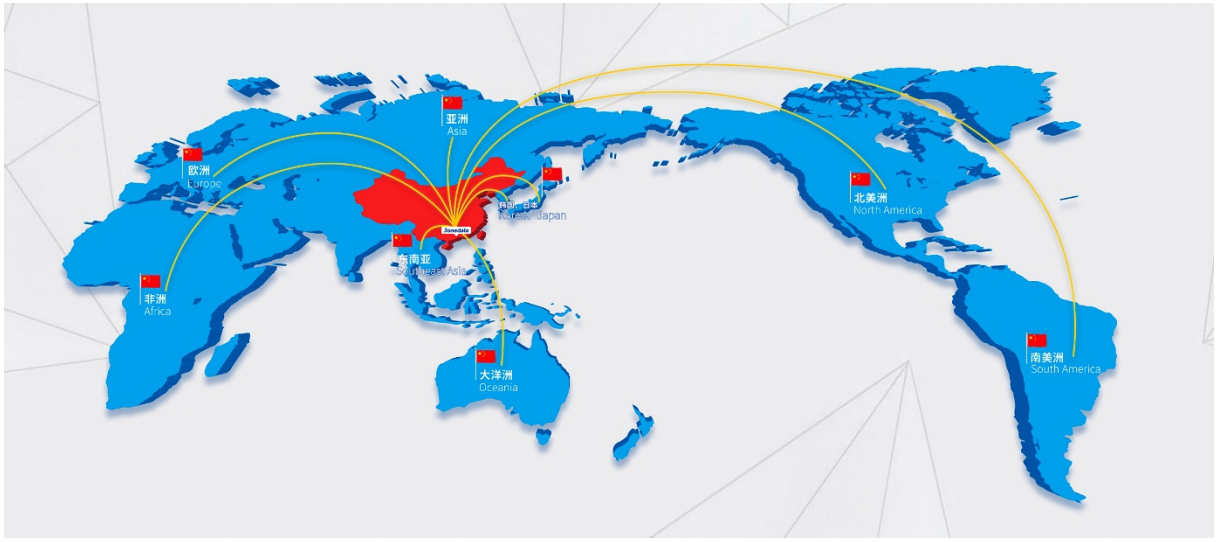
A: For topology lines, LLDP configuration of devices should be enabled first, including ordinary lines, ring lines, aggregation lines and self-loop lines. Other reasons may relate to the software version.

7. Why is there an error message "Could not bind socket. Address and port are already in use." when running BlueEyesTools software?

A: If the BlueEyes software is already running on the host, an error will be prompted when the BlueEyes software is run again.

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