



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 the username and password when prompted.
2. Select "Wireless" from the menu on the left hand side and then "Security" underneath it.
3. If you have decided to use WEP as the network authentication type and just want to change the current WEP network key, simply replace the key specified in the top box of the "Network Key1:" section and press "Save/Apply".

The screenshot shows the NetComm web interface for configuring wireless security. On the left is a navigation menu with the following items: Device Info, Quick Setup, Advanced Setup, **Wireless**, Basic, **Security**, MAC Filter, Wireless Bridge, Advanced, Station Info, Diagnostics, and Management. The main content area is titled "Wireless -- Security" and includes a description: "This page allows you to configure security features of the wireless LAN interface." Below this is the "Manual Setup AP" section, which states: "You can set the network authentication method, select data encryption, specify whether a network key is required to authenticate. Click 'Save/Apply' when done." The configuration options are as follows: "Select SSID:" is a dropdown menu set to "Netcomm 7 Series"; "Network Authentication:" is a dropdown menu set to "Open"; "WEP Encryption:" is a dropdown menu set to "Enabled"; "Encryption Strength:" is a dropdown menu set to "64-bit"; "Current Network Key:" is a dropdown menu set to "1". The "Network Key 1:" field contains the text "a1b2c3d4e5" and is highlighted with a red box. The other network key fields (2, 3, and 4) also contain "a1b2c3d4e5". At the bottom of the page is a "Save/Apply" button. A note at the bottom right reads: "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."

NetComm
www.netcomm.com.au

Device Info
Quick Setup
Advanced Setup
Wireless
Basic
Security
MAC Filter
Wireless Bridge
Advanced
Station Info
Diagnostics
Management

Wireless -- Security

This page allows you to configure security features of the wireless LAN interface.

Manual Setup AP

You can set the network authentication method, select data encryption, specify whether a network key is required to authenticate. Click "Save/Apply" when done.

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

1. 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 NetComm website interface for configuring wireless security. On the left is a navigation menu with 'Wireless' and 'Security' highlighted. The main content area is titled 'Wireless -- Security' and includes a 'Manual Setup AP' section. The 'Network Authentication' dropdown menu is set to 'Open'. Other settings include 'WEP Encryption: Enabled', 'Encryption Strength: 64-bit', and four 'Network Key' fields, each containing 'a1b2c3d4e5'. A 'Save/Apply' button is at the bottom.

2. 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"**.

This screenshot shows the same configuration page but with 'WPA2-PSK' selected in the 'Network Authentication' dropdown. The 'WPA Pre-Shared Key' field is now populated with a series of dots and is highlighted with a red box. A blue link labeled 'Click here to display' is positioned to the right of the key field. The 'WPA Encryption' dropdown is set to 'AES'. The 'Save/Apply' button remains at the bottom.

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. 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.