



Wireless Security Guide

(for Windows XP, Windows Vista, Windows 7, Mac OSx)

Wireless Security Guide

This guide will take you through the process of configuring, changing or checking the wireless security settings on an existing wireless network.

This guide **will not** assist you to setup a new wireless network. Please refer to the wireless setup document for your model available from the support section of the [NetComm](#)* or [Dynalink](#)** website.



Any changes to your wireless security settings will require you to reconfigure wirelessly connected devices to use the new security settings. Please ensure that you have your wireless setup guide handy for this.

* NetComm Support - <http://www.netcomm.com.au/support>

** Dynalink Support - <http://www.dynalink.co.nz/cms/index.php?page=how-to>

Step 1: Selecting a wireless security type:

There are a number of different types of wireless security to select from.

Before changing your settings, check the types of security available on your modem/router and then consult your wireless adapter manufacturer to ensure your wireless adapter is compatible with your chosen security type.

The most commonly used security types are:

- WEP (64bit or 128bit)
- WPA (Radius)
- WPA-PSK
- WPA2 (Radius)
- WPA2-PSK

The majority of wireless adapters should support one (or all) of the above security types.



You will be unable to utilise Radius server authentication without having a Radius server in place and configured on your network.

Step 2: Selecting a wireless security key:

Once you have chosen which wireless security type you want to use on your network, you will then need to create your wireless security key or wireless password.

Depending on the security type you choose, you will have the option of using either an ASCII or HEX format key.

ASCII refers to any letter or number you can see on your keyboard.

HEX refers to the letters A to F and the numbers 0 to 9.

You will need to ensure that your security key is the correct length. Your modem/router will display the required number of characters (letters and/or numbers) you need.



The default WEP key for most NetComm products is:

a1b2c3d4e5

Step 3: Setting up your wireless security:

Please ensure that your modem/router is connected to your computer using an ethernet cable before continuing.

1. Navigate to <http://192.168.1.1> in a web browser using "admin" as both the username and password when prompted.
2. Select "**Wireless**" from the menu at the left hand side and then "**Wireless Settings**" from underneath it.



Wireless security is disabled by default.

3. If you would like to use wireless security, tick the "**Enable Wireless Security**" box and then click the drop down menu in the "**Security Type:**" section, select the desired security type and click "**Save**".

- Status
- Basic Settings ---
- Quick Setup
- + Network
- **Wireless**
 - **Wireless Settings**
 - MAC Filtering
 - Wireless Statistics
- Advanced Settings ---
- + DHCP
- + Forwarding
- + Security
- Static Routing
- + IP & MAC Binding
- Dynamic DNS
- Maintenance ---
- + System Tools

SSID:

Region:

Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Channel:

Mode:

☒ Enable Wireless Router Radio

☒ Enable SSID Broadcast

☐ **Enable Wireless Security**

Security Type:

Security Option:

WEP Key Format:

Key Selected	WEP Key	Key Type
Key 1: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>
Key 2: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>
Key 3: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>
Key 4: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>

Save

4. After selecting your desired security type (we're using WPA2-PSK for the example), enter the wireless security key you would like to use into the "**PSK Passphrase Key**:" section and click "**Save**".

The screenshot displays the configuration interface for a wireless router. On the left, a blue sidebar contains a menu with options like Status, Basic Settings, Quick Setup, Network, Wireless, and Advanced Settings. The 'Wireless' section is expanded, showing 'Wireless Settings', 'MAC Filtering', and 'Wireless Statistics'. The main configuration area has a yellow background and contains several settings. The 'SSID' is set to 'Wireless' and the 'Region' is 'Australia'. A warning message states: 'Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.' The 'Channel' is set to '6' and the 'Mode' is '54Mbps (802.11g)'. There are three checkboxes: 'Enable Wireless Router Radio' (checked), 'Enable SSID Broadcast' (checked), and 'Enable Wireless Security' (checked and highlighted with a red box). Below these, the 'Security Type' is set to 'WPA-PSK/WPA2-PSK' (highlighted with a red box), 'Security Option' is 'Automatic', and 'Encryption' is 'Automatic'. The 'PSK Passphrase' is set to 'ExampleKey' (highlighted with a red box). A note below the passphrase states: '(The Passphrase is between 8 and 63 characters long)'. The 'Group Key Update Period' is set to '30' seconds. At the bottom, there is a 'Save' button.

• Status
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• MAC Filtering
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--- Advanced Settings ---
• DHCP
• Forwarding
• Security
• Static Routing
• IP & MAC Binding
• Dynamic DNS
--- Maintenance ---
• System Tools

SSID: Wireless
Region: Australia
Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.
Channel: 6
Mode: 54Mbps (802.11g)
☒ Enable Wireless Router Radio
☒ Enable SSID Broadcast
☒ **Enable Wireless Security**
Security Type: WPA-PSK/WPA2-PSK
Security Option: Automatic
Encryption: Automatic
PSK Passphrase: ExampleKey
(The Passphrase is between 8 and 63 characters long)
Group Key Update Period: 30 (in second, minimum is 30, 0 means no update)
Save

Any changes to your wireless security settings will require you to reconfigure any wirelessly connected devices to use the new security settings. You will now need to re-setup any wirelessly connected computers with the new wireless security key. Please ensure that you have your wireless setup guide handy for this.