



BlueEyes_II Management Software User manual

Document Version: 03 Release Date: 2019-05-13

Copyright © 2018 3onedata Co., Ltd. All rights reserved.

For this manual, all rights reserved by 3onedata Co., Ltd. No company or individual is allowed to duplicate or translate this manual in any forms without written permission issued by 3onedata Co., Ltd.

Trademark statement



30ne data

and 30ne data is the registered trademark owned by 3onedata Co., Ltd. And other trademarks mentioned in this manual belong to their corresponding companies.

Conventions Used in the Manual

Technical or printing errors might exist in the product or the instruction manual; therefore, 3onedata Co., Ltd. reserves the right to change the manual entirely or partially with no advance notice required. 3onedata provides this document as is, without warranty of any kind, either expressed or implied, including, but not limited to, its particular purpose. Due to the improvement of the management software, the version of software that you are using might not be the latest or the perfect version. The manual is only for your reference, and please contact us if you have any questions.





































3onedata Co., Ltd.

Headquarter address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road,

Nanshan District, Shenzhen, 518108, China

Technology support: tech-support@3onedata.com

Service hotline: +86-400-880-4496

E-mail: sales@3onedata.com Fax: +86-0755-26703485

Website: http://www.3onedata.com



Preface

BlueEyes_II management software user manual has introduced this software:

• Software Specifications

Readers

This manual mainly suits for engineers as follows:

- Network administrator responsible for network configuration and maintenance
- On-site technical support and maintenance staff
- Hardware engineer

Text Format Convention

Format	Description	
6633	Words with "" represent the interface words. e.g.: "The por	
	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	Represent the words click to achieve hyperlink. Font color as:	
	"Light blue".	
About This Chapter	The "About This Chapter" section provides links to each	
	section and corresponding principles / operating chapters in	
	this chapter.	

Icon Convention

Format	Description	
Notice	Reminder the announcements in the operation, improper	



Format	Description	
	operation may result in data loss or equipment damage.	
\wedge	Pay attention to the notes on the mark, improper operation	
Warning	may cause personal injury.	
	Make a necessary supplementary instruction for operation	
Note	description.	
Key	Configuration, operation, or tips for device usage.	
	Pay attention to the operation or information to ensure	
Tips	success device configuration or normal working.	

Revision Record

Version No.	Revision Date	Revision Description
01	2010.04	Document creation
02	2018.10	Layout adjustment
03	2019.05.13	Version update



Contents

P	REFACE		1
C	ONTEN'	TS	1
1	OVE	RVIEW	3
2	INST	TALLATION	4
	2.1	INSTALLATION PROGRAM	4
	2.2	INSTALLATION STEPS	4
3	INTI	ERFACE	11
4	FUN	CTION CONFIGURATION	15
	4.1	SYSTEM CONFIGURATION	.15
	4.1.1	Language settings	15
	4.1.2	Select network adapter	15
	4.1.3	Quite	16
	4.2	TOOL CONFIGURATION.	.16
	4.2.1	Search device	16
	4.2.2	Specify search device	17
	4.2.3		
	4.2.4	Manual add devices	19
	4.3	USER MANAGER	
	4.4	EXPORT TOPOLOGY	
	4.5	IMPORT TOPOLOGY	
	4.6	ZOOM IN	
	4.7	ZOOM OUT	
	4.8	SEARCH DEVICE	
	4.9	SAVE TOPOLOGY	
	4.10	DELETE TOPOLOGY.	
	4.11	BATCH IP SETTINGS	
	4.12	BATCH MONITORING IP SETTINGS	
	4.13	AUTO REFRESH TOPOLOGY	
5		ICE FUNCTION CONFIGURATION	
	5.1	MODIFY DEVICE IP	.33





	ALARM LOGS	
5.4	ENTER WEB INTERFACE	00
	ENTER WEB INTERFACE	
5.3	RESTORE FACTORY SETTINGS.	35
5.2	MODIFY DEVICE NAME	34



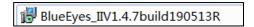
1 Overview

BlueEyes_II is management software developed for managing devices, mainly targeting managed industrial Ethernet switch, serial port server, CAN server, MODBUS gateway and other managed devices. This software supports functions such as device search, device IP configuration, and fast device WEB access settings. Support operation platforms including Windows2000/XP/Win7/ Win10 operation system.



2 Installation

2.1 Installation program



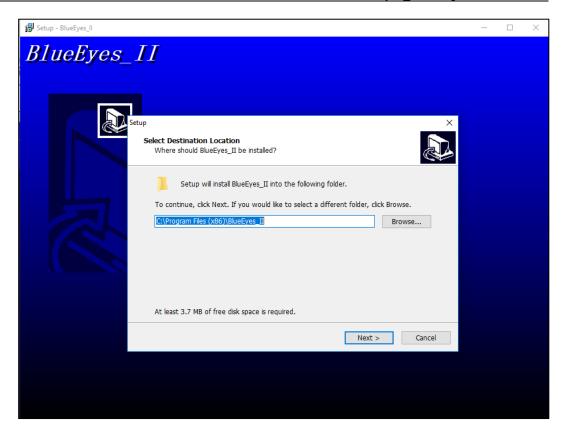
2.2 Installation steps

Step 1 Run the installation program, the installation wizard would be displayed on the screen. Select setup language as shown below.



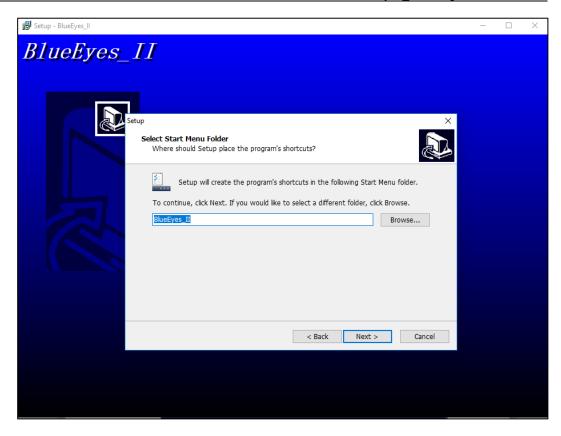
Step 2 After selecting the language, installation begins. User can click Cancel button to stop installation program; Click Next to enter the target path interface of the installer as shown below, and choose the path of software installation via Browse.





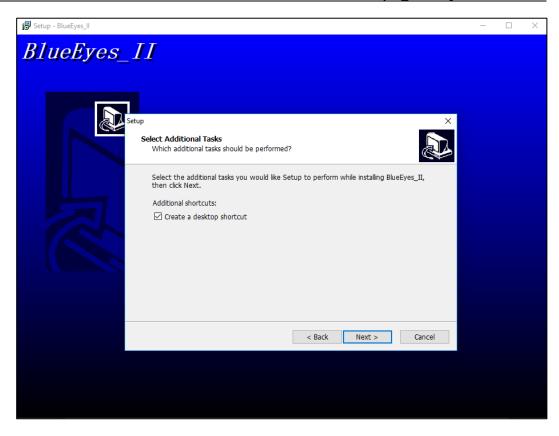
Step 3 Click Next, and choose the folder where BlueEyes II shortcut is stored via Browse after the installation as shown below.





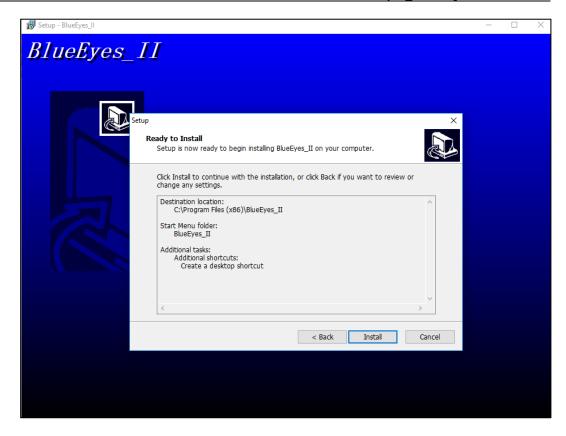
Step 4 Click Next to choose whether to create desktop shortcut as shown below. (if checked, then there would have a BlueEyes_II shortcut on the desktop).





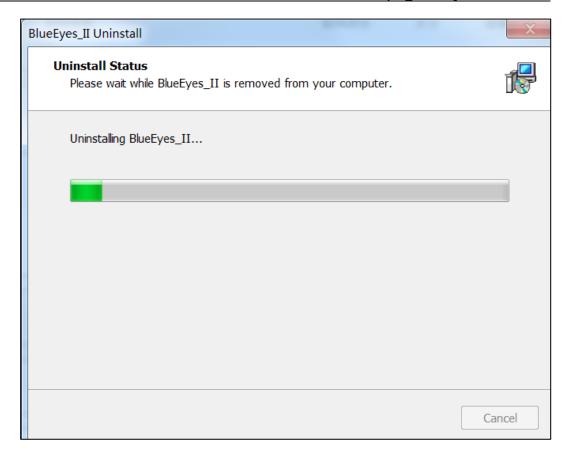
Step 5 Click Next, as user choose to create a desktop shortcut in Step 5, to enter installation interface as shown below.

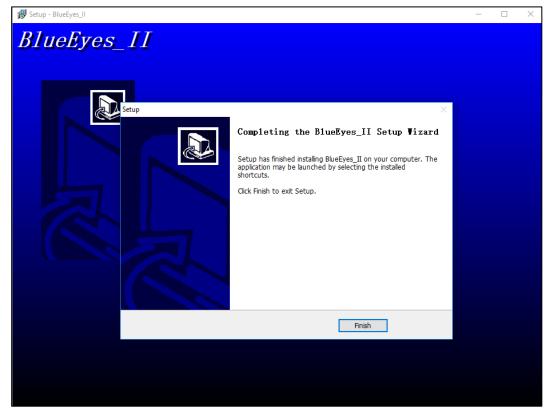




Step 6 Click Install and wait for installation to finish. The display interface is as shown below.







3onedata proprietary and confidential



Step 7 Click Finish to finish the installation. And check whether the folder of installation path has installed BlueEyes_II. If it does, please choose to create desktop shortcut on the desktop.

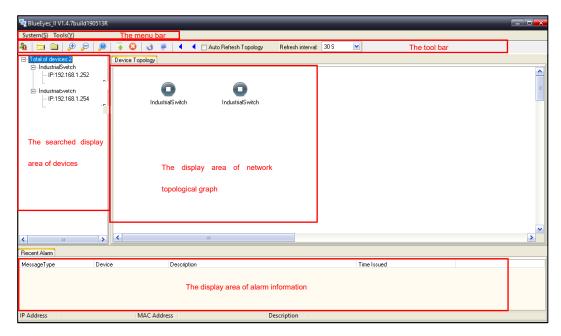


3 Interface

The icon of BlueEyes II software is as shown below.



Double click the icon to run BlueEyes_II software, and the main interface is as shown below.

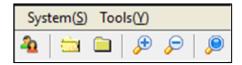


The configuration page has five parts, click the options in the menu bar to achieve the corresponding function configuration:

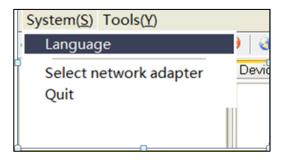
1. The menu bar



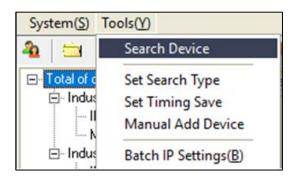
- 2. The tool bar
- 3. The display area of device
- 4. The display area of topological structure
- 5. The display area of alarm information
- The menu bar includes: System and Tools as shown below.



 The system options include: Language, Select network adapter and Quit as shown below.

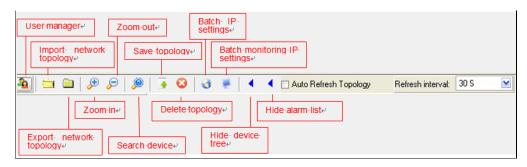


 The tools options include: Search Device, Set Search Type, Set Timing Save, Manual Add Device and Batch IP Settings, as shown below.



• The Tools bar includes: (from left to right) user settings, import network topological graph, export topological graph, zoom in, zoom out, search device, save device formation, cancel device formation, batch device IP settings, batch monitoring IP settings, hide the left list, hide the alarm list, auto-refreshing topology graph and refresh interval as shown below.





• The display area of alarm information

The current alarm information includes: message type, device, description, time issued. Main functions include: clear alarm information, save alarm logs, alarm logs query.

- Message type includes power supply message, port message, device MAC repeat and device IP address repeat.
- Associated device displays the IP address of alarm device.
- Message description displays power disconnection or port Link/Down etc.
- Time issued is the corresponding time when alarm occurs.



Menu description

Menu Item	Drop-down Menu	Function
	Language	Choose to switch between simplified
		Chinese and English operation interface
System	Select network	Select bound network card
System	adapter	
	Quit	Quit current running BlueEyes_ II
		software
	Search Device	Search devices in current network
	Set Search Type	Specify the search type of the device
		(serial port server, switch, or both)
Tools	Set Timing Save	Save device alarm information in
		database or specified folder regularly
	Manual Add	Manually set the device to be searched
	Device	Manually set the device to be searched



Menu Item	Drop-down Menu	Function
	Batch IP Settings	Set device IP address in batch
I lean eatings	_	Set the username and password that
User settings		has permission to user this software
Import network	_	Import saved device topological
'		structure graph to current display area
topological graph		of topology
Export topological	_	Export researched device topological
graph		structure graph to ".BEF" type file
Zoom in	_	Zoom in topological graph in a certain
20011111		ratio
Zoom out	_	Zoom out topological graph in a certain
200111 001		ratio
Search device	_	Search devices in current network
Save device		After searching the devices, save
formation	_	devices' topological graph
Cancel device		Delete saved topological structure
formation	_	graph
Batch device IP		Set device IP address in batch
settings	_	Set device in address in batch
Batch monitoring IP		Set IP address of receiving host of each
settings	_	device alarm information
Hide the left list	_	Hide the left action list
Hide the alarm list	_	_
	Clean alarm	
Current	message	_
Current alarm	Save alarm logs	_
information	Alarm log query	The newest alarm log only can be
		queried after the alarm log is saved



4 Function Configuration

4.1 System configuration

4.1.1 Language settings

- Function: choose to switch between simplified Chinese or English operation interface.
- Operation:

Click [System]→select[Language Settings], the window would pop up as shown below, select needed language and click OK.



4.1.2 Select network adapter

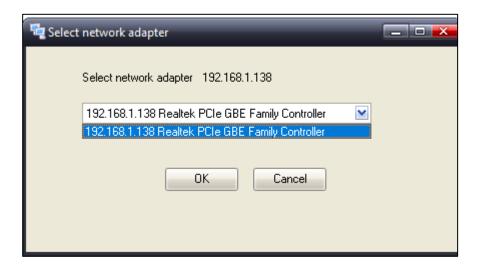




Only the new version of the software supports this function.

- Function: select bound network adapter
- Operation:

Click [System]→select[Select network adapter], the window would pop up as shown below, select specified network adapter and click OK.



4.1.3 Quite

- Function: end the operation and quite BlueEyes_II
- Operation:

Click [System]→select[Quite]

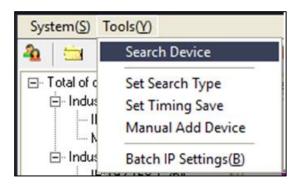
4.2 Tool configuration

4.2.1 Search device

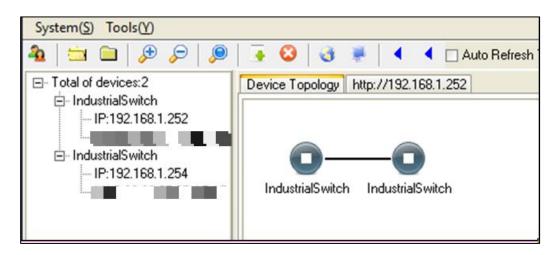
- Function: search connected devices that need to be managed, check numbers and IP address etc.
- Operation:

Step 1 Click [Tools] in the menu bar→ select [Search Device], as shown below.





Step 2 BlueEyes II interface search device, as shown below.



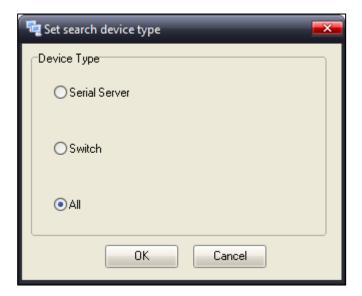


The IP address and MAC address cannot be the same within the same network. When there are devices of the same IP address in the network, it would display in the alarm bar. When there are devices of the same MAC address, then only one of them can be searched, and any operation of function configuration could pop up [Access Timeout] window.

4.2.2 Specify search device

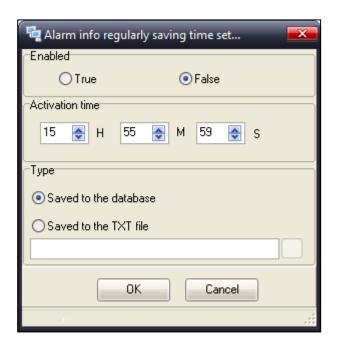
- Function: set search device type (serial server, switch, or all).
- · Operation:
- **Step 1** Click [Tools] in the menu bar→ select [Set search type], [Set search type] interface would pop up as shown below. Choose [Serial server], [Switch] or [All] in [Device type], only the corresponding device can be searched if user choose one of the options.





4.2.3 Alarm info regularly saving time set

- Function: saving device alarm info in database or specified folder regularly.
- Operation:
- **Step 1** Click [Tools] in the menu bar → select [Alarm info regularly saving time set], then [Alarm info regularly saving time set] interface would pop up as shown below.



Step 2 Enable alarm info regularly saving time set function, select [True] in [Enabled] area to enable alarm info regularly saving time set function, then set enable time of saving



alarm information in [Activation time], such as 0 H 30 M 0 S, which means saving alarm information every 30 minutes, then select [Saved to the database] or [saved to the TXT file] in the [Type]. The alarm information could be found in [Alarm log search] when user chooses [Saved to the database]. If choose [Saved to the TXT file], user can check the file by opening file path. The alarm information file would be saved with data as its file name and TXT as file format as shown below.

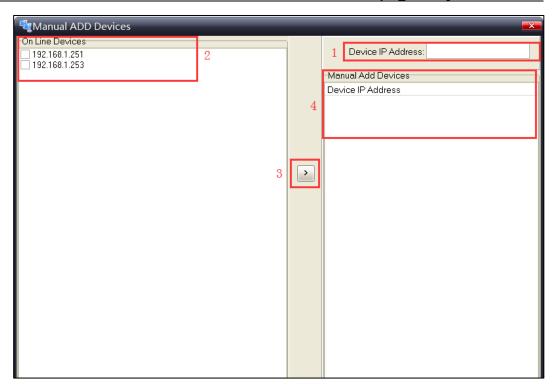




4.2.4 Manual add devices

- Function: Manually set the device IP to be searched. It sends unicast packet for searching.
- Operation:
- **Step 1** Click [Tools] in the menu bar → choose [manual add devices]. the [manual add devices] interface would pop up and the two ways of adding devices are as follows:
 - 1. Enter specified IP address in the Area 1 and add it in the list of Area 4;
 - 2. In the area 2, choose IP address and click add button in area 3, then add it in the list of Area 4, at last click OK, the device could be added via unicast packet searching. If the port mapping relation of the router has been configured, the cross-router search could be realized. The search process would be like, first the 65533 port of the PC sends command to the 65534 port of specified device, then the 65533 port of the device response searching, and send affirmation commend to the 65534 port of the PC and finish searching.





4.3 User manager

- Function: set username and password, verify username and password when opening the software
- Operation:

Step 1 Click the icon in the tool bar → enter user settings interface as shown below.

"admin" is existing user. To create or modify user password, user need to click [create/modify user password] first, then enter new username and password in the corresponding box below.





- **Step 2** If user doesn't need to set password, he could click [create or modify] in the picture above, leave name and password empty, then click OK. The username and password settings can be canceled. Reopening Blueeyes_II doesn't need username and password verification;
- Step 3 If user needs to set personal username, he could fill in new username in the corresponding box of [New Name] in the picture below, and then fill in new password in the [New Password] box. Click OK after entering confirm password. If the confirm password filled in is consistent with new password, BlueEyes_II would pop up operation completed dialog box as shown below, then the new name and password are modified successfully.





If the confirm password is not consistent with the new password, BlueEye_II would pop up a warning dialog box as shown below, then new username and password modification fails and the user needs to set up again.

After setting up username and password, reopen BlueEyes_II software, the user name and password verification interface would pop up, user can use this software only by entering right username and password. As shown below.





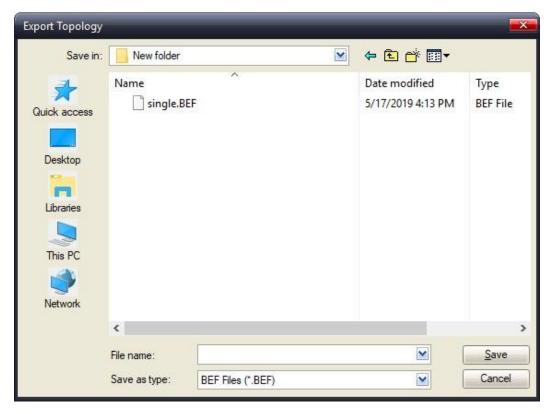
After setting up the username and password, please keep them in mind. If forget by accident, please uninstall the software and install it again.

4.4 Export topology

- Function: export the device topological structure graph of main interface of BlueEyes_ II into ".BEF" type file and save it.
- Operation:

Step 1 Click the icon [of [export topology] in the tool bar→ enter save interface as shown below;



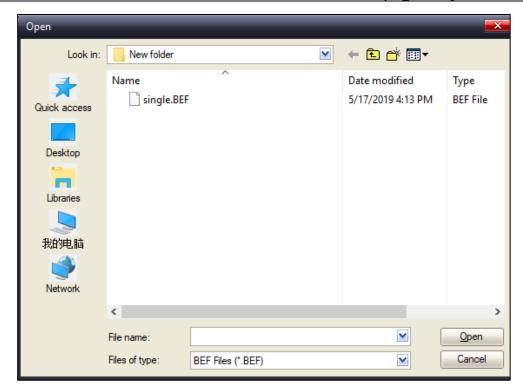


Step 2 Select the save path in the picture above, fill in legal file name, click Save. User can see the corresponding ".BEF" type file in the saved address path after saving it.

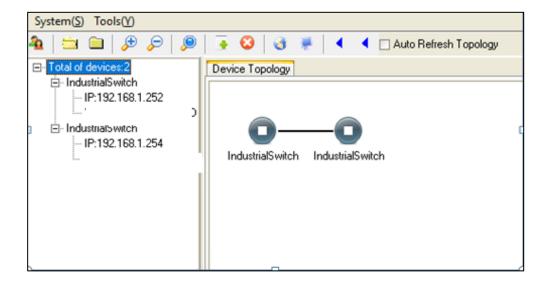
4.5 Import topology

- Function: import exported device topological structure graph into current topology position.
- Operation:
- **Step 1** Click the icon [import topology] in the tool bar→ enter the save path of topological graph file as shown below;





Step 2 Select file ending in ".BEF" to be imported, and click Open. For example: choose [single.BEF] file, the imported device topological structure graph is as follows.



4.6 Zoom in

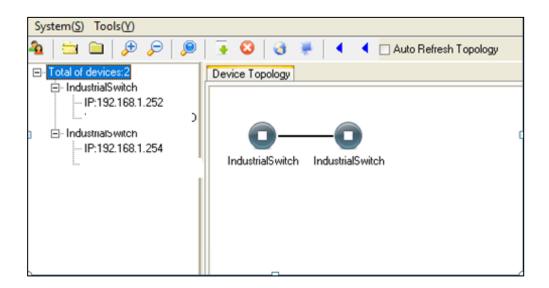
- Function: zoom in topological graph
- Operation:



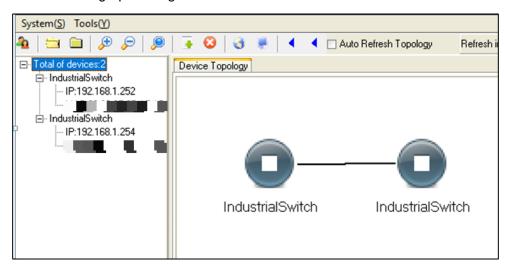
Step 1 Search device;

Step 2 Click the [zoom in] icon [in the menu bar.

The following picture is the initial view:



Click the zoom in function, the initial view changes as follows. After zooming in, you could see the graph is larger than before.



4.7 Zoom out

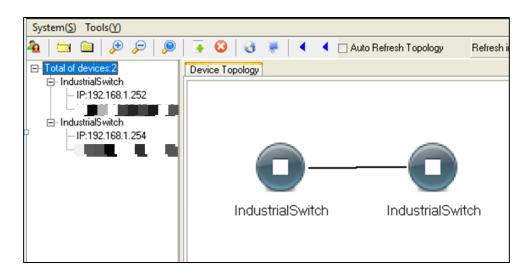
- Function: zoom out topological structure view
- Operation:

Step 1 Search device;

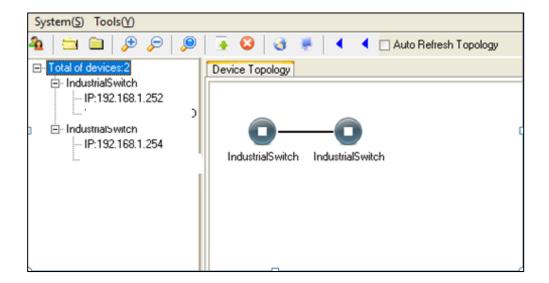


Step 2 Click the [zoom out] icon [] in the menu bar.

The following picture is the initial view:



Click the zoom out function, the initial view changes as follows. After zooming out, you could see the graph is smaller than before.



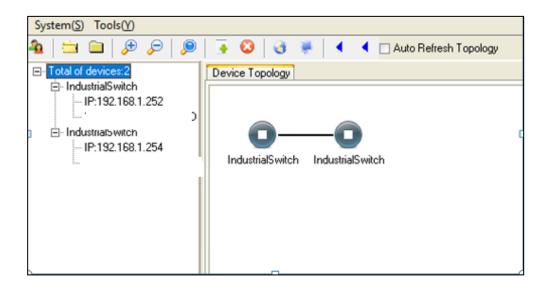
4.8 Search device

- Function: search device topological structure graph.
- Operation:

Step 1 Open BlueEyes_II main interface.



- **Step 2** Click the search device icon [], after searching devices, the topological structure graph of the switches would display in the blank of the right.
- **Step 3** The device IP address, MAC address, device name and other information could be obtained via searching device.





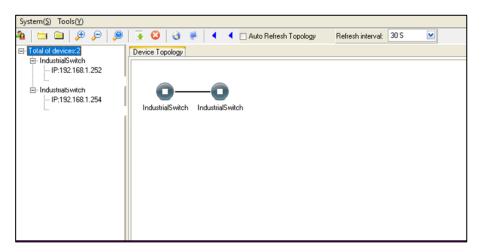
- All device IP or MAC addresses can't have two or more of the same.
- If you can't search all of the devices, the reason may be: there are devices with the same MAC address or VLAN configuration error.
- Only when the device enables SWRING, can the ring network connection between the devices in device topological graph display.

4.9 Save topology

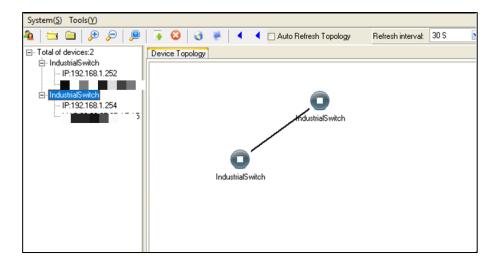
- Function: search and save current topological structure graph. The topology remains the same next time searching the devices. This function applies to personalized topological structure graph when the device number is large.
- Operation:

Step 1 Search device, check device topological structure graph as follows;





Step 2 Change topological structure as shown below, and click [save topology] icon [in the tool bar;



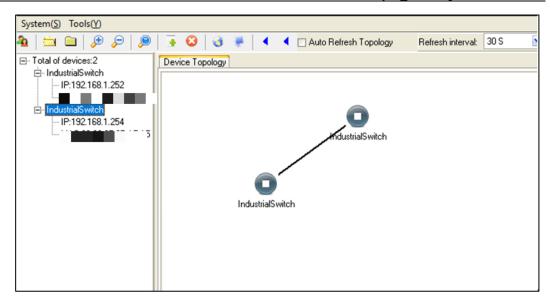
Step 3 Search device again, its topological structure graph is the same as the picture above.

4.10 Delete topology

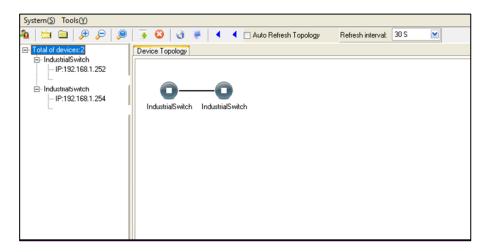
- Function: restore initial topological structure graph (inverse operation of saving topology).
- Operation:

Step 1 After [save topology], search device, check network topological structure graph as follows:





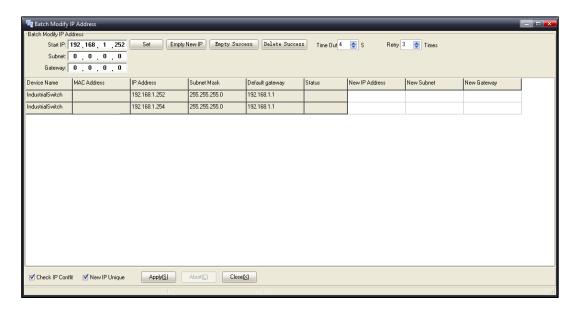
- Step 2 Click [delete topology] icon []in the tool bar;
- Step 3 Search device again, and check network topological structure graph as follows.



4.11 Batch IP settings

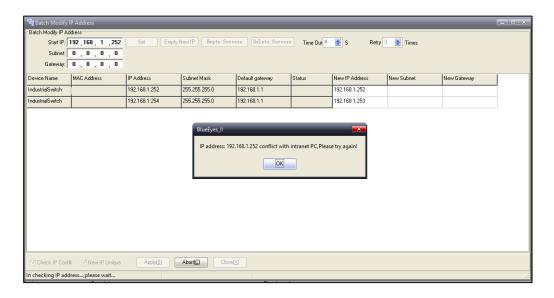
- Function: set device IP address in batch
- Operation:
- Step 1 Click [Batch IP settings] icon [in the tool bar to enter batch IP settings interface as shown below;





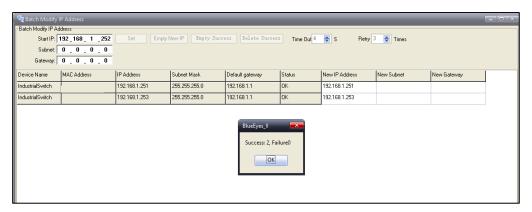
Step 2 In the blank space of batch IP settings interface, set new IP address, new subnet mask and new gateway.

Set new IP that different from other devices. if the IP address is the same as that of other devices, BlueEyes_II software would pop up IP address conflict tooltip as shown below.



If user enters legal IP address without IP address conflict, then it would prompt that configuration is succeeded as shown below.

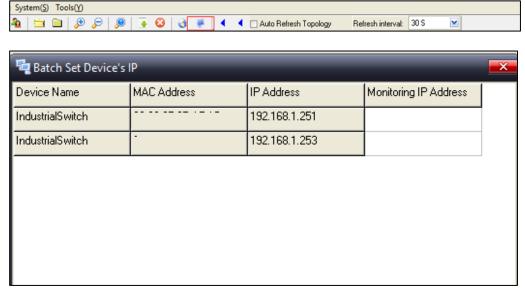




4.12 Batch monitoring IP settings

- Function: set up global monitoring IP address of mainframe, warning information would be sent to the corresponding mainframe of monitoring IP address only.
- Operation:

Step 1 Click [batch monitoring IP settings] icon [in the menu bar as shown below to enter batch monitoring IP settings interface.

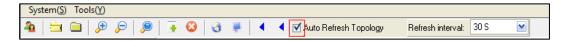


Step 2 Set new IP address in the monitoring IP address bar of [batch monitoring IP settings] interface.

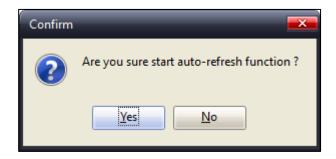


4.13 Auto refresh topology

- Function: refresh network topological graph display automatically, user can choose refresh interval.
- Operation:



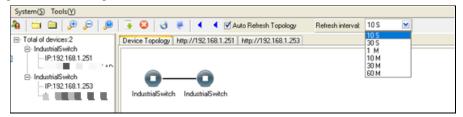
Step 2 Click "Yes" in the pop-up window as shown below;



Step 3 It would refresh automatically after clicking "Yes" as shown below;



Step 4 The corresponding time selection would appear after clicking the drop-down icon of [refresh interval] as shown below;





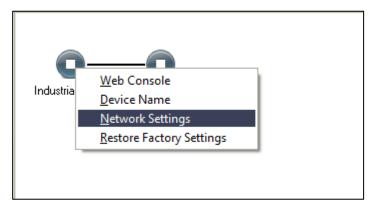
5 Device function configuration

5.1 Modify device IP

- Function: modify device IP address, subnet mask and default gateway quickly.
- Operation:

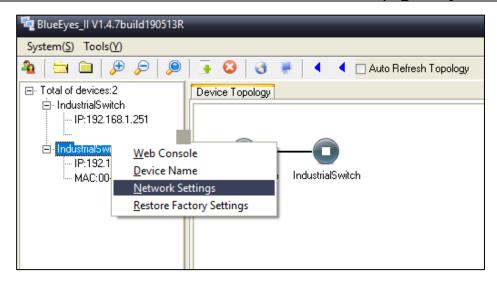
Step 1 Pop up shortcut menu of IP address.

Method 1: right-click the display function menu of topological structure graph of the device whose IP address needs to be modified as shown below.

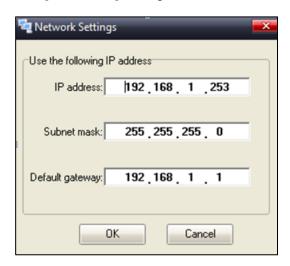


Method 2: right-click the name, IP address, MAC address of the device whose IP address needs to be modified as shown below.





Step 2 Click[IP address], dialog box of IP address configuration pops up as follows.



Step 3 Configure needed IP address, subnet mask and default gateway according to requirements as shown above.

5.2 Modify device name

- Function: modify device name quickly to differentiate devices.
- Operation:
- **Step 1** Open function selection interface, choose [device name], the dialog box of [device name] modification would pop up as shown below;

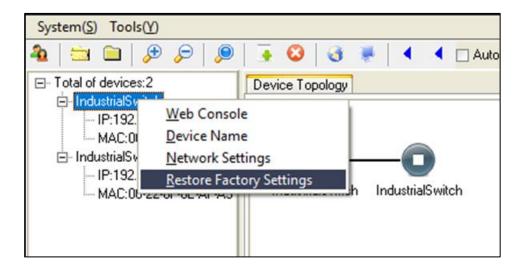




Step 2 User can configure new device name and device number in the interface above. Both the device name and device number should be less than 21 characters.

5.3 Restore factory settings

- Function: restore device to factory settings
- Operation:
- Step 1 Search device;
- Step 2 Open function selection interface, select [restore factory settings] as shown below.



Step 3 The confirmation dialog box of [restore factory settings] pops up as shown below, after clicking [Yes], the device starts to restore factory settings. It would prompt that configuration succeeds. After restoring factory defaults, the IP address, name and



other function settings of the device has restored factory settings. Please refer to device manual for detailed device factory settings. Please notice that ring network function would be disabled after restoring factory settings. Please use it with caution when there are ring networks in the network.



5.4 Enter Web interface

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

Step 1 Open function selection interface, select [Web settings], password authentication interface would pop up as follows.

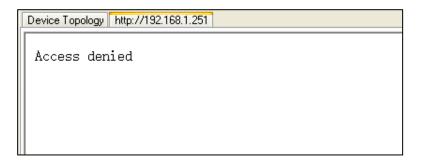


Step 2 Enter device's user name and password, click [OK] to enter WEB configuration



interface for all function configurations, whose functions are equal to IE browser.

Step 3 If enter wrong username and password for 3 consecutive times, the interface would go wrong as shown below;



5.5 Alarm logs

There are three ways to process alarm information: clear, save and query.

- Function: save alarm information, alarm information could be exported in Excel format.
- Operation:
- 1. Clear alarm information
- **Step 1** Right-click the display area of alarm information, the configuration menu of alarm information would pop up as shown below;



Step 2 Choose [Clear], a dialog box would pop up as shown below;



Step 3 Click Yes, the alarm information in device alarm window would be cleared as shown



below.



- 2. Save alarm information
- **Step 1** Right-click the display area of alarm information, the configuration menu of alarm information would pop up as shown below;



Step 2 Click save, a dialog box would pop up as shown below.



Step 3 Click [OK] as shown below.



Three, alarm logs query and export

The alarm logs query and export includes setting [time], [device], and [type], delete, query and export alarm information.

Step 1 Right-click the display area of alarm information, the configuration menu of alarm information would pop up as shown below;



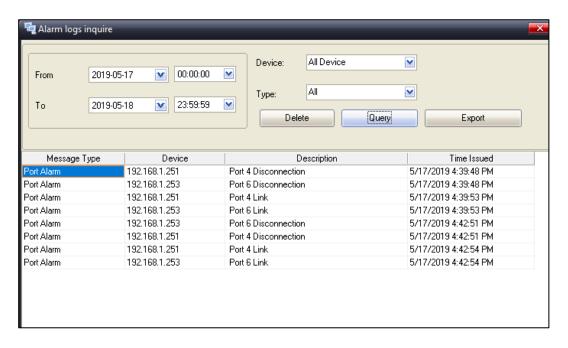


Step 2 Choose [query], the [alarm logs inquire] configuration dialog would pop up as shown below; the default time is one day, default device is all device, default type is all. The alarm types include port alarm and power supply alarm etc.

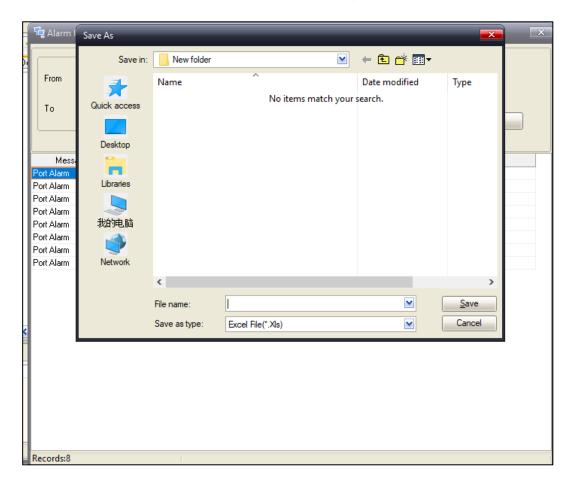


Step 3 Set right [time], select device and alarm type, then click [query], the queried alarm information would display in the following list, please be aware of the accuracy of time settings, otherwise the need alarm information cannot be queried as shown below.



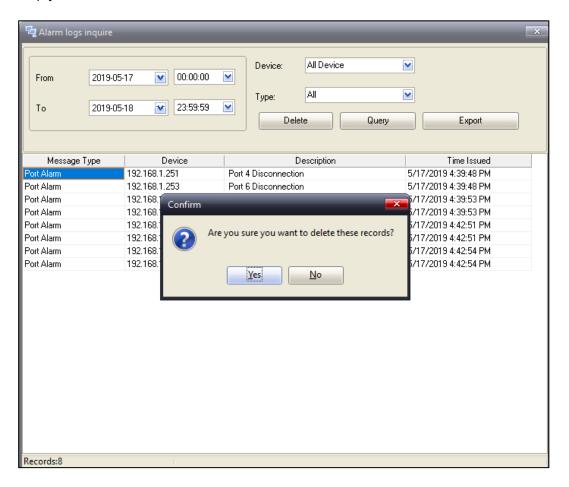


Step 4 To save alarm information, user can choose [export], the file path dialog would pop up as shown below, choose the path to save and fill in legal file name, then click save.





Step 5 To delete alarm information, user can click [Delete] in alarm log query, then choose [Yes] in the popup confirmation dialog box; after deleting alarm log, the list would be empty.





Appendix 1 FAQ

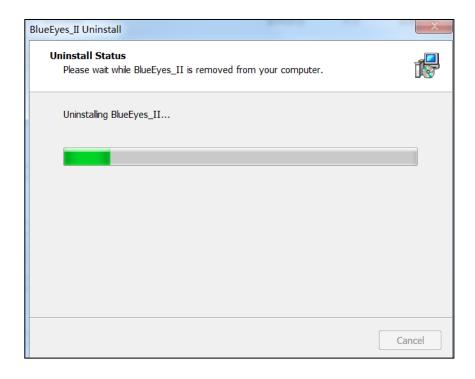
1. Uninstallation description:

To uninstall BlueEyes_II software, user can follow the following steps:

Choose: Start→Program→BlueEyes_II→Uninstall BlueEyes_II to uninstall BlueEyes_II software. Software uninstallation dialog box is as follows:



1). Click [Yes], the software starts to be uninstalled.





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



2. Can we use this software to search switches from other companies?

Answer: NO, this software is specially designed for the switch of our company.

3. Why can't we search device via BlueEyes_II?

Answer: 1. make sure the network card is normally enabled, and the device and PC routing is accessible. 2. Choose the right type of the device to be searched in the [Tool] menu, such as switch and serial server. 3. Make sure the software version you use supports WEB management.

4. What if I forgot the login password of BlueEyes_II?

Answer: Uninstall this software and reinstall it.

5. When there are alarm information, except the display area of alarm information below BlueEyes $_{\rm II}$ software can display them, are there any ways to inform technical personnel?

Answer: when there are alarm information and buzzer in the monitoring computer, the buzzer would send out alarm sounds.

6. Why can we search devices via BlueEyes $_{\rm II}$, but it would remind us [visit timeout] when configuring some functions?

Answer: 1. Check whether the IP addresses of the mainframe and the device are in the same subnet.2. Check VLAN settings of the device, and whether the commands sent by PC can reach the CPU Port of the device. 3. Check whether the device and software supports this function.



7. The device can be searched, but there is no connection line in topological structure graph?

Answer: The connection line, which represents the connection status of the ring network, is the marking line of SWRING ring network port. BlueEyes_ II only supports SWRING_ II, and BlueEyes_ I only supports SWRING_ II. Other reasons may be relevant to software version.

8. Why there are error message that "Could not bind socket Address and port are already in use." when running BlueEyes_II?

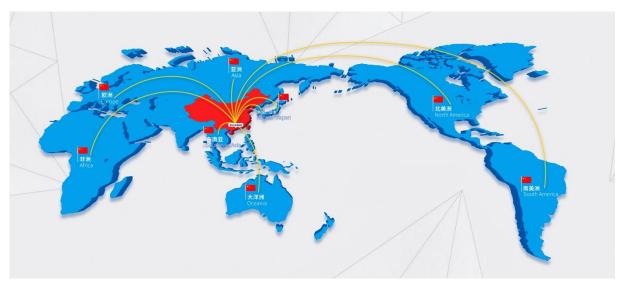
Answer: if BlueEyes has already run in this mainframe (including BlueEyes_ I and BlueEyes_ II), running other one would cause error.

9. Can BlueEyes $_{\rm II}$ realize cross-route search?

Answer: this software supports cross-route search, first add device IP to be searched to the list, then set mapping relations of relevant ports and the mainframe in the router to make sure the search command can reach the specified device.







3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial park, Nanshan District, Shenzhen, 518108 China

Tel: +86-755-26702668

E-mail: sales@3onedata.com

Fax: +86-755-26703485

Website: http://www.3onedata.com