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## **Wireless Security Guide**

(for Windows XP, Windows Vista, 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 wireless 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. Open your web browser and go to the address <http://192.168.1.1>, using admin as the username and password when prompted.
2. Select **"Wireless"** from the menu on the lefthandside and then **"Security"** from menu at the top of the page which is displayed.
3. If you have decided to use WEP and you would just like to change your current WEP network key, simply replace the key specified in the **"Network key 1:"** section and click **"Save/Apply"**.

**Wireless -- Security**

This page allows you to configure security features of the wireless LAN interface. You can set the network authentication method, select data to authenticate to this wireless network and specify the encryption strength. Click "Apply" to configure the wireless security options.

Select SSID:

Network Authentication:

WEP Encryption:

Encryption Strength:

Current Network Key:

**Network Key 1:**

Network Key 2:

Network Key 3:

Network Key 4:

Enter 13 ASCII characters or 26 hexadecimal digits for 128-bit encryption keys  
Enter 5 ASCII characters or 10 hexadecimal digits for 64-bit encryption keys

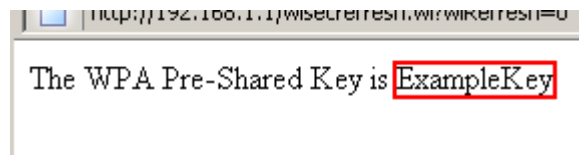
4. If you would like to select a different network security type instead, click the drop down menu in the **"Network Authentication"** section and select the desired security type.

The screenshot shows the 'Wireless -- Security' configuration page. On the left sidebar, the 'Wireless' menu is selected, and the 'Security' sub-menu is highlighted. The main content area has a title 'Wireless -- Security' and a description: 'This page allows you to configure security features of the wireless LAN interface. You can set the network authentication method, selecting and authenticating to this wireless network and specify the encryption strength. Click "Apply" to configure the wireless security options.' The 'Select SSID:' dropdown is set to 'NetComm Wireless'. The 'Network Authentication:' dropdown is set to 'Open' and is highlighted with a red box. Below this, 'WEP Encryption:' is set to 'Enabled', 'Encryption Strength:' is '64-bit', and 'Current Network Key:' is '1'. There are four input fields for 'Network Key 1' through 'Network Key 4', with 'Network Key 1' containing 'a1b2c3d4e5'. A 'Save/Apply' button is at the bottom right.

5. 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 **"WPA Pre-Shared Key:"** section and click **"Save/Apply"**.

The screenshot shows the 'Wireless -- Security' configuration page with 'Network Authentication' set to 'WPA2-PSK'. The 'WPA Pre-Shared Key:' field contains ten dots and is highlighted with a red box. A red box also highlights the 'Click here to display' link to the right of the key field. Other settings include 'WPA Group Rekey Interval' at 300, 'WPA Encryption' at 'AES', and 'WEP Encryption' at 'Disabled'. A 'Save/Apply' button is at the bottom right.

If you are using WPA-PSK or WPA2-PSK security and would like to view your currently set wireless security key, click on **"Click here to display"**. You should then see a popup window showing your wireless security key.



Any changes to your wireless security settings will require you to reconfigure any wirelessly connected devices to use the new security settings. This is done by removing any stored wireless settings and then reconnecting to your wireless network.

Please ensure you have your wireless setup guide handy for this.