

POWERLINK

High Power Wireless LAN USB Adapter 802.11b/g/n

User Manual

Before you proceed with the installation, please notice the following descriptions.

Note 1:

The following installation was operated under Windows XP. (Procedures are similar for Windows 98SE/Me/2000.)

Note 2:

If you have installed the WLAN USB driver & utility before, please uninstall the old version first.

Note 3:

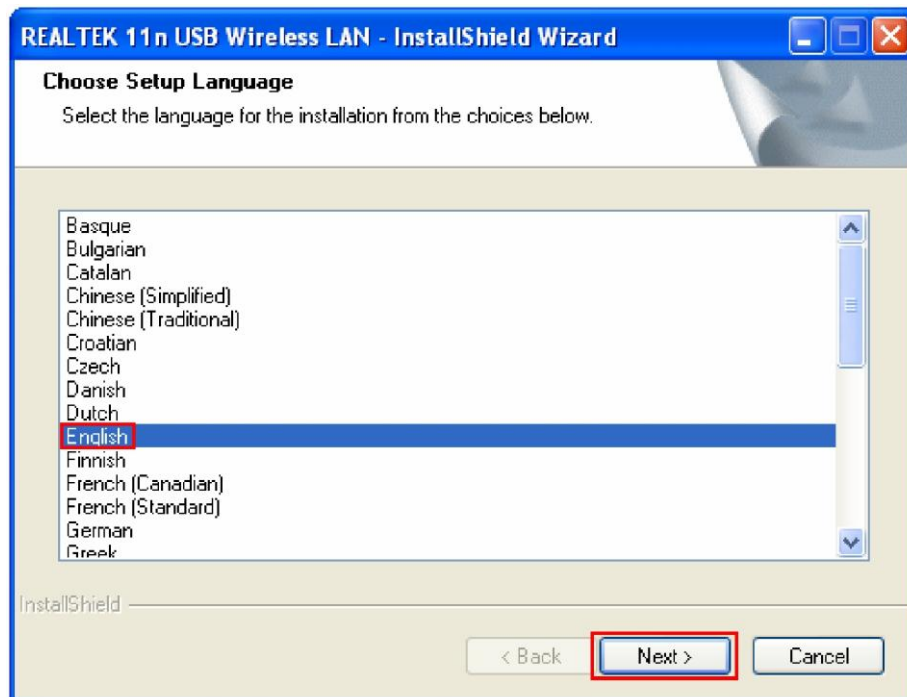
Insert your installation CD and open My Computer, double Click the CD-ROM drive icon named AutoRun will begin installation.

Installation

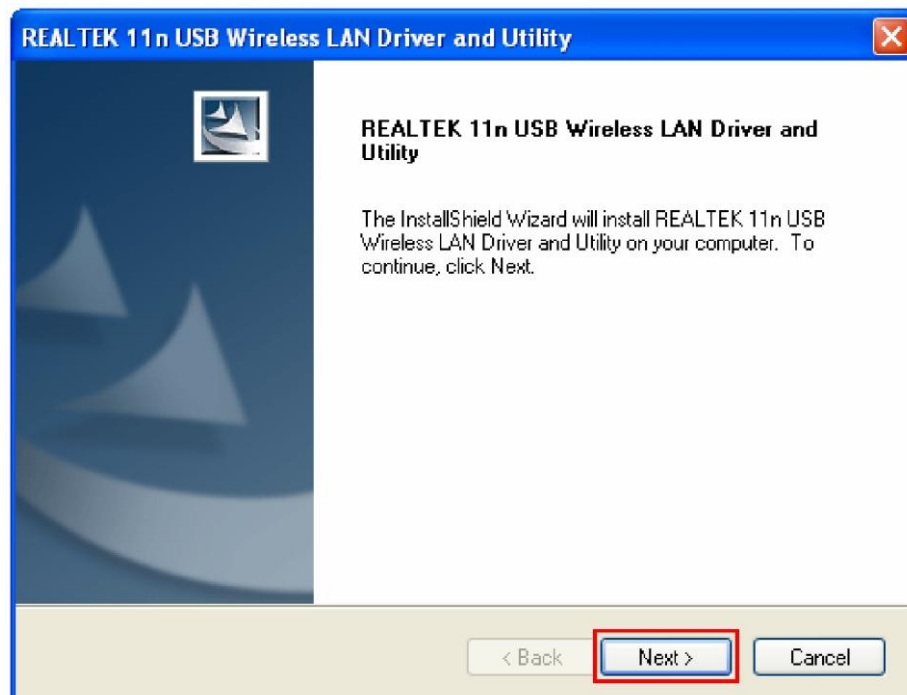
1. If you insert the Wireless LAN USB Adaptor into your computer USB port after installing the software program from the CD, then the following window pops up.
2. Click Cancel.



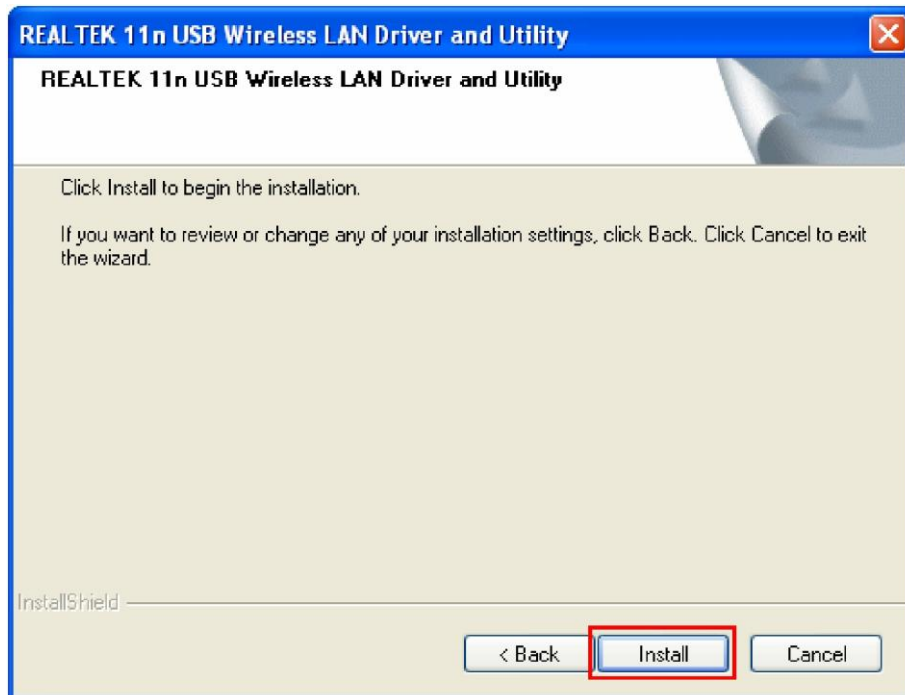
3. Choose a set up language



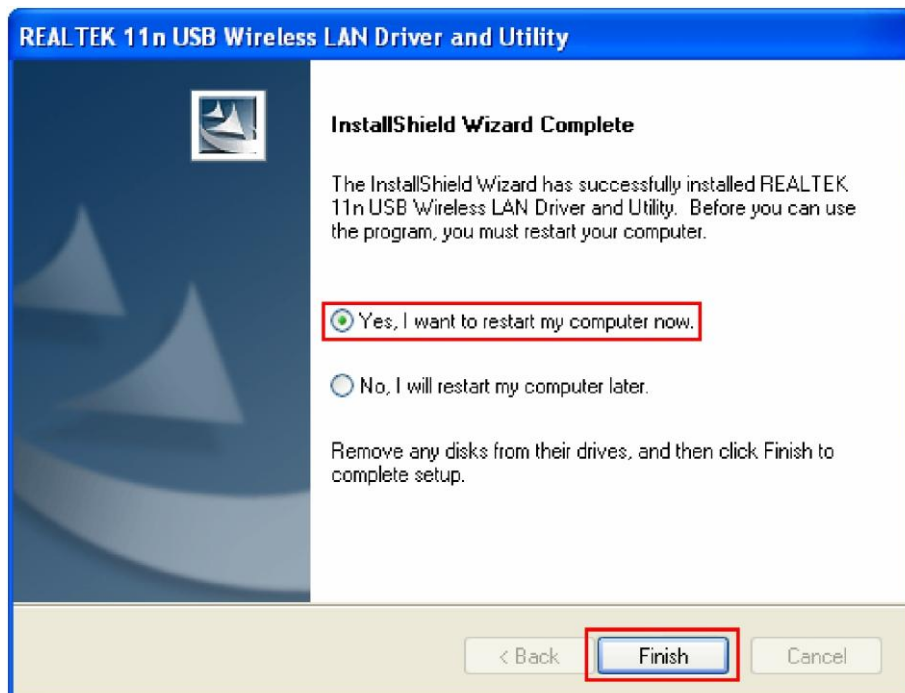
Click Next to process the installation.



4. Click Install to WLAN USB adaptor installation

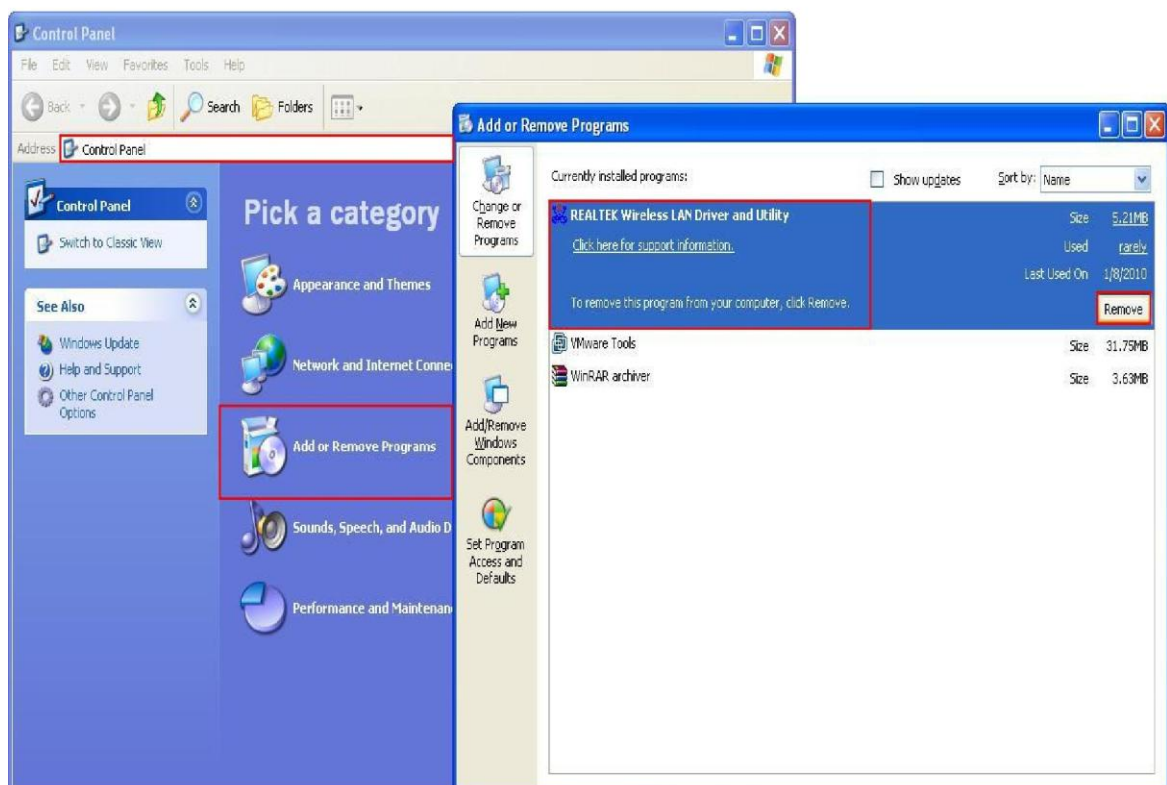
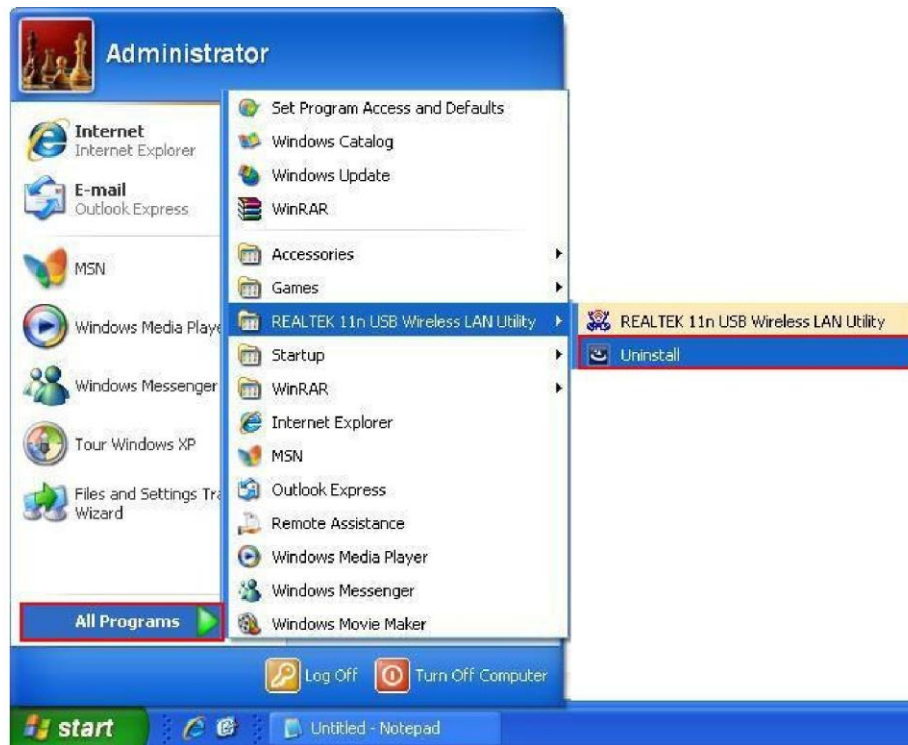


5. Click Finish to complete the installation.



Uninstall

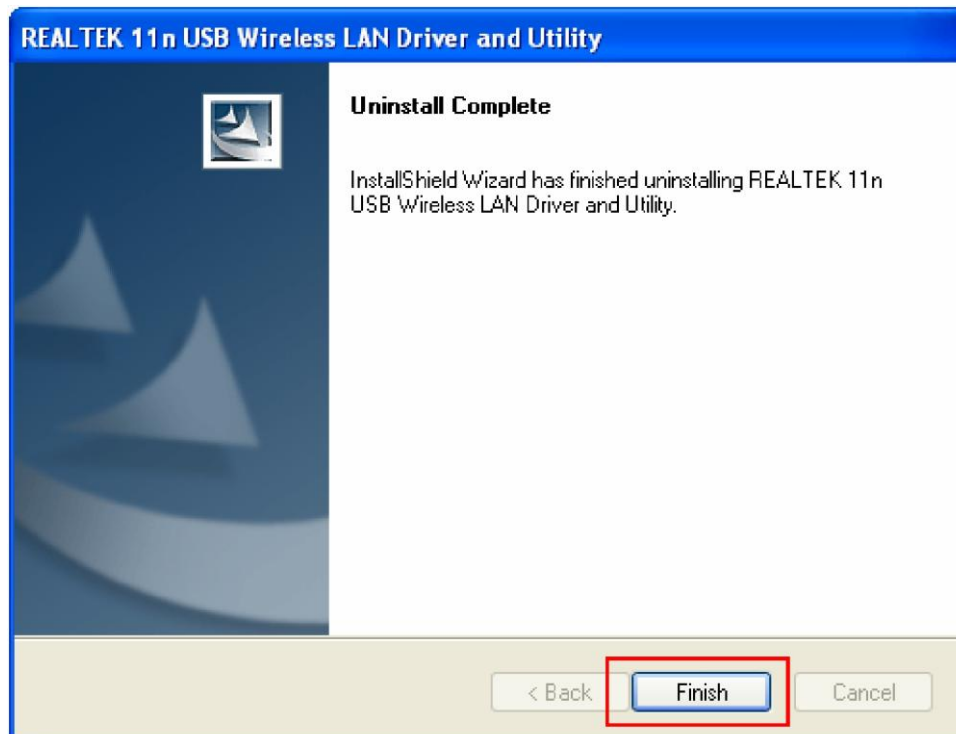
- Uninstall the WLAN USB Adaptor Driver from [start], [All Programs], [REALTEK 11n USB Wireless LAN Utility], click Uninstall or [Control Panel],[Add or Remove Programs], [REALTEK 11n USB Wireless LAN Driver and Utility], click Remove to remove Wireless LAN USB Adaptor driver.



- B. Click Yes if you want to remove Wireless LAN USB Adaptor driver.



- C. Click Finish to complete uninstall.



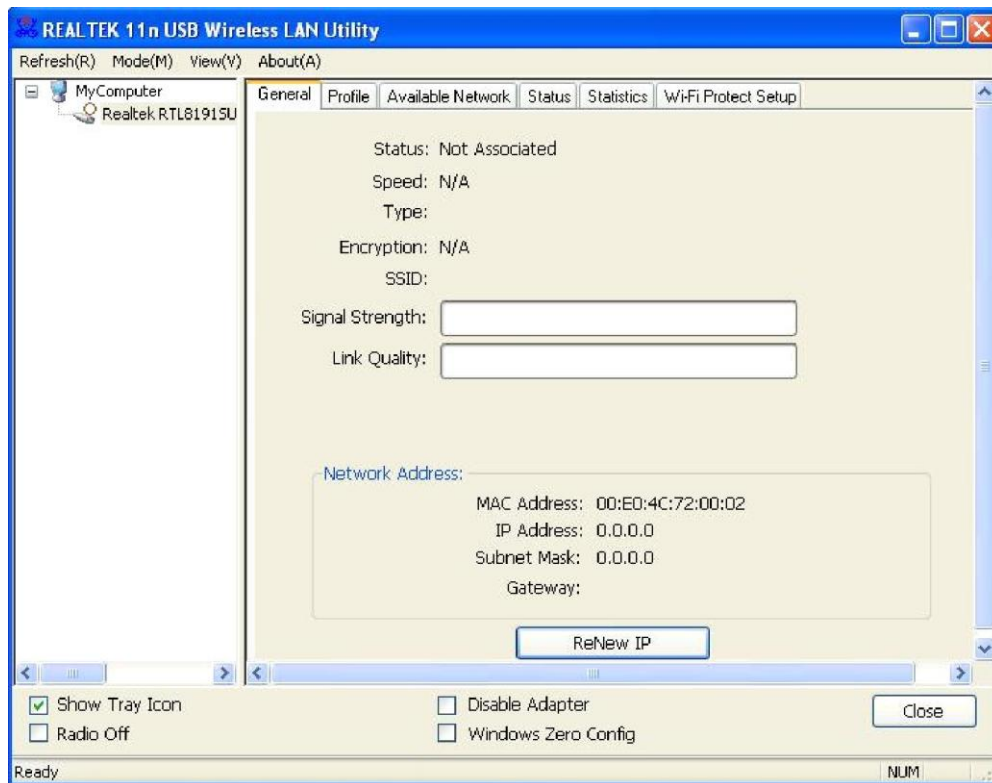
Making a Basic Network Connection

In the following instruction for making a network connection, we use the utility we provided to configure your wireless network settings.

Note:

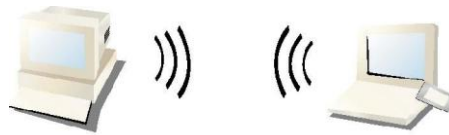
For Windows XP users that want to configure your wireless network using this Utility, please perform the following procedures to disable your native Windows XP wireless support (Wireless Zero Configuration Service)

1. Double click the  icon on your desktop to start the utility or  in the task bar.



Ad-Hoc Mode

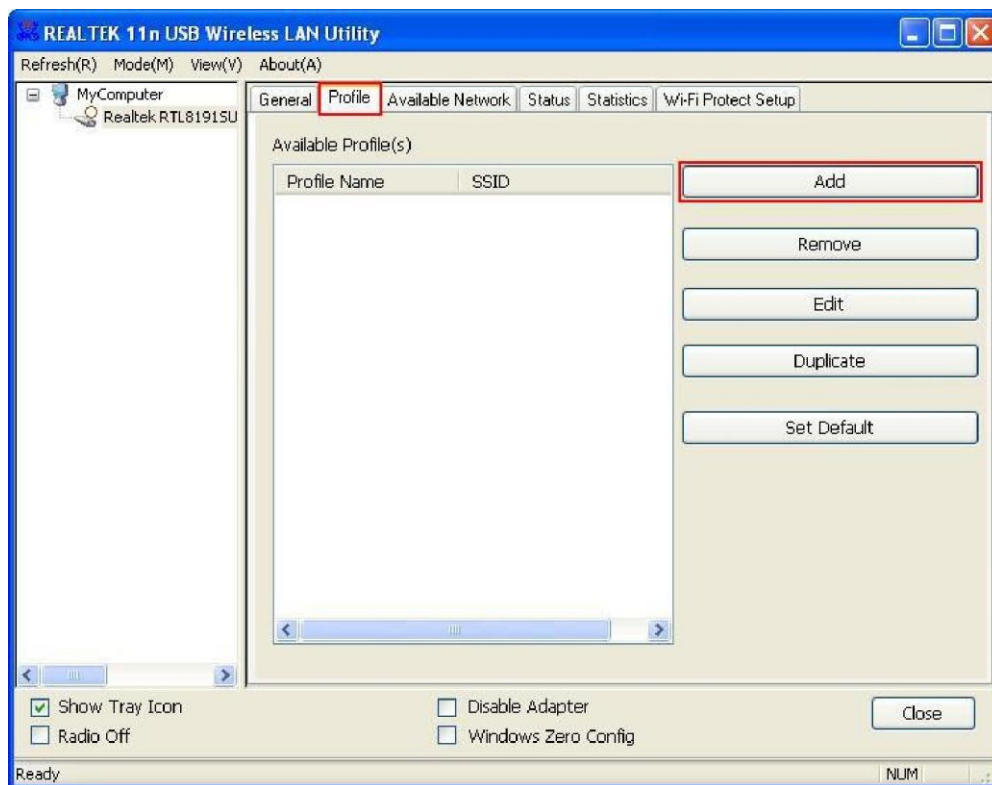
An Ad-Hoc mode wireless network connects two computers directly without the use of a router or AP. It is also known as a peer-to-peer network. For example, we can install this wireless adapter to two computers respectively. The communication between the two computers is an Ad-Hoc mode network.



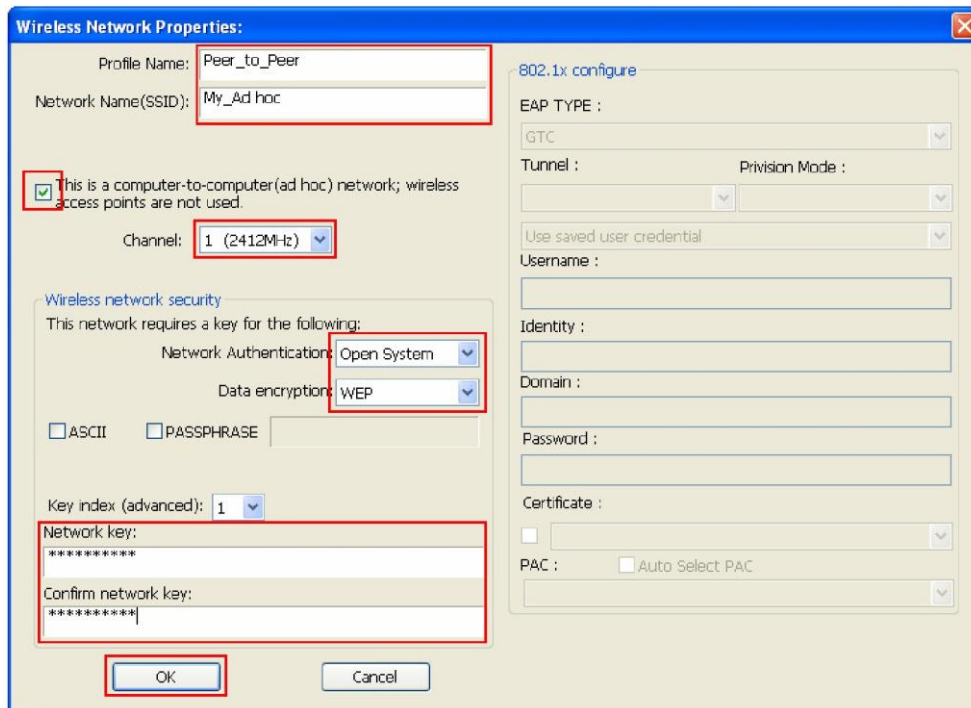
Ad-Hoc Mode

To use this adapter in Ad-Hoc Mode

1. Double click the  icon on your desktop to start the utility or  in the task bar.
2. Click the “Profile” tab to add an Ad hoc connection between two wireless network adapters.

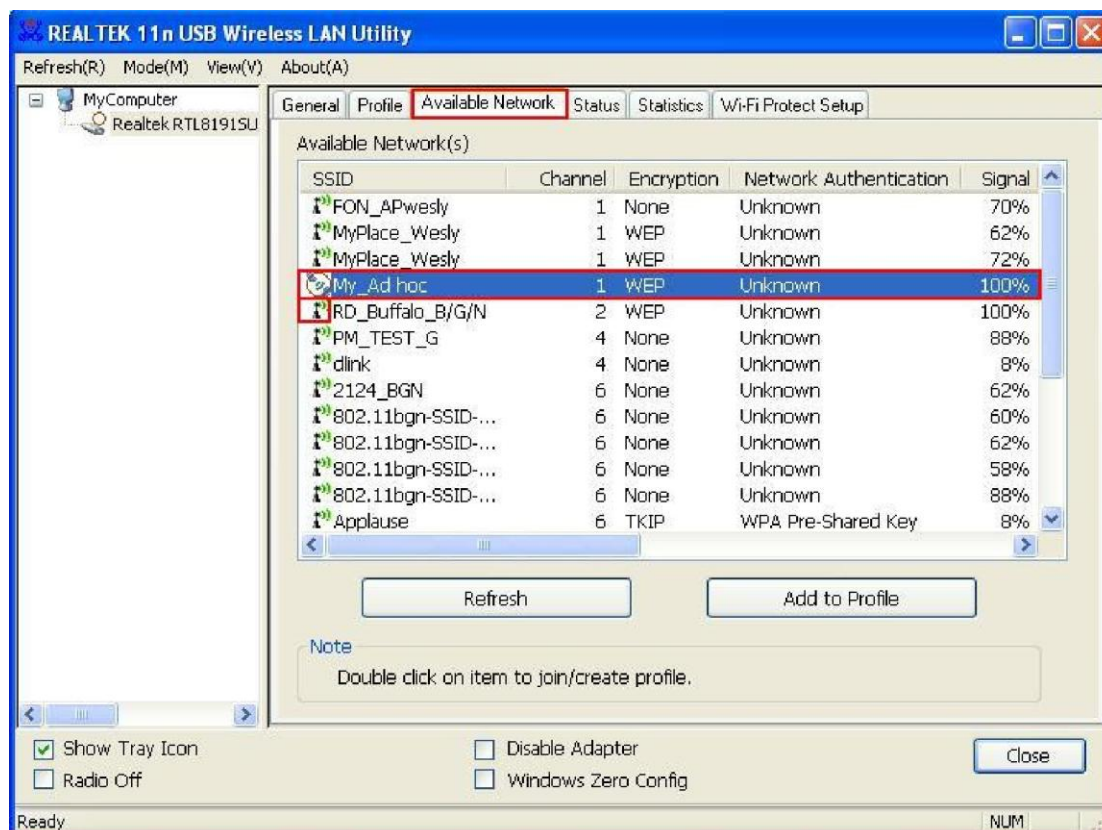


3. A pop out window allows you to configure wireless network properties of the connection profile. Click the OK button when you fill in all of required information.



The image shows the 'Wireless Network Properties' dialog box. It has several sections: 'Profile Name' (set to 'Peer_to_Peer'), 'Network Name (SSID)' (set to 'My_Ad hoc'), a checkbox for 'This is a computer-to-computer (ad hoc) network; wireless access points are not used.' (checked), 'Channel' (set to '1 (2412MHz)'), 'Wireless network security' section with 'Network Authentication' set to 'Open System' and 'Data encryption' set to 'WEP', 'Key index (advanced)' set to '1', and fields for 'Network key' and 'Confirm network key'. The 'OK' button is highlighted with a red box.

4. Check out Available Network. You will find Ad hoc network is available for remote station to connect. The symbol of Ad hoc network is different from infrastructure network.

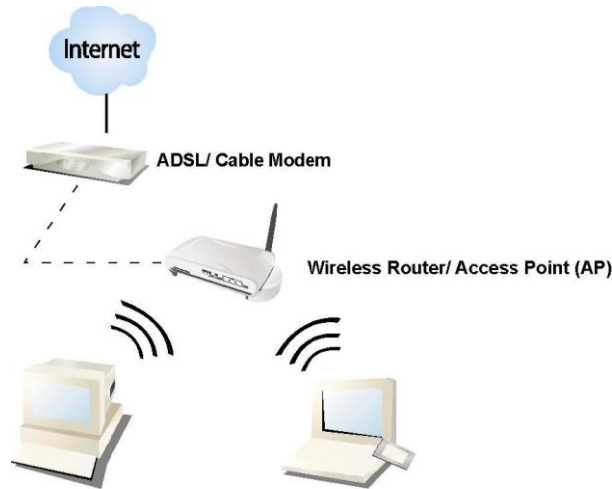


The image shows the 'REALTEK 11n USB Wireless LAN Utility' window. The 'Available Network' tab is selected. It displays a list of available networks with columns for SSID, Channel, Encryption, Network Authentication, and Signal. The 'My_Ad hoc' network is highlighted with a red box. Below the list are 'Refresh' and 'Add to Profile' buttons. A 'Note' section at the bottom states: 'Double click on item to join/create profile.'

SSID	Channel	Encryption	Network Authentication	Signal
FON_APwesly	1	None	Unknown	70%
MyPlace_Wesly	1	WEP	Unknown	62%
MyPlace_Wesly	1	WEP	Unknown	72%
My_Ad hoc	1	WEP	Unknown	100%
RD_Buffalo_B/G/N	2	WEP	Unknown	100%
PM_TEST_G	4	None	Unknown	88%
dlink	4	None	Unknown	8%
2124_BGN	6	None	Unknown	62%
802.11bgn-SSID-...	6	None	Unknown	60%
802.11bgn-SSID-...	6	None	Unknown	62%
802.11bgn-SSID-...	6	None	Unknown	58%
802.11bgn-SSID-...	6	None	Unknown	88%
Applause	6	TKIP	WPA Pre-Shared Key	8%

Infrastructure mode

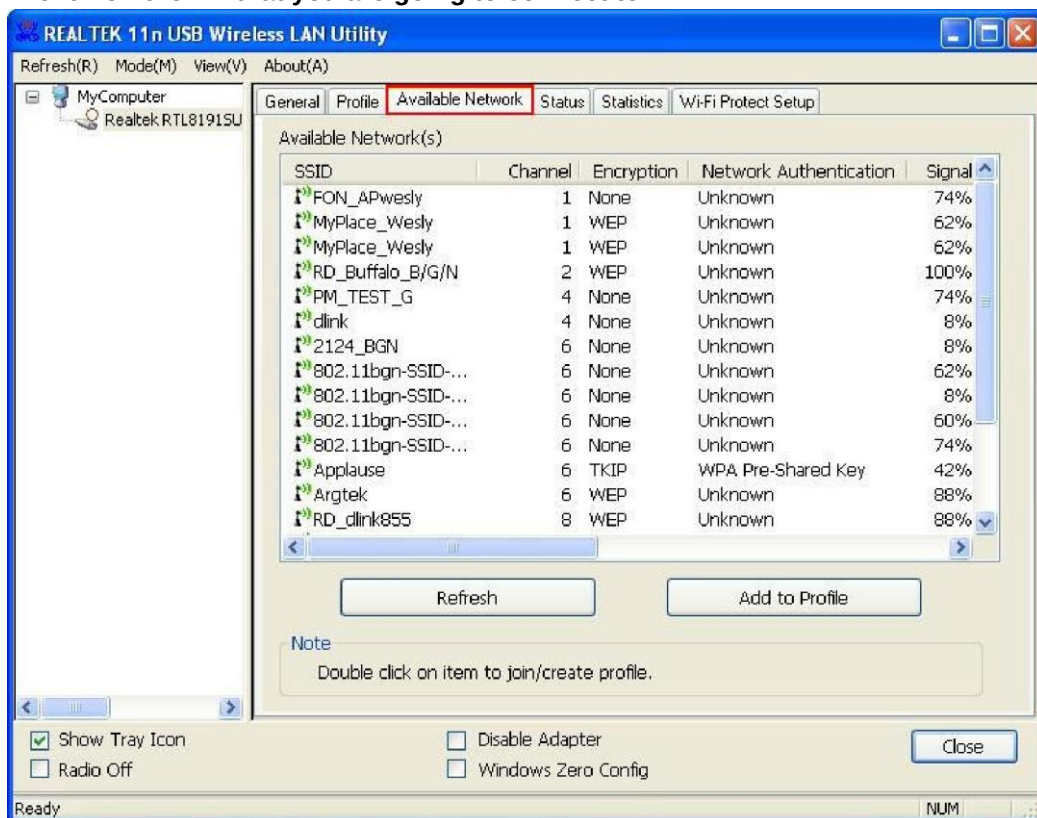
An Infrastructure Mode network contains at least one wireless client and one wireless AP or router. This client connects to Internet or intranet by communicating with this wireless AP.



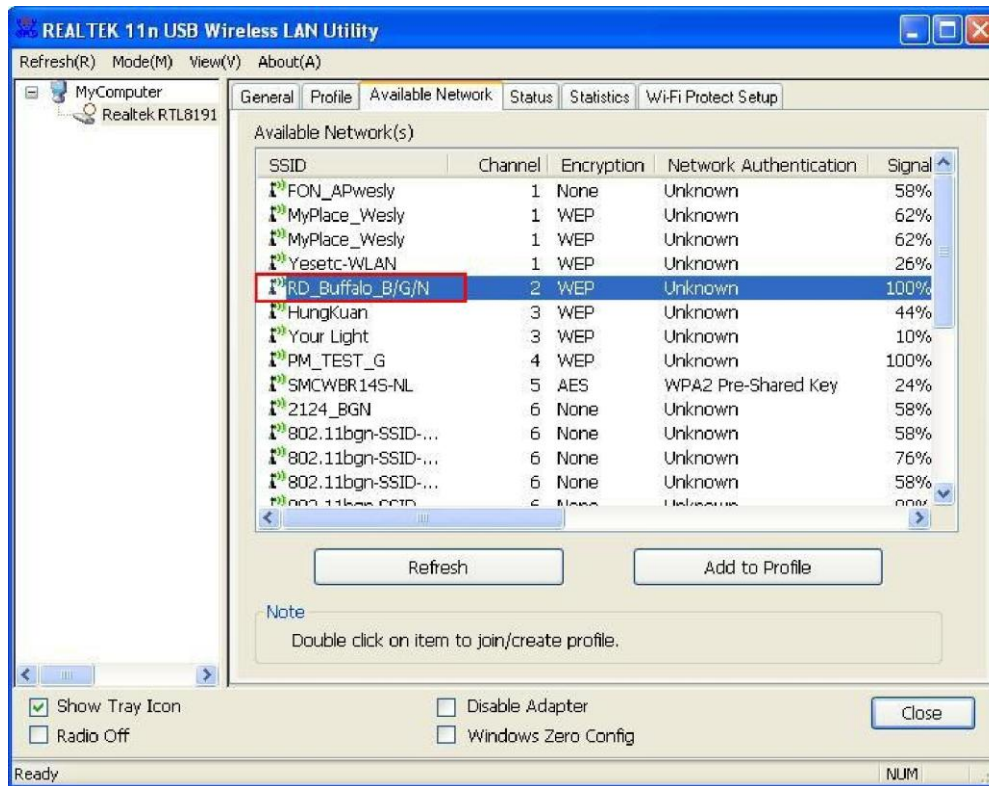
Infrastructure Mode

To use this adapter in Infrastructure Mode:

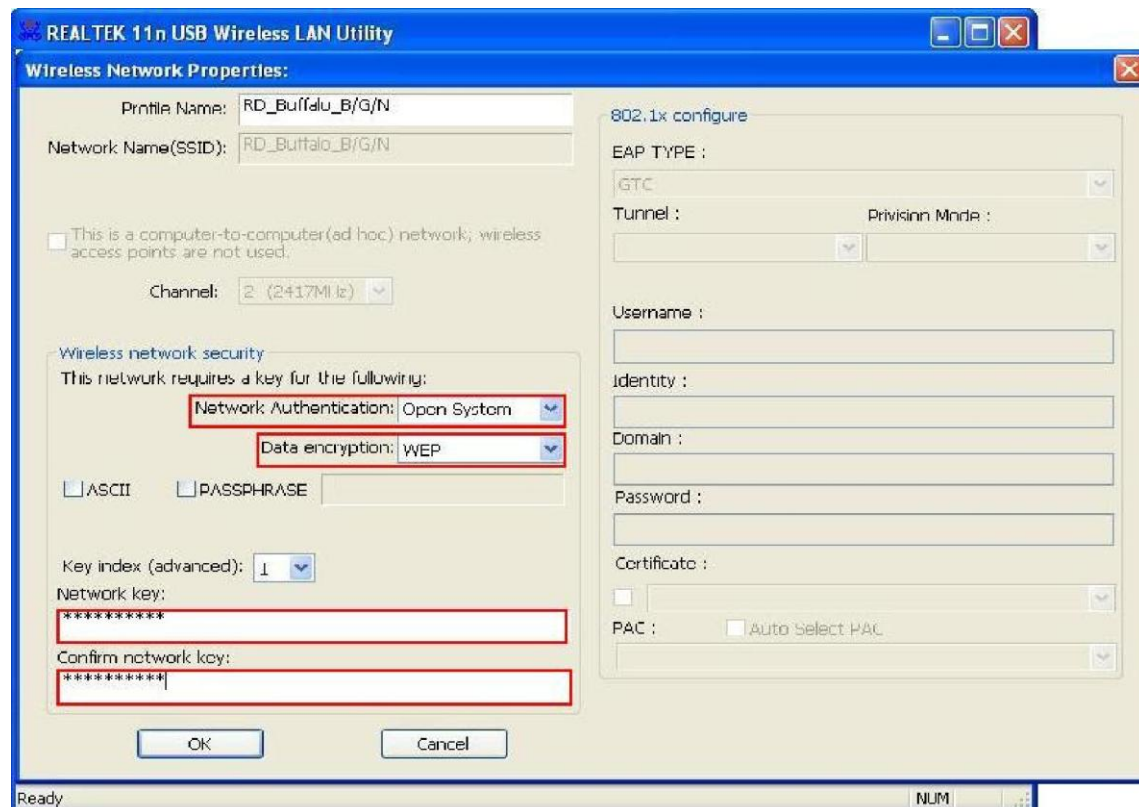
1. Double click the  icon on your desktop to start the utility or  in the task bar.
2. Click the “Available Network” button to scan available access points. Double click on the AP that you are going to connect to.



- Double click or click on Add to Profile to create profile that you are connecting to an open wireless network.



- Click OK to add this network into the profile list.



Note:

This example is an open wireless network. If you are going to connect to an AP with security protection, you will have to configure the encryption settings in this profile to be corresponding to your AP. Please click on the “Network Authentication” drop list to select an authentication method, and then select a “Data encryption” type. Fill in each required blanks and click “OK”.

Tip:

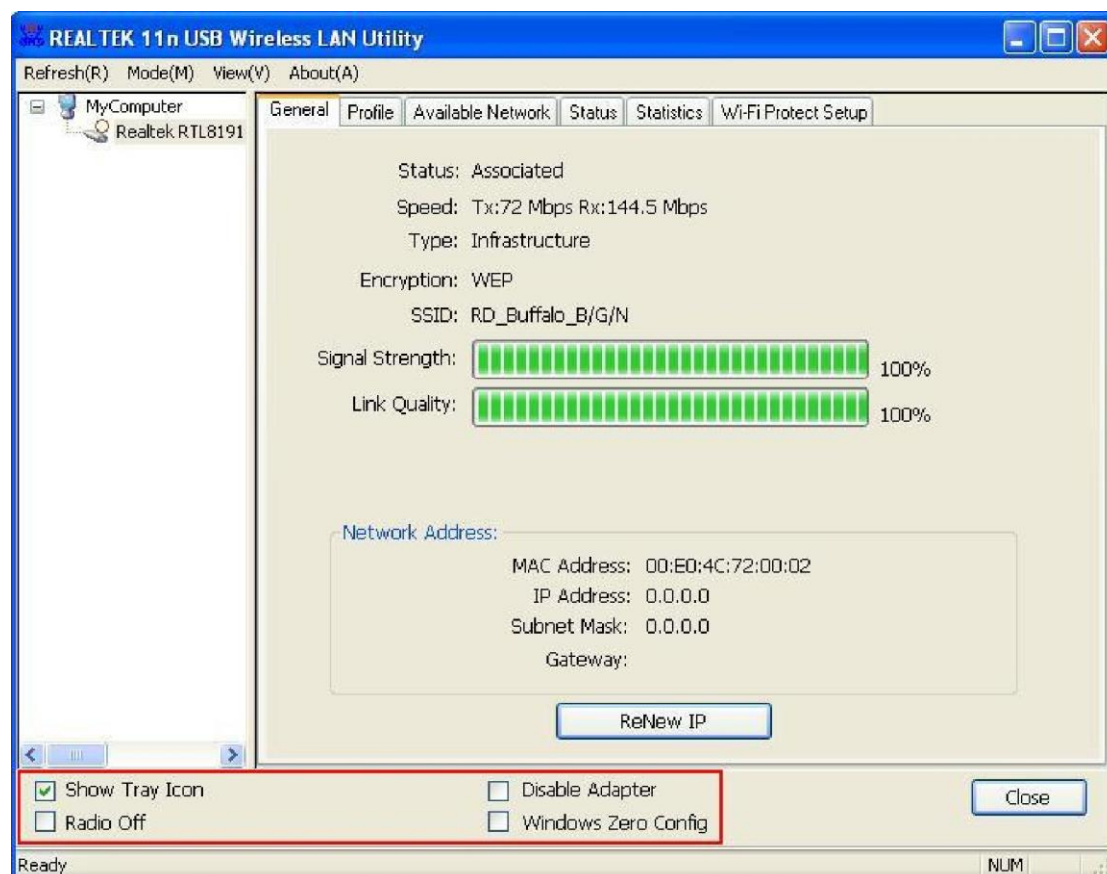
Windows XP and Windows 2000 users is also allowed to connect to your wireless network with the “RT-Set” setup wizard. Please refer to “Appendix” for more information.

Introduction to the Wireless LAN Utility

Note:

This management instruction uses Windows XP as the presumed operation system. Some functions are not supported in Windows 98se or Windows ME.

Starting the Wireless LAN Utility

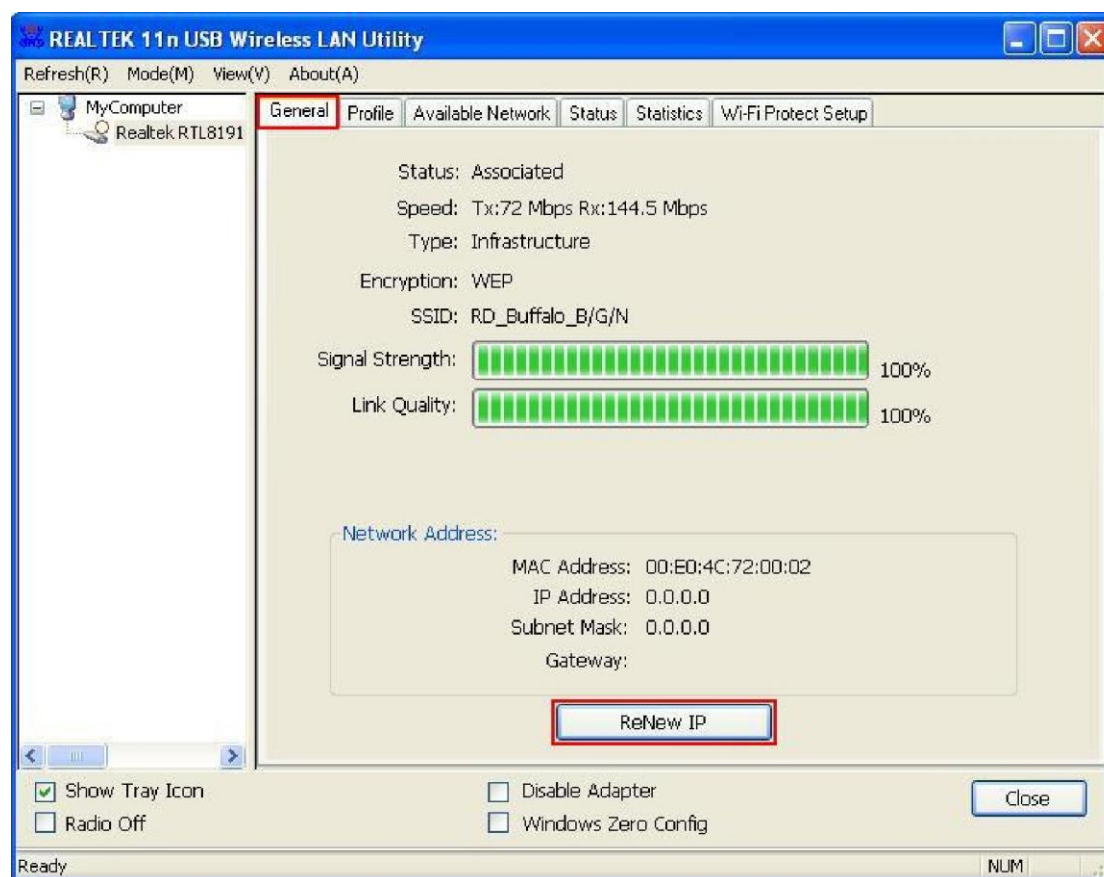


You may click on the tabs above to configure this adapter. The checkboxes below provide the following functions:

Show Tray Icon	Check this checkbox to show the utility icon on your system tray, which is in the notification area at the lower-right corner of the windows desktop. You may also uncheck it to remove the utility icon from system tray.
Radio Off	Check this checkbox to prevent this adapter form transmitting or receiving signals. Uncheck it to communicate.
Disable Adapter	Check this checkbox to disable this wireless adapter. Uncheck it to enable this adapter again.

General

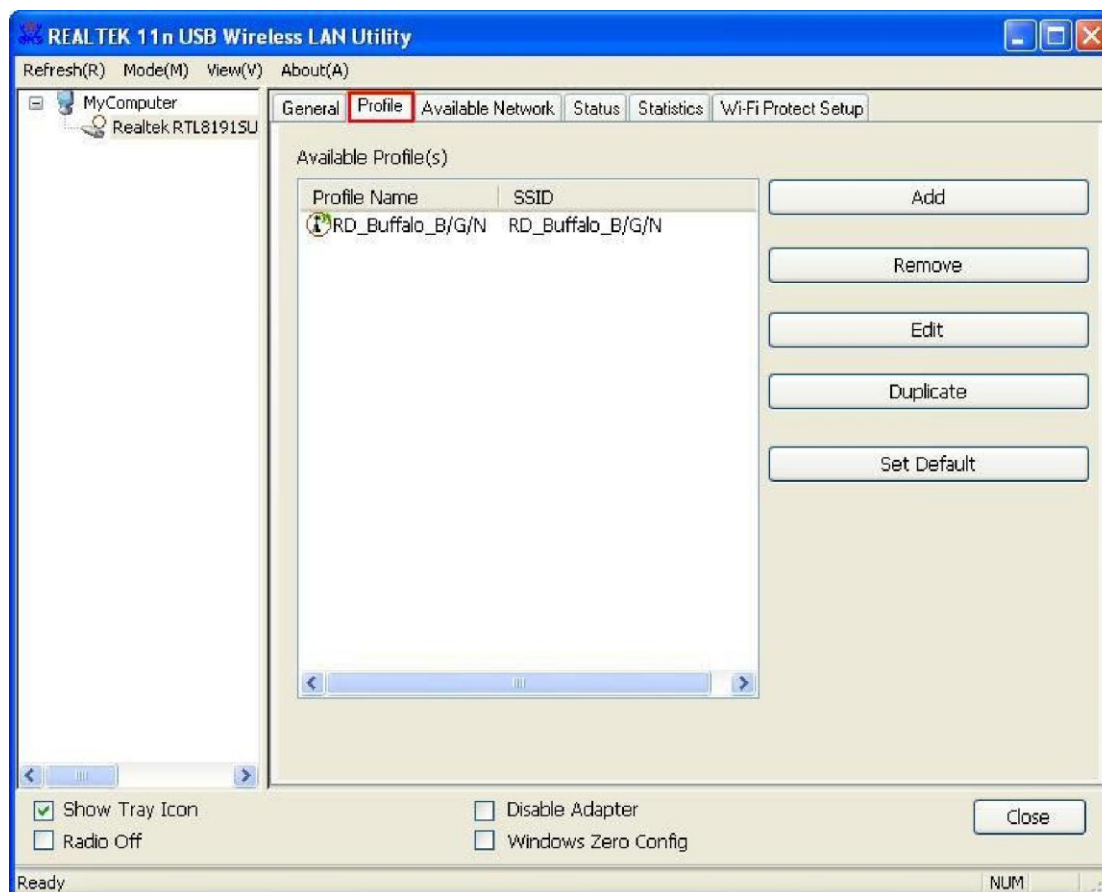
After starting the utility, the general page pops up. This General tab provides the information of your current wireless network connection. You may click the Renew IP button to refresh those listed information.



Status:	Check if the device associated to target network.
Speed:	The current connection speed
Type:	Infrastructure mode or Ad-Hoc mode.
Encryption:	The performing encryption mode for connecting to current network profile.
SSID:	The SSID (network name) of the connected wireless network.
Signal Strength:	Indicates the signal strength detected by this adapter.
Link Quality	Indicates the link quality of this wireless connection.
Network Address:	Shows the current IP addresses settings for this adapter.

Profile

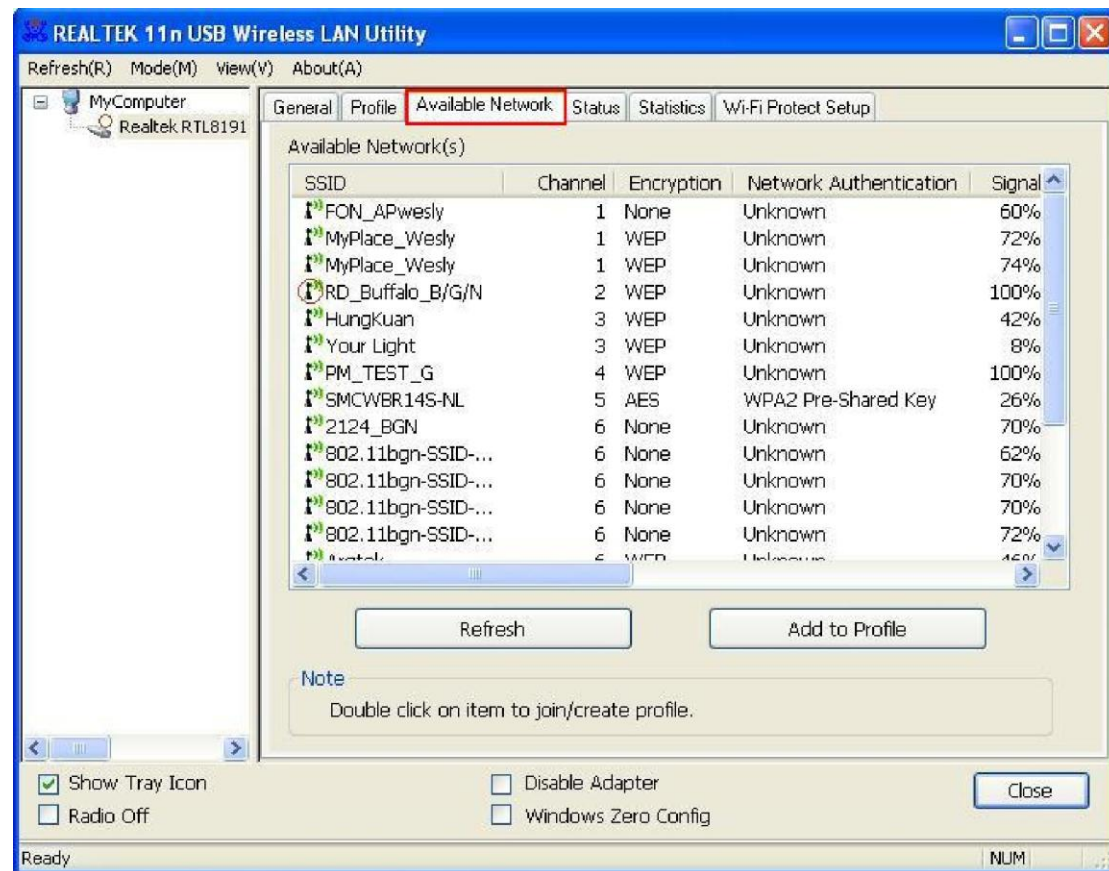
The Profile tab lists the preferred connections. You can click the buttons beside to do configure each connection.



Add	Click this button to add a connection profile for this adapter.
Remove	To remove a connection profile, click this profile on the profile list and click this button to delete it.
Edit	To modify the configurations for a profile, click this profile on the profile list and click this button to edit.
Duplicate	To make a copy of a profile, click the profile that going to be copied, and click this button to copy it.
Set Default	To select a profile as your default wireless connection, click this profile on the list and click this button. You may also double click on each profile to select it as your default wireless connection.

Available Network

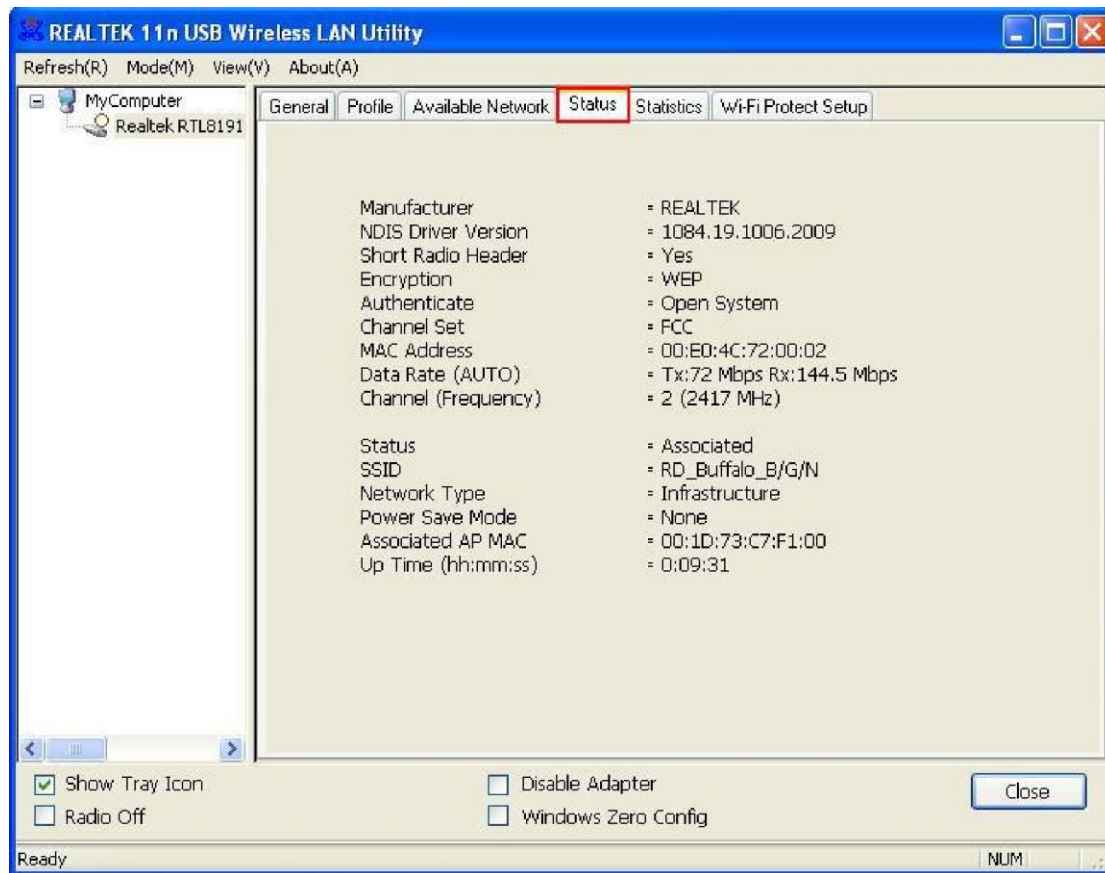
This available Network tab lists the reachable wireless network of this adapter.



Refresh	Click this button to rescan available networks around the adapter.
Add to Profile	To add an available Network to your profile list, select an available network and click this button to add.

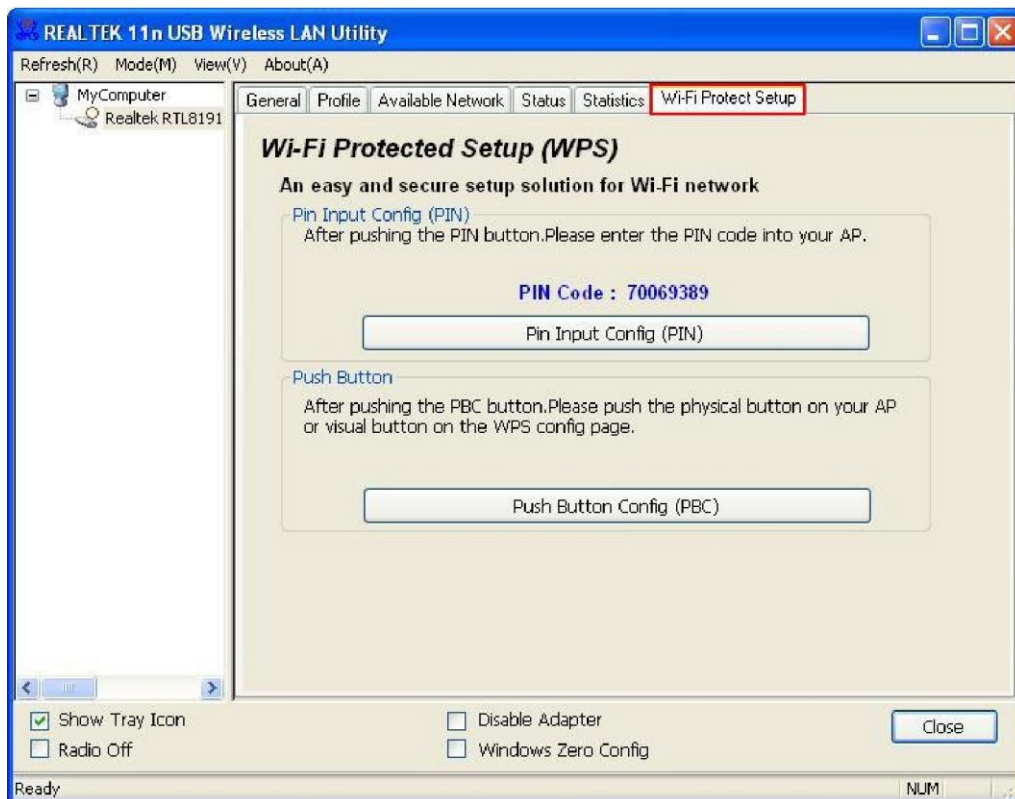
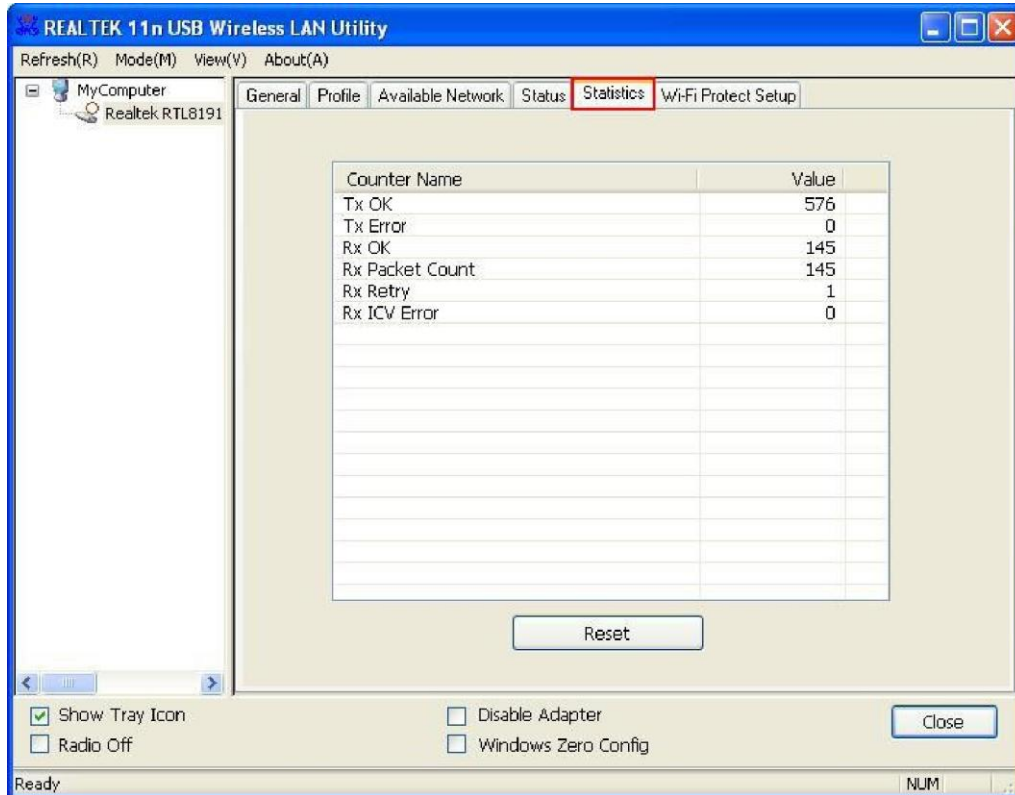
Status

This tab shows the current connection status of this adapter.



Statistics

See this tab to show the transmission activity record. Clicking the “Reset” button recounts the values from zero.

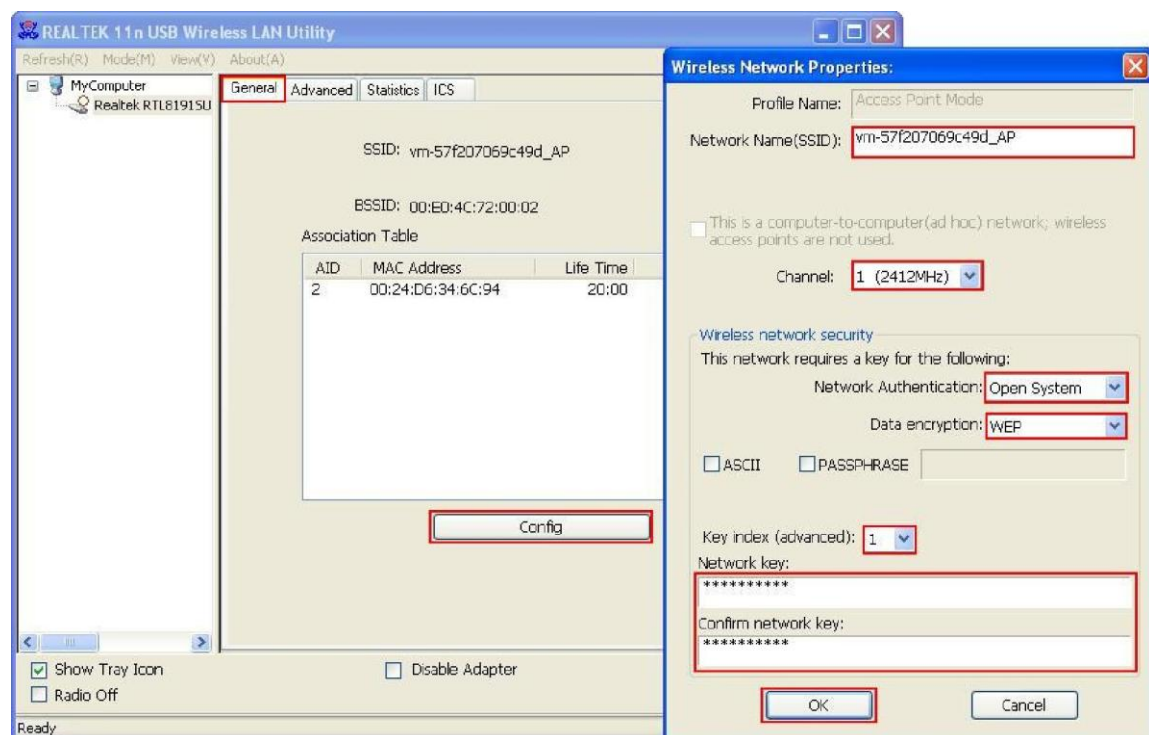


AP mode management guide

General

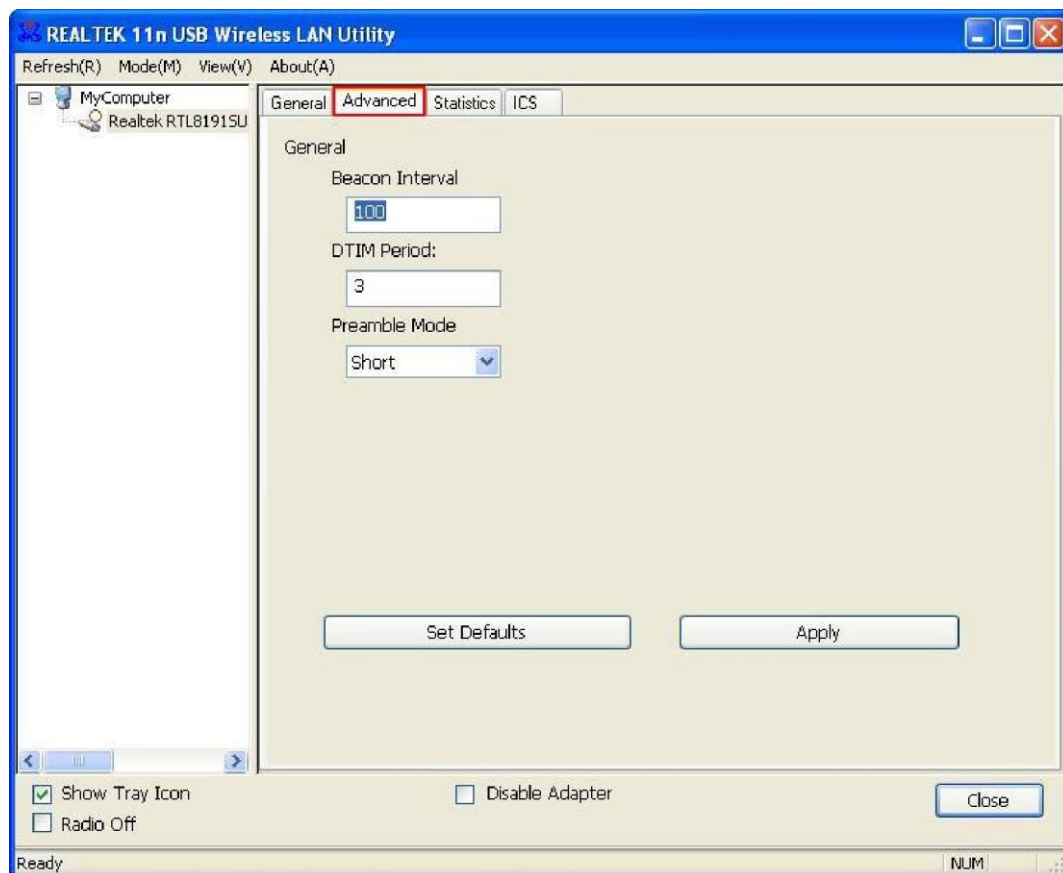
After configuring the adapter in AP mode, this “General” page shows up, which shows the general information of this AP.

SSID:	The SSID (network name) of the wireless network constructed by this AP.
BSSID:	The MAC address of this AP
Config:	Click this button to change configurations to this AP
Association Table:	Shows the information of those devices that associated with this AP including their MAC addresses and the time that they connected with this device.



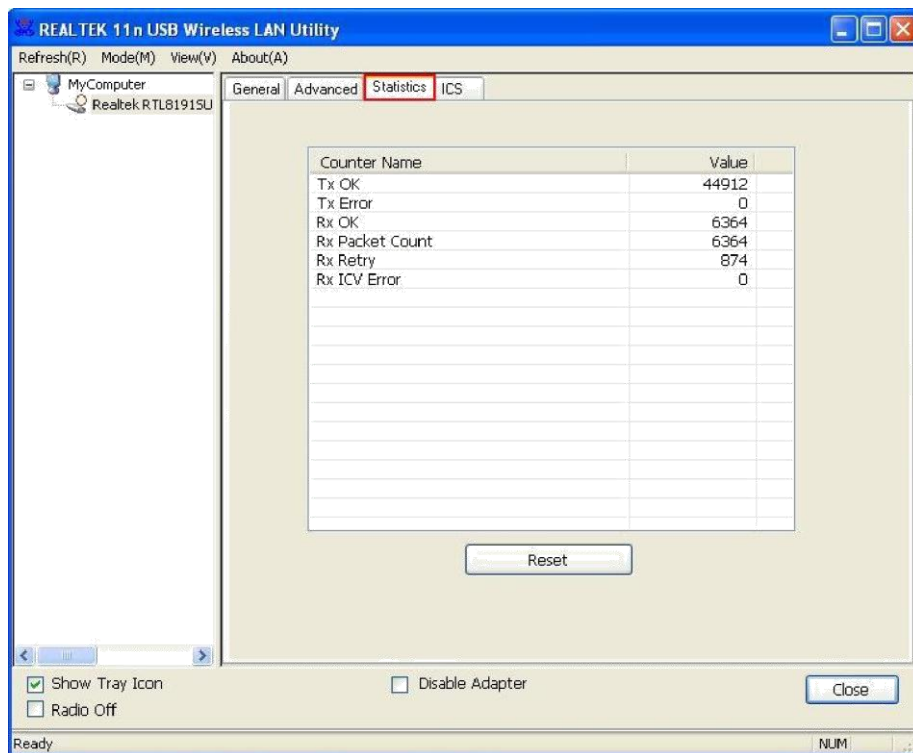
Advanced

Beacon Interval:	Define the interval between beacons from 20~1000
DTIM Period:	Set the DTIM period between 1~255
Preamble Mode:	Click the drop list to select the preamble to be long, short or auto
Set Defaults:	Click this button to restore the settings above to default
Apply:	Click this button to execute changes.



Statistics

See this tab to show the transmission activity record. Clicking the “Reset” button recounts the values from zero.



Internet Connection Sharing (ICS)

This page allows users to select the adapter for connect to public network.

Please click on the device that are used for connecting to public network and click the “Select” button, and then click the “Apply” button to execute.

