

DeviceView User Manual

Version	Issue date	Changes	Remark
0.1	2018/09/19	Initial Version	

IMPORTANT

This document contains important Information and therefore should not be disclosed to third parties without prior written consent of amazipoint technology Ltd.

Address : 2F, No. 113, Zhongyang Rd., Xindian Dist., New Taipei City, Taiwan(R.O.C) www.amazipoint.com

Signature:

Author:	Reviewed by:	Approved by:	Remarks:
Martin Ho			

1 Introduction

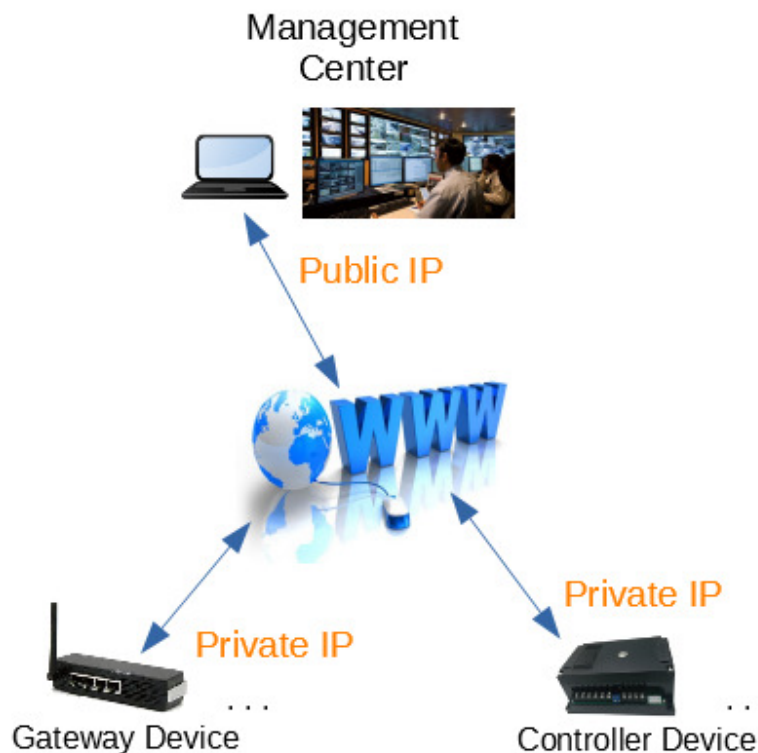
1.1 Overview

DeviceView is a powerful managing tool for our IoT gateway/controller devices. This tool can access the status and control many of distributed devices via a public IP network.

The minimum requirement for installing DeviceView is :

- PC with Windows 10 operating system
- Support .Net framework 4.6.1 or higher version

1.2 Network connection architecture diagram



Network connection diagram

The PC installed DeviceView must have a network interface with a public IP. The device should be pre-configured either a domain name or a fixed public IP address. The device can get the public IP address via DNS server if it is a pre-configured domain name. The port number

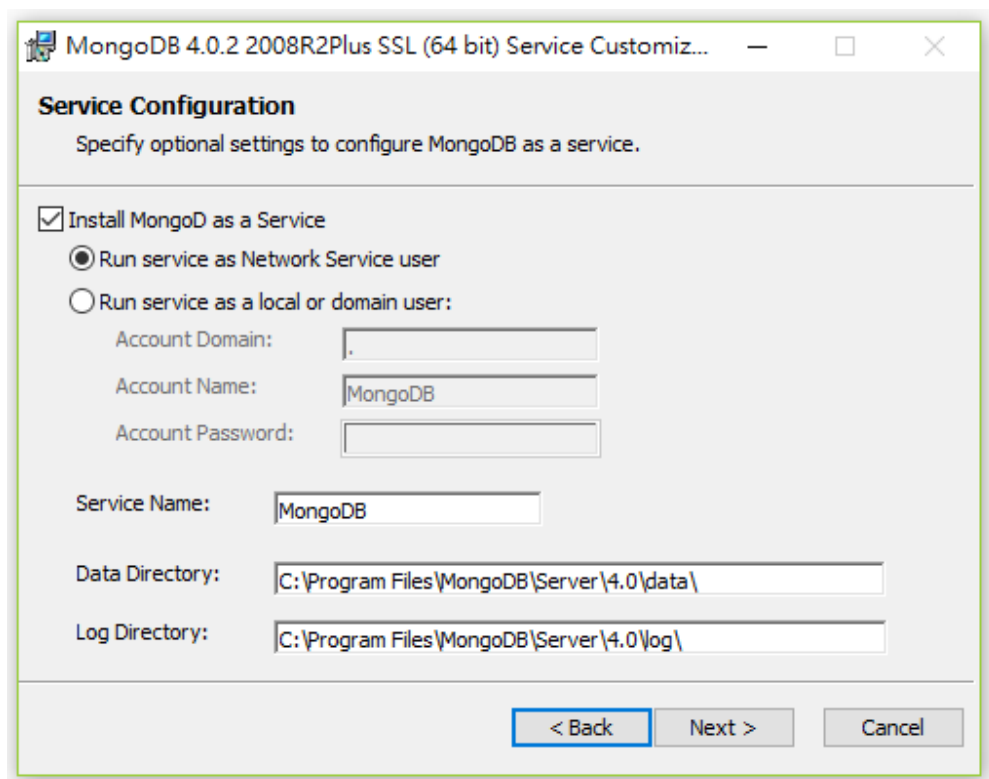
should be pre-configured, too.

2 Configure DeviceView and connected devices

2.1 Install database

DeviceView requires a database. Please install MongoDB .msi file attached in MongoDB folder by following the setup instructions with default setting.

You could change default directory if it is required.

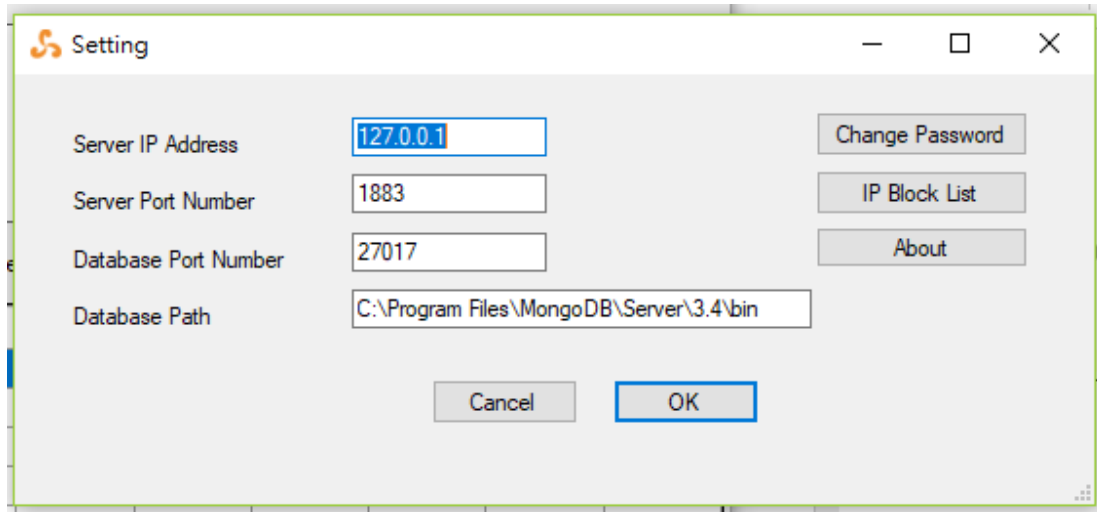


Change default directory if it is required

2.2 Install DeviceView

By executing setup.exe of DeviceView, it will complete installation automatically.

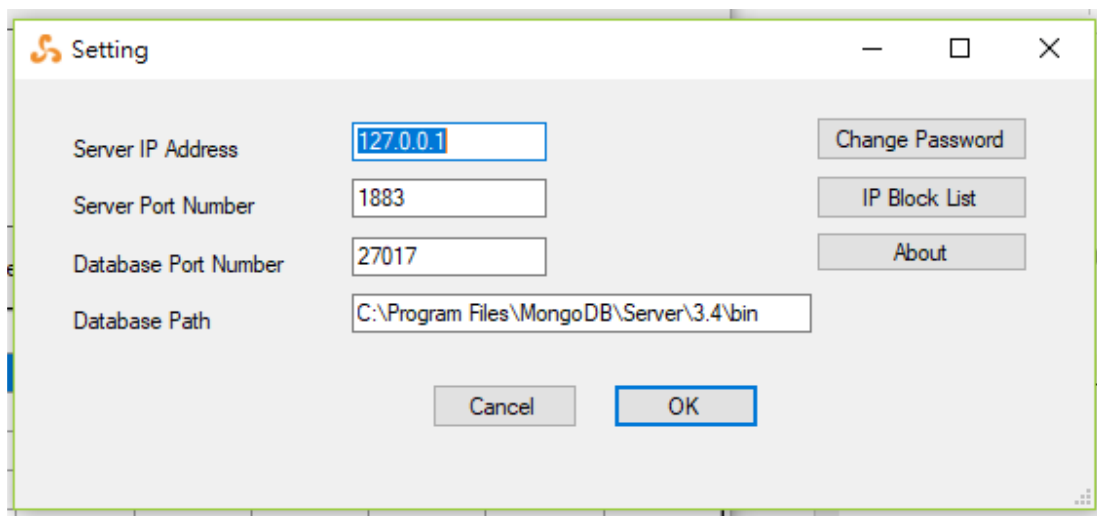
2.3 Configure database port number and path



Setting message box

The database path is the installation folder of MongoDB. The database port number is 27017 in default. Use other port number once this port number has been occupied.

2.4 Configure server IP address and port number

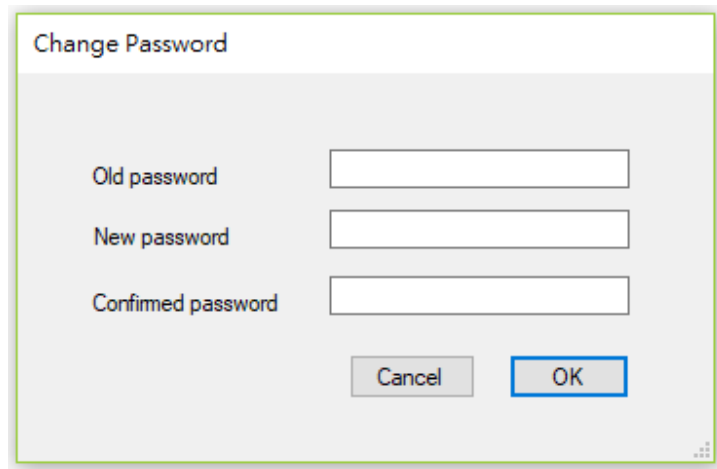


Setting message box

The server IP address is the public IP address shown in 1.2 Network connection diagram. Server port number is 1883 in default. The device should be pre-configured either a domain name or this IP address. The port number should be pre-configured in device, too.

2.5 Change password

Pressing "Change Password" button in "Setting" menu, you can change password. You can set a blank password "" to disable password checking.

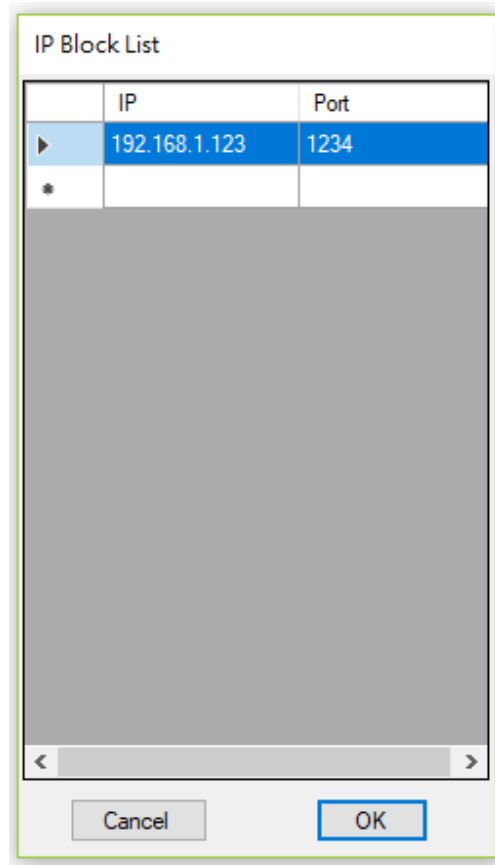


The image shows a dialog box titled "Change Password". It contains three input fields: "Old password", "New password", and "Confirmed password". Below the input fields are two buttons: "Cancel" and "OK". The "OK" button is highlighted with a blue border.

Change password message box

2.6 IP block list

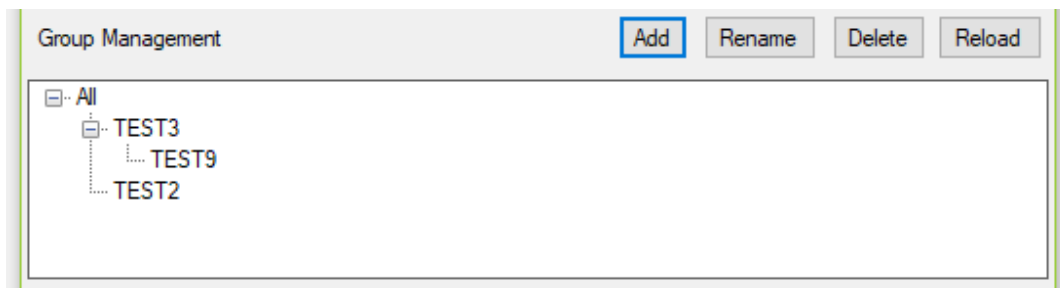
By input one or multiple IP/Port block list, you can reject any connection request from the IP/Port combination in the list. An IP with empty port means blocking any port from that IP.



Input IP block list with IP 192.168.1.123 and port 1234 combination

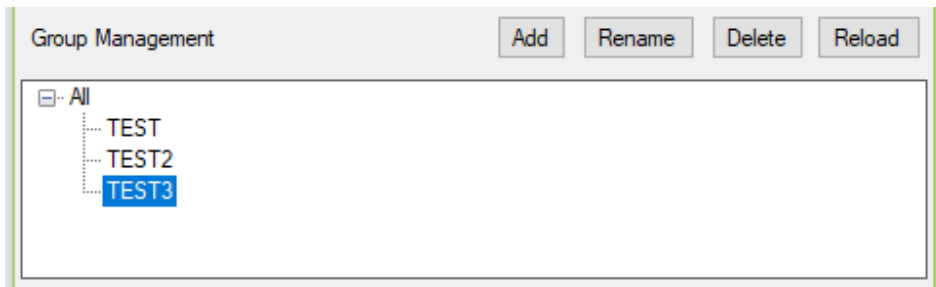
3 Group management

Managing devices by a tree type group structure is an intuitive and convenient way. We support maximum two level tree structure. "All" is the root of group structure. Any device without specific group assignment is put under "All" group. "All" group can not be renamed or deleted.



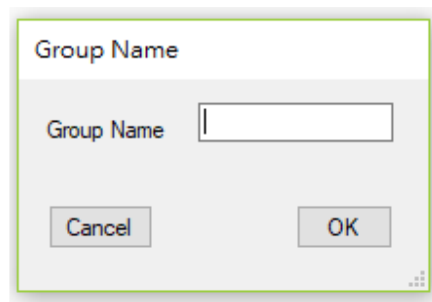
TEST9 is the child group of TEST3

By selecting a group, you can press "Add", "Rename", "Delete" and "Reload" button for associate operation.



Selecting "TEST3" group

"Add" button will create a child group of the selected group. "Rename" button will rename the selected group. A pop-up message box asks for input group name.



Pop-up message box for group name input

"Reload" button or double click a group will list all devices within this group. "Delete" button will delete the group. You must delete all child group before deleting a group.

Device List and Operation							
<input type="button" value="Grouping"/> <input type="button" value="Delete"/> <input type="button" value="Reload"/> <input type="button" value="Select All"/>							
	Name	MAC	Series	WanIp	LanIp	FwVersion	Status
▶	Test Client 1 0	000000000015	SH1			0.1	Disconnected
	Test Client 1 1	000000000016	SH1			0.1	Disconnected
	Test Client 1 2	000000000017	SH1			0.1	Disconnected
	Test Client 1 3	000000000018	SH1			0.1	Disconnected
	Test Client 1 4	000000000019	SH1			0.1	Disconnected
	Test Client 1 5	00000000001A	SH1			0.1	Disconnected
	Test Client 1 6	00000000001B	SH1			0.1	Disconnected
	Test Client 1 7	00000000001C	SH1			0.1	Disconnected
	Test Client 1 8	00000000001D	SH1			0.1	Disconnected
	Test Client 1 9	00000000001E	SH1			0.1	Disconnected
	Test Client 1 10	00000000001F	SH1			0.1	Disconnected
	Test Client 1 11	000000000020	SH1			0.1	Disconnected
	Test Client 1 12	000000000021	SH1			0.1	Disconnected
	Test Client 1 13	000000000022	SH1			0.1	Disconnected
	Test Client 1 14	000000000023	SH1			0.1	Disconnected
	Test Client 1 15	000000000024	SH1			0.1	Disconnected
	Test Client 1 16	000000000025	SH1			0.1	Disconnected
	Test Client 1 17	000000000026	SH1			0.1	Disconnected
	Test Client 1 18	000000000027	SH1			0.1	Disconnected
	Test Client 1 19	000000000028	SH1			0.1	Disconnected

List all devices within a group

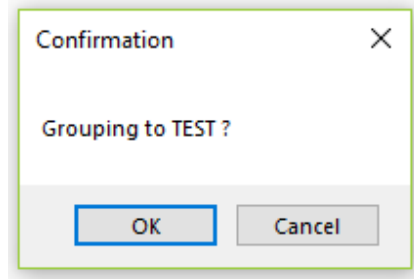
4 Device list and operation

Device list is a dynamic list that show the status of one device in one row. The status is reported periodically by each connected device automatically.

The meaning of column :

- Name : device name pre-configured in device
- MAC : MAC address of device Wifi interface or LAN interface
- Series : model series name pre-configured in device
- WanIp : IP address of device WAN port
- LanIp : IP address of device LAN port
- FwVersion : Firmware version of device
- Status : Connected or Disconnected with DeviceView

By selecting a group first and then select one row or multiple rows, you can press "Grouping" to assign the selected group to those selected devices. Pressing "Delete" will delete those selected devices from database. There are confirmation message for these operations.



Confirmation for grouping operation

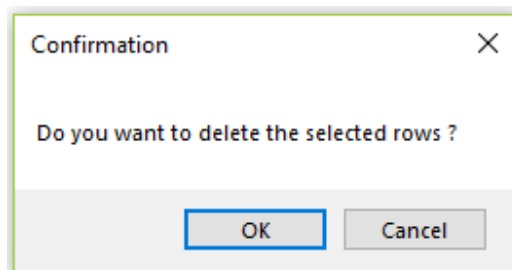
Group Management Add Rename Delete Reload

- [-] All
 - TEST
 - TEST2**
 - TEST3

Device List and Operation Grouping Delete Reload Select All

	Name	MAC	Series	WanIp	LanIp	FwVersion	Status
	Test Client 1 0	000000000015	SH1			0.1	Disconnected
	Test Client 1 1	000000000016	SH1			0.1	Disconnected
	Test Client 1 2	000000000017	SH1			0.1	Disconnected
	Test Client 1 3	000000000018	SH1			0.1	Disconnected
▶	Test Client 1 4	000000000019	SH1			0.1	Disconnected
	Test Client 1 5	00000000001A	SH1			0.1	Disconnected
	Test Client 1 6	00000000001B	SH1			0.1	Disconnected
	Test Client 1 7	00000000001C	SH1			0.1	Disconnected
	Test Client 1 8	00000000001D	SH1			0.1	Disconnected
	Test Client 1 9	00000000001E	SH1			0.1	Disconnected
	Test Client 1 10	00000000001F	SH1			0.1	Disconnected
	Test Client 1 11	000000000020	SH1			0.1	Disconnected
	Test Client 1 12	000000000021	SH1			0.1	Disconnected
	Test Client 1 13	000000000022	SH1			0.1	Disconnected
	Test Client 1 14	000000000023	SH1			0.1	Disconnected
	Test Client 1 15	000000000024	SH1			0.1	Disconnected
	Test Client 1 16	000000000025	SH1			0.1	Disconnected
	Test Client 1 17	000000000026	SH1			0.1	Disconnected
	Test Client 1 18	000000000027	SH1			0.1	Disconnected
	Test Client 1 19	000000000028	SH1			0.1	Disconnected

Selecting TEST group and multiple devices

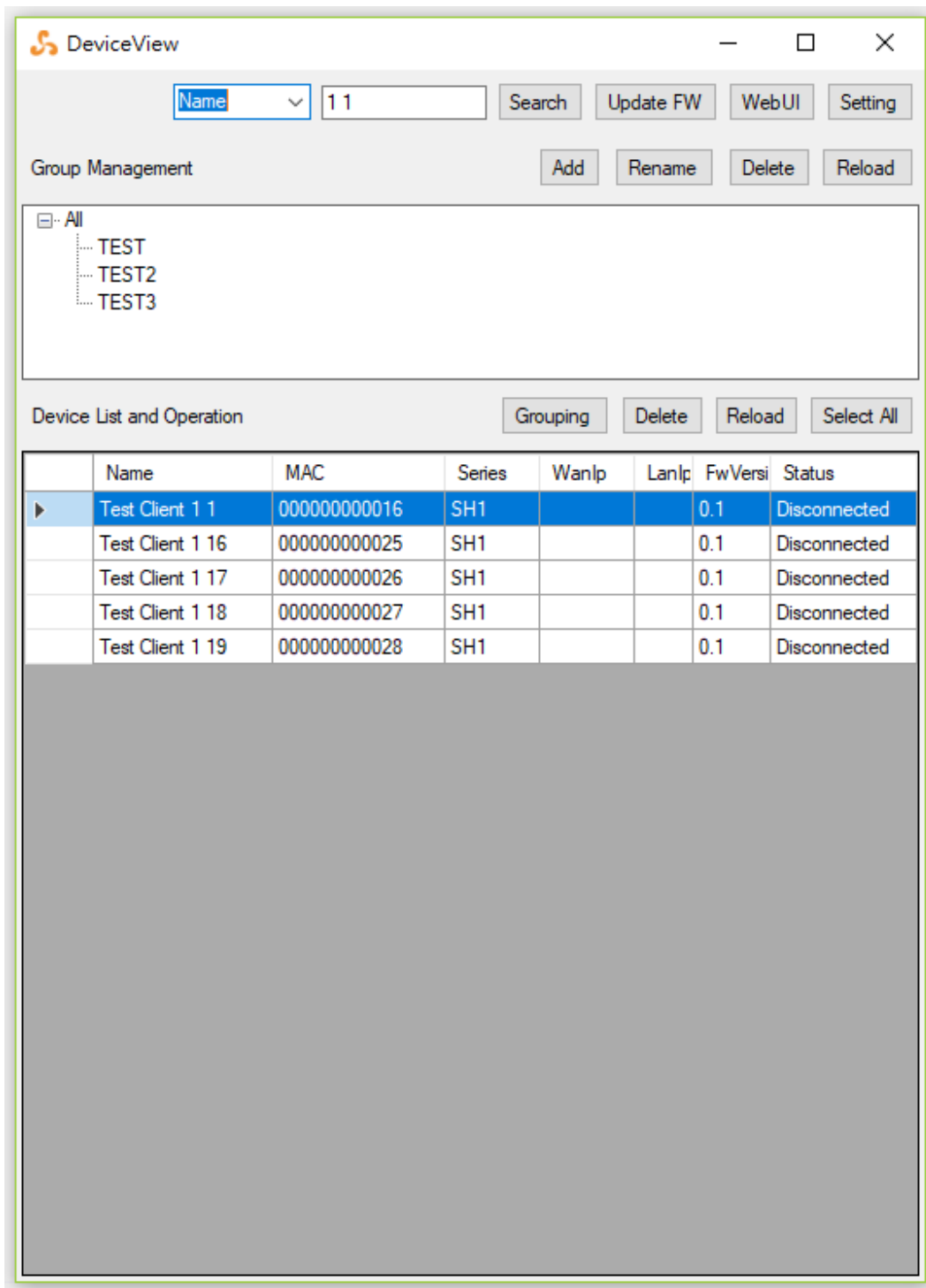


Confirmation for delete operation

5 Other operation

5.1 Text search operation

Selecting a column in the combo box first and input the text, pressing "Search" button. All the device whose selected column contain the input text will be listed.



The “Name” column is selected and “1 1” is the input text for searching

5.2 WebUI

By selecting one device first and then pressing “WebUI” button, a browser window connected to the selected device WebUI page will popup.

5.3 Update FW

By selecting one or multiple devices and pressing Update FW button, an update firmware command will be sent to all selected devices. The device will proceed firmware update task automatically. Once firmware is updated, the device will report new FwVersion to DeviceView.

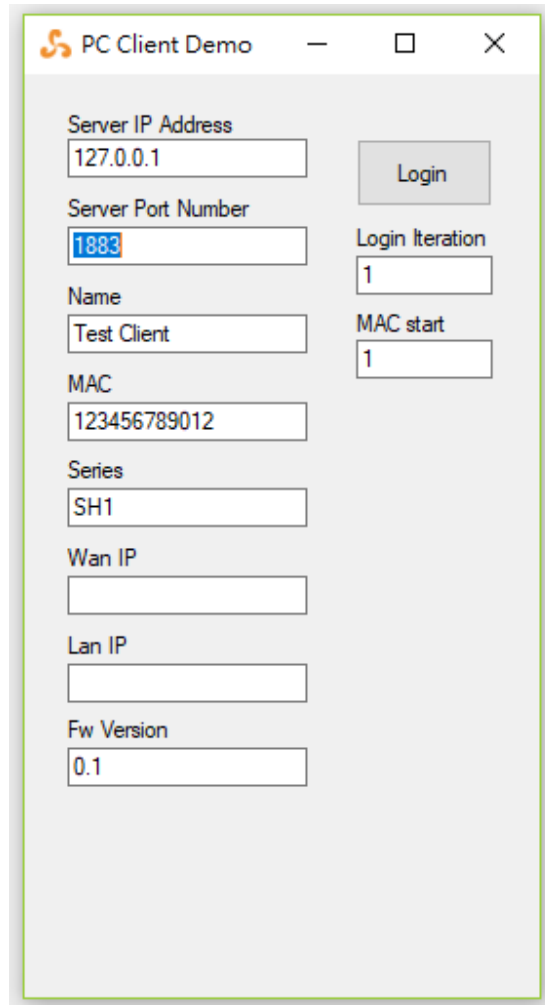
6 PC client demo

For evaluation purpose, we provide a program "PC client demo" that running on the same PC with DeviceView to emulate multiple devices. Just by clicking DemoClient.exe, you can launch this program without installation procedure.

6.1 One device emulation

- Server IP Address : should be 127.0.0.1 and the "Server IP address of DeviceView setting should be 127.0.0.1, too.
- Server Port Number : should be the same as the . "Server Port Number" of DeviceView.
- Name : the name of device reported to DeviceView
- MAC : the MAC address of device reported to DeviceView
- Series : the model series name of device reported to DeviceView
- WanIp : the IP address of WAN port of device reported to DeviceView
- LanIp : the IP address of LAN port of device reported to DeviceView
- Fw Version : the firmware version of device reported to DeviceView
- Login Iteration : the number of emulated device. For one device emulation, this should be "1".

Pressing Login button, you could see a connected device in the DeviceView.



The screenshot shows a window titled "PC Client Demo" with the following fields and values:

- Server IP Address: 127.0.0.1
- Server Port Number: 1883
- Name: Test Client
- MAC: 123456789012
- Series: SH1
- Wan IP: (empty)
- Lan IP: (empty)
- Fw Version: 0.1
- Login Iteration: 1
- MAC start: 1
- Login button: (disabled)

PC Client Demo User Interface

6.2 Multiple device emulation

By input "Login Iteration" field a number larger than 1, you can emulate devices in the input number quantity simultaneously.

The MAC address will be the number start from "MAC start" field instead of "MAC" field for one device emulation. The Name of device will append a series number automatically such that each device has different name.