No.EX※※-OMV1027-A

Operation Manual

PRODUCT NAME

IP Address Setting Tool
(Presetting Type)

MODEL / Series / Product Number

EX9–ZSW–IPC2

SMC Corporation

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2. Product Outline

In order to connect an EtherNet/IP™ product to an EtherNet/IP™ network ("the network"), it is necessary to set the IP address of the product. The IP Address Setting Tool is used for setting the IP address during DHCP mode and Remote control mode.

Operating systems suitable for the IP Address Setting Tool are as follows:

Windows®XP (32/64bit)
Windows®7 (32/64bit)
Windows®8 (32/64bit)
Windows®10 (32/64bit)

∗1) Install Microsoft .NET Framework 4 or later before use.

∗2) This tool might not operate correctly depending on the security setting of the PC. In that case, disable the security setting temporarily and try to use it again.

Applicable products are as follows:

EX260-SEN1/2/3/4
EX500-GEN2
EX600-SEN1/2/3/4
EX600-WEN1/2
JXC91/JXC92/JXC93

∗: When DHCP mode and Remote control mode are set

Make sure that all downloaded files are in the same folder as the EX9-ZSW-IPC2.exe file before use.

DhcpServerDll.dll
PacketDotNet.dll (∗3)
SharpPcap.dll (∗3)
Etc.

∗3) This is the open source software.
For details, please refer to "open_source_License" which is located in the folder in which all of the downloaded files are saved.

3. Network Configuration Example

Set the IP address while disconnected from the EtherNet/IP™ module (master).

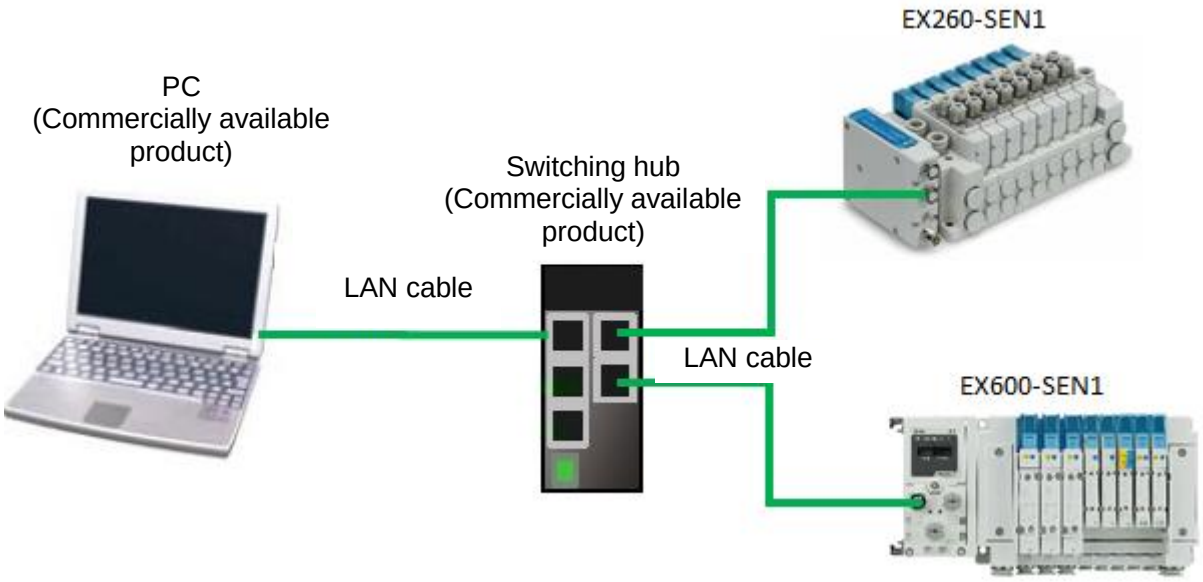
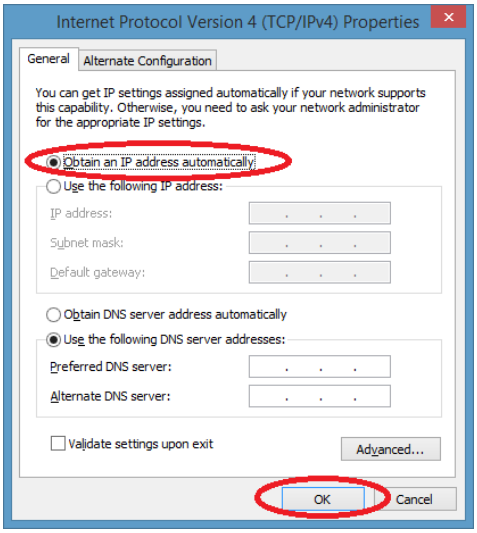
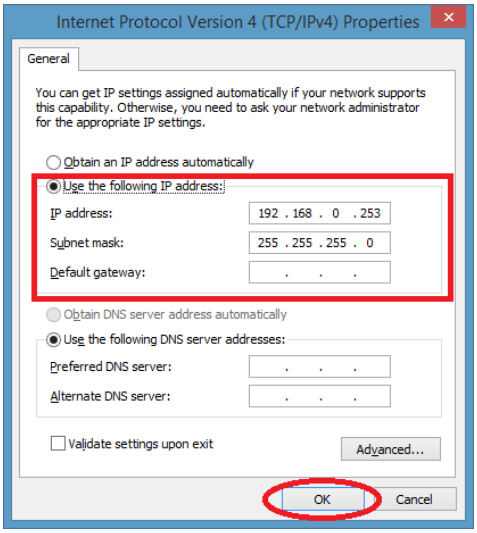


Fig. Network Configuration Example

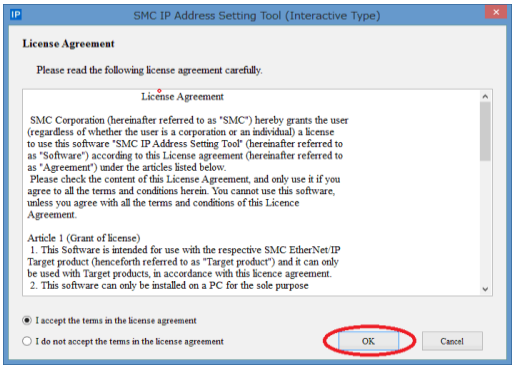
4. Setting the Computer's IP Address

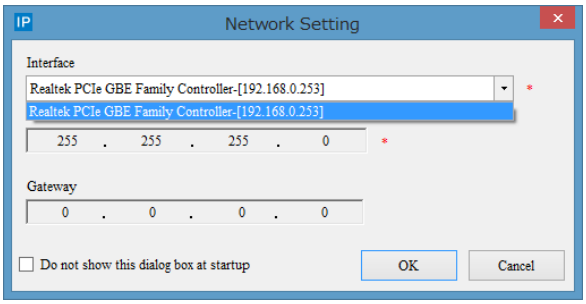
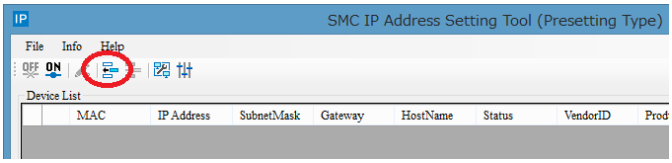
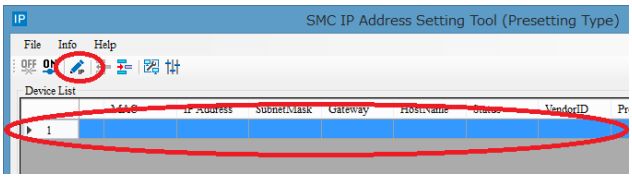
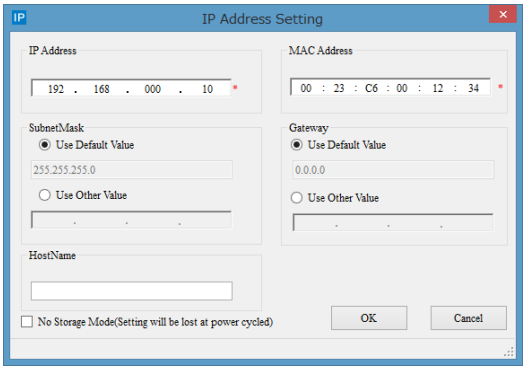
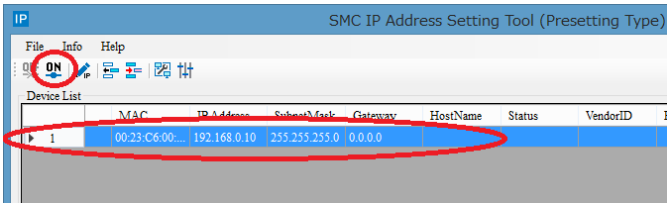
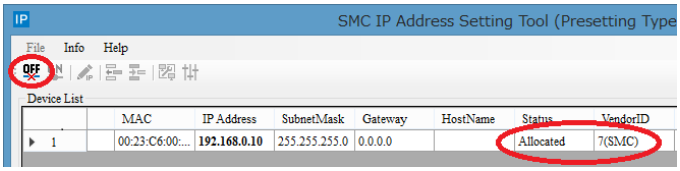
Set the IP address of the PC according to step 1 or 2 below.

No.	Display	Instructions
(1)		[When a DHCP server is installed on the network] To automatically allocate the IP address using a DHCP server, Select the "Internet Protocol Version 4 (TCP/IPv4) Properties" screen, In the "General" tab window, select "Obtain an IP address automatically", Then click "OK".
(2)		[When a DHCP server is not installed on the network] To specify the IP address directly without installing a DHCP server, Select the "Internet Protocol Version 4 (TCP/IPv4) Properties" screen, In the "General" tab window, select "Use the following IP address:". Enter values in the "IP address" and "Subnet mask". Then click "OK". Values entered in "IP address" and "Subnet mask" must be set according to the network used. * The display on the left shows an example: IP address = 192.168.0.10 Subnet mask = 255.255.255.0

5. IP address setting of the IP Address Setting Tool

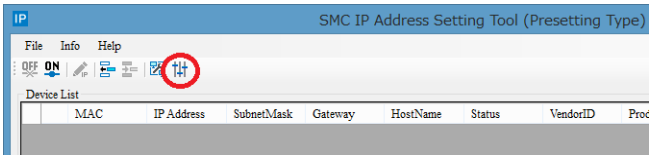
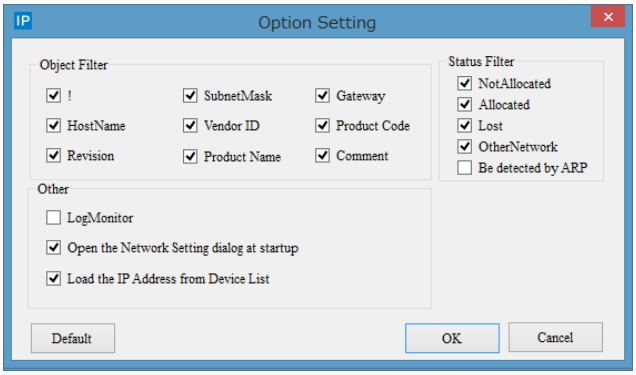
Set the IP address using the IP Address Setting Tool following the procedure (3) to (9) below.

No.	Display	Instructions
(3)		When the computer IP address is set and the IP Address Setting Tool starts, the License agreement screen will appear. If the terms of the agreement are acceptable, select "I accept the terms in the license agreement" Then click "OK".

(4)		The Network Setting screen appear. Select the network interface. If this screen is not necessary to appear the next time, tick the box for "Do not show this dialog box at startup". After selecting, click the [OK] button.
(5)		When the main screen appears, click the "AddRow" button to register the device for setting an IP address.
(6)		One line is added to the DeviceList. Select the line and click the "Param Setting" button.
(7)		When the IP Address Setting screen appears, set the device IP address and MAC address to be registered. After setting, click the [OK] button. When the IP address is not held during Remote control mode, tick the box for "No storage Mode".
(8)		After setting, information including the set IP address for the device list will be displayed. When the setting of device information is completed, click the **"Online"** button. ∗: It is not possible to maintain the IP address (Storage Mode, Disable DHCP) while communicating with the EtherNet/IP™ module (master). Set the IP address while disconnected from the EtherNet/IP™ module (master).
(9)		When the setting is completed, the device information is displayed in the column for Status and Vendor ID. When the setting of all devices is completed, click **"Offline"**.

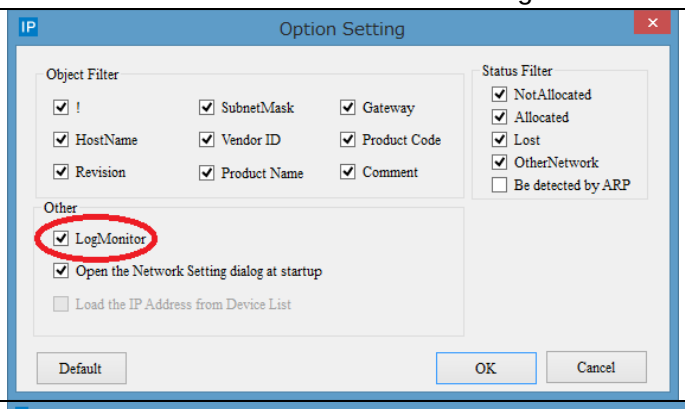
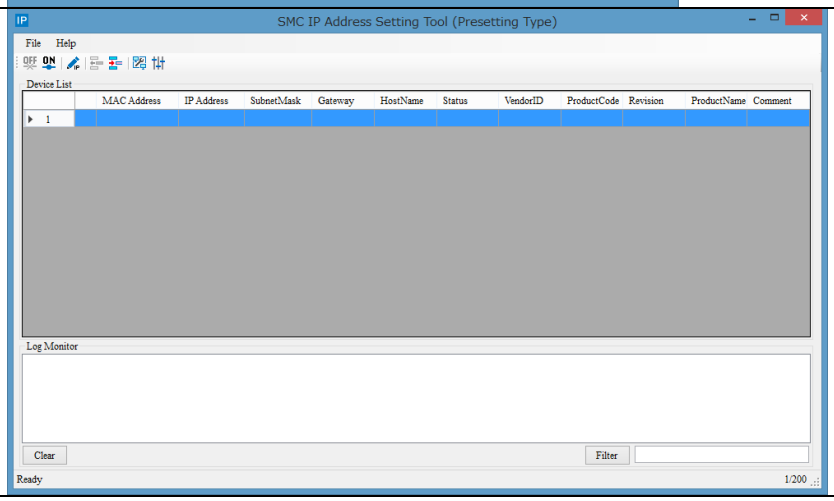
6. Option Setting

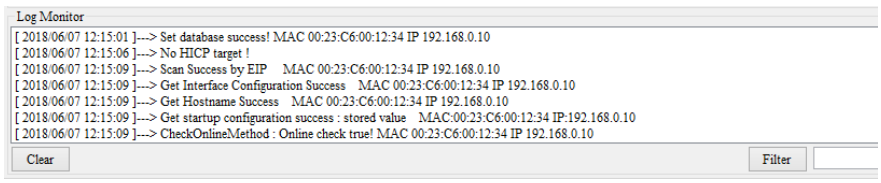
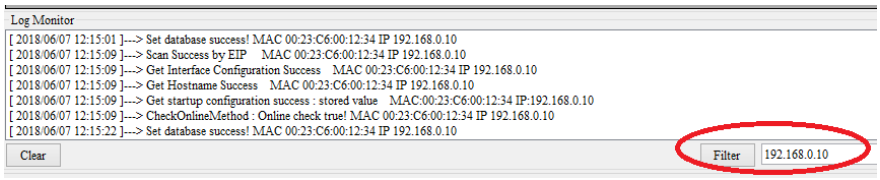
Set the optional function in accordance with steps 10 to 11 below.

(10)		Unnecessary items can be hidden using the Option Setting. Click the “Option button” to display the screen for Option Setting.
(11)		The Option Setting screen is displayed. Items with a tick in the box are functioning. Settings can be reset by clicking the “Default” button.

7. Log monitor function

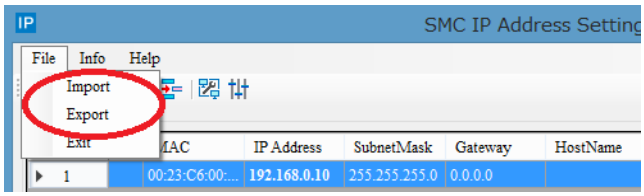
It is possible to monitor the scanned status using this tool.

(12)		Display the option screen and check the LogMonitor.
(13)		The Log Monitor window is displayed on the main screen.

(14)		When scanning or IP address setting is performed, the processed information is displayed as a log.
(15)		Enter a keyword to Filter the log, and click the Filter button. The line in which the entered keyword is shown is displayed.
(16)		To clear the Log Monitor information, click the Clear button. The display will be cleared.

8. Import / Export Function

This tool stores the set device list as a file in CSV format. The file can be used the next time.

(17)		For data storage, click “Export” and store the CSV file in the folder of your choice. Click “Import” and select the CSV file to read the data.

9. Definitions and Terminology (Supplementary Explanation)

Please refer to the table below for glossary.

	Terminology	Definition
D	DHCP	A protocol that automatically allocates information necessary to be registered to use the network, such as an IP address, to individual devices connected to the TCP/IP network.
	DHCP mode	Mode to obtain an IP address from the DHCP Server. The IP address will be lost when the power supply is disconnected. Refer to the operation manual for setting the product.
	DHCP server	DHCP is an abbreviation of Dynamic Host Configuration Protocol". It is a server that automatically allocates information necessary to be registered to use the network, such as an IP address, to individual devices on the network.
I	IP address	A 32 bit digit sequence which is assigned to identify devices which are connected to the network.
M	MAC address	A unique number inherent to all devices connected to an EtherNet/IP™ network.
R	Remote control mode	Mode in which the IP address obtained via the DHCP server can be held. Refer to the operation manual for setting the product.
S	Subnet mask	Numerical values that define the range of the numerical string within the IP address used on the network.
	Switching hub	Device that operates as a relay in the network.

Revision history
A: Contents are added. [August 2018]

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