

Wireless-N USB Adapter User's Manual



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Preface

Thank you for purchasing the EUSSO Networks Wireless USB Adapter. This manual will assist you with the installation procedure.

Wireless LAN Basics

Wireless LAN (Local Area Networks) systems offer a great number of advantages over a traditional, wired system. Wireless LANs (WLANs) are more flexible, easier to setup and manage, and often are more cost effective than their wired equivalents.

Using radio frequency (RF) technology, WLANs transmit and receive data over the air, minimizing the need for wired connections. Thus, WLANs combine data connectivity with user mobility, and, through simplified configuration, enable movable LANs.

With wireless LANs, users can access shared information without looking for a place to plug in and network managers can set up or augment networks without installing or moving wires. Wireless LANs offer the following productivity, convenience, and cost advantages over traditional wired networks:

- Mobility Wireless LAN systems can provide LAN users with access to real-time information anywhere in their organization. This mobility supports productivity and service opportunities not possible with wired networks.
- Installation Speed and Simplicity Installing a wireless LAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings.
- Installation Flexibility Wireless technology allows the network to go where wires cannot go.
- Reduced Cost-of-Ownership While the initial investment required for wireless LAN hardware might be higher than the cost of wired LAN hardware, overall installation expenses and life-cycle costs will be significantly lower. Long-term cost benefits are greatest in dynamic environments requiring frequent moves, additions, and modifications.
- Scalability Wireless LAN systems can be configured in a variety of topologies to meet the needs of specific applications and installations. Configurations are easily changed and range from peer-to-peer to full infrastructure networks. They also allow roaming over a broad area.

Warning

- Compatibility with IEEE 802.11n future versions is not guaranteed.
- Compatibility with IEEE 802.11n draft devices from other manufacturers is not guaranteed.

Installation Overview

Introduction

Before installing the Wireless USB Adapter, make sure that there is already an Access Point existing on the wireless network. It is necessary for use with the Infrastructure network mode.

Here are some steps you will perform in establishing your wireless network connection:

- Install the USB Driver for the Wireless USB Adapter by using the Install CD.
- Install the Wireless Adapter.
- Configure network protocol(s) required to communicate on your network. Most likely you will need the TCP/IP protocol.

Installation Procedure

Important !! Do not insert the Wireless USB Adapter in your computer before you install the USB driver for the Wireless USB Adapter

Follow the steps below to install the USB driver.

1. Insert the CD into your computer. The following opening **InstallShield Wizard** window will appear:



2. The InstallShield Wizard window will appear as follows. Please click Next.



3. Now, you can insert the Wireless USB Adapter into the USB port of your computer.



4. The default destination folder will be specified in this **InstallShield Wizard** window. Also, you can click **Browse...** to choose another folder for storing the driver. Click **Next**.

WLAN Monitor - InstallShield Wizard		×
Choose Destination Location Select folder where setup will install files.		
Setup will install WLAN Monitor in the following	g folder.	
To install to this folder, click Next. To install to another folder.	a different folder, click Browse and select	
Destination Folder		
C:\Program Files\Normal\WLAN Monitor\	B <u>r</u> owse	
nstallShield		
	< <u>B</u> ack <u>Next></u> Cancel	

5. A default Program Folder will be offered by the setup program in this **InstallShield Wizard** window. If you do not want to change it, simply click **Next**.

WLAN Monitor - InstallShield Wizard Select Program Folder Please select a program folder.	X
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folder: NormatWLAN Monitor Existing Folders: Accessories Startup	
InstallShield	

6. The setup program executes the installation by copying corresponding files to your computer in this **InstallShield Wizard** window.

X
_

7. Now the system will ask you to restart your computer to complete the whole installation. After choosing the proper setting, please click **Finish**.

WLAN Monitor - InstallShie	eld Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed WLAN Monitor. Before you can use the program, you must restart your computer. Yes, I want to restart my computer now No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	< Back Finish Cancel

8. After restarting your computer, the system will find the hardware (wireless LAN card) automatically. When it is located, a message will be shown on the system tray.

	IEEE802.11b/g/n Wireless USB Adapter AP: default
<) 👽 🕬 🕵 🍸 🕨 🐠 🛲 - 11:13 AM 👘

9. Now, you can find the Wireless USB Adapter utility icon in the system tray. Double-click it to open the configuration window of Wireless USB Adapter.



Uninstalling the USB Driver

If you want to remove the driver for this wireless card, please do the following:

1. Run Start > Programs > Normal > WLAN Monitor > Utility Uninstallation.



2. The following InstallShield Wizard window will appear:



3. When the following **Confirm Uninstall** window appears, please click **OK**.

Confirm Uninstall	\mathbf{X}
Do you want to completely remove the	selected application and all of its features?
OK	Cancel

4. Now, the system will start to remove the corresponding files in the following **InstallShield Wizard** window.

WLAN Monitor - InstallSh Setup Status	ield Wizard		×
WLAN Monitor is configurin	g your new software installati	ion.	
1			
nstallShield			
		C	ancel



5. When the following InstallShield Wizard window appears, click Finish.

Configuration

Wireless USB Adapter Utility

After the driver installation is finished, it is the time to configure the wireless utility for accessing the Internet through a wireless connection. Double-click the Wireless USB Adapter utility icon on the system tray. Or open the wireless monitor utility by clicking **Start** > **Programs** > **Normal** > **WLAN Monitor**.



The **WLAN Monitor** window will appear as follows. The software will scan and display available wireless Access Points automatically.

WLAN Monitor						
Configuration Status	Option About					
- Available WLANs:	·					
To connect to available	e WLAN			(R <u>e</u> fresh	<u>C</u> onnect
SSID 🛆	MAC(BS	SID)	Signal	Secur	ity	СН 🛛 🔼
1	00:19:5B:EF	:03:AD 🛛 👼	42%	Disa	ble	6
i i	00:01:71:93	3:22:01 🛛 👼	ן 38%	🗪 WF	PA -	6
1/	00:19:5B:EF	:48:E8 🏾 👼	J 34%	🗪 WPA / W	/PA2	1
👗 000A79A2BC63	00:0A:79:A2	2:BC:62 🛛 着	34%	🕬 WPA7W	/PA2	4
👗 11g-2702	00:80:C8:00):27:09 🛛 👼	62%	🕬 🛛 WPA2	_PSK	1
1 3800DHCP_i15	04:13:9A:B8	3:A0:13 🛛 着	_{22%}	Disa	ble	5 💌
Protile <u>G</u> roup Control – Please select a profile g	group to apply : Auto	omatically conr	ect to availab	ole WLAN per b	elow order:	Move to
	Rename	P default	Oper	n Sy	Remo <u>v</u> e	
				H	Properties <u>R</u> e-Co	Import
				ок	Cancel	Apply

This chapter will introduce each tab in detail. Also, an example of configuration will be provided for your reference.

Configuration

The Wireless USB Adapter utility will find all the available Access Points and then list them automatically for you to choose from. The following figure is just an example. The actual available list depends on the AP(s) that are found around your computer system.

WLAN Monitor						
Configuration Status	Option About					
Available WLANs: To connect to available	• WLAN				R <u>e</u> fresh <u>C</u> or	nnect
SSID 🛆	M/	AC(BSSID)	Signal	Security	СН	
i	00:19	58:EF:03:AD	a l 42%	Disab	le 6	
i i	00:01	:71:93:22:01	🚮 38%	🗪 🛛 WPA	۰ G	
1/	00:19	:5B:EF:48:E8	🔊 34%	🗪 WPA / WF	A2 1	
👗 000A79A2BC63	00:QA	:79:A2:BC:62	a l 34%	🗪 WPA / WF	PA2 4	
👗 11g-2702	00:80	:C8:00:27:09	a 62%	🕬 WPA2_F	PSK 1	
1 3800DHCP_i15	04:13	:9A:B8:A0:13	🔊 22%	Disab	le 5	×
Profile <u>G</u> roup Control – Please select a profile <u>c</u>	group to apply :	Automatically c	Ns: onnect to availab	le WLAN per bel	ow order:	
	Rename	R defa	ult Oper	n Sy		xport
	Delete Select				Pr <u>o</u> pertiesn <u>R</u> e-Connec	t
				ок	Cancel	Apply

In the Available WLANs section, you can see:

Å

 \mathbf{Q}

SSID

This displays the SSID of the AP.

This means the AP is ready for you to connect.

This means a successful connection to an AP.

This means the connection has failed.

If there are many available APs, scroll bars will appear for the user to scroll and select the preferred AP. Please select the Access Point that you want to connect to for accessing the Internet.

MAC (BSSID)	This is the MAC address of the current wireless card.
Signal	The greater the percentage, the better the link quality will be.
Security	This displays the security method that the AP is using.
СН	This displays the connection channel that the AP is using.
Refresh	This button can initiate a new search for available APs on the wireless network whenever the user clicks it. In addition, the whole list will be periodically refreshed automatically.

Connect

This button starts the process of creating a connection between the station (client) and the AP.

In the Profile Group Control section, you can see:

Profile <u>G</u> roup Control Please select a profile group to apply :		
three	Ne <u>w</u>	
	Rena <u>m</u> e	
	Delete	
	Selec <u>t</u>	

New

This allows you to add a new profile to group several APs. Click **New** to open the following dialog box. Type a new name in the box and click **OK**.

Group Rename 🛛 🔀	
Please input the new name for this group	
three	
OK Cancel	

The new group with the name you typed will be shown as the following.

- Profile <u>G</u> roup Control Please select a profile group to apply :				
New				
💡 three	Rena <u>m</u> e			
	Delete			
	Selec <u>t</u>			

This allows you to modify the selected profile name. This allows you to delete the selected profile.

Wireless Network Configuration
Please kindly notice that delete the group that it will contain all profile of the group. Are you sure?
Yes No

This allows you to select one profile for use.

Delete

Rename

Select

In the Preferred WLANs section, you can see:

SSID	This displays the SSID of the AP.
Security	This displays the security method that the AP is using.
New	This allows you to add a new profile.
Move to	This allows you to move a selected profile to another profil

This allows you to move a selected profile to another profile group. After clicking this button, the following dialog will appear for you to assign which group that you want to move to.

M	love to another group 🔀
	Please select a group :
	✔ Group-1 Group-2
	OK Cancel

This allows you to select and remove one of the existing profiles.

This allows you to save the profile record as a file with the file format .AWP. Please type the required password as shown in the following dialog.

Profile Password		
Input profile password: Confirm again :		
<u> </u>	Cancel	

Properties This displays properties of the current connected AP.

This allows you to load a pre-saved profile record into a currently connected AP. When you want to import such a profile, you have to type the correct password for that AWP file.

Profile Password			×
Input profile password:	***		
<u> </u>		Cancel	

Re-Connect

Remove

Export

Import

This allows you to select one of the existing profiles to apply with a currently connected Access Point.

To add a new WLAN AP, please click New to open the following dialog.

Wireless network <u>n</u> s Wireless network This network requ	ame (SSI <mark>key</mark> uires a ka	ID): ey for the following:			
A <u>u</u> thentication Mo	ode:	Open System	~		
Data <u>E</u> ncryption:		Disable	~		
Key <u>l</u> ength:	54 bits (4	40+24) - 10 Hexadecimal digit	~		
Default <u>k</u> ey:	Key 1		~		
Network Key :					
Con <u>f</u> irm Key					
Enable 802.1X					
Authentication Config					
This is a computer to computer (ad hoc) network; no access points are used.					
IP & Proxy Setting OK Cancel					

Different authentication mode will guide different data encryption, key length, default key, and so on.

Wireless network name (SSID)	Please type the name for the AP or wireless router you want to connect to.				
Authentication Mode	There are six modes provided for you to choose for data encryption.				
	Authentication Mode: Open System 🗸				
	Data Encryption: Open System Shared Shared Kar				
	Key length: 64 bits (WPA				
	Default key: Key 1 WPA-PSK WPA2 WPA2_PSK				
	37 . 1 72				
Data Encryption	For Open System/Shared Key and Open System , the data encryption can be disabled or assigned with WEP.	ופ ו			
	Data Encryption: Disable Disable Key length: 64 bits (WEP				
	For Shared , WPA , WPA-PSK , WPA2 , and WPA2_PSK , data encryption can be TKIP or AES . You have to choose one which is the same with the setting configured in the AF you want to connect to.	the the ' that			
	Authentication Mode: WPA				

A <u>u</u> thentication Mode:	WPA	۲
Data <u>E</u> ncryption:	TKIP	~
Key length: 64 bits (4	TKIP AES	

Key LengthChoose the key length for the wireless card. The method you
choose here must be the same as the method set in the
connected AP.

Key <u>l</u> ength:	64 bits (40+24) - 10Hexadecimal digit 💌
Default <u>k</u> ey:	64 bits (40+24) - 10 Hexadecimal digits 128 bits (104+24) - 26 Hexadecimal digits
Network <u>K</u> ey :	64 bits (40+24) - 5 ASCII digits 128 bits (104+24) - 13 ASCII digits

The number you typed here should be the same as the number set in the connected AP. According to the input method you selected, the characters that you have to set will differ.

For **10/26 Hexadecimal digits:** Type 10/26 hexadecimal numbers in this field.

For **5/13 ASCII digits**: Type 5/13 ASCII characters in this field.

Default Key Specify the Default Key which is the same as the setting in the connected AP.

Default <u>k</u> ey:	Key 1	~
Network <u>K</u> ey :	Key 1 Key 2 Key 2	
Con <u>f</u> irm Key	Key 4	

Enable 802.1X This will be available when you choose Open System.

Authentication Config

This button will be available after you tick the **Enable 802.1X**

check box. You have to type the same parameters as set in the connected AP. Otherwise the connection will not be successful.

Advance Security Set	tings 🛛 🔀
WPA-PSK]
WPA <u>P</u> assphrase	
Check Passp <u>h</u> rs	se J
ЕАР Туре	
<u>Е</u> АР Туре:	EAP-TLS 🔽
Certificate	
Uger Certificate	✓
📃 <u>V</u> alidate Server	Certificate
User Information	
<u>U</u> ser Name	Domain Name
Pass <u>w</u> ord	
Confirm Password	
TTLS Identity	
<u>T</u> TLS Identity	
Trust CA List	
	Add
	Remove
	<u>OK</u> <u>C</u> ancel

WPA Passphrase - Type the password for authentication with AP while using WPA PSK mode.

Check Passphrase - Tick this check box to allow the characters of passwords to be visible.

EAP Type - A type for authentication between station and RADIUS server while executing 802.1X mode. For some EAP types, you have to choose a sub-item from the drop-down menu on its right side for using together. Refer to the following sample graphics.

<u>Е</u> АР Туре:	PEAP 🔽
e er Certificate	EAP-TLS LEAP EAP-TTLS PEAP

EAP Type: EAP-TTLS	*	PAP	*
e er Certificate lidate Server Certificate		PAP CHAP MSCHAP MSCHAPV2 EAP-MD5 EAP-Token Card EAP-MSCHAPV2	
EAP Type: PEAP	~	EAP-MD5 EAP-MD5 FAP-Token Card	~
- Contribute		EAP-MSCHAPV2	

User Certificate – The RADIUS server will assign a user certificate for users. Type the characters in this box.

Validate Server Certificate - Tick this check box to validate the server certificate for RADIUS server.

User Name - Type the certificate account for the RADIUS server.

Domain Name - Type the domain name for the RADIUS server. **Password** – Type the password for connection in WPA-PSK mode.

Confirm Password - Type the password again to confirm it. **TTLS Identify** – Type the TTLS ID for the RADIUS server.

Add – You can add a trusted CA server by clicking **Add**. The following dialog will appear for you to enter a new name.

-

Remove – For a CA server which is not wanted, please select it from the Trusted CA List and then click this button to delete it.

IP & Proxy Setting

This setting allows you to set the IP and proxy. Please click this button to open the following window.

LAN Settings			×
IP Config ProxySetting			
🗹 Obtain an IP address automatica	llv		
_ IP address setting			_
IP address:			
<u>S</u> ubnet mask:	1.1		
Default gateway:			
Preferred DNS server: Alternate DNS server:			
- WINS address setting			_
Primary <u>W</u> INS:			
S <u>e</u> condary WINS:			
		<u>O</u> K	Cancel

Obtain an IP address automatically – Tick this check box to get an IP address automatically for the wireless card. If you do not tick this check box, you have to type the IP address, subnet mask, and default gateway manually.

IP Address – Type the LAN IP address for the wireless card. **Subnet mask** – Type the subnet mask for the wireless card. **Default gateway** – Type the default gateway for the wireless card.

Obtain DNS server address automatically - Tick this check box to get a DNS server address automatically. If you do not tick this check box, you have to type a Preferred DNS server address and Alternative DNS server manually.

Preferred DNS server – Type the address for the primary DNS server.

Alternate DNS server – Type the address for the secondary DNS server.

Primary WINS - Type the IP address for the primary WINS.

Secondary WINS - Type the IP address for the secondary WINS.

To set a proxy setting, click the **ProxySetting** tab. The following window appears:

LAN Settings	
IP Config ProxySetting	
- Automatic Configuration	
Automatically detect settings	
Use automatic configuration script	
A <u>d</u> dress	
Proxy Server	
Use a proxy server for LAN.	
Bypass proxy server for local addresses.	
<u>H</u> TTP :	Port :
Use the same proxy server for all protocols.	
Secure :	Port :
<u>F</u> TP :	Port :
Gopher:	Port :
Soc <u>k</u> s :	Port :
Exceptions	
Do not use proxy server for address beginning	with :
(null)	
Use semicolons(;) to separate entrys.	
	<u>2K Cancel</u>

Automatically detect settings – Tick this check box to allow the system to detect proxy settings automatically.

Use automatic configuration script – Tick this check box to use the configuration script automatically according to the IP address typed below.

Address - Type the LAN IP address to get the configuration information for the proxy.

Use a proxy server for LAN – Tick this check box to enable the proxy server to be used for the LAN.

Bypass proxy server for local address – The proxy server will not be used for a local address if you tick this check box.

HTTP/Port – Type the proxy IP and port number used for HTTP.

Use the same proxy server for all protocols - Tick this check

box to make all the protocols use the same proxy server. Secure/Port – Type the proxy IP and port number for security. FTP/Port - Type proxy IP and port number for FTP. Gopher/Port – Type the proxy IP and port number for Gopher. Socks/Port - Type the proxy IP and port number for Socks. Do not use proxy server for address beginning with - Type the heading of the IP address that you do not want to use as a proxy server.

Status

This tab provides connection status and hardware information for the device. To view this tab, simply click **Status** on the **WLAN Monitor** window.

WLAN Monitor		
Configuration Status Option About		
Connection State		
Connection Status :	Conne	cted
SSID:	de	fault
BSSID:	00:11:95:C7:F0	6:7E
Network Type :	Infrastruc	sture
Frequency :	802.11g-2.4	GHz
Channel :		6
Data Encryption :	Dis	able
Speed :	54.0 M	1bps
Authentication State :	Conne	cted
Signal Strength :		\Box
Hardware Information	- Advance State	
MAC Address : 00:18:02:32:8C:8D	Radio Status:	ON
Regulatory Domain : FCC		
	OK Can	cel Apply

Connection Status	This displays the current status of the connection.		
SSID	This displays the SSID of the AP that your computer is connected to.		
BSSID	This displays the MAC address for the current device.		
Network Type	This displays the mode (Infrastructure or Ad-Hoc) that you set for connecting to the AP.		
Frequency	This displays the frequency that this wireless card is using.		
Channel	This displays the channel being used by this wireless card.		
Data Encryption	This displays the encryption type of the authentication mode being used for this wireless card.		
Speed	This displays the current transferring rate for the link.		
Authentication State	This displays the encryption status for the connection.		
Signal Strength	The longer the signal strength red bar, the better the connection will be. The graph is active only when you choose Access Point as the network type.		

MAC Address	This displays the MAC address for the AP or the wireless router that the station is connected to.
Regulatory Domain	This displays the Regulatory Domain for different areas. For example, it will display ETSI (CH1~CH13) for nations in Europe, FCC (CH1~CH11) for USA, etc.
Radio Status	This displays whether the wireless card is ON or OFF.

Option

This tab displays miscellaneous options. To view this tab, simply click **Option** on the **WLAN Monitor** window.

Vigor N61 802.11n Wireless USB Adapter Utility			×
Configuration Status Option About			
General Setting	Advance Setting		
🗹 Auto launch when Windows <u>s</u> tart up	🔲 Disable <u>R</u> adio		
Remember mini status position	<u>Fragmentation</u> Threshold :	2346	
🗌 Auto <u>h</u> ide mini status	RTS Threshold :	2347	
Set <u>m</u> ini status always on top	Frequency :	802.11b/g/n - 2.4GH 💌	
Enable IP Setting and Proxy Setting in Profile	Ad-hoc <u>C</u> hannel:	1	
Group Roaming Ad-hoc	Po <u>w</u> er Save Mode:	Disable	
	Tx <u>B</u> urst :	Disable 🗸	
- WLAN type to connect			
Infrastructure and Ad-hoc <u>n</u> etwork			
O Infrastructure network only			
O Ad-hoc network only			
Automatically connect to non-preferred networks			
	`		
	OK (Cancel Apply	7

Auto launch when Windows start up	Tick this check box to launch the wireless connection when Windows starts up. If you do not tick this check box, you must launch the wireless connection manually.
Remember mini status position	Tick this check box to remember and fix the position of the mini status dialog.
Auto hide mini status	Tick this check box to hide the mini status icon that appears at the right bottom corner of the desktop.
Set mini status always on top	Tick this check box to set the mini status icon to be displayed on the top of the desktop.
Enable IP Setting and Proxy Setting in Profile	Check this box to enable IP setting and Proxy Setting in profile. Refer to IP & Proxy Setting on page 20 for more information.
Group Roaming	You can configure several groups with different APs. The wireless card allows the station to be roamed among different groups of APs. Simply tick this check box to enable group roaming.
Infrastructure and Ad-hoc network	Infrastructure and Ad-hoc network are the common two types for connection through wireless LAN. Click this radio button to

	select the suitable type for your device.		
Infrastructure network only	Click this radio button to use infrastructure network only.		
Ad-hoc network only	Click this radio button to use ad-hoc network only.		
Automatically connect to non-preferred networks	Tick this check box to allow your wireless card to connect to any non-preferred networks if the network you want to connect to has failed.		
Disable Radio	Tick this check box to o wireless card.	disable the connection function of this	
Fragmentation Threshold	Set the value for the fra is 2346.	gmentation threshold. The default value	
RTS Threshold	Set the value for the RT	FS threshold. The default value is 2347.	
Frequency	Choose the wireless fre	equency for this card.	
	Frequency :	802.11b/g/n - 2.4GH 802.11b-2.4GHz 802.11b/g-2.4GHz 802.11b/g/n - 2.4GHz	
Ad-hoc Channel	Choose one channel. The	his must match the channel set in the AP.	
	Ad-hoc <u>Channel</u> :	1 V 2 3 4 5 6 7 8 9 10 11 12 13	
Power Save Mode	To save power, you can choose Max Save or Fast Save . The default setting is Disable .		
	Power Save Mode: MaxSave – This can sa signal will be significan FastSave- This is the s Disable – Power will n be better.	Disable Disable Max Save Fast Save To a lot of power. However, the wireless on the waker. tandard mode for power saving. ot be saved, yet the wireless signal will	
Tx Burst	Such a function can inc short time. Choose Ena choose Disable to deac Tx <u>Burst</u> :	erease the data transmission rate within a able to activate the function, otherwise, tivate the function. Disable Disable Enable	

About

This tab provides software information such as utility version and driver versions. To view this tab, simply click **About** on the **WLAN Monitor** window.

LAN Monitor	
Configuration Status Option About	
Utility Version :	V3.0.44.0831
Driver Version :	1.00.04.0000
Secured b	y Odyssey
Copyright 2007, Normal Corp	oration. All Rights Reserved.
	OK Cancel Apoly

Utility VersionThis displays the version number of the utility.Driver VersionThis displays the driver version of the wireless card.

Miscellaneous

Windows Zero Configuration

Each time you power on your computer, the wireless monitor utility will be activated automatically once you have configured your PC. If you do not want the wireless monitor utility to be opened automatically, but prefer to simply enable the wireless connection, activate Windows Zero Configuration.

First, you have to check if Windows Zero Configuration is enabled or not. Go to **Start** > **Settings** > **Control Panel** and double-click **System Administrative Tools** > **Service**. The **Services** window will appear as follows.

Services							
File Action View	Help						
🖪 😭	3 🖳 🔮 🕨 🗉 🗉 🕬						
Services (Local)	Services (Local)						
			1		1	1 1	
	Wireless Zero Configuration	Name A	Description	Status	Startup Type	Log On As	
	Charle blas associate	RT73 USB Wireless LAN Card Serv	Wireless LAN Service	Started	Automatic	Local System	
	Start the service	Secondary Logon	Enables starting processes	Started	Automatic	Local System	
		Security Accounts Manager	Stores security informatio	Started	Automatic	Local System	
	Description:	Security Center	Monitors system security s	Started	Automatic	Local System	
	Provides automatic configuration for the 802-11 adapters	Server .	Supports file, print, and n	Started	Automatic	Local System	
	002.11 adapters	Shell Hardware Detection		Started	Automatic	Local System	
		Simple Mail Transfer Protocol (SMTP)	Transports electronic mail	Started	Automatic	Local System	
		🎭 Smart Card	Manages access to smart		Manual	Local Service	
		SSDP Discovery Service	Enables discovery of UPnP	Started	Automatic	Local Service	
		🎇 System Event Notification	Tracks system events suc	Started	Automatic	Local System	
		🎭 System Restore Service	Performs system restore f		Automatic	Local System	
		🆓 Task Scheduler	Enables a user to configur	Started	Automatic	Local System	
		🎭 TCP/IP NetBIOS Helper	Enables support for NetBI	Started	Automatic	Local Service	
		n Telephony	Provides Telephony API (T	Started	Manual	Local System	
		💑 Telnet	Enables a remote user to I		Manual	Local System	
		Terminal Services	Allows multiple users to be	Started	Manual	Local System	
		Themes	Provides user experience t	Started	Automatic	Local System	
		uninterruptible Power Supply	Manages an uninterruptibl		Manual	Local System	
		Universal Plug and Play Device Host	Provides support to host U	Started	Automatic	Local Service	
		WW VNC Server Version 4		Started	Automatic	Local System	
		Volume Shadow Conv	Manages and implements	Dealers	Manual	Local System	
		WebClient	Enables Windows-based n	Started	Automatic	Local Service	
		Windows Audio	Manages audio devices for	Started	Automatic	Local System	
		Windows Firewall/Internet Conne	Provides petwork address	Started	Automatic	Local System	
		Windows Image Acquisition (WIA)	Provides image acquisition	Started	Manual	Local System	
		Windows Intage Acquisition (WIA)	Adds modifies and remou	Started	Manual	Local System	
		Windows Management Instrumen	Provides a common interfe	Startad	Automatic	Local System	
		Windows Management Instrumen	Provides a common interna	Juarted	Magual	Local System	
		Battlin daws Management Instrumen	Provides systems manage	Chauterd	Manual	Local System	
		windows time	maintains date and time sy	started	Aucomatic	Local System	
		Several Configuration	Provides automatic config		Automatic	Local System	
		weil Performance Adapter	Provides performance libra		Manual	Local System	
		www.workstation	Creates and maintains clie	Started	Automatic	Local System	
	Extended Standard	an word was was fublishing	Disourded Web connectivity	Started	Outomatic	Local Suctors	

Locate Wireless Zero Configuration. If you find that the status of WZC is not enabled, please click the wireless monitor utility icon and choose **Enable Windows Zero Configuration** (WZC) to activate it.



Then follow the steps below to configure WZC.

1. Double-click the wireless connection icon in the system tray.



2. Next, the following window will appear.



3. Click **Change Advanced Settings** and the following window will open. Next, click the **Wireless Networks** tab.

🕹 Wireless Network Connection 5 Properties 👘 🕐 🔀		
General Wireless Networks Advanced		
✓ Use Windows to configure my wireless network settings		
Available networks:		
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.		
View Wireless Networks		
Preferred networks: Automatically connect to available networks in the order listed below: Move up		
Move <u>d</u> own Add Remove Properties		
Learn about <u>setting up wireless network</u> Advanced		
OK Cancel		

4. Click **Add** to open the next window. In this window, type the SSID of the AP that you want to connect with the wireless card. Here, **Tom** is entered as an example. Choose WPA-PSK as the Network Authentication method and TKIP as the Data encryption method. Then, enter the encryption key characters.

Wireless network properties			? 🔀		
Association	Authentication	Connection			
Network <u>n</u> a	ame (SSID):				
Wireless	network key —				
This netv	This network requires a key for the following:				
Network	Authentication:	WPA-PSK	~		
<u>D</u> ata end	cryption:	TKIP	~		
Network	<u>k</u> ey:	•••••			
C <u>o</u> nfirm n	ietwork key:	•••••			
Key inde <u>;</u>	g (advanced):	1			
🗌 T <u>h</u> e k	The key is provided for me automatically				
This is a <u>computer-to-computer</u> (ad hoc) network; wireless access points are not used					
		ОК	Cancel		

The type for Network Authentication, Data encryption, and the keys must be the same values as configured in the AP that you want to connect to.

5. Click the **Authentication** tab. Choose the EAP type which is the same as configured in the AP.

Wireless network properties			
Association Authentication Connection	_		
Select this option to provide authenticated network access for wireless Ethernet networks.			
EAP type: Smart Card or other Certificate Protected EAP (PEAP) Smart Card or other Certificate Properties			
 Authenticate as computer when computer information is available Authenticate as guest when user or computer information is unavailable 			
OK Cance			

- 6. After clicking **OK**, the wireless station can be associated with the AP.
- 7. Open the **Wireless Network Connection** window. Please choose "Tom" (as an example) and then click **Connect**.



8. The wireless connection process will begin. Please wait for it to complete.

Wireless Network Connectio	n 🔀
	• • •
Please wait while Windows connec network.	ts to the 'Tom '
Detecting network type	
	Cancel

9. The wireless connection has now been established and you are ready to use your WLAN.