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www.netcomm.com.au

 **Dynalink**

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 underneath it.
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 top box of the **"Network Key1:"** section and click **"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** (highlighted with a red box), Basic, **Security** (highlighted with a red box), 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 fields are as follows: "Select SSID:" with a dropdown menu showing "Netcomm 7 Series"; "Network Authentication:" with a dropdown menu showing "Open"; "WEP Encryption:" with a dropdown menu showing "Enabled"; "Encryption Strength:" with a dropdown menu showing "64-bit"; "Current Network Key:" with a dropdown menu showing "1"; and four "Network Key" fields (1, 2, 3, 4), each containing the hexadecimal value "a1b2c3d4e5". The "Network Key 1" field is highlighted with a red box. At the bottom right is a "Save/Apply" button. A note at the bottom of the form states: "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."

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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: Netcomm 7 Series

Network Authentication: Open

WEP Encryption: Enabled

Encryption Strength: 64-bit

Current Network Key: 1

Network Key 1: a1b2c3d4e5

Network Key 2: a1b2c3d4e5

Network Key 3: a1b2c3d4e5

Network Key 4: a1b2c3d4e5

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

Save/Apply

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 NetComm Wireless Security configuration page. On the left is a navigation menu with 'Wireless' and 'Security' highlighted. 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 fields are as follows: 'Select SSID:' is set to 'Netcomm 7 Series'; 'Network Authentication:' is set to 'Open' (highlighted with a red box); 'WEP Encryption:' is set to 'Enabled'; 'Encryption Strength:' is set to '64-bit'; 'Current Network Key:' is set to '1'; and four 'Network Key' fields (1-4) are all set to 'a1b2c3d4e5'. A 'Save/Apply' button is at the bottom right. A note at the bottom right specifies: '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.'

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 NetComm Wireless Security configuration page with 'WPA2-PSK' selected for network authentication. The 'WPA Pre-Shared Key:' field contains a masked key (highlighted with a red box) and a 'Click here to display' link (also highlighted with a red box). Other settings include: 'Select SSID:' set to 'Netcomm 7 Series'; 'WPA Group Rekey Interval:' set to '0'; 'WPA Encryption:' set to 'AES'; and 'WEP Encryption:' set to '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.

The screenshot shows a simple popup window with a red border. Inside, the text 'ExampleKey' is displayed in a large, bold, black font.

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.