

MobieWave

3G Gateway Server

Quick Start Guide

Check Package Contents:

- 3G MobieWave Gateway x1
- DC9V 1A Power Adapter x1
- WIFI External Antenna x1
- RJ45 Ethernet Cable x1
- CD-ROM (User Manual) x1
- Quick Installation Start Guide x1
- Pedestal x1

System Requirements:

The recommended PC configuration for using the gateway is as follows:

- **CPU:** Pentium 500 MHz or above
- **Memory:** 128 MB RAM or above
- **Hard disk:** 100 MB or above of available space
- **Operating System:** Windows®2000, XP, Vista, Linux 2.4/2.6

Basic Gateway Set-up:

Step 1: Screw the WIFI antenna to the WIFI port of the 3G Gateway (Figure 1). Adjust the direction of the antenna. Normally, upright is a good direction.



(Figure 1)

Step 2: If you access to Internet over 3G network, please insert SIM card into 3G USB modem, then plug the modem into USB interface of Gateway (Figure 2).



(Figure 2)

Step 3: If you access to Internet over other network access way, please connect the network connection cable to xDSL/Cable Modem and WAN port (Figure 3).



(Figure 3)

Step 4: Connect the power adapter to DC port of Gateway and electrical outlet (Figure 4). If operation is correct, PWR LED will light. It will take about 20 seconds for Gateway to complete activation. After activation, WIFI LED will light.



(Figure 4)

Step 5: Connect Gateway to PC or laptop, there are two connection ways for selecting.

- 1) LAN connection: Connect the side of RJ45 Ethernet cable into LAN port, and the other side into computer's Ethernet port (Figure 5). If the connection is correct, the LAN LED will light.



(Figure 5)

- 2) WIFI connection: Install Wireless Network Card in your computer. If you have installed Wireless Network Card in your computer, it will connect to Gateway over wireless network of Gateway. Both the two connection ways can configure Gateway.

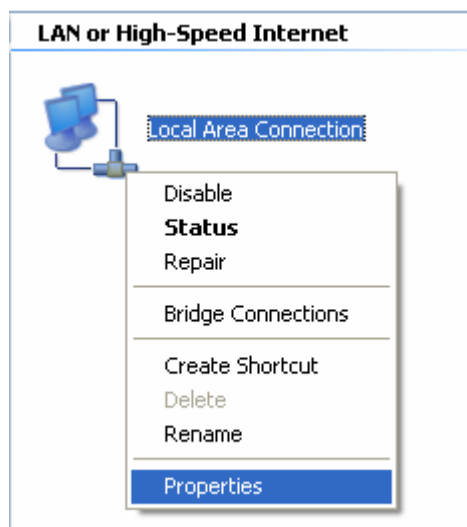
Configure the network settings:

Step 1: On the desktop, right-click on "My Network Places", select "Properties". (Figure 6)



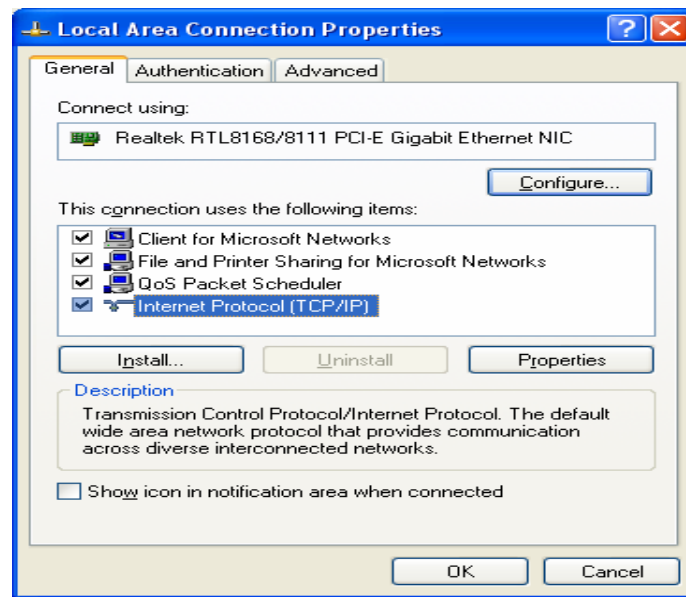
(Figure 6)

Step 2: In the following pop-up window, right-click on "Local Area Connection" and select "Properties". (Figure 7)



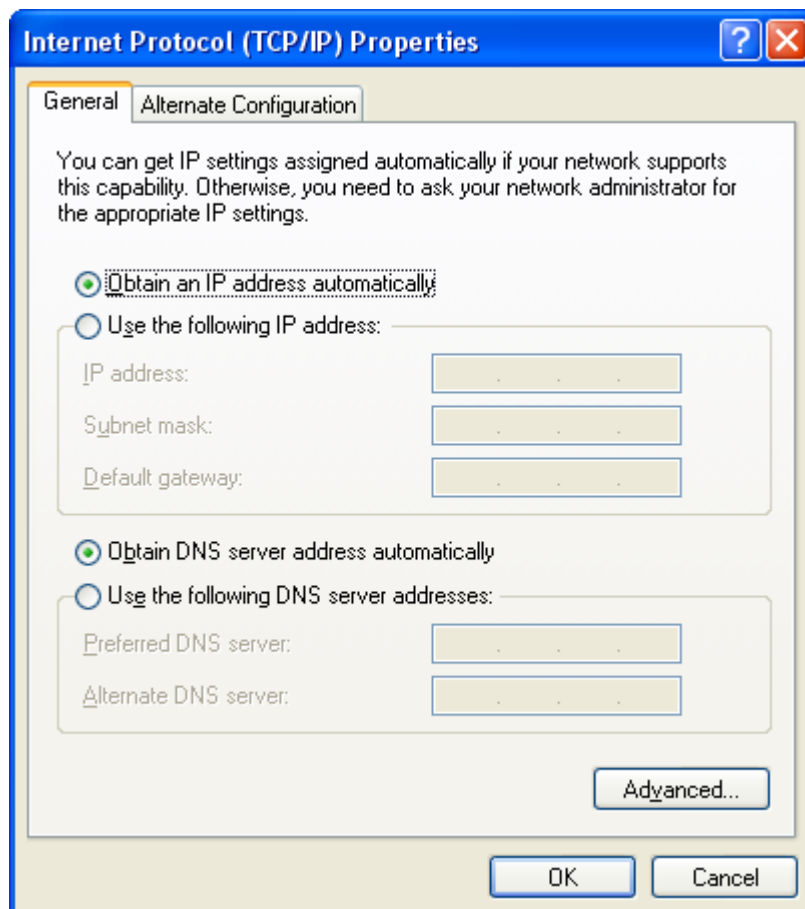
(Figure 7)

Step 3: In the following window, select “Internet Protocol (TCP/IP)” option, then click “Properties”. (Figure 8)



(Figure 8)

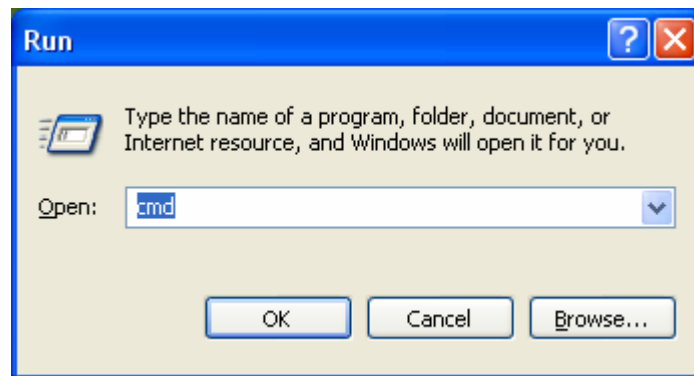
Step 4: In the following pop-up window, select “Obtain an IP address automatically” and “Obtain DNS server address automatically”. Then click “OK”. (Figure 9)



(Figure 9)

Step 5: If you selected LAN connection. Please double check if the Gateway is really connected to your computer, when "Local Connection" is showing already connected. Then click "Start" menu and open "Run" program, input "CMD" as figure 10.

(If you selected WIFI connection, Before step5, please click on "Wireless Network Connection" icon in the lower right of desktop, check the wireless network status and select your wireless network. Then connect to it.)



(Figure 10)

Step 6: Input order "ping 192.168.1.1" and click "Enter", it will get the following result which is showing the above configuration is successful. (Figure 11)

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\libing>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=3ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\Documents and Settings\libing>_
```

(Figure 11)

Configure 3G Gateway:

Step 1: Open Web browser, input 192.168.1.1 at Address bar, then press "Enter".
(Figure 12)



(Figure 12)

Step 2: In the following pop-up window, both input "admin" at "User name" bar and "Password" bar, then press "OK". (Figure 13)



(Figure 13)

Step 3: In the following pop-up window, click “WAN setting” and select the internet connection way (Static IP Address, Dynamic IP Address, PPP over Ethernet, 3G) according to your real network environment. The introduction of four connection ways as follows:

1) Static IP Address

If your ISP gave you a static IP Address, please select “Static IP Address”, and input information of “WAN IP Address”, “WAN Subnet Mask”, “WAN Gateway”, “Primary DNS” provided by ISP, the other options keep Windows default. (Figure 14)

WAN Setting

WAN

- Static IP Address(ISP assigns you a static IP address)
- Dynamic IP Address(Obtain an IP address from ISP automatically)
- PPP over Ethernet(Some ISPs require the use of PPPoE to connect to their services)
- 3G

WAN IP Address	<input type="text" value="0.0.0.0"/>
WAN Subnet Mask	<input type="text" value="0.0.0.0"/>
WAN Gateway	<input type="text" value="0.0.0.0"/>
WAN MTU	<input type="text" value="1500"/> (576~1500)
Primary DNS	<input type="text" value="192.168.1.1"/>
Secondary DNS	<input type="text" value="192.168.1.1"/>

(Figure 14)

2) Dynamic IP

If you have no static IP address, please select "Dynamic IP Address", all of the options keep Windows default. (Figure 15)

WAN Setting

WAN

Static IP Address(ISP assigns you a static IP address)

Dynamic IP Address(Obtain an IP address from ISP automatically)

PPP over Ethernet(Some ISPs require the use of PPPoE to connect to their services)

3G

MTU	<input type="text" value="1500"/>	(576~1500)
Host Name	<input type="text"/>	
Primary DNS	<input type="text" value="192.168.1.1"/>	
Secondary DNS	<input type="text" value="192.168.1.1"/>	

(Figure 15)

3) PPP over Ethernet

If you connect to Internet over ADSL modem, please select "PPP over Ethernet", and input the information of "PPPoE User Name", "PPPoE Password" that provided by ADSL ISP , and the other options keep Windows default. (Figure 16)

The screenshot displays the 'WAN Setting' configuration window. Under the 'WAN' section, four radio button options are listed: 'Static IP Address(ISP assigns you a static IP address)', 'Dynamic IP Address(Obtain an IP address from ISP automatically)', 'PPP over Ethernet(Some ISPs require the use of PPPoE to connect to their services)', and '3G'. The 'PPP over Ethernet' option is selected. Below this, several input fields are provided: 'PPPoE Username' with the value 'PPPoE', 'PPPoE Password' with masked characters, 'MTU' with the value '1492' and a range '(546~1492)', 'PPPoE Service Name' (empty), 'Primary DNS' with the value '192.168.1.1', and 'Secondary DNS' with the value '192.168.1.1'. At the bottom, there are two buttons: 'Save Settings' and 'Cancel Settings'.

PPPoE Username	<input type="text" value="PPPoE"/>
PPPoE Password	<input type="password" value="••••••••"/>
MTU	<input type="text" value="1492"/> (546~1492)
PPPoE Service Name	<input type="text"/>
Primary DNS	<input type="text" value="192.168.1.1"/>
Secondary DNS	<input type="text" value="192.168.1.1"/>

(Figure 16)

4) 3G

If you connect to Internet over 3G, you must set "APN" and "Dialed Number" firstly according to the information of local network operators, and keep other options as Windows default. (Figure 17)

WAN Setting

WAN

- Static IP Address(ISP assigns you a static IP address)
- Dynamic IP Address(Obtain an IP address from ISP automatically)
- PPP over Ethernet(Some ISPs require the use of PPPoE to connect to their services)
- 3G

APN	<input type="text"/>
Enable 3G Pin Code	<input type="checkbox"/>
Pin Code	<input type="text"/>
Dialed Number	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>

(Figure 17)

Step 4: After selected the internet connection way, click “WLAN setting” and go ahead the wireless configuration

1) Set SSID

Default SSID of the Gateway is“*****”, channel is 6. You can modify SSID to make sure the unique name which can identify your wireless network. (Figure 18)

The screenshot shows the 'WLAN Basic Settings' page. It features a title bar 'WLAN' and four configuration items: 'Wireless Mode' set to '802.11b/g', 'Wireless SSID' set to '*****', 'Wireless Channel' set to '6', and 'Hide SSID' which is unchecked. At the bottom, there are two buttons: 'Save Settings' and 'Cancel Settings'.

(Figure 18)

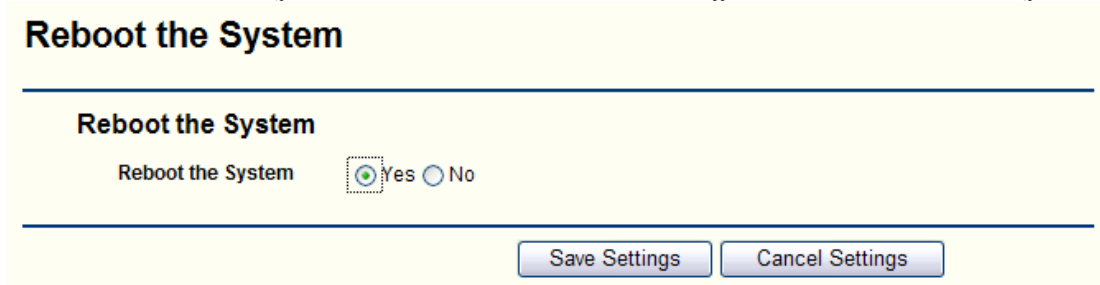
2) Set password

To set password of wireless network, you can select WEP as Encryption mode, and select the corresponding “WEP Encryption”, 64bit or 128bit. And select “Default KEY ID” and the type of “WEP KEY” corresponding to KEY ID bar, then input password to “Save Settings”. (Figure 19)

The screenshot shows the 'WLAN Security' page. It is divided into three sections: 'WLAN Security' with 'Authentication Mode' set to 'Open System'; 'WEP Security' with 'Encryption' set to 'None', 'WEP Encryption' set to '64 bit', 'Default KEY ID' set to '1', and four 'WEP KEY' entries (1-4) each with a 'HEX' dropdown and an empty text field; and 'WPA/WPA2 PSK Security' with 'Encryption Type' set to 'TKIP' and an empty 'Passphrase' field. At the bottom, there are two buttons: 'Save Settings' and 'Cancel Settings'.

(Figure 19)

- 3) After settings finished, go into "System Tools", select "Reboot the System", then select "Yes" and "Save Settings". (Figure 20) so far, the settings of Gateway is basically complete. (Remark: Press the "Reset" button in the back of Gateway more than 5 seconds, the settings will be reset to factory default.)



(Figure 20)

Note : MobieWave Co.,Ltd reserves the right to modify above-mentioned information and specifications without notice!