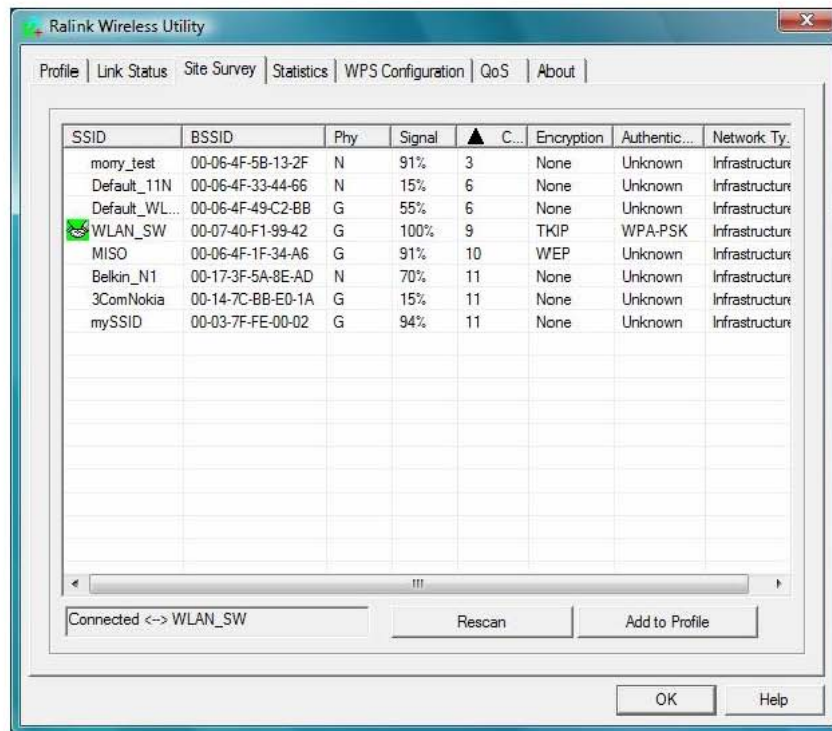


Noise Level: Display the noise signal strength.

HT: Display current HT status in use, containing BW, GI, MCS, SNR0, and SNR1 value. (show the information only for 802.11n wireless card.)

3.2.3 Site Survey

When you open the Configuration Utility, the system will scan all the channels to find all the access points/stations within the accessible range of your adapter and automatically connect to the wireless device with the highest signal strength. From the “**Site Survey**”, all the network nearby will be listed. You can change the connection to another network or add one of the networks to your own profile list.



SSID: Name of BBS of IBSS network.

BSSID: MAC address of AP or randomly generated of IBSS.

Signal: Receive signal strength of specified network.

Channel: Channel in use.

Encryption: Encryption algorithm used within than BBS or IBSS. Valid value includes WEP, TKIP, AES, and Not Use.

Authentication: Authentication mode used within then network, including Unknown,

WPA-PSK, WPA2-PSK, WPA and WPA2.

Network Type: Network type in use, Infrastructure or Ad-Hoc.

Rescan: Issue an rescan command to wireless NIC to update information on surrounding wireless network.

Re-Scanning: Clicking the re-scan button to perform the re-scanning action.


Add to Profile: Add the selected AP to Profile setting. It will bring up profile page and save user's setting to a new profile.

[Connect A Network]

(1) When Raconfig first ran, it will select the best AP to connect automatically.

(2) If user wants to connect to other AP, he can double-click mouse on the intended AP to make connection.

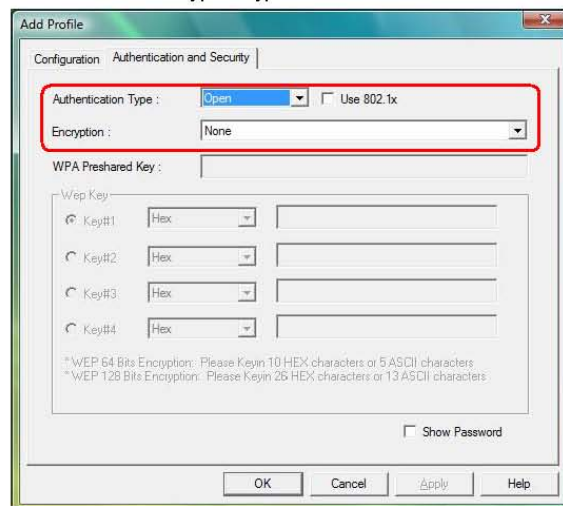
(3) If the intended network has encryption other than "Not Use", Raconfig will bring up the security page and let use input the appropriate information to make the connection.

 This icon indicates the changes is successful.

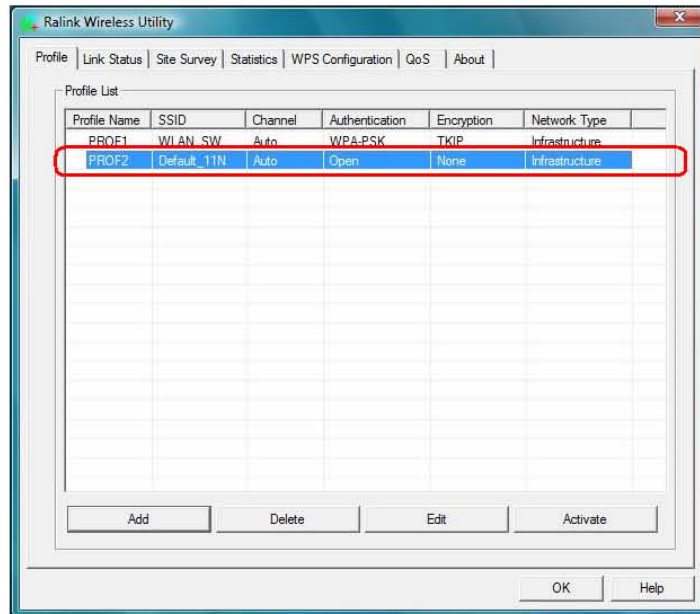
Example 1: Open and Non-Encrypted

Step 1 – Choose "Open" authentication type

Step 2 – Choose "None" encryption type



Step 3 – After the profile is saved, click "Activate" button on Profile Page to activate the profile.

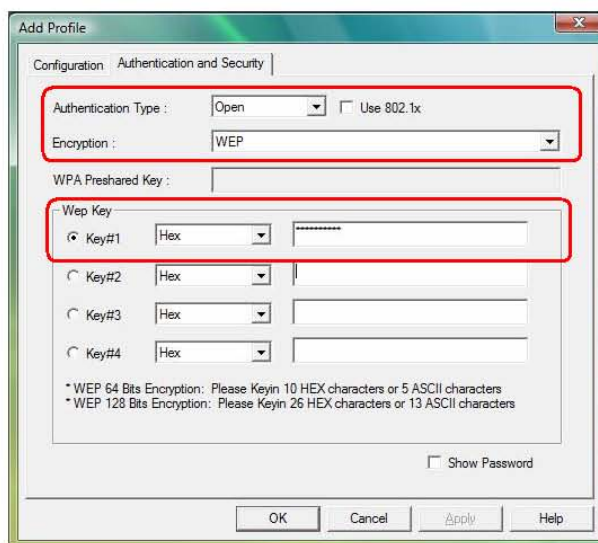


⊙ **Example 2: WEP-Encrypted**

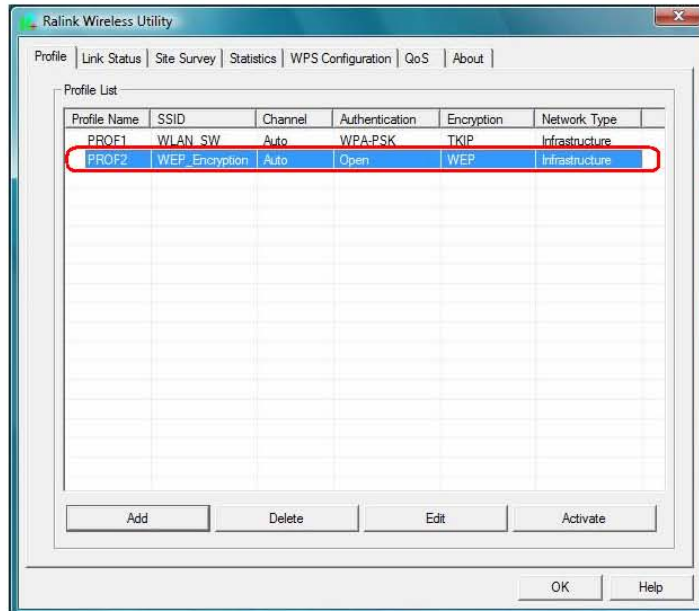
Step 1 – Choose **“Open”** or **“Shared”** authentication type

Step 2 – Choose **“WEP”** encryption type

Step 3 –Enter the WEP KEY



Step 4 –After the profile is saved, click the “Activate” button on Profile Page to activate the profile.

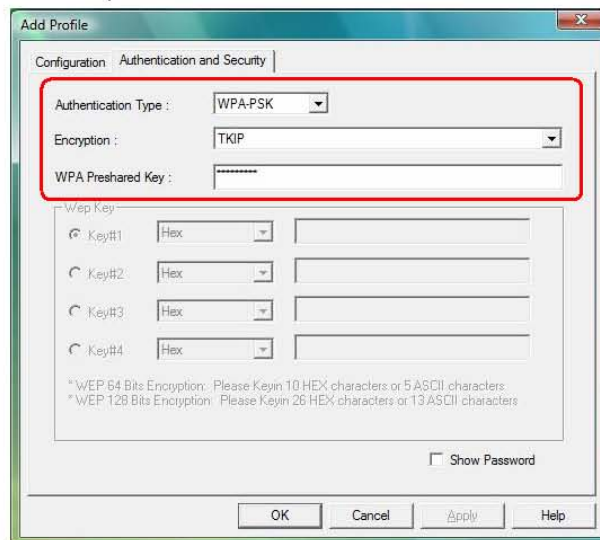


③ **Example 3: WPA-PSK/WPA2-PSK**

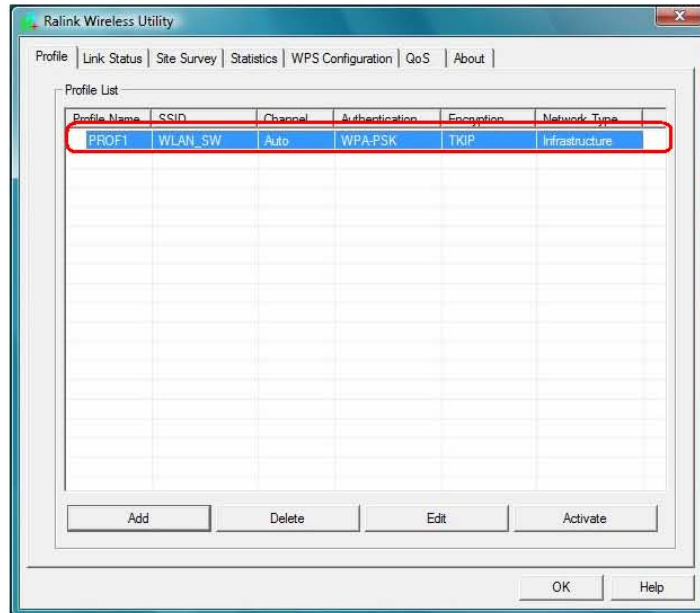
Step 1 – Choose “WPA-PSK” or “WPA2-PSK” authentication type

Step 2 – Choose “TKIP” or “AES” encryption type

Step 3 –Enter the pre-shared KEY



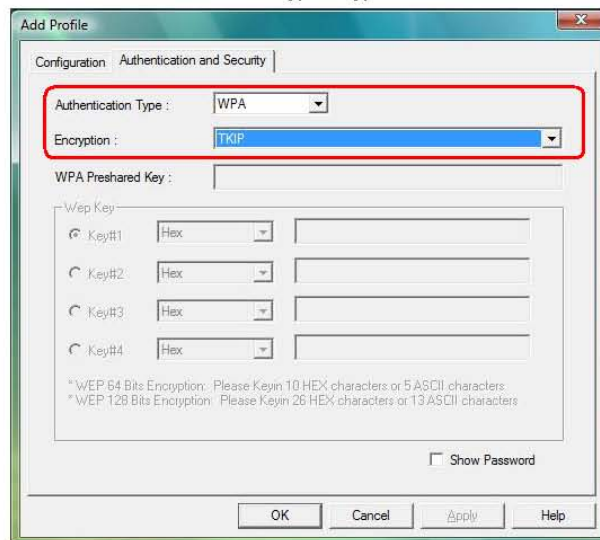
Step 4 –After the profile is saved, click the “Activate” button on Profile Page to activate the profile.



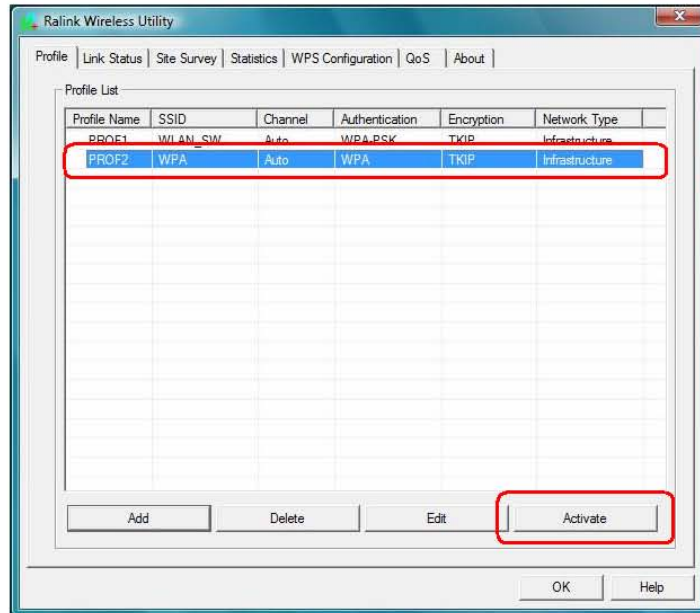
⊙ **Example 4:WPA/WPA2**

Step 1 – Choose “WPA” or “WPA2” authentication type

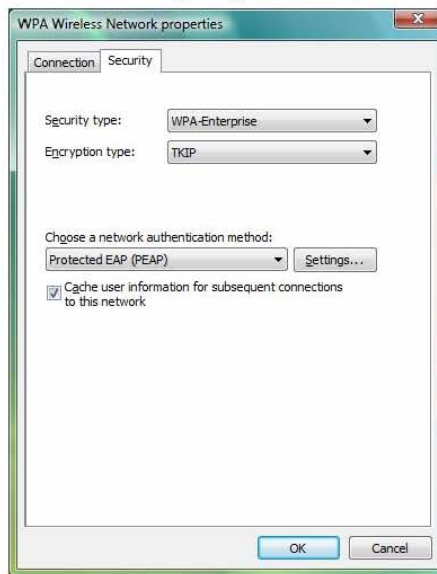
Step 2 – Choose “TKIP” or “AES” encryption type



Step 3 –After the profile is saved, click the “Activate” button on Profile Page to activate the profile.

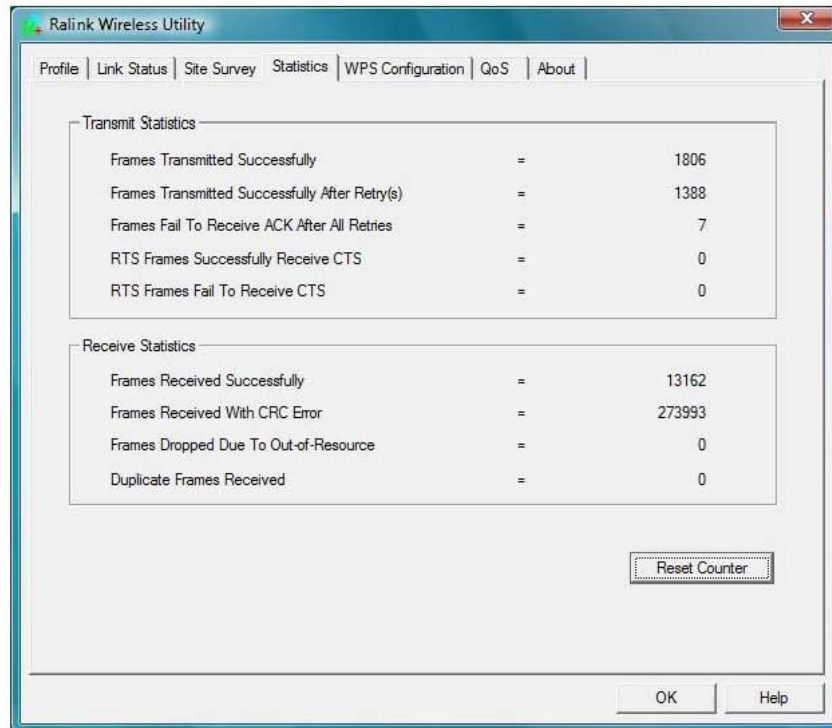


Step 4 –The Windows profile setting dialog is popped-up for user to modify.



3.2.4 Statistics

Statistics page displays the detail counter information based on 802.11 MIB counters. This page translates the MIB counters into a format easier for user to understand. You may reset the counters to Zero by clicking “Reset Counter”.



[Transmit Statistics]

Frames Transmitted Successfully: Frames successfully sent

Frames Transmitted Successfully After Retry: Frames sent successfully with retry.

Frames Fail to Receive ACK After All Retries: Frames failed transmit after hitting retry limit.

RTS Frames Successfully Receive CTS: Successfully receive CTS after sending RTS frames.

RTS Frames Fail To Receive CTS: Failed to receive CTS after sending RTS frames.

[Receive Statistics]

Frames Received Successfully: Frames received successfully.

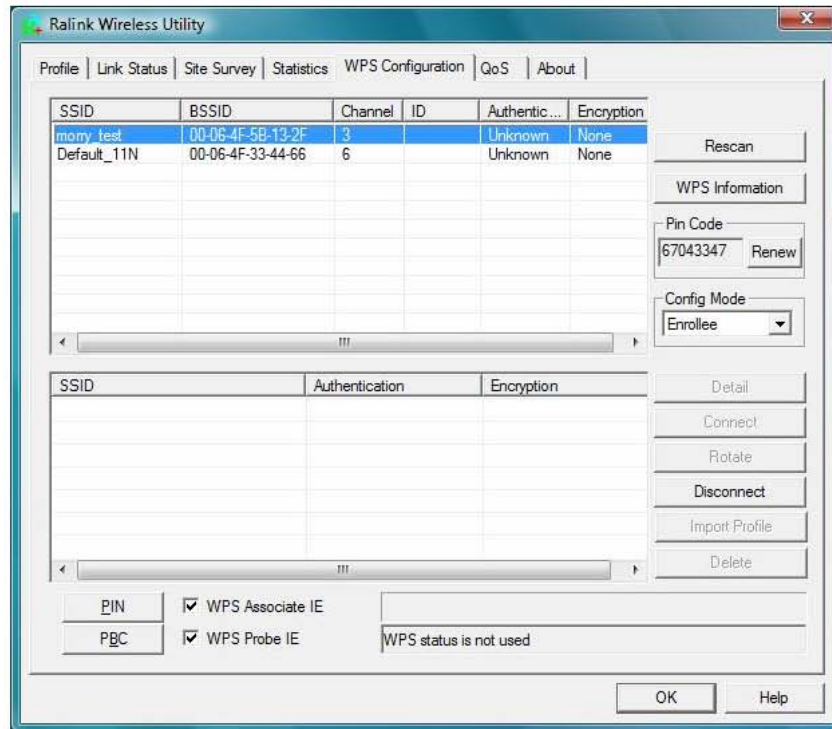
Frames Received with CRC Error: Frames received with CRC error.

Frames Dropped Due to Out-of-Resource: Frames dropped due to resource issue.

Duplicate Frames Received: Duplicate received frames.

3.2.5 WPS Configuration

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi Networks.



WPS Associate IE: If the "WPS Associate IE" option is checked, station will send the association request with WPS IE during WPS setup.

WPS Probe IE: If the "WPS Probe IE" option is checked, station will send the probe request with WPS IE during WPS setup.

[Display WPS capable AP information]

The WPS capable AP information is listed in the upper frame, and the display AP's characters are SSID, BSSID, current operating channel, device password ID, authentication type, and encryption type.

Re-Scanning: Clicking "re-scan" button performs the re-scanning action.

WPS AP Information: Clicking the "WPS information" button brings up the WPS capable AP information dialog.

- **Authentication Type:** there are three type of supported authentication modes, and there are Open, Shared, WPA-PSK and WPA modes.

- **Encryption Type:** For **Open** & **Shared** authentication modes, the available encryption types are **None** and **WEP**. For **WPA**, **WPA2**, **WPA-PSK** and **WPA2-PSK** authentication modes, the available encryption types are **TKIP** and **AES**.
- **Config Methods:** This attribute contains the config methods supported and enabled by the selected Registrar.
- **Device Password ID:** Device Password ID indicates the method or identifies the specific password that the selected Registrar intends to use.
- **Selected Registrar:** Selected Registrar indicates if the user has recently activated a Registrar to add an Enrollee.
- **State:** This attribute is used to indicate the current configuration state. This attribute is either "**Un-Configured**" or "**Configured**".
- **Version:** This attribute is the specified WPS version.
- **AP Setup Locked:** AP Setup Locked indicates if AP has entered a setup locked state.
- **UUID-E:** UUID-E is the universally unique identifier (UUID) generated by the Enrollee.
- **RF-Bands:** RF Bands indicate the available RF bands.

[Configure WPS Profiles]

The user can configure WPS profile with either PIN method or PBC method.

- **PIN Method:**
 - Step 1 → The Registrar enters the pin code generated by station.
 - Step 2 → Click the "PIN" button.
- **PBC Method:**
 - Step 1 → Click the "PBC" button within 2 second while the Registrar clicks the button.

[Manage WPS Profiles]

The Received WPS profiles are listed in the lower frame, and the listed WPS profile attributes are SSID, MAC address, authentication type, and encryption type.

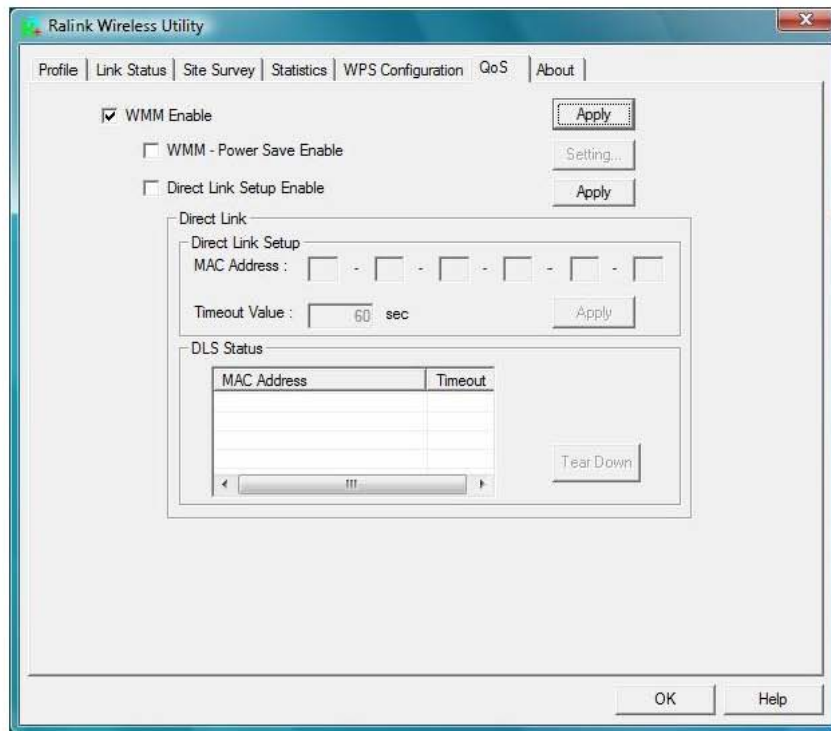
- **WPS profile detail information:** Selecting a profile then clicking the "Detail" button brings up the WPS profile detail information dialog.
- **Connect with WPS Profile:** Clicking the "Connect" button will connect to AP with the select WPS profile.
- **Rotate WPS profile:** If there are more than two WPS profiles, clicking the "Rotate" button will rotate to next profile and connect to AP with this profile. If the connection can't be made successfully, station will perform the WPS profile rotation repeatedly.
- **Disconnect from WPS AP:** Clicking the "Disconnect" button will stop the WPS

connection.

- Delete WPS profile: Clicking the "Delete" button will delete the selected WPS profile.

3.2.6 QoS

The QoS Page of RaConfig. It involves "WMM Enable", "WMM – Power Save Enable" and "DLS setup Enable".

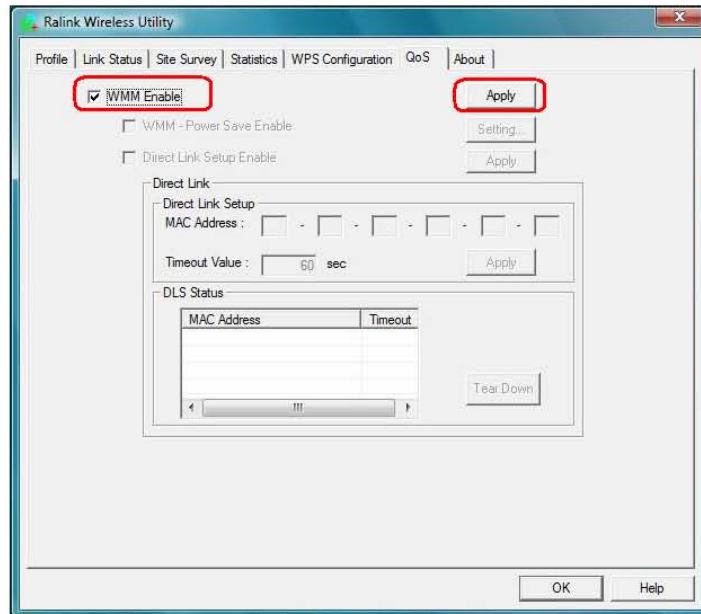


ⓄConfigure to enable Wi-Fi Multi-Media

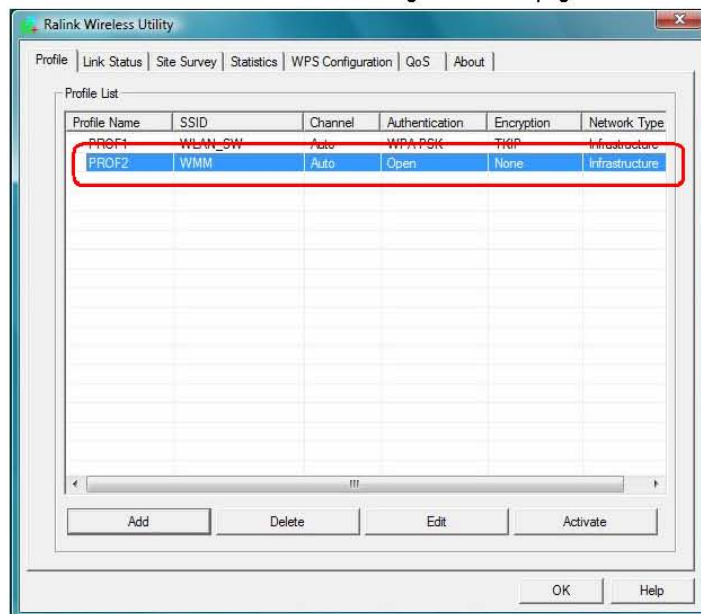
If you want to use "WMM – Power Save" or "Direct Link", you must enable WMM. The setting method of enabling WMM indicates as follows:

Step1: Click "WMM Enable"

Step2: Click "Apply".

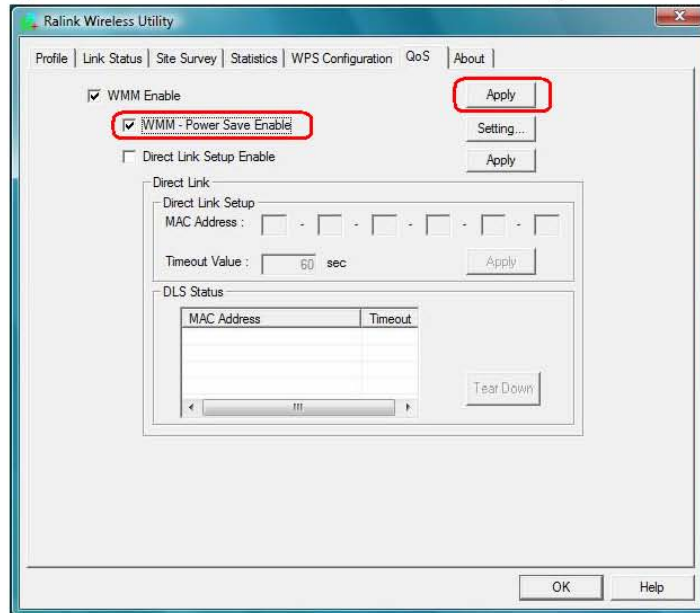


Step3: Change to “Site Survey Page”. And add an AP that supports WMM features to a Profile. The result will look like the below figure in Profile page.

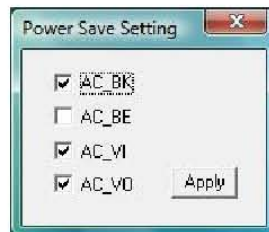


Enable WMM – Power Save

Step1: Click “WMM – Power Save Enable”. And Click “Setting...” button.

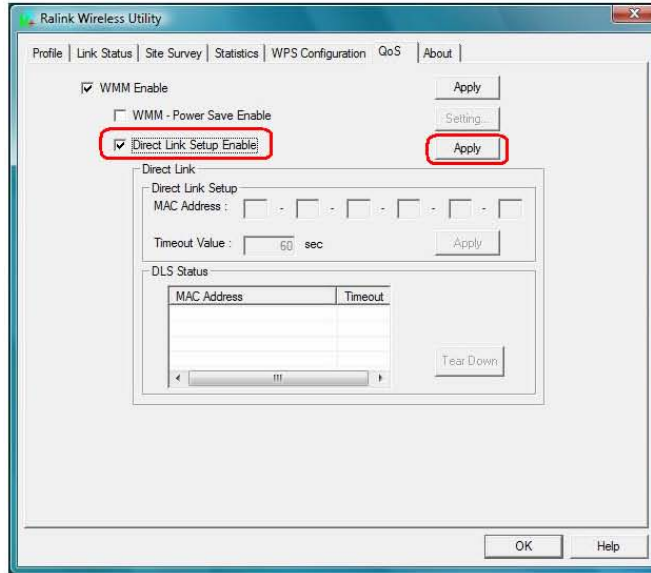


Step2: After clicking “Setting...” button, show “Power Save Setting” dialog. Please select which ACs you want to enable. Then click “Apply” button. The setting of enabling WMM – Power Save is successfully.

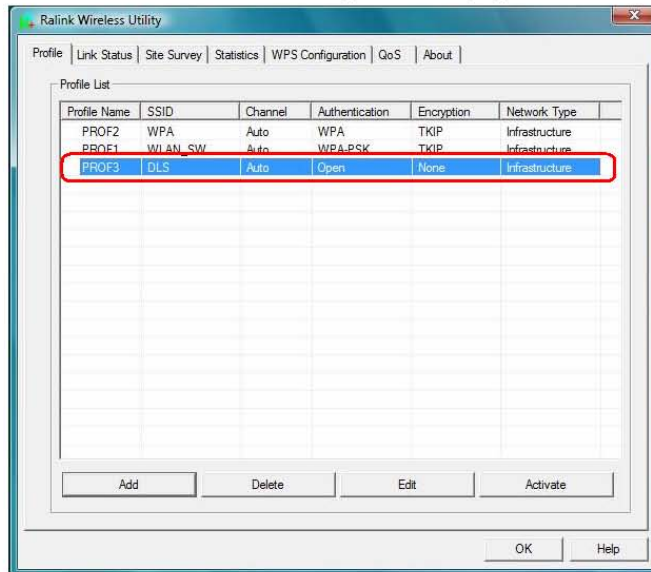


Ⓞ Enable DLS (Direct Link Setup)

Step1: Click “Direct Link Setup Enable”. And Click “Apply” button



Step2: Change to “Site Survey Page”. And add an AP that supports DLS features to a Profile. The result will look like the below figure in Profile page.

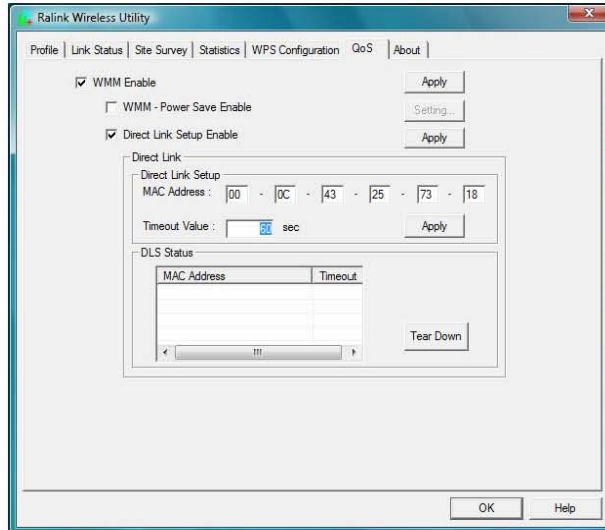


The Setting of DLS indicates as follow:

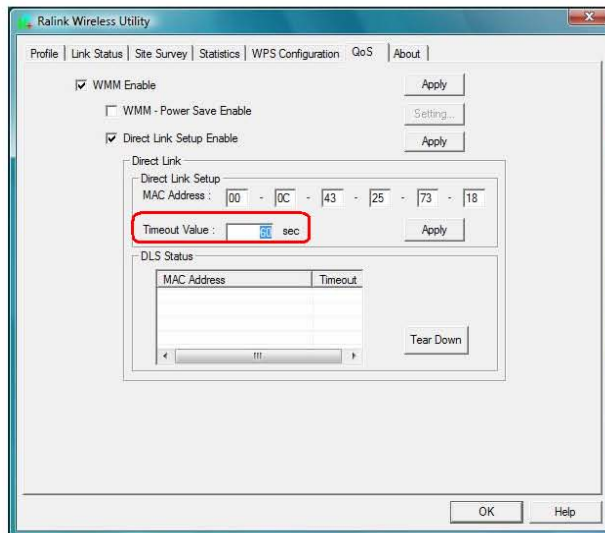
1. Fill in the blanks of Direct Link with **MAC Address** of STA. The STA must conform to two conditions as follow:

Step1: Connect with the same AP that support DLS features.

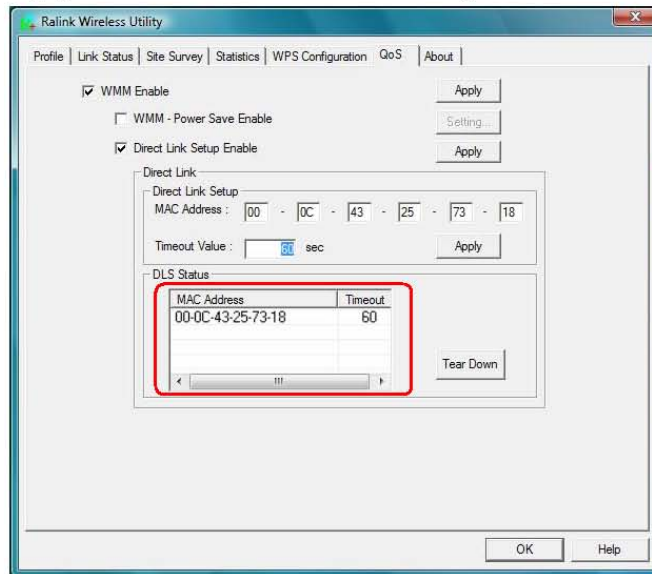
Step2: Have to enable DLS.



2. **Timeout Value** represents that it disconnect automatically after some seconds. The value is integer. The integer must be between 0~65535. It represents that it always connects if the value is zero. Default value of Timeout Value is 60 seconds



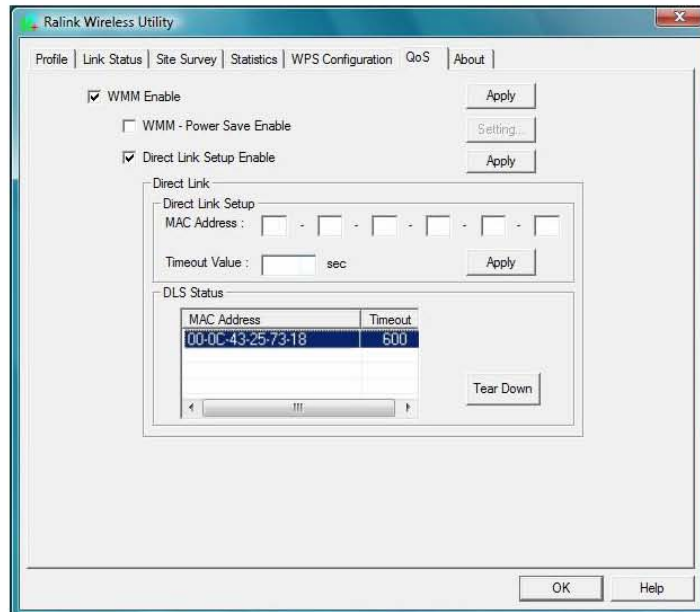
3. Click “Apply” button. The result will look like the below figure.



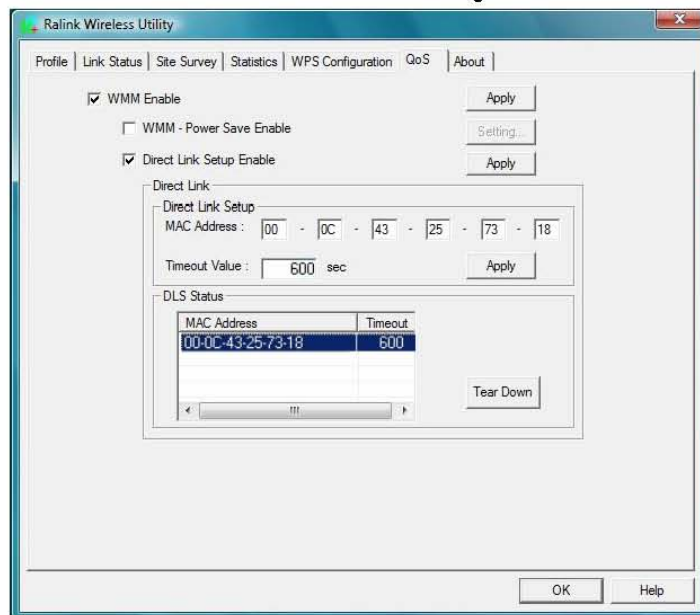
Describe “DLS Status” as follow:

1. As the up figure, after configuring DLS successfully, show MAC address of the opposite side and Timeout Value of setting in “DLS Status”. In “DLS Status” of the opposite side, it shows MAC address of myself and Timeout Value of setting.
2. Display the values of “DLS Status” to “Direct Link Setup” as follow:

Step1: In “DLS Status”, select a direct link STA what you want to show it’s values in “Direct Link Setup”.

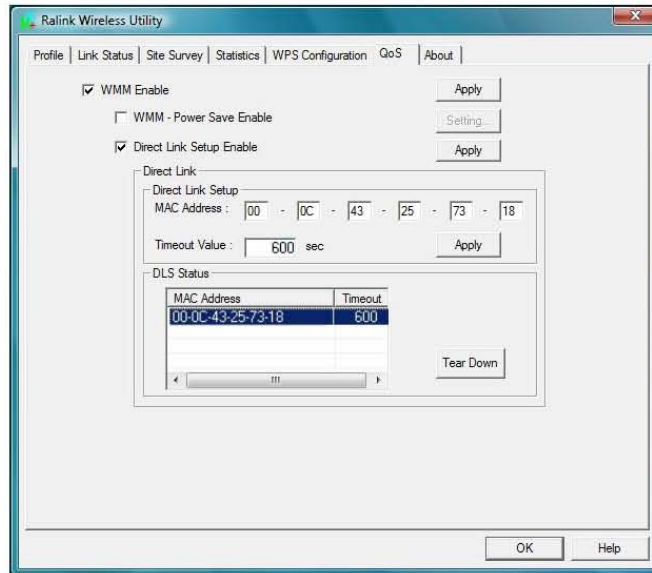


Step2: Double click. And the result will look like the below figure.

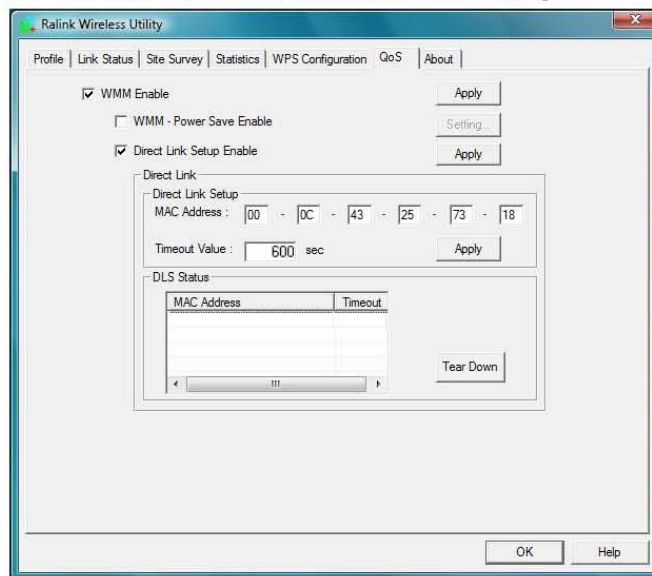


3. Disconnect Direct Link Setup as follow:

Step1: Select a direct link STA.

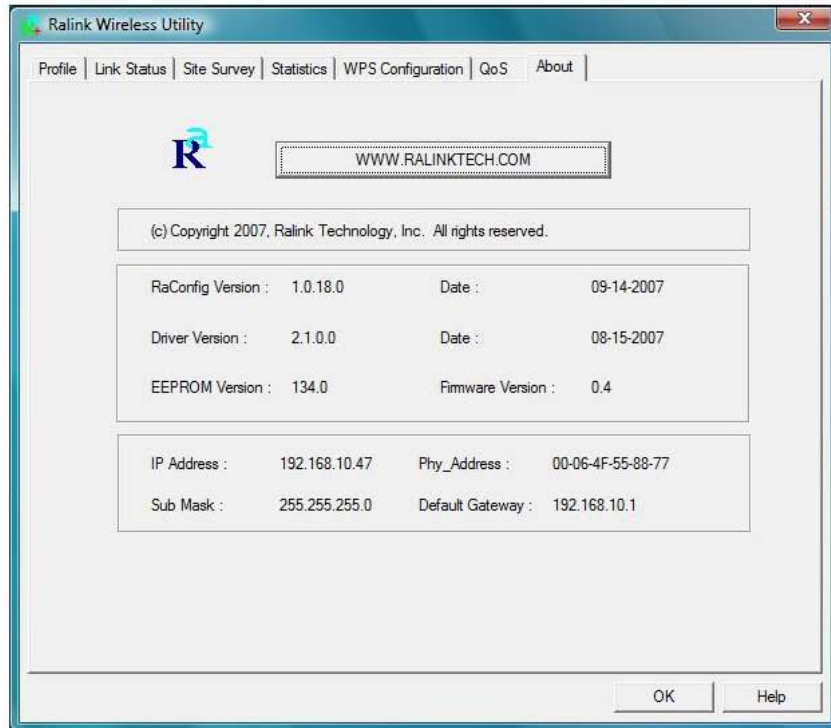


Step2: Click “Tear Down” button. The result will look like the below figure.



3.2.7 About

In the **"About"**, you can click the hyperlink to connect the website for the information of the wireless chipset vendor and review basic information about the Utility such as the RaConfig Version, Driver Version, EEPROM Version, IP Address, Sub Mask, and Default Gateway.

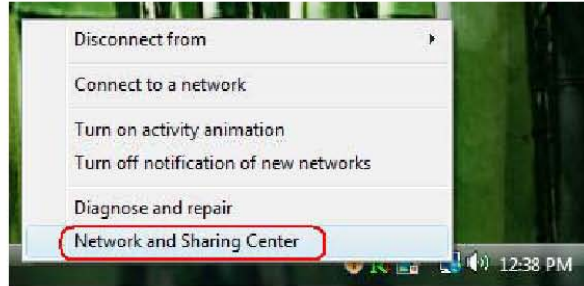


3.2.8 How to Manage Windows Profile

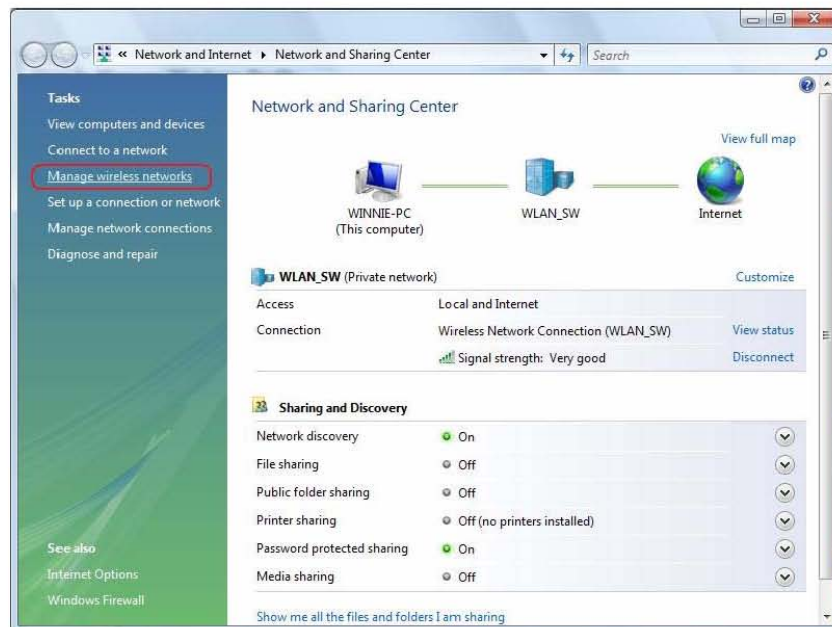
Windows profile manager can be reached via connection icon on the task bar or control panel.

[via Network icon]

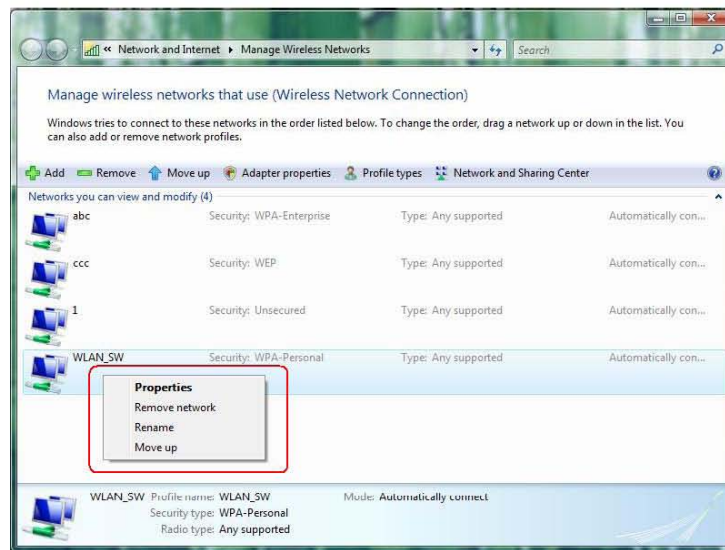
Step 1: Right-click connection icon on the task bar, then click "Network and Sharing Center"



Step 2: Select "Manage wireless networks"



Step 3: Right-click the mouse to bring up the profile manage menu.



[via Control Panel]

Step 1: Select "Control Panel" on start menu.

