



**ASUS<sup>®</sup>**

**RT-N11**

EZ Wireless N Router / EZ Wireless N 無線路由器



## **User Manual**

**E3813 First Edition May 2008**





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## Specification Summary

<b>Network Standard</b>	Compatible with 802.11b/g/n, 802.3, 802.3u, 802.1x, 802.11i, IPv4, CSMA/CA, CSMA/CD, ICMP
<b>Operating Frequency</b>	2.4G ~ 2.483GHz
<b>Operation Channel</b>	11 for N. America, 14 Japan, 13 Europe (ETSI)
<b>Ethernet Port</b>	WAN x 1, LAN x 4 RJ45 for 10/100 BaseT
<b>Antenna</b>	2 External Detachable Antenna
<b>WPS Button</b>	Support WPS (Wi-Fi Protection Setup) Push Button and PIN Code Setup
<b>LED</b>	Power x 1, AIR x 1, WAN x 1, LAN x 4
<b>Security</b>	64/128 -bit WEP, WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, WPA-Auto (TKIP/AES), WPA2-Auto (TKIP/AES), Radius with 802.1x
<b>Firewall &amp; Access Control</b>	NAT Firewall, SPI (Stateful Package Inspection) Firewall, WAN Ping Control, Domain Access Control, URL Filter, MAC Filter, Inbound/Outbound Packet Filter, DoS Detection
<b>VPN Support</b>	IPSec / PPTP / L2TP Pass-Through
<b>Quality of Service</b>	WMM (Wi-Fi multimedia) Customizable QoS rules
<b>Advanced Network</b>	Support up to 4 Multiple BSSIDs/ESSIDs, VLANs
<b>Network Management</b>	Support SNMP, IGMP, UPnP, DHCP, DNS Proxy, NTP Client, DDNS, Port Trigger, Virtual Server, Virtual DMZ, VPN Pass-Through, WDS
<b>Power Supply</b>	+5V with max. 1.2A current Note: Use only the adapter included in the package. Using other adapters may damage the device.
<b>Temperature</b>	Operating: 0~40°C Storage: -10~70°C
<b>Humidity</b>	Operating: 10-90% Storage: 0~90%
<b>Dimension</b>	179 x 119 x 37 (L x W x H) mm
<b>Weight</b>	310g

\* All specifications are subject to change without notice.

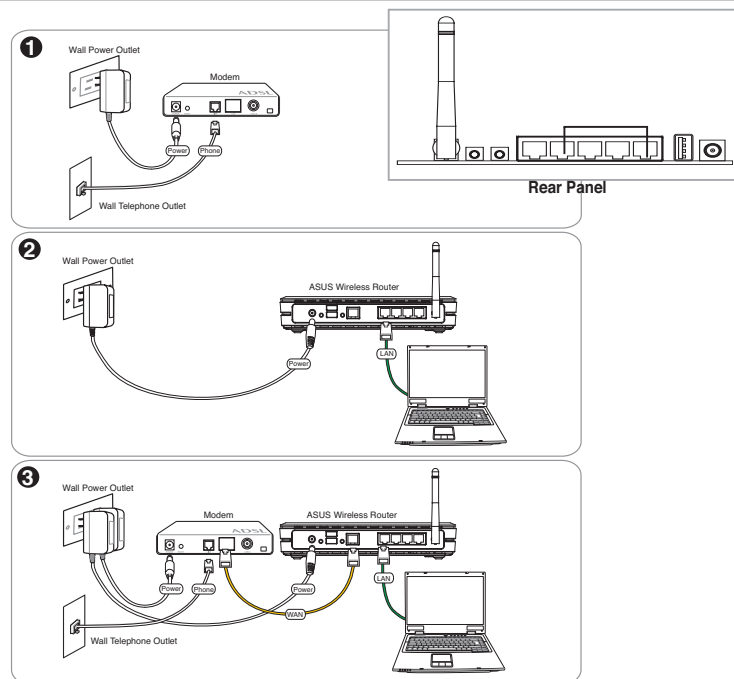


## 1. Package Contents

- RT-N11 Wireless Router x 1
- Power Adapter x 1
- Docking Stand x 1
- Utility CD x 1
- RJ-45 cable x 1

## 2. Connecting ADSL Modem and Wireless Router

### 1) Cable connection

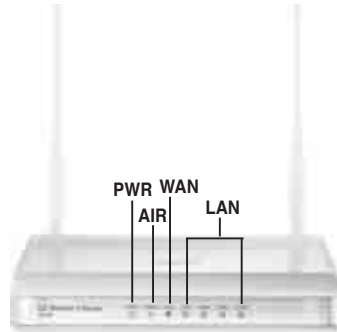


**Note:** Use only the adapter included in the package. Using other adapters may damage the device.

**Note:** The device in the above illustration is for your reference only. Please refer to your package for the real product.



## 2) Status Indicators



### PWR (Power)

Off	No power
On	System ready
Flashing-slow	Firmware upgrade failed/Rescue Mode
Flashing-quick	EZsetup processing/Rescue Mode

### AIR (Wireless Network)

Off	No power
On	Wireless system ready/Radio-off
Flashing	Transmitting or receiving data (Through Wireless)

### WAN (Wide Area Network)

Off	No power or no physical connection
On	Has physical connection to an Ethernet network
Flashing	Transmitting or receiving data (Through Ethernet Cable)

### LAN 1-4 (Local Area Network)

Off	No power or no physical connection
On	Has physical connection to an Ethernet network
Flashing	Transmitting or receiving data (Through Ethernet Cable)

## 3) Wall Mounting Option

Out of the box, ASUS RT-N11 Wireless Router is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

Follow these steps to mount the ASUS Wireless Router to a wall:

1. Look on the underside for the two mounting hooks.
2. Mark two upper holes in a flat surface.
3. Tighten two screws until only 1/4" is showing.
4. Latch the hooks of the ASUS Wireless Router onto the screws.



**Note:** Re-adjust the screws if you cannot latch the ASUS Wireless Router onto the screws or if it is too loose.


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## 3. Getting Started

The ASUS RT-N11 Wireless Router can meet various working scenarios with proper configuration. The default settings of the wireless router may need change so as to meet your individual needs. Therefore, before using the ASUS Wireless Router, check the basic settings to make sure they all work in your environment.

ASUS provides a utility named EZSetup for fast wireless configuration. If you would like to use EZSetup for your wireless network configuration, refer to chapter 6 for details.

 **Note:** Wired connection for initial configuration is recommended to avoid possible setup problems due to wireless uncertainty.

### 1) Wired Connection

The ASUS RT-N11 Wireless Router is supplied with an Ethernet cable in the package. Since the ASUS Wireless Router has integrated auto-crossover function, therefore, you can use either straight-through or crossover cable for wired connection. Plug one end of the cable to the LAN port on the rear panel of the router and the other end to the Ethernet port on your PC.

### 2) Wireless Connection


For establishing wireless connection, you need an IEEE 802.11b/g compatible WLAN card. Refer to your wireless adapter user manual for wireless connection procedures. By default, the SSID of ASUS Wireless Router is "default" (in lower case), encryption is disabled and open system authentication is used.

### 3) Setting IP Address for Wired or Wireless Connection

To access RT-N11 Wireless Router, you must have correct TCP/IP settings on your wired or wireless clients. Set the IP addresses of the clients within the same subnet of RT-N11.

#### Getting IP address Automatically

The ASUS Wireless Router integrates DHCP server functions, therefore, you can make your PC get IP address automatically from the ASUS Wireless Router.

 **Note:** Before rebooting your PC, switch ON the wireless router and make sure the router is in ready state.

#### Setting up IP address Manually

To set IP address manually, you need to know the default settings of the ASUS Wireless Router:

- IP address 192.168.1.1
- Subnet Mask 255.255.255.0



To set up the connection with a manually assigned IP address, the address of your PC and the wireless router must be within the same subnet:

- IP address: 192.168.1.xxx (xxx can be any number between 2 and 254. Make sure the IP address is not used by other device)
- Subnet Mask: 255.255.255.0 (same as RT-N11)
- Gateway: 192.168.1.1 (IP address of RT-N11)
- DNS: 192.168.1.1 (RT-N11), or assign a known DNS server in your network.



#### 4) Configuring the Wireless Router



Enter the following address in your web browser: <http://192.168.1.1>



**Defaults**

User name: **admin** Password: **admin**

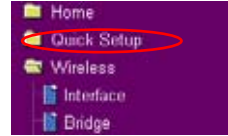


After logging in, you can see the ASUS Wireless Router home page. The homepage displays quick links to configure the main features of the wireless router.



## 5) Quick Setup

To start quick setup, click **Next** to enter the “Quick Setup” page. Follow the instructions to setup the ASUS Wireless Router.



1. Select your time zone and click **Next**.

2. ASUS Wireless Router supports five types of ISP services: cable, PPPoE, PPTP, static WAN IP, and Telstra BigPond. Select your connection type and click **Next** to continue.

### Cable or dynamic IP user

If you are using services provided by cable ISP, select **Cable Modem or other connection that gets IP automatically**. If your ISP provides you hostname, MAC address, and heartbeat server address, fill these information into the boxes on the setting page; if not, click **Next** to skip this step.

### PPPoE user

If you use PPPoE service, select **ADSL connection that requires username and password**. It is known as PPPoE. You need to input the username and password provided by your ISP. Click **Next** to continue.

### PPTP user

If you are using PPTP services, select **ADSL connection that requires username, password and IP address**. Fill in the username, password and IP address provided by your ISP into the fields. Click **Next** to continue.

### Static IP user

If you are using ADSL or other connection type that uses static IP address, select **ADSL or other connection type that uses static IP address**. Input the IP address, subnet mask, and default gateway provided by your ISP. You can specify DNS servers, or get DNS information automatically.

- After the connection type setting is complete, you are to set up your wireless interface. Specify to your wireless router an SSID (Service Set Identifier), which is a unique identifier attached to packets sent over WLAN. This identifier emulates a password when a device attempts to communicate with your wireless router via WLAN.

If you want to protect transmitted data, select a **Security Level** to enable encryption methods.

**Medium:** Only users with the same WEP key settings can connect to your wireless router and transmit data using 64bits or 128bits WEP key encryption. Configure the settings as Open System/WEP instead of Shared Key/WEP.

**High:** Only users with the same WPA pre-shared key settings can connect to your wireless router and transmit data using TKIP encryption.



- Input four sets of WEP keys in the WEP Key fields (10 hexadecimal digits for WEP 64bits, 26 hexadecimal digits for WEP 128bits). You can also let the system generate the keys by inputting a Passphrase and the WEP keys in your notebook, then click **Finish**.

For example, if we select WEP 64bits encryption mode and input 11111 as the Passphrase, the WEP Keys are generated automatically.



- Click **Save&Restart** to restart the wireless router and activate the new settings.



- Connect to the wireless router via wireless

To connect the wireless router from a wireless client, you can use Windows® Wireless Zero Configuration service to set up the connection. If you use ASUS Wireless Card on your computer, you can use the One Touch Wizard utility supplied in WLAN Card support CD for wireless connection.

#### Configuring ASUS WLAN Card with One Touch Wizard

If you have installed ASUS wireless card together with its utilities and drives on your PC, click **Start -> Programes -> ASUS Utility-> WLAN Card -> One Touch Wizard** to launch the One Touch Wizard utility.





- 1) Select **Connect to an existing wireless LAN (Station)** radio button and click **Next** to continue.
- 2) One Touch Wizard searches and displays the available APs in the **Available Networks** list. Select RT-N11 and press **Next** to continue.



- 3) Set the authentication and encryption of your WLAN card the same with those at RT-N11. In the previous steps the **Key Length** is **64 bits**, **Passphrase** is **11111**. Click **Next** to continue.
- 4) It takes several seconds for the wireless card to associate with RT-N11. Press **Next** to setup TCP/IP for your WLAN Card.



- 5) Setup the IP address of the WLAN Card according to your network condition. After the setup is complete, click **Finish** to exit the One Touch Wizard.



### Configuring WLAN card with Windows® WZC service

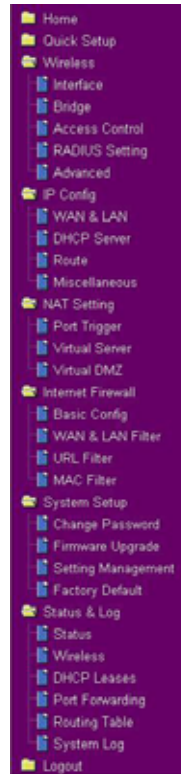
If you use non-ASUS wireless card, you can set up the wireless connection with Windows® Wireless Zero Configuration (WZC) service.

- 1) Double-click the wireless network icon on the task bar to view available networks. Select your wireless router and click **Connect**.
- 2) Input the 10-digit keys you have set on the wireless router and click **Connect**. The connection is complete within several seconds.



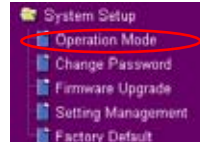
### 7. Configuring advanced features

To view and adjust other settings of the wireless router, enter the Web configuration page of RT-N11. Click on items on the menu to open a submenu and follow the instructions to setup the router. Tips show up when you move your cursor over each item.



## 4. Wireless Router Features

This chapter provides setup examples of some frequently used router features. You can setup these features via your Web browser.



### 1) Choosing an Appropriate Operation Mode

**System Setup - Operation Mode**

ASUS Wireless Router supports three operation modes to meet different requirements from different group of people. Please select the mode that match your situation.

<input checked="" type="radio"/> <b>Home Gateway</b>	<p>In this mode, we suppose you use ASUS Wireless Router to connect to Internet through ADSL or Cable Modem. And, there are many people in your environment share the same IP to ISP.</p> <p>Explaining with technical terms, gateway mode is , NAT is enabled, WAN connection is allowed by using PPPoE, or DHCP client, or static IP. In addition, some features which are useful for home user, such as UPnP and DNS, are supported.</p>
<input type="radio"/> <b>Router</b>	<p>In Router mode, we suppose you use ASUS Wireless Router to connect to LAN in your company. So, you can set up routing protocol to meet your requirement in office.</p> <p>Explaining with technical terms, router mode is, NAT is disabled, static routing protocol are allowed to set.</p>
<input type="radio"/> <b>Access Point</b>	<p>In Access Point mode, all 5 Ethernet ports and wireless devices are set to locate in the same local area network. Those WAN related functions are not supported here.</p> <p>Explaining with technical terms, access point mode is, NAT is disabled, one wan port and four lan ports of ASUS Wireless Router are bridged together.</p>

### 1) Setting up Wireless Encryption

RT-N11 provides a set of encryption and authentication methods to meet the different demands of home, SOHO, and enterprise users. Before setting up encryption and authentication for RT-N11, contact your network administrator for advice.

Click **Wireless** -> **Interface** to open the configuration page.





Wireless - interface	
SSID:	WL500gP
Channel:	Auto
Wireless Mode:	Auto <input checked="" type="checkbox"/> 54g Protection
Authentication Method:	WPA
WPA Encryption:	TKIP
WPA Pre-Shared Key:	[redacted]
WEP Encryption:	WEP-64bits
Passphrase:	[redacted]
WEP Key 1 (10 or 26 hex digits):	[redacted]
WEP Key 2 (10 or 26 hex digits):	[redacted]
WEP Key 3 (10 or 26 hex digits):	[redacted]
WEP Key 4 (10 or 26 hex digits):	[redacted]
Key Index:	2
Network Key Rotation Interval:	0
[Restore] [Refresh] [Apply]	

### Encryption

The encryption modes supported by RT-N11 are: WEP-64bits, WEP-128bits, WPA-Personal, WPA2-Personal, WPA-Auto-Personal(TKIP, AES, TKIP+AES), WPA-enterprise, WPA2-enterprise, WPA-Auto-Enterprise (TKIP, AES, TKIP+AES), Radius with 802.1x

**WEP** stands for Wired Equivalent Privacy, it uses 64bits or 128bits static keys to encrypt the data for wireless transmission. To setup WEP keys, set **WEP Encryption** to **WEP-64bits** or **WEP-128bits**, then manually type in four sets **WEP Keys** (10 hexadecimal digits for 64-bits key or 26 hexadecimal digits for 128-bits key). You can also let the system generate the keys by entering a **Passphrase**.

**TKIP** stands for Temporal Key Integrity Protocol. TKIP dynamically generates unique keys to encrypt every data packet in a wireless session.

**AES** stands for Advanced Encryption Standard. This solution offers stronger protection and increases the complexity of wireless encryption.

**TKIP+AES** is used when both WPA and WPA2 clients co-exist in the wireless network.

**WPA-Personal** protects unauthorized network access by utilizing a set-up password.

**WPA-enterprise** verifies network users through a server.

### Authentication

The authentication methods supported by RT-N11 include: Open, Shared key, WPA-Personal, WPA2-Personal, WPA-Auto-Personal (TKIP, AES, TKIP+AES), WPA-Enterprise, WPA2-Enterprise, WPA-Auto-Enterprise (TKIP, AES, TKIP+AES), and Radius with 802.1x.

**Open:** This option disables authentication protection for wireless network.

**Shared Key:** This mode uses the WEP keys currently in use for authentication.

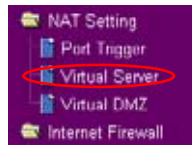
**WPA-Enterprise, WPA2-Enterprise, WPA-Personal, WPA2-Personal, WPA-Auto-Personal:** WPA stands for WiFi-Protected Access. WPA provides two security modes: WPA for enterprise network, and WPA-PSK for home and SOHO users. For enterprise network, WPA uses the already existing RADIUS server for authentication; for home and SOHO user, it provides Pre-Shared Key (PSK) for user identification. The Pre-Shared Key consists of 8 to 64 characters.

**Radius with 802.1x:** Similar with WPA, this solution also uses RADIUS server for authentication. The difference lays on the encryption methods: WPA adopts TKIP or AES encryption methods, while Radius with 802.1X does not provide encryption.

When authentication and encryption are set, click **Finish** to save the settings and restart the wireless router.

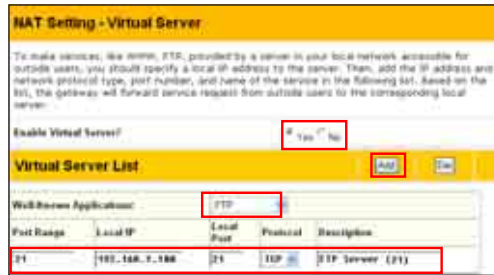
### 3) Setting up Virtual Server in Your LAN

Virtual Server is a Network Address Translation (NAT) function which turns a computer within a LAN into a server by allowing data packets of certain service, such as HTTP, from Internet.

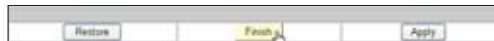


1. Click **Virtual Server** in NAT Setting folder to open the NAT configuration page.

2. Select **Yes** to enable virtual server. For example, if host 192.168.1.100 is FTP server which is to be accessed by Internet user, it means all packets from Internet with destination port as 21 are to be directed to the host. Set Well-known Application to FTP. Port range to 21, Local IP to the host IP, Local Port to 21, Protocol to TCP.



3. Click **Finish**.



4. Click **Save & Restart** to restart the wireless router and activate the settings.





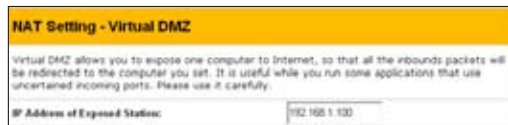
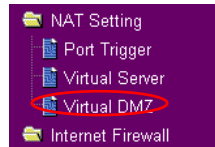
#### 4) Setting up Virtual DMZ in Your LAN

To expose an internal host to Internet and make all services provided by this host available to outside users, enable Virtual DMZ function to open all ports of the host. This function is useful when the host plays multiple roles such as HTTP server and FTP server. However, in doing this, your network becomes less secure.



**Note:** When the virtual DMA is enabled, the wireless/wired clients of the RT-N11 will not be protected.

1. Click **Virtual DMZ** in the NAT Setting menu.
2. Enter the IP address of the host and click **Finish**.
3. Click **Save & Restart** to restart the wireless router and activate the settings.



#### 5) Setting up DDNS

DNS enables host who uses static IP address to associate with a domain name; for dynamic IP user, they can also associate with a domain name via dynamic DNS (DDNS). DDNS requires registering and account-creating at DDNS service providers' website. The DDNS server updates your IP address information once you are assigned to a new IP address. Therefore, Internet user can always access your network.

1. Click **Miscellaneous** from IP Config folder.
2. Select **Yes** to enable the DDNS service. If you do not have a DDNS account, click **Free Trial** to register for a trial account.



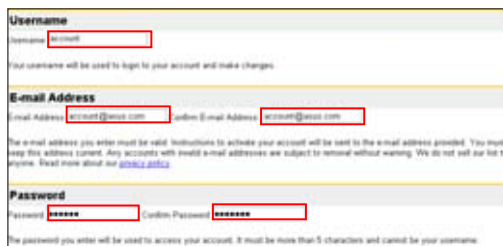


3. After clicking Free Trial, you are directed to the homepage of [www.DynDNS.org](http://www.DynDNS.org), where you can register and apply for DDNS service.

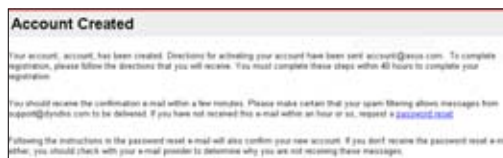
Read the policy and select "I have read...".



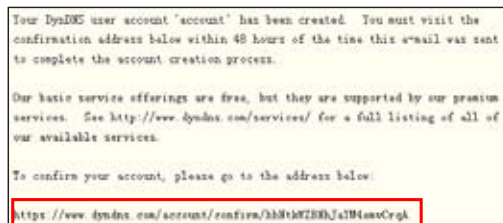
4. Enter your user name, e-mail address, password, then click **Create Account**.



5. A message prompts out informing that your account has been created. An E-mail is sent to your mailbox. Open your mailbox and read the mail.



6. You can find the activation letter in your E-mail box. Click the hyperlink.



7. The link directs you to a login page. Click **login**.



8. Enter the user name and password then click **Login**.



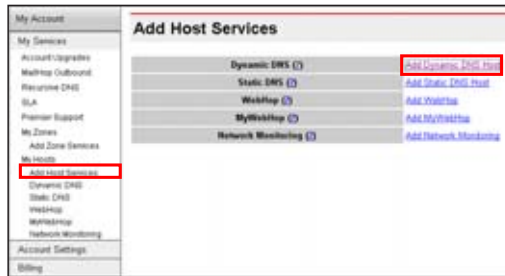
9. After logging in, you can see this welcome message.



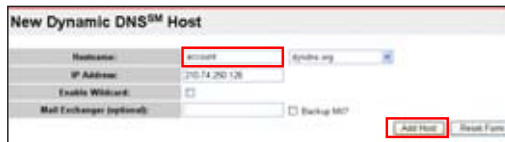
10. Select **Services** tab.



11. Click **Add Dynamic DNS Host**.



12. Enter the host name then click **Add Host**.



13. You can see this message when your hostname is successfully created.



14. Fill the account information into the DDNS setting fields of your wireless router.

**DDNS Setting**

Dynamic-DNS (DDNS) allows you to export your server to Internet with an unique name, even though you have no static IP address. Currently, several DDNS clients are embedded in WL520GU. You can click Free Trial below to start with a free trial account.

Enable the DDNS Client?  Yes  No

Server: WWW.DYNDNS.ORG [Free Trial](#)

User Name or E-mail Address: account

Password or DDNS Key: \*\*\*\*\*

Host Name: account.dyndns.org

Enable wildcard?  Yes  No

Update Manually: Update

15. Click **Finish**.

Restore Finish Apply

16. Click **Save & Restart** to restart the wireless router and activate the settings.

**Save & Restart**

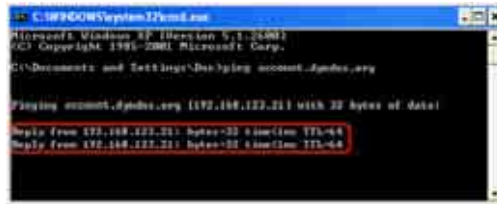
Save&Restart will save all setting you have changed to ASUS Wireless Router and restart it. Please click Save&Restart button to continue.

Save&Restart

17. Verify whether DDNS is working. Click **Start** menu and select **Run....**Type **cmd** and click **OK** to open the CLI console.



18. Type **ping account.dyndns.org** (your DDNS domain name). If you can see the reply like what is shown in the right picture, DDNS is working correctly.

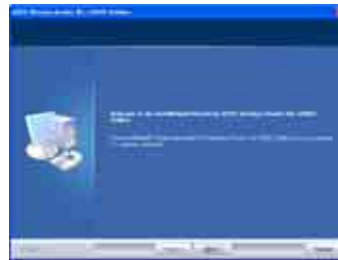




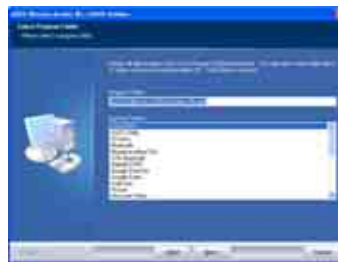
## 5. Setting up Using ASUS utility

### 1) Utility Installation for RT-N11`

1. Click **Install ASUS Wireless Router Utilities** to run the setup installation program.
2. Click **Next** to continue.



3. Click **Next** to install the utility in the designated location.
4. Select a program folder and click **Next**.



5. Press **Finish** to quit the installation program.



## 2) EZSetup



Click the **EZSetup** button in the utility.

**Note:** Use EZSetup Wizard with one wireless client at a time. If the wireless client computer cannot discover the wireless router while in EZSetup mode, please shorten the distance between the client and the router.



Wireless settings, including network name and network keys, are generated automatically. You can modify these settings manually.

**Note:** if your wireless router is configured before, select **Preserve original wireless router settings** to use the current value. Click **Next** to continue.



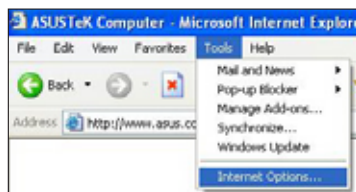
If you need to configure the ISP settings for your wireless router, select **Configure ISP settings**, click **Next** and follow the instructions to complete the settings.



Setup is complete, press **Print/Save Wireless LAN Settings** button for future reference. Click **Finish** to exit the EZSetup utility.

## 6. Troubleshooting

### Cannot access to web browser for router configuration



1. Open a web browser and open "Internet Options" dialog box.



2. Click on "Delete Cookies" and "Delete Files".



3. Click **Clear History**.
4. Click **Yes** and then click the **Connections** tab.
5. Select the dial-up connection, and then click the **Settings** button.
6. Clear the **Automatically detect settings and use proxy server** check boxes are not selected.
7. Click **Ok** to close the Internet **Options dialog** box.

## Cannot Establish Connection via Wireless

### Out of Range:

- Put the router closer to the wireless client.
- Try to change the channel setting.

### Authentication:

- Use wired connection to connect to router.
- Check the wireless security setting.
- Do the hard reset on the wireless router by pressing the Restore button on the rear panel for more than 5 seconds.

### Couldn't find the router:

- Do the hard reset on the wireless router by pressing the Restore button on the rear panel for more than 5 seconds.
- Check the setting in the wireless adapter such as SSID and encryption setting.

## Cannot get access to the Internet via wireless LAN adapter

- Move the router closer to the wireless client.
- Check whether the wireless adapter is connected to the correct AP.
- Check whether the wireless channel in use conforms to the channels available in your country/ area.
- Check encryption setting.
- Check whether the ADSL or Cable connection is correct.
- Retry using another Ethernet cable.





### Internet is not accessible

- Check the lights on ADSL modem and the Wireless Router
- Check whether the "WAN" LED on the Wireless Router is ON. If the LED is not ON, change the cable and try again.

### When ADSL Modem "Link" light is ON (not blinking), this means Internet Access is Possible.

- Restart your computer.
- Refer to the Quick Setup Guide of the wireless router and reconfigure the settings.
- Check whether the WAN LED on the router is ON or not.
- Check wireless encryption settings.
- Check whether the computer can get the IP address or not (via both wired network and wireless network).
- Make sure your Web browser is configured to use the local LAN, and is not configured to use a proxy server.

### If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.

- Make sure your cables are all correctly connected .
- Disconnect the power cord from the ADSL or Cable modem, wait a few minutes, then reconnect the cord.
- If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.

### Network name or encryption keys are forgotten

- Try to setup the wired connection for setup the wireless encryption again.
- Do the hard reset on the wireless router by pressing the Restore button on the rear panel for more than 5 seconds.

### How to restore to defaults

The following are factory default values. If you push the Restore button on the back of the ASUS Wireless Router for over 5 seconds, or click the "Restore" button on the "Factory Default" page under " System Setting", the following default settings overwrite the old settings on your wireless router.

User Name:	admin	Subnet Mask:	255.255.255.0
Password:	admin	DNS Server 1:	192.168.1.1
Enable DHCP:	Yes	DNS Server 2:	(Blank)
IP address:	192.168.1.1	SSID:	default
Domain Name:	(Blank)		



## 7. Appendix



### **FCC Warning Statement**

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.

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.



### **CAUTION:**

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

### **Prohibition of Co-location**

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter

### **Safety Information**

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

### **Declaration of Conformity for R&TTE directive 1999/5/EC**

Essential requirements – Article 3

Protection requirements for health and safety – Article 3.1a



Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

## **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.

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## Configure RT-N11 under Vista OS

The Windows Simple Config function, which is preinstalled in the ASUS RT-N11, enables the device to be configured via WCN Net process of Windows Vista.

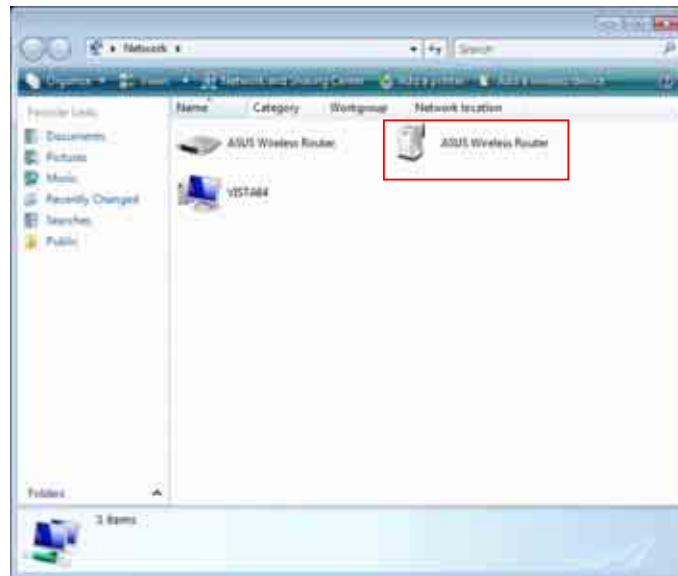


**Note:** The WCN Net process of Windows Vista can only discover the device when the device is not configured and is in the default settings state. If the device is configured, you have to set up the device by WEB or EZsetup. Or you can push Reset button and then begin WCN-NET setup.

### 1) Configuring the device

Follow the steps below to configure the device using WCN-Net process of Windows Vista:

1. Connect the device to your PC and power on it.
2. Click **Start >Network** from the Vista desktop. The Network screen appears (as shown below).
3. Double click **ASUS Wireless Router**.







A screen prompts you to enter the PIN of your device. The PIN is located on the sticker posted on the device.

4. Enter the PIN in the **PIN** box, then click **Next**.

Configure a WCN device

Type the PIN for the selected device

To configure this device for use on your network, type the PIN. You can find the PIN in the information that came with the device or on a sticker on the device.

PIN  
12345670

Display characters

Next Cancel

4. Give the network a name and type it in the **Network name** box, then click **Next**.

Configure a WCN device

Give your network a name

Choose a name that people who connect to your network will recognize

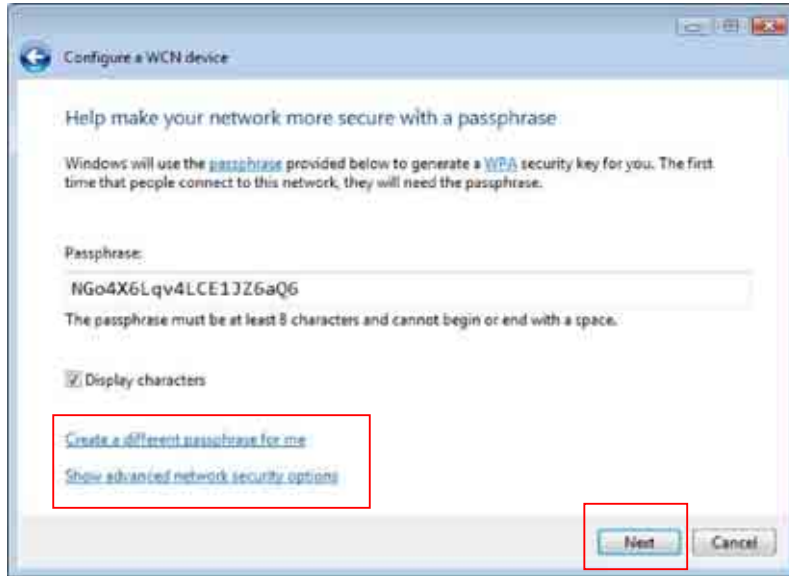
Network name (SSID):  
ASUS\_VISTA\_Network

You can type up to 32 letters or numbers.

Next Cancel

A Passphrase is generated for WPA security for the network.

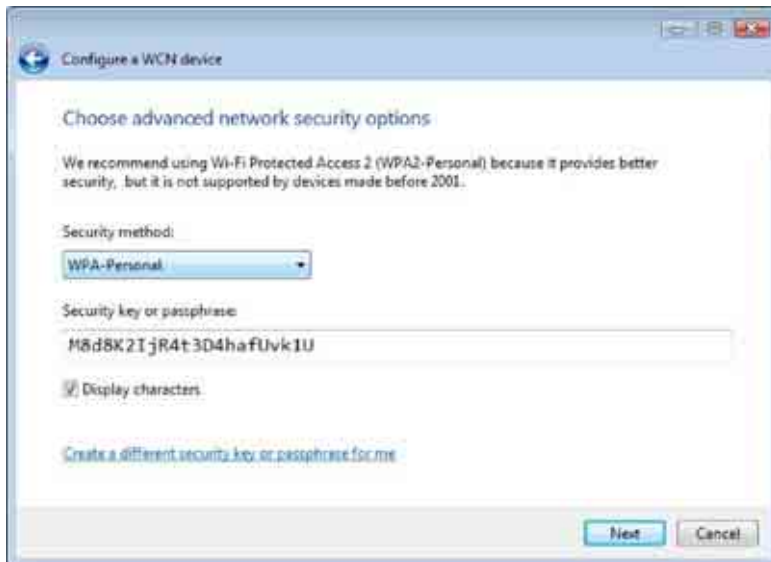
5. Click **Next** from this screen.



If you want to create a different passphrase, click **create a different passphrase for me**. If you want to use security method other than WPA-Personal, click **Show advanced network security options**.

The "Create a different passphrase" and "Security methods" screens are shown below.

### Create a different passphrase



### Four security methods



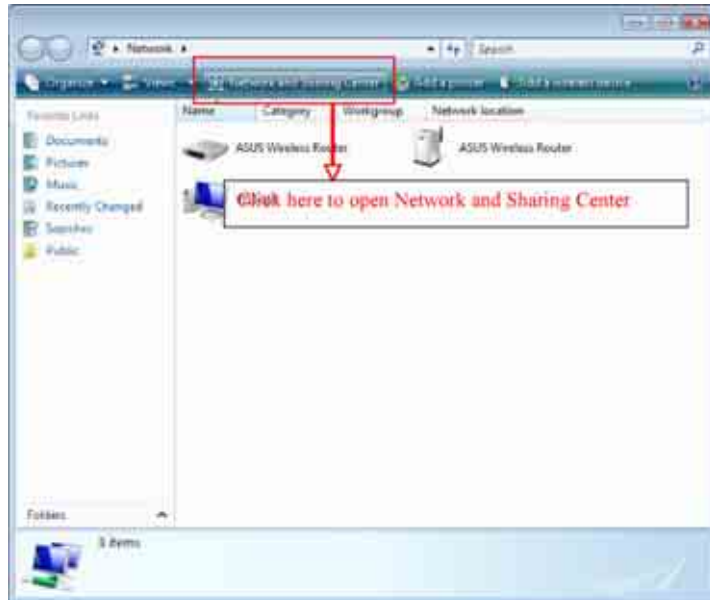
6. Click **Next** from the above screens after the configuration is completed. The complete configuration screen appears as shown below. Click **Close** to finish the process and exit.



## 2) Setting up the network sharing center

Follow the steps below to set up a sharing center to allow the network users to share printer, file and media.

1. Connect the device to your PC and power it on.
2. Click **Network and Sharing Center** in the navigation bar. The **Network and Sharing Center** screen appears.

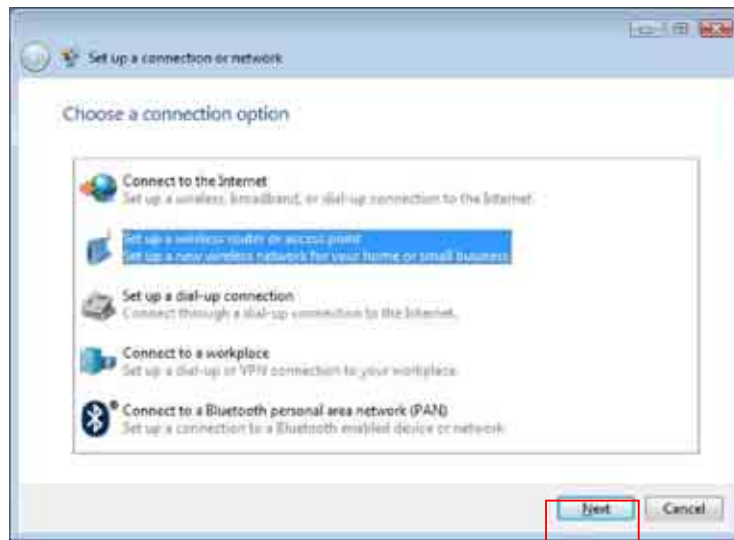


3. Click **Set up a wireless router or network.**

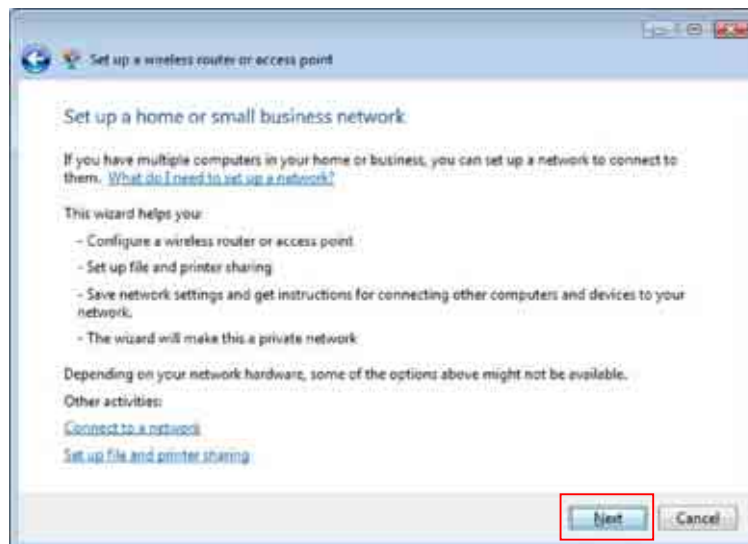




3. Choose **Set up a wireless router or access point**, then click **Next**.

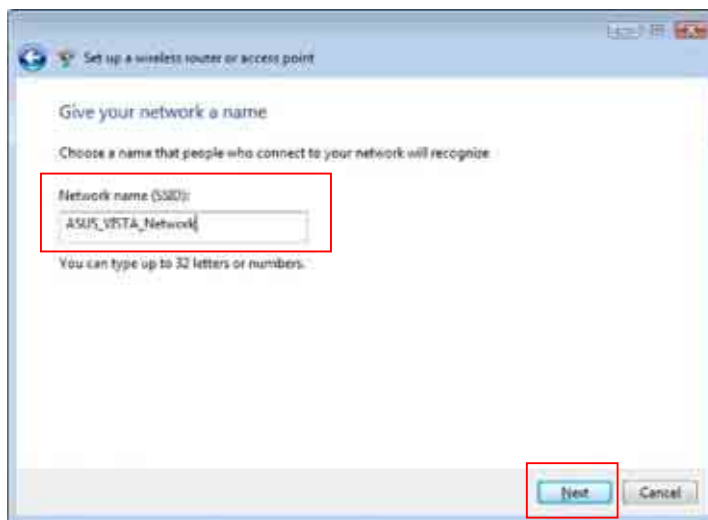


4. Click **Next**.

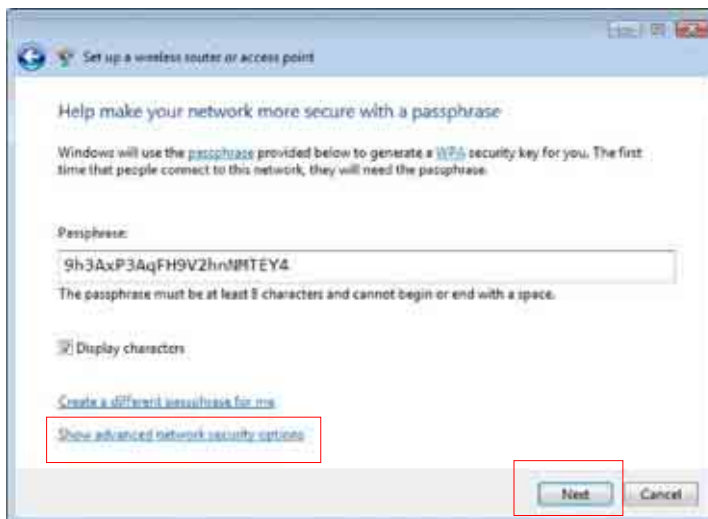




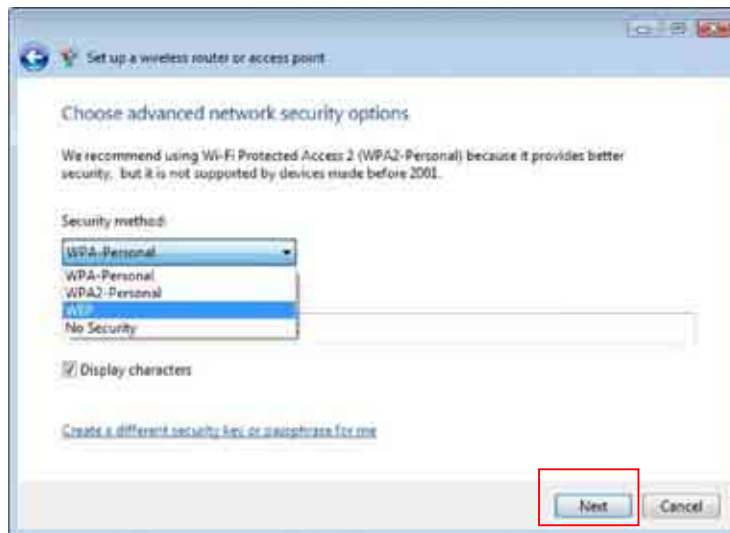
5. In the screen that appears, type a network name in the **Network name** box, then click **Next**. A passphrase is generated for the WPA security.



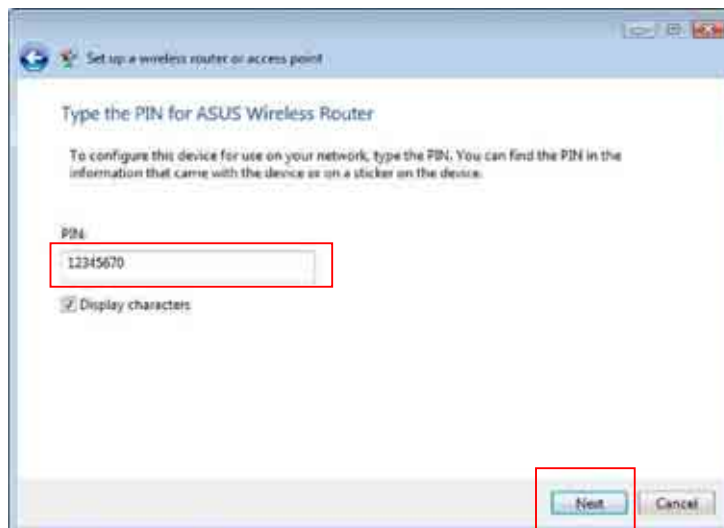
6. Click **Next**. If you want to use security methods other than WPA-Personal, click **Show advanced network security options**.



7. Choose a security method and click **Next**.

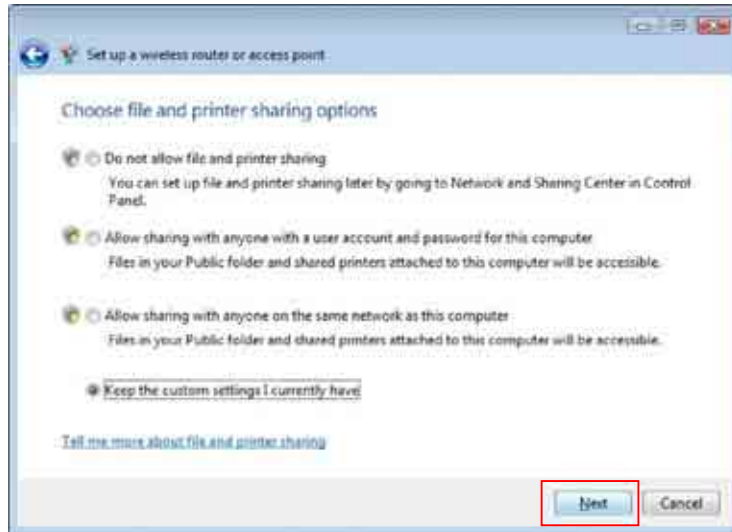


8. A screen prompts you to enter the PIN for the device. Enter the PIN, which is located on the sticker posted on the device, then click **Next**.

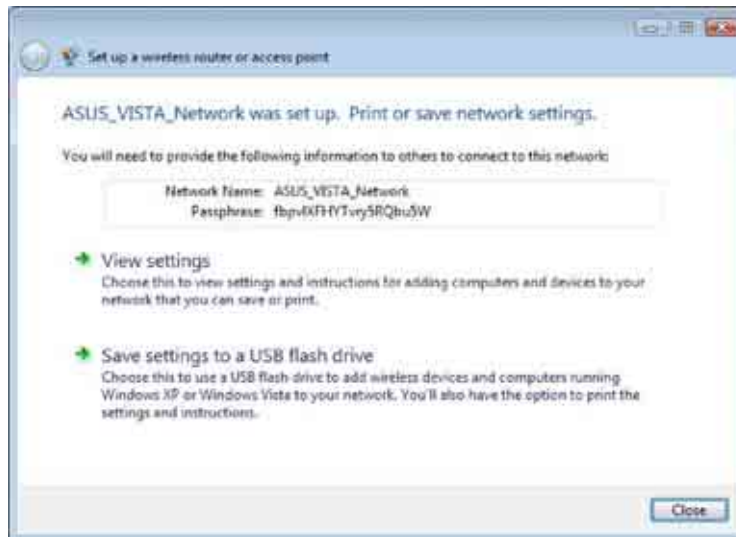




9. Choose a file and printer sharing option and click **Next**.



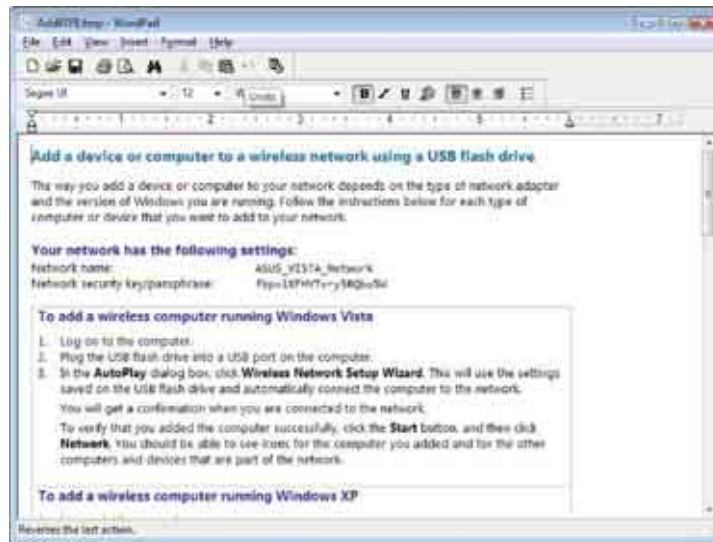
A screen appears showing that the set up is complete as shown below.



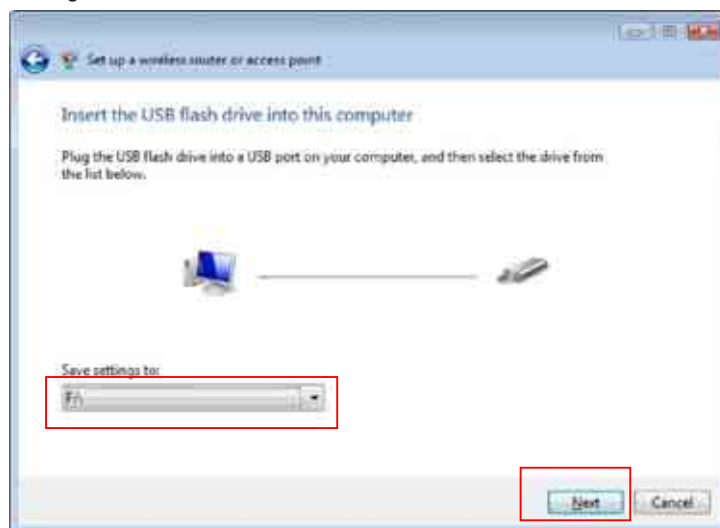


10. From the above screen you can choose to **View settings** or, **Save settings to a USB flash drive**. The respective screens are shown below.

**View settings screen**



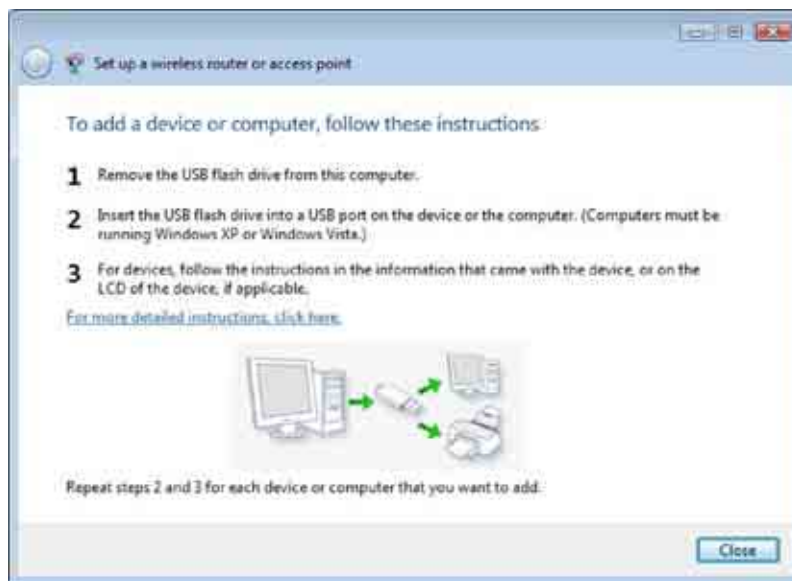
**Save settings to a USB flash drive screen**





11. When **Save settings to a USB flash drive** screen appears, plug a USB flash drive into your computer, then select the drive from the **Save settings to** box and click **Next**. The settings starts to be saved into the USB drive.

After the saving process is completed, a screen appears to instruct you to add computer or other devices into the network. Follow the instructions to add computers and devices into your network.





## 第十二條

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前項合法通信，指依電信法規定作業之無線電通信。

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## **FCC statement in User's Manual (for class B)**

### **"Federal Communications Commission (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.

### FCC Caution:

1. The 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, and
  - (2) this device must accept any interference received, including interference that may cause undesired operation.
  
2. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
  
3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

### IC Statement

In addition to the requirements of Section 7.1.5 in RSS-Gen, the device's shall also contain the following or equivalent statement: "Privacy of communications may not be ensured when using this telephone".

If privacy is provided as a standard feature, the privacy notice may be omitted provided that full justification accompanies the equipment certification application for evaluation by Industry Canada.