

WiGigAP User Guide



MILLITRONIC

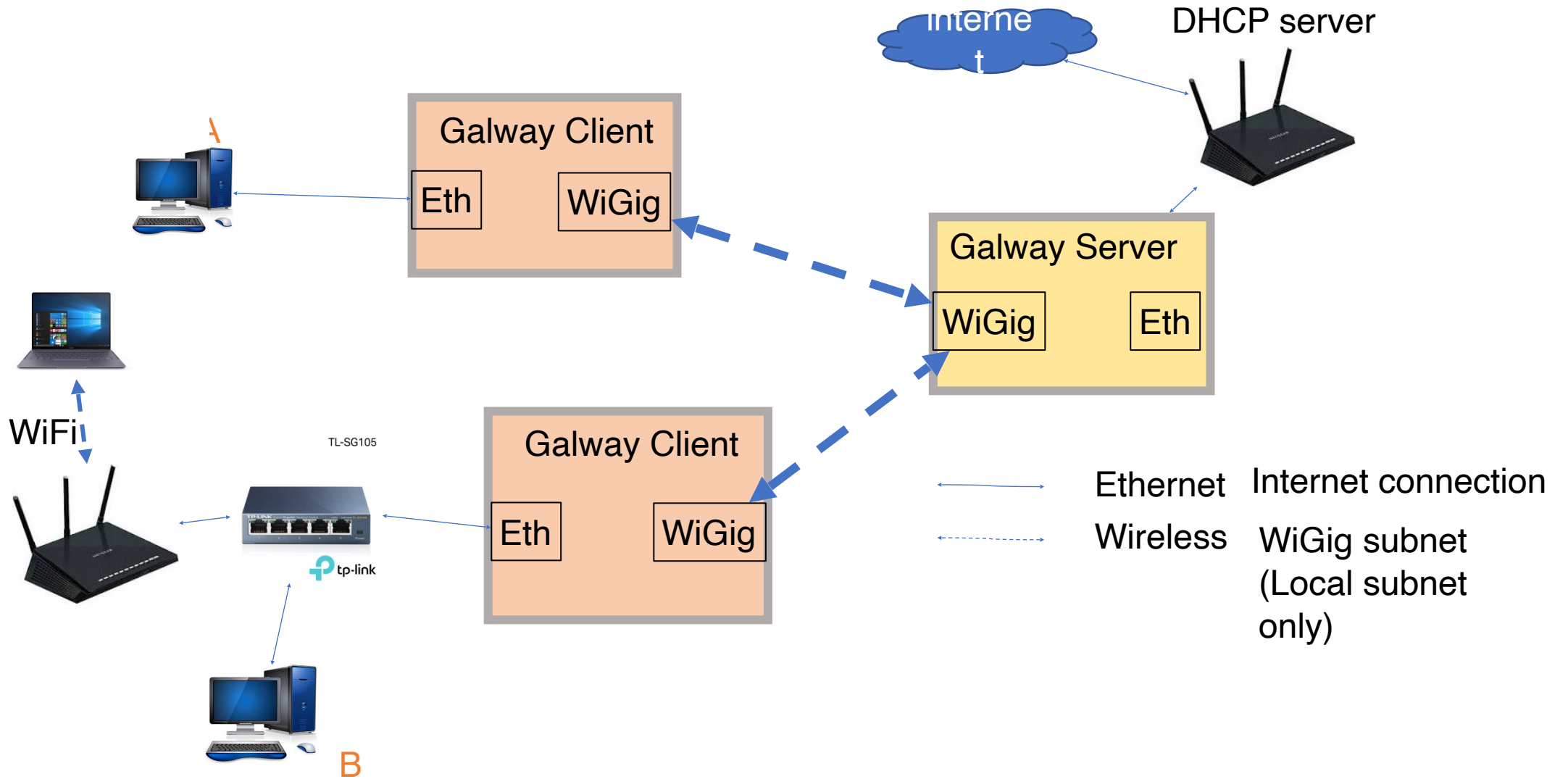
WIGIG SOLUTION PROVIDER

Introduction

- This program is to help the Galway device to bridge a local network.
- By this program, user can read the Galway device information of network and wireless status and config the settings.

Scenario

Wireless bridge ethernet

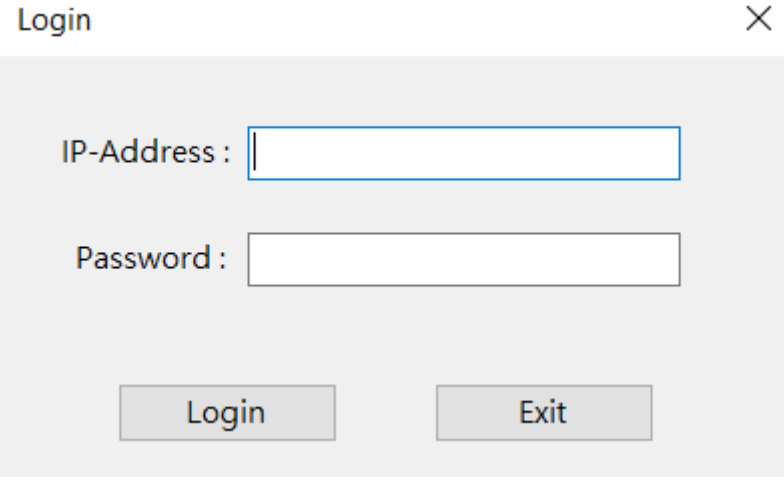


Device Mode

- Three modes can be selected: Default, Server, Client
 - Default mode is an initial mode for the factory default setting
 - Server mode is be set to the access point.
 - Client mode is set to scan and connect to the particular server
- Galway device has three network mode of IP-address.
 - No IP setting : The device configs no IP address for network. The network bridge can still work but user can NOT configure device through ethernet port anymore. The user has to push reset button to restore to default mode.
 - DHCP : Get IP address from a DHCP server. The user can config the backup IP address from the IPv4 and Mask section.
 - Static IP : Set the IP-address by the own user setting

Login


- Enter the IP-address and the Password of the device to login
- Default WiGig IP-address is “169.254.70.254”(Access through WiGig dongle for setting device only.)
- Default Ethernet port IP is “192.168.1.1”
- Default Password is “admin”



The image shows a screenshot of a 'Login' dialog box. The dialog has a title bar with the word 'Login' on the left and a close button (an 'X' icon) on the right. Inside the dialog, there are two input fields: 'IP-Address : ' followed by a text box, and 'Password : ' followed by another text box. At the bottom of the dialog, there are two buttons: 'Login' and 'Exit'.

Main page & Status

Galway Setting ×

 Login IP : 192.168.1.1

Status

Setting

Change Password

Logout

Device Name : Millitronic

Network status

IPv4 : 192.168.1.1

Mask : 255.255.255.0

Mac : 70:B3:D5:53:B8:3A

MTU : 1500

Wireless status

Mode : Default

SSID : SETTING

IPv4 : 169.254.70.254

Mac : 70:B3:D5:53:B6:24

Security Key : Disabled

MCS : Auto

Channel : 2

Tx Power : Auto

Ack Response Timeout : 8 us

RSSI (Client only) : ...

Network Status

- It will show the network information about the IP-address, Mask, Mac-address and MTU size.
- If IPv4 show no IP-address (or ...), it represent the Galway device got no IP-address from the network interface.

Network status

IPv4: 192.168.1.1

Mask: 255.255.255.0

Mac: 70:B3:D5:53:B8:3A

MTU: 1500

Wireless Status

- It will show the current wireless AP information and settings after login success.
- SSID is able to be scanned from the WiGig device.
- If the device is in the client mode, it will show the RSSI value and update in 10 seconds.

Wireless status

Mode: Default

SSID: SETTING

IPv4: 169.254.70.254

Mac: 70:B3:D5:53:B6:33

Security Key: Disabled

MCS: Auto

Channel: 2


Tx Power: Auto

Ack Response Timeout: 8 us

RSSI (Client only): ...

Setting

Galway Setting ✕

 Login IP : 192.168.1.1

Status

Setting

Change Password

Logout

Mode :

Network settings

Device name :

Mode :

IPv4 :

Mask :

MTU Size :
(1400 - 8800)

Wireless settings

Main IP :

Server IP :

Client IP :

SSID : Channel :

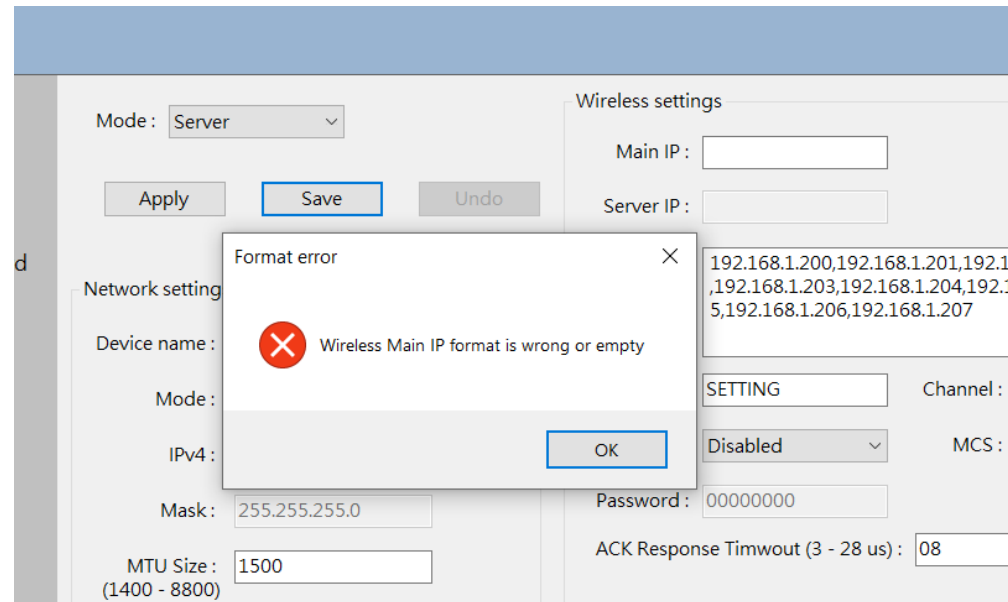
Security Key : MCS :

Password :

ACK Response Timwout (3 - 28 us) :

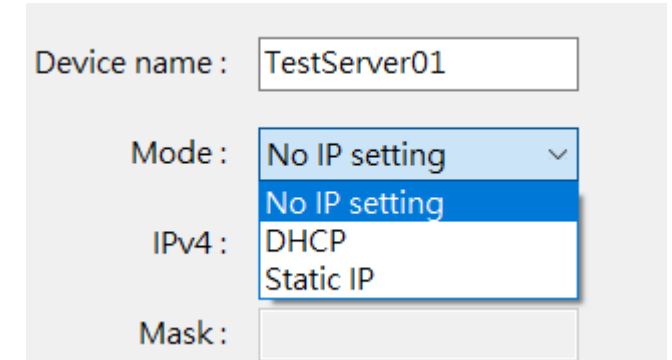
Setting Notice

- Default mode is not able to config the other settings.
- After clicking the “apply” or “save” button, the App will check the current input settings.
- If there is error input, it will show error message as below.



Network Setting

- This section configures the device internet setting.
- Device name format:
 - A user defined device ID
 - Max length is 16 characters, min length is 4 characters.
 - Only contain letters(A-Z, a-z) ,numbers(0-9) and _-
- Network mode:
 - Three mode : No IP setting, DHCP, Static IP
 - **Notice:** If the device is in “No IP setting mode”, user can **NOT** login by the default IP-address anymore. Push reset button on the board to restore to default mode.
- MTU Size range is at 1400 – 8800. Use 7600 will have the best performance.

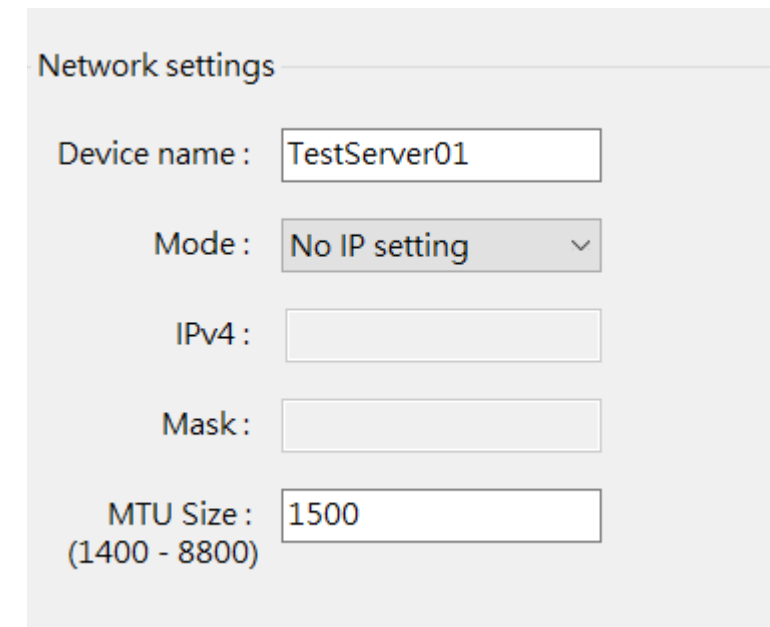


Device name :

Mode :

IPv4 :

Mask :



Network settings

Device name :

Mode :

IPv4 :

Mask :

MTU Size :
(1400 - 8800)

Wireless Setting

- This section configures the wireless settings.
 - **Main IP** : Setting main IP address of the current device.
 - **Server IP** : (Client Only)Setting the server IP at the client side. This value must match the “Main IP” on the server.
 - **Client IP** : (Server Only)Setting the accepted client IP at the server side. Setting 1 client IP at least, 8 client IP at most. The “Main IP” on the client must match one of these IP setting.
 - **SSID** : At the Server mode, define a SSID for the access point for broadcasting. At the Client mode, enter the SSID which the device connects to the expected server. Its format only contains letters (A-Z, a-z) and numbers (0-9) and its length is 4 - 16 characters.
 - **Security Key and Password** : If security key is enabled, Password must be set and length range at 8 – 16 characters. Its format only contains letters (A-Z, a-z) and numbers (0-9).
 - The other settings(Channel, MCS,ACK Response) : Related to the WiGig advanced settings

Wireless settings

Main IP :

Server IP :

Client IP :

SSID : Channel :

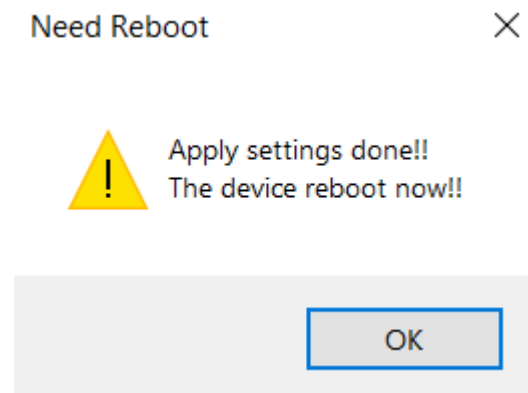
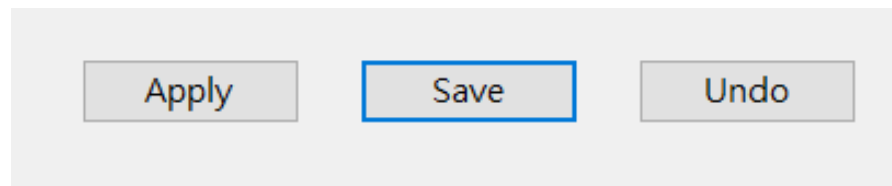
Security Key : MCS :

Password :

ACK Response Timwout (3 - 28 us) :

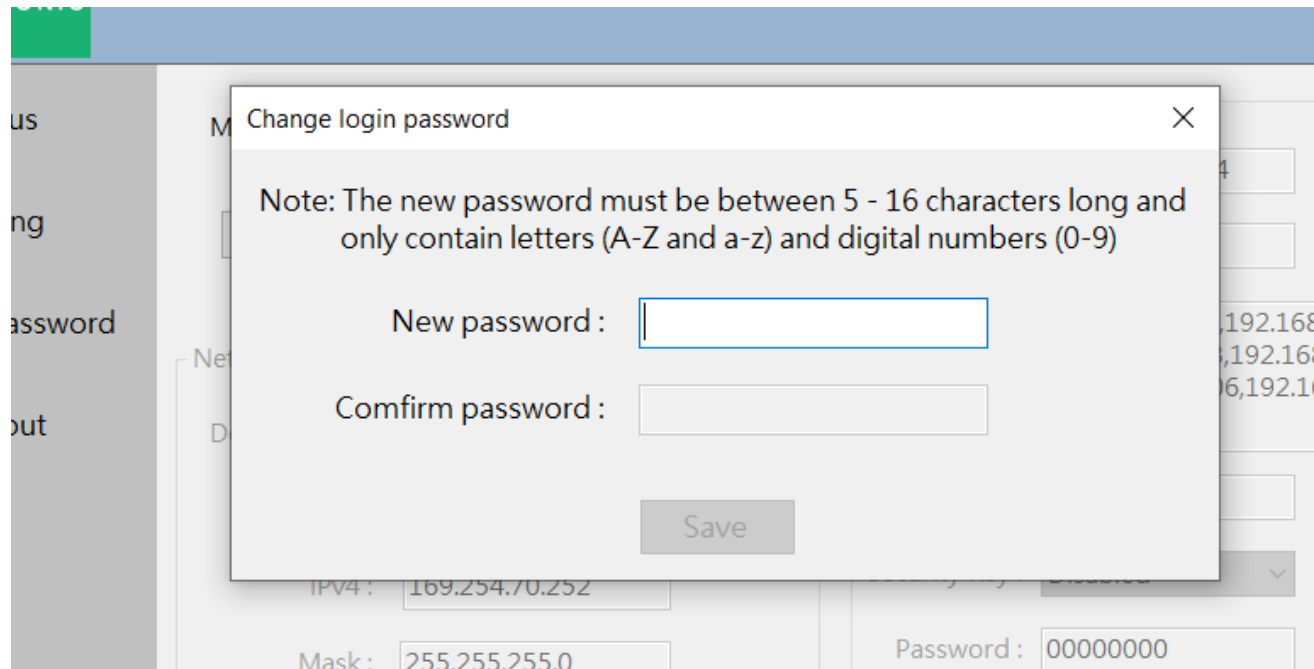
Apply, Save, Undo

- Apply: Apply setting to the device
- Save: Keep current setting
- Undo: Restore setting to last saved one
- After applying settings succeed, it will show the message as below and the device will reboot immediately.



Change password

- It can change the login password.
- The password format must be between 5 - 16 characters long and only contain letters (A-Z , a-z) and numbers (0-9)



The image shows a screenshot of a network configuration application with a modal dialog box titled "Change login password". The dialog box contains a note: "Note: The new password must be between 5 - 16 characters long and only contain letters (A-Z and a-z) and digital numbers (0-9)". Below the note are two input fields: "New password:" and "Comfirm password:". A "Save" button is located at the bottom of the dialog. In the background, parts of the application interface are visible, including fields for "IPV4:" (169.254.70.252), "Mask:" (255.255.255.0), and "Password:" (00000000).

Logout

- If Logout, it will return to the login stage.


The screenshot displays the 'Galway Setting' web interface. At the top left is the Millitronic logo, and at the top right is the 'Login IP: 169.254.70.254'. A left sidebar contains navigation options: Status, Setting, Change Password, and Logout. The main content area is divided into 'Network settings' and 'Wireless settings'. The 'Network settings' section includes fields for Mode (Server), Device name (Milli...), Mode (No I...), IPv4 (169.254.70.252), Mask (255.255.255.0), and MTU Size (1500). The 'Wireless settings' section includes Main IP (192.168.1.100), a list of IP addresses (192.168.1.200-192.168.1.207), Security Key (Disabled), Password (00000000), and ACK Response Timwout (08). A 'Logout' dialog box is overlaid in the center, asking 'Do you want to logout this device?' with 'Yes' and 'No' buttons.

Setting for example (Server)

- Following the steps to setting the Galway device to Server :
 - Take the Galway device connect PC with RJ45 cable, then power on
 - Change the IP-address of PC to the same subnet of the default ethernet IP.
 - Open “**WiGigAP**” program and start to Login the device.
 - Switch the **Setting** Page and switch to the **Server** mode.
 - Change Network mode to **Static IP** and set the **IPv4** and **mask**
 - Change the **Main IP**, **Client IP**, **SSID** settings.
 - For example,
 - IPv4 : 192.168.2.10
 - Mask: 255.255.255.0
 - Main IP : 192.168.1.100
 - Client IP : 192.168.1.200 – 207
 - SSID : WiGigAP01
 - Click the “**Apply**” button and wait for the device rebooting.

Server example settings

Galway Setting ×

 Login IP: 169.254.70.254

Status

Setting

Change Password

Logout

Mode:

Network settings

Device name:

Mode:

IPv4:

Mask:

MTU Size: (1400 - 8800)

Wireless settings

Main IP:

Server IP:

Client IP:

SSID: Channel:


Security Key: MCS:

Password:

ACK Response Timwout (3 - 28 us):

Server example for login

Galway Setting ×

 Login IP : 192.168.2.10

Status

Setting

Change Password

Logout

Device Name : Millitronic

Network status

IPv4 : 192.168.2.10

Mask : 255.255.255.0

Mac : 70:B3:D5:50:C6:77

MTU : 1500

Wireless status

Mode : Server

SSID : WiGigAP01

IPv4 : 192.168.1.100

Mac : 70:B3:D5:53:B6:33

Security Key : Disabled

MCS : Auto

Channel : 2

Tx Power : Auto

Ack Response Timeout : 8 us

RSSI (Client only) : ...


Setting for example (Client)

- Following the steps to setting the Galway device to Client :
 - Take the Galway device connect PC with RJ45 cable, then power on
 - Change the IP-address of PC to the same subnet of the default ethernet IP.
 - Open “**WiGigAP**” program and start to Login the device.
 - Switch the **Setting** Page and switch to the **Client** mode.
 - Change Network mode to **Static IP** and set the **IPv4** and **mask**.
 - Change the **Main IP**, **Server IP**, **SSID** settings.
 - For example,
 - IPv4 : 192.168.2.10
 - Mask: 255.255.255.0
 - Main IP : 192.168.1.200
 - Server IP : 192.168.1,100
 - SSID : WiGigAP01
 - Click the “**Apply**” button and wait for the device rebooting.

Client example settings

Galway Setting ×

Login IP : 192.168.2.10



Status

Setting

Change Password

Logout

Mode : Client

Apply Save Undo

Network settings

Device name :

Mode : Static IP

IPv4 :

Mask :

MTU Size :
(1400 - 8800)

Wireless settings

Main IP :

Server IP :

Client IP :

SSID : Channel :


Security Key : Disabled MCS : Auto

Password :

ACK Response Timwout (3 - 28 us) :

Client example for login

Galway Setting ×

 Login IP: 192.168.2.11

[Status](#)

[Setting](#)

[Change Password](#)

[Logout](#)

Device Name : Millitronic

Network status

IPv4 : 192.168.2.11

Mask : 255.255.255.0

Mac : 70:B3:D5:50:C6:77

MTU : 1500

Wireless status

Mode : Client

SSID : WiGigAP01

IPv4 : 192.168.1.200

Mac : 70:B3:D5:53:B6:33

Security Key : Disabled

MCS : Auto

Channel : 2

Tx Power : Auto

Ack Response Timeout : 8 us

RSSI (Client only) : ...



THANK YOU

