

TP-LINK®

User Guide

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TL-WN350G 54M Wireless PCI Adapter



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FCC STATEMENT



This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- > Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter".

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Package Contents

The following contents should be found in your box:

- One TL-WN350G 54M Wireless PCI Adapter
- **Quick Installation Guide**
- One Resource CD for TL-WN350G, including:
 - TP-LINK Wireless Client Utility (TWCU) and Drivers
 - User Guide
 - Other Helpful Information

Note:

If any of the listed contents are damaged or missing, please contact the retailer from whom you purchased the TL-WN350G 54M Wireless PCI Adapter for assistance.

Conventions:

The 'Adapter' and 'PCI Adapter' mentioned in this User guide both stand for TL-WN350G 54M Wireless PCI Adapter without any explanations.

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Chapter 1. Introduction

1.1 Overview of the product

The TP-LINK TL-WN350G 54M Wireless PCI Adapter will provide you the flexibility to install your PC in the most convenient location available, without the cost of running network cables.

The Adapter's auto-sensing capability allows high packet transfer rate of up to 54Mbps for maximum throughput, or dynamic range shifting to lower speeds due to distance or operating limitations in an environment with a lot of electromagnetic interference. It can also interoperate with all 11Mbps wireless (802.11b) products. Your wireless communications are protected by up to 152-bit WEP and WPA encryption for high security.

1.2 **Features**

- ➤ Complies with IEEE802.11g, IEEE802.11b standards
- Supports WPA/WPA2 data security, IEEE802.1x authentication, TKIP/AES encryption, 64/128/152-bit WEP encryption
- Supports 54/48/36/24/18/12/9/6Mbps or 11/5.5/2/1Mbps wireless LAN data transfer rates
- Provides 32-bit PCI interface
- Supports Ad-Hoc and Infrastructure modes
- Supports roaming between access points when configured in Infrastructure mode
- \triangleright Ease to configure and provides monitoring information
- Supports Windows 2000, XP
- Adopts fixed antenna

LED Status 1.3

LED Indications	Status	Working Status
	Intermittently	The adapter is in an electricity saving status or
Status Green		the adapter is already connected but is not
		transmitting or receiving data.
Status Green	On	The adapter is on wake up status.
Status Green	Flashing	The adapter is transmitting and receiving data.

Chapter 2. Installation Guide

Hardware Installation 2.1

To install the Adapter, follow these steps listed below:

- Turn off your desktop PC and disconnect the power.
- Open your PC case and locate an available PCI slot on the motherboard. Remove the metal slot cover on the back of the PC. Check with your computer manufacturer for instructions if needed.
- 3. Slide the PCI Adapter into the PCI slot. Make sure that all of its pins are touching the slot's contacts. Once the adapter is firmly in place, secure its fastening tab to your PC's chassis with a mounting screw. Then, close your PC case.
- 4. Reconnect your PC's power and turn on your desktop PC.

2.2 **Software Installation**

2.2.1 Overview

The Adapter's Setup Wizard will guide you through the Installation procedure for Windows 2000, XP. The Setup Wizard will install the TP-LINK Wireless Client Utility (TWCU) and drivers.

When you install the hardware before installing the software, the system will prompt "Found New Hardware Wizard", click Cancel, and run the Setup Wizard program on the CD-ROM.

The Setup steps for Windows 2000 and XP are very similar. The following setup steps are for Windows 2000.

2.2.2 Software Installation for Windows 2000

1. Insert the Resource CD into your CD-ROM drive, Click the Start button and choose Run. In the field that appears, enter F:\XXX\setup.exe (if "F" is the letter of your CD-ROM drive, XXX represents the setup program path, which is labeled on the Resource CD), then Figure 2-1 will appear.

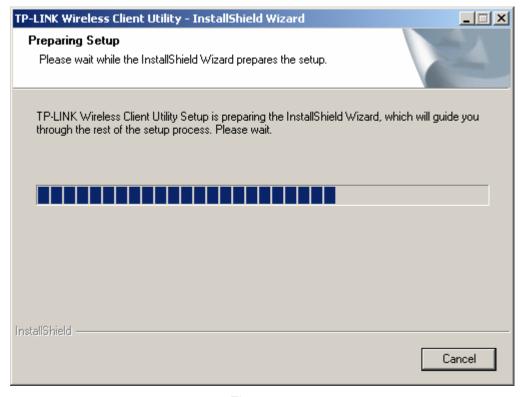


Figure 2-1

2. You can click **Cancel** to end the installation in the screen above. Otherwise, the installation will continue, and then Figure 2-2 will display after a moment.

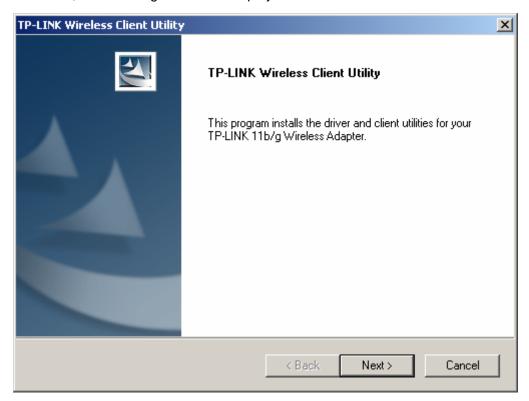


Figure 2-2

3. To continue the installation, click **Next** in the screen above (shown in Figure 2-2), and then you will see the next screen (shown in Figure 2-3). To end the Installation, click **Cancel**.

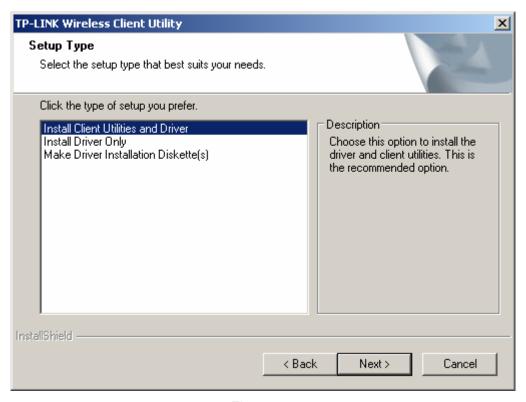


Figure 2-3

4. In the screen above (shown in Figure 2-3), you should choose a Setup type. It is recommended that you select Install Client Utilities and Driver. Select Install Driver Only to install driver only, select Make Driver Installation Diskette(s) to make the diskette(s) as the installation driver. After selecting, click Next to continue the Installation, and then the next screen will appear (shown in Figure 2-4). You may click Back to return to the previous screen, or click Cancel to end the Installation.

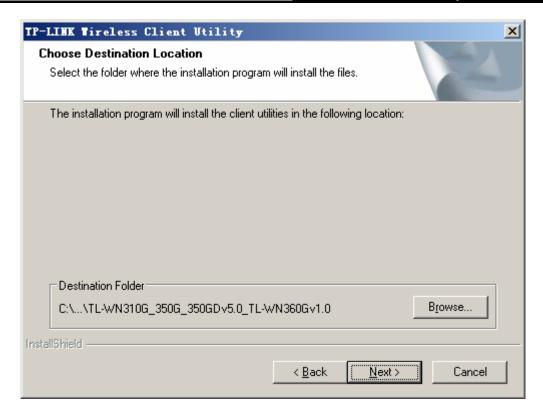


Figure 2-4

5. In the screen above, click **Browse** to change the destination location for the software. After that, click **Next**, and you will see the next screen (shown in Figure 2-5), or click **Back** to return to the previous screen, or click **Cancel** to end the Installation.

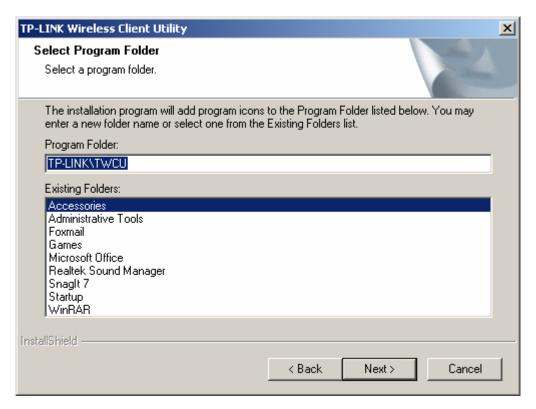


Figure 2-5

6. In the screen above (shown in Figure 2-5), you should create a new folder name or select

one from the **Existing Folders** list. It is recommended that you keep the default setting. Click **Next**, and then you will see the next screen (shown in Figure 2-6). Click **Back** to return to the previous page, or click **Cancel** to end the Installation.

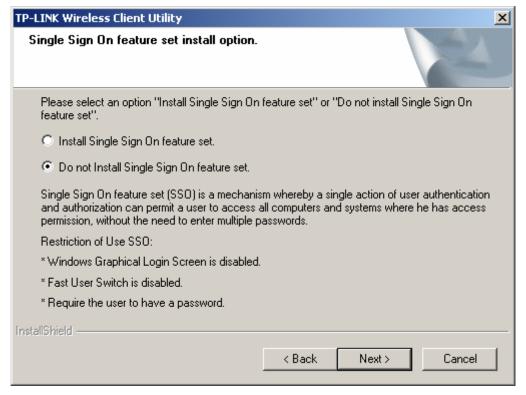


Figure 2-6

7. If you select "Install Single Sign On feature set" on the screen above (shown in Figure 2-6), the system will reboot later after you complete the installation, if you select the next option, the system won't reboot after the installation. Click **Next**, and then you will see the next screen (shown in Figure 2-7). Click **Back** to return to the previous page, or click **Cancel** to end the Installation.



Figure 2-7

8. Click **OK** to continue the Installation on the screen above. And then you will see the next screen below.

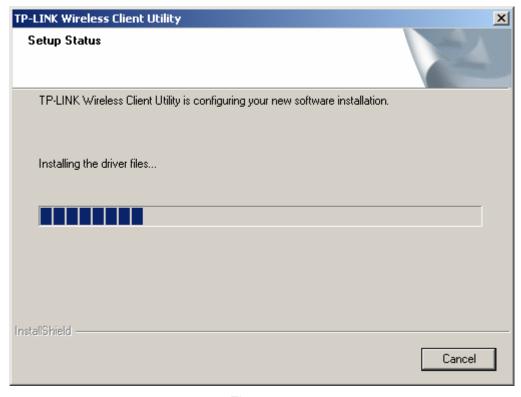


Figure 2-8

9. Wait a while for the step. During the step, the Setup Wizard will notify you of how to proceed with the installation (shown in Figure 2-9). Our drivers have been tested thoroughly, and are able to work with the operating system. Click **Yes** to continue the Installation.



Figure 2-9

Note:

In Windows XP, the warning screen is shown below (Figure 2-10), and please select **Continue Anyway** to continue installation.



Figure 2-10

10. After all the steps above, you will see the screen below, click **Finish** to complete the installation.

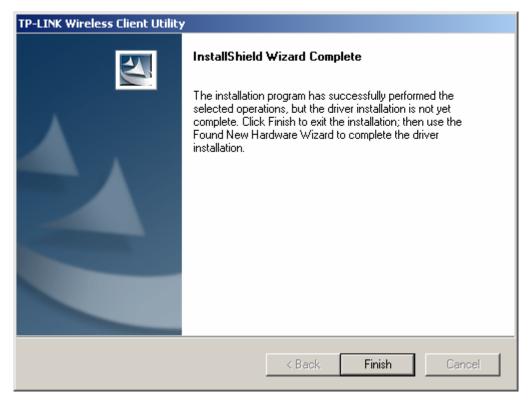


Figure 2-11

Chapter 3. Configuration

TP-LINK Wireless PCI Adapter TL-WN350G can be configured by TP-LINK Wireless Client Utility (TWCU). This chapter describes how to configure your TP-LINK Wireless PCI Adapter for wireless connectivity on your Wireless Local Area Network (WLAN) and use the data security encryption features.

After Installing the Adapter, the Adapter's tray icon will appear in your system tray. It appears at the bottom of the screen, and shows the signal strength using color and the received signal strength indication (RSSI).

- If the icon is gray, there is no connection.
- If the icon is red, there is poor signal strength and the RSSI is less than 5dB.
- If the icon is yellow, there is poor signal strength and the RSSI is between 5dB and 10dB.
- If the icon is green, there is good signal strength and the RSSI is between 10dB and 20dB.
- If the icon is green, there is excellent signal strength and the RSSI is more than 20dB.

Double-click the icon and the **TWCU** will run. You can also run the utility by clicking the **Start>Program>TP-LINK>TWCU>TP-LINK Wireless Client Utility.** The TWCU provides an integrated and easy tools to:

- Display current status information
- Edit and add configuration profiles
- Display current diagnostics information

The section below introduces these above capabilities.

3.1 Current Status

The Current Status tab contains general information about the program and its operations. The Current Status tab does not require any configurations.

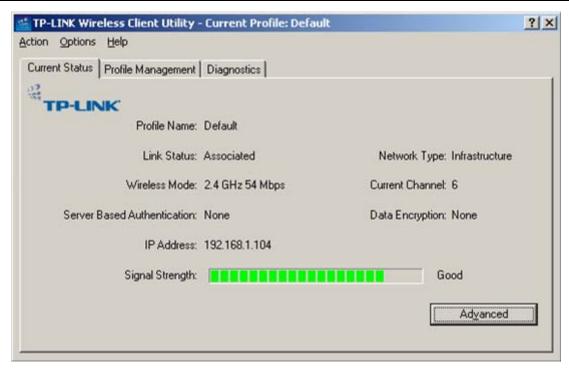


Figure 3-1

The following table describes the items found on the Current Status screen.

- Profile Name This shows the name of current selected configuration profile. The configuration of Profile name will be described on the General tab of Profile Management.
- > Link Status This shows whether the station is associated to the wireless network.
- Wireless Mode Here displays the wireless mode. It will be configured on the Advanced tab of Profile Management.
- > **Network Type -** The type of network and the station currently connected are shown here. The options include:
 - Infrastructure (access point)
 - Ad Hoc

Note:

You can configure the network type on the **Advanced** tab of **Profile Management**.

- > IP Address This displays the computer's IP address.
- Current Channel This shows the currently connected channel.
- Data Encryption Here displays the encryption type the driver is using. You can configure it on the Security tab of Profile Management.
- Server Based Authentication This shows whether the server based authentication is used.
- Signal Strength This shows the strength of the signal.

Click **Advanced** on the screen above, you can see advanced information about the program and its operations. For more information, please refer to the help file of the utility.

3.2 Profile Management

Click the Profile Management tab of the **TWCU** and the next screen will appear (shown in Figure 3-2). The Profile Management screen provides tools to:

- Add a new profile
- Modify a profile
- Remove a profile
- Switch to another Profile
- Import a Profile
- Export a Profile
- Scan Available Networks
- Order profiles

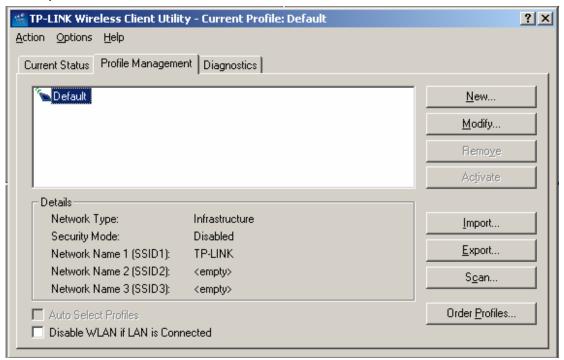


Figure 3-2

3.2.1 Add or Modify a Configuration Profile

To add a new configuration profile, click **New** on the Profile Management tab. To modify a configuration profile, select the configuration profile from the Profile list and click **Modify**. Then you will see the Management dialog box (shown in Figure 3-3).

1. Edit the General tab

- **Profile Name -** Please enter the Profile name which identifies the configuration profile. This name must be unique. Note that the profile names are not case-sensitive.
- > Client Name Please enter the Profile name which identifies the client machine.
- > **Network Names (SSIDs) -** Please enter the IEEE 802.11 wireless network name. This field has a maximum limit of 32 characters.

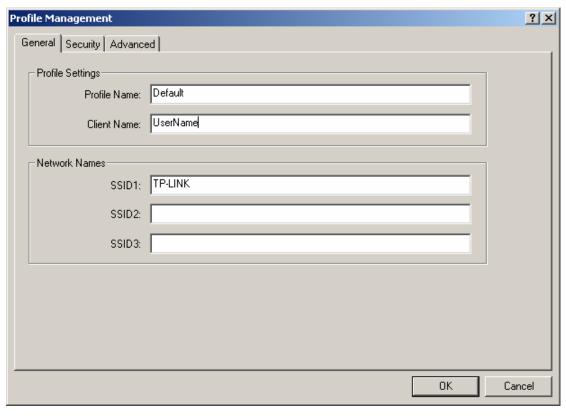


Figure 3-3

2. Edit the Security tab

Select the Security tab in the screen above, then you can edit the fields to configure the profile. To define the security mode, select the radio button of the desired security mode as follows.

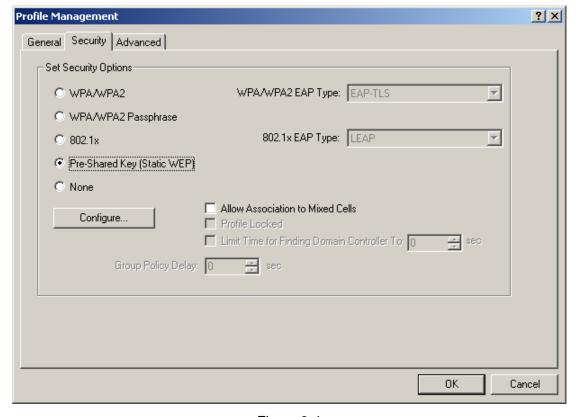


Figure 3-4

- > WPA/WPA2: Wi-Fi Protected Access
- > WPA/WPA2 Passphrase: Wi-Fi Protected Access Passphrase
- > **802.1x**: Enables 802.1x security.
- Pre-Shared Key (Static WEP): Enables the use of shared keys that are defined on both the access point and the station. To define shared encryption keys, choose the Shared Key radio button and click Configure to fill in the Define Shared Keys window (shown in Figure 3-5).
- None: No security (not recommended).

Note:

If the access point to which the Wireless PCI Adapter is associated has WEP set and the client has WEP enabled, make sure that **Allow Association to Mixed Cells** is checked on the Security Tab to allow association. To complete WEP encryption configuration, you must select the 802.11 Authentication Mode as appropriate on the **Advanced** tab of this **Profile Management** dialog.

To configure the Encryption Keys under the Pre-Shared keys (Static WEP) Security mode:

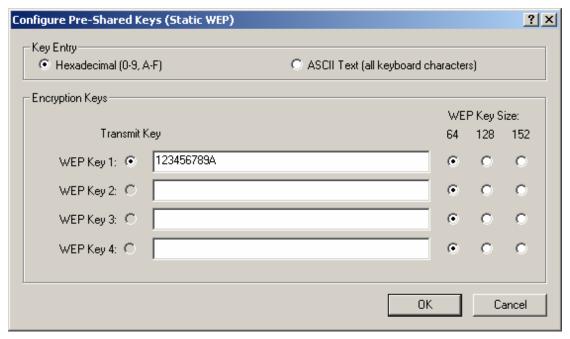


Figure 3-5

3. Edit the Advanced tab

This screen below allows you to make advanced configuration for the profile.

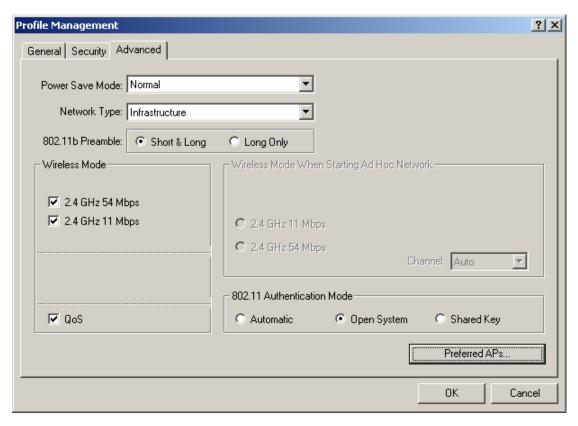


Figure 3-6

- Power Save Mode Please select the power save mode in the drop-down list.
 - **Maximum** Selects maximum mode to let the access point buffer incoming messages for the Wireless PCI Adapter. The Adapter will detect the access point if any messages are waiting periodically.
 - **Normal** Normal mode uses maximum when retrieving a large number of packets, then switches back to power save mode after retrieving the packets.
 - **Off** Turns power saving off, thus powering up the Wireless PCI Adapter continuously for a short message response time.
- 802.11b Preamble: Selects the preamble setting in 802.11b. The default setting is Short & Long (access point mode), which allows both short and long headers in the 802.11b frames. The adapter can only use short radio headers if the access point supports and uses them. Set to Long Only to override short frames.
- ➤ Wireless Mode: Specifies 2.4 GHz 54 Mbps or 2.4 GHz 11 Mbps operation in an access point network. The Wireless PCI Adapter must match the wireless mode of the access point with which it associates.
- Wireless Mode when Starting an Ad Hoc Network: Specifies 2.4 GHz 54/11 Mbps to start an Ad Hoc network if no matching network name is found after scanning all available modes. This mode also allows the selection of the channel that the Wireless PCI Adapter uses. The channels available depend on the regulatory domain. If the adapter finds no other ad hoc adapters, the channel that the adapter starts the ad hoc network with will be selected automatically. The Wireless PCI Adapter must match the wireless mode and channel of the clients it associates.

- > QoS: Select the option, the Adapter will provide the Quality of Service for the wireless connection.
- 802.11 Authentication Mode: Select which mode the Wireless PCI Adapter uses to authenticate to an access point:
 - Automatic causes the adapter to attempt authentication using shared, but switches it to open authentication if shared fails.
 - Open System enables an adapter to attempt authentication regardless of its WEP settings. It will only associate with the access point if the WEP keys on both the adapter and the access point match.
 - Shared-key only allows the adapter to associate with access points that have the same WEP key.

For infrastructure (access point) networks, click Preferred APs... to specify four access points at most to the client adapter that attempts to be associated to the access points. The four access points have different priorities, the frontal has the higher priority.

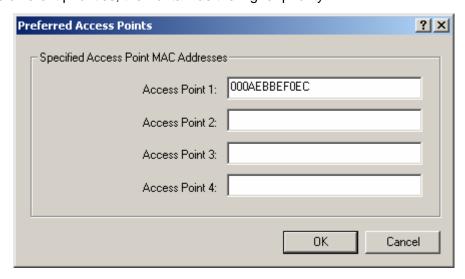


Figure 3-7

3.2.2 Remove a profile

- 1. Go to the Profile Management tab (shown in Figure 3-2).
- 2. Select the profile name in the Profiles List.
- Click Remove.

Note:

The profile being used can't be removed.

3.2.3 **Switch another Profile**

- 1. Go to the Profile Management screen (shown in Figure 3-2).
- Select the profile name required in the Profiles List.
- 3. Click Activate.

3.2.4 **Export a Profile**

- 1. From the Profile Management screen (shown in Figure 3-2), highlight the profile to export.
- 2. Click **Export...**, the Export Profile window will then appear below.

- 3. Browse the directory to export the profile to.
- 4. Click **Save**. The profile should then be exported to the specified location.

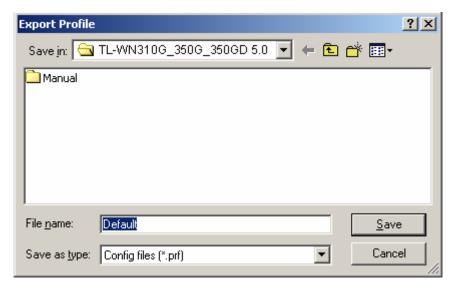


Figure 3-8

3.2.5 Import a Profile

- 1. From the Profile Management screen (shown in Figure 3-2), click **Import...**. Then the Import Profile will appear below.
- 2. Browse to the directory where the profile is located.
- 3. Highlight the profile name.
- 4. Click **Open**, the imported profile will then appear in the Profiles List.

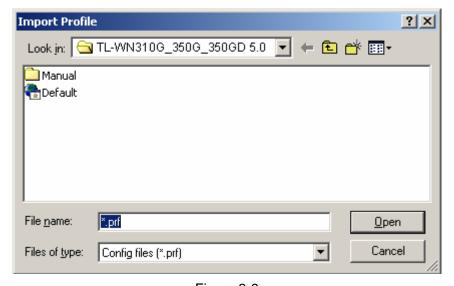


Figure 3-9

3.2.6 Scan Available Networks

- 1. Click **Scan** on the Profile Management screen (shown in Figure 3-2), the Available Infrastructure and Ad Hoc Networks window will appear below.
- 2. Click Refresh to refresh the list at any time.
- 3. Highlight a network name and click **Activate** to connect to an available network. If no configuration profile exists for that network, the Profile Management window will open the

General tab screen. Fill in the Profile name and click **OK** to create the configuration profile for that network.

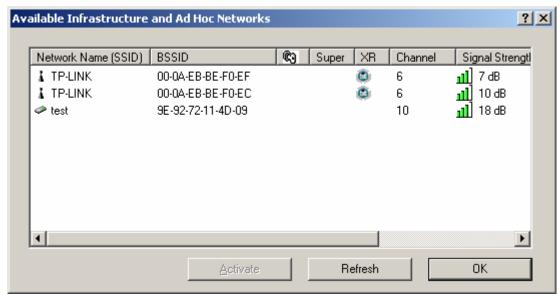


Figure 3-10

3.2.7 Auto Profile Selection Management

The auto selection feature allows the Wireless PCI Adapter to automatically select a profile from the list of profiles and use it to connect to the network. To add a new profile into the Auto Selected Profiles list, please follow these steps.

- 1. On the Profile Management screen (shown in Figure 3-2), click Order Profiles....
- 2. The Auto Profiles Selection management window will appear (shown in Figure 3-11) with a list of all created profiles in the Available Profiles.

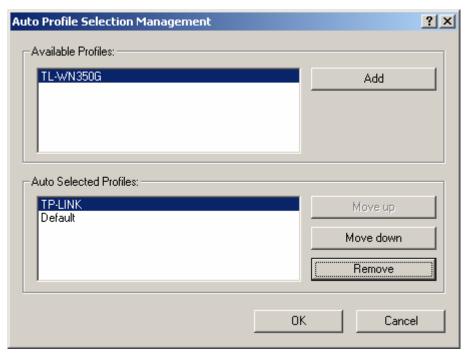


Figure 3-11

3. Highlight the profiles to add to auto profile selection, and click **Add**. The profile will appear in the Auto Selected Profiles box.

- 4. Highlight a profile in the Auto Selected Profiles box.
- 5. Click Move Up or Move Down as appropriate.

Note:

The first profile in the Auto Selected Profiles box has highest priority, and the last profile has the lowest priority.

- 6. Click OK.
- 7. Check the **Auto Select Profiles** checkbox on the **Profile Management** tab (shown in Figure 3-2).

Note:

When auto profile selection is enabled by checking **Auto Select Profiles** on the **Profile Management** tab, the client adapter will scan for an available network. The profile with the highest priority and the same SSID as one of the found networks will be used to connect to the network. If the connection fails, the client adapter will try the next highest priority profile that matches the SSID until an available network is found.

3.3 Diagnostics

The **Diagnostics** tab of the TP-LINK Wireless Client Utility (TWCU) provides buttons used to retrieve receiving and transmitting statistics. The Diagnostics tab does not require any configuration.

The Diagnostics tab lists the following receiving and transmitting diagnostics for frames received or transmitted by the wireless network adapter:

- > Multicast frames transmitted and received
- Broadcast frames transmitted and received
- Unicast frames transmitted and received
- > Total bytes transmitted and received

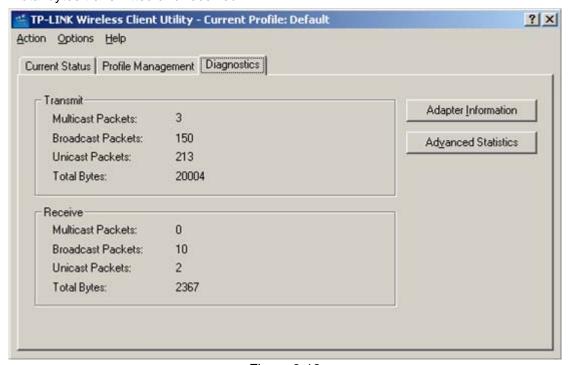


Figure 3-12

3.3.1 Check Driver Information

Click the **Adapter Information** button in the screen above, you will see the adapter information, it contains general information about the wireless network adapter and the Network Driver Interface Specification (NDIS) driver. Access the adapter information from the Diagnostics tab.

- Card Name The name of the wireless network adapter.
- MAC Address The MAC address of the wireless network adapter.
- **Driver -** The driver name and path of the wireless network adapter driver.
- > **Driver Version -** The version of the wireless network adapter driver.
- > **Driver Date -** The creation date of the wireless network adapter driver.
- > Client Name The name of the client computer.

3.3.2 Check Receive and Transmit Statistical Information

The **Advanced Statistics** show receiving and transmitting statistical information for the following receiving and transmitting diagnostics for frames received by or transmitted to the wireless network adapter.

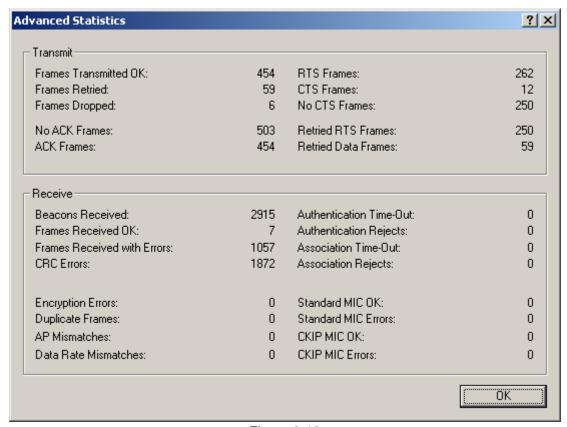


Figure 3-13

Appendix A: Specifications

Normal				
Interface	32 bit PCI Interface			
Standards	IEEE802.11b; IEEE802.11g			
Operating System	Windows 2000, XP			
Transmission Distance	Indoor up to 100m, outdoor up to 300m (Standard transmission			
Transmission distance	distance, it is limited to the environment).			
Radio Data Rate	54/48/36/24/18/12/9/6Mbps or 11/5.5/2/1Mbps			
Radio Data Rate	(Auto Rate Sensing)			
Modulation	1M DBPSK; 2M DQPSK; 5.5M, 11M CCK; 6M, 9M, 12M, 18M,			
Modulation	24M, 36M, 48M, 54M OFDM;			
Media Access Protocol	CSMA/CA with ACK			
Transmit Power	15dBm (Typical)			
Data Security	WPA/WPA2; 64/128/152-bit WEP; TKIP/AES			
Frequency	2.4 ~ 2.4835GHz			
Spread Spectrum	Direct Sequence Spread Spectrum (DSSS)			
Dower Consumption	Typically 500mA in full Transmit (TX), 250mA in full Receive			
Power Consumption	(RX)			
Safety & Emissions	FCC, CE			

Environmental and Physical				
Operating Temp.	0°C~40°C (32°F~104°F)			
Storage Temp.	-40℃-70℃ (-40°F~158°F)			
Humidity	10% - 95% RH, Non-condensing			
Dimensions	5.2×4.8×.9 inch. (133×121×22 mm),			
(W×D×H)				

Appendix B: Glossary

- 802.11b The 802.11b standard specifies a wireless product networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11g specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- Ad-hoc Network An ad-hoc network is a group of computers, each with a Wireless PCI Adapter, connected as an independent 802.11 wireless LAN. Ad-hoc wireless computers operate on a peer-to-peer basis, communicating directly with each other without the use of an access point. Ad-hoc mode is also referred to as an Independent Basic Service Set (IBSS) or as peer-to-peer mode, and is useful at a departmental scale or SOHO operation.
- DSSS (Direct-Sequence Spread Spectrum) DSSS generates a redundant bit pattern for all data transmitted. This bit pattern is called a chip (or chipping code). Even if one or more bits in the chip are damaged during transmission, statistical techniques embedded in the receiver can recover the original data without the need of retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers. However, to an intended receiver (i.e. another wireless LAN endpoint), the DSSS signal is recognized as the only valid signal, and interference is inherently rejected (ignored).
- FHSS (Frequency Hopping Spread Spectrum) FHSS continuously changes (hops) the carrier frequency of a conventional carrier several times per second according to a pseudo-random set of channels. Because a fixed frequency is not used, and only the transmitter and receiver know the hop patterns, interception of FHSS is extremely difficult.
- Infrastructure Network An infrastructure network is a group of computers or other devices, each with a Wireless PCI Adapter, connected as an 802.11 wireless LAN. In infrastructure mode, the wireless devices communicate with each other and to a wired network by first going through an access point. An infrastructure wireless network connected to a wired network is referred to as a Basic Service Set (BSS). A set of two or more BSS in a single network is referred to as an Extended Service Set (ESS). Infrastructure mode is useful at a corporation scale, or when it is necessary to connect the wired and wireless networks.
- Spread Spectrum Spread Spectrum technology is a wideband radio frequency technique developed by the military for use in reliable, secure, mission-critical communications systems. It is designed to trade off bandwidth efficiency for reliability, integrity, and security. In other words, more bandwidth is consumed than in the case of narrowband transmission, but the trade off produces a signal that is, in effect, louder and thus easier to detect, provided that the receiver knows the parameters of the spread-spectrum signal being broadcast. If a receiver is not tuned to the right frequency, a spread-spectrum signal looks like background noise. There are two main alternatives, Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).

- > SSID A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name. See also Wireless Network Name and ESSID.
- ➤ **WEP** (Wired Equivalent Privacy) A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- ➤ Wi-Fi A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- > WLAN (Wireless Local Area Network) A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.
- ➤ WPA (Wi-Fi Protected Access) A wireless security protocol use TKIP (Temporal Key Integrity Protocol) encryption, which can be used in conjunction with a RADIUS server.

Appendix C: Contact Information

For help with the Installation or operation of the TP-LINK TL-WN350G 54M Wireless PCI Adapter, please contact us.

http://www.tp-link.com