

NetComm[®]
www.netcomm.com.au



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.

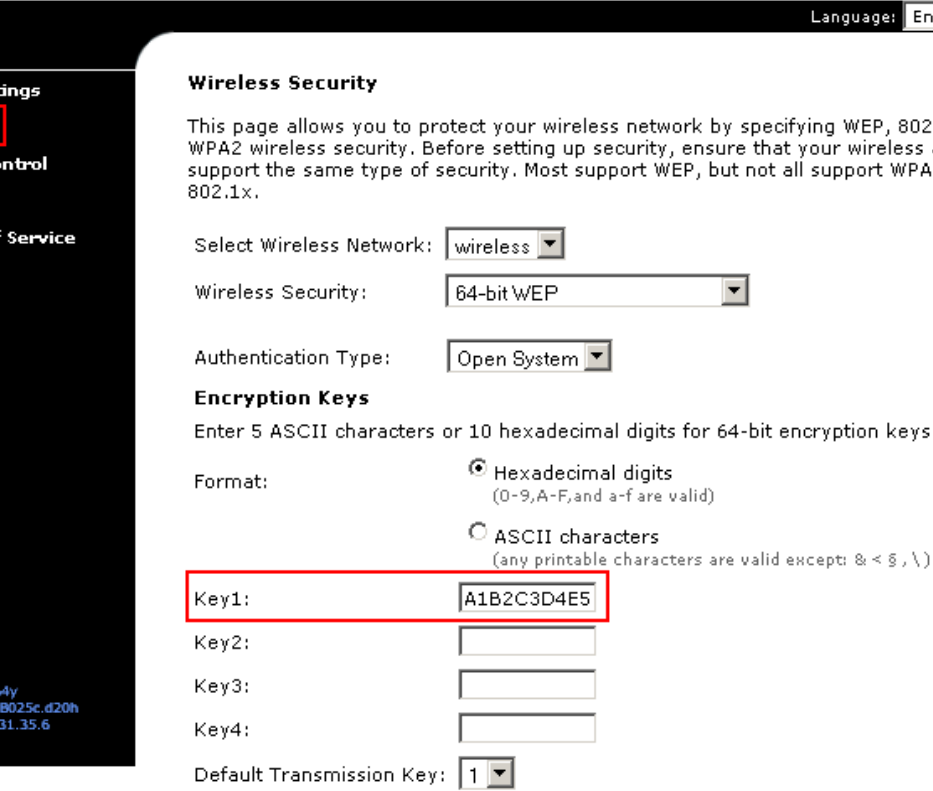
HEX refers to the letters A to F and the numbers 0 to 9.

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



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Quick Start | Status | Advanced | **Wireless** | Management

Language: English

Basic Settings

Security

Access Control

Repeater

Quality of Service

Wireless Security

This page allows you to protect your wireless network by specifying WEP, 802.1x, WPA, or WPA2 wireless security. Before setting up security, ensure that your wireless adaptors support the same type of security. Most support WEP, but not all support WPA, WPA2, or 802.1x.

Select Wireless Network: wireless

Wireless Security: 64-bit WEP

Authentication Type: Open System

Encryption Keys

Enter 5 ASCII characters or 10 hexadecimal digits for 64-bit encryption keys.

Format:

☒ Hexadecimal digits
(0-9, A-F, and a-f are valid)

☐ ASCII characters
(any printable characters are valid except: & < > , \)

Key1: A1B2C3D4E5

Key2:

Key3:

Key4:

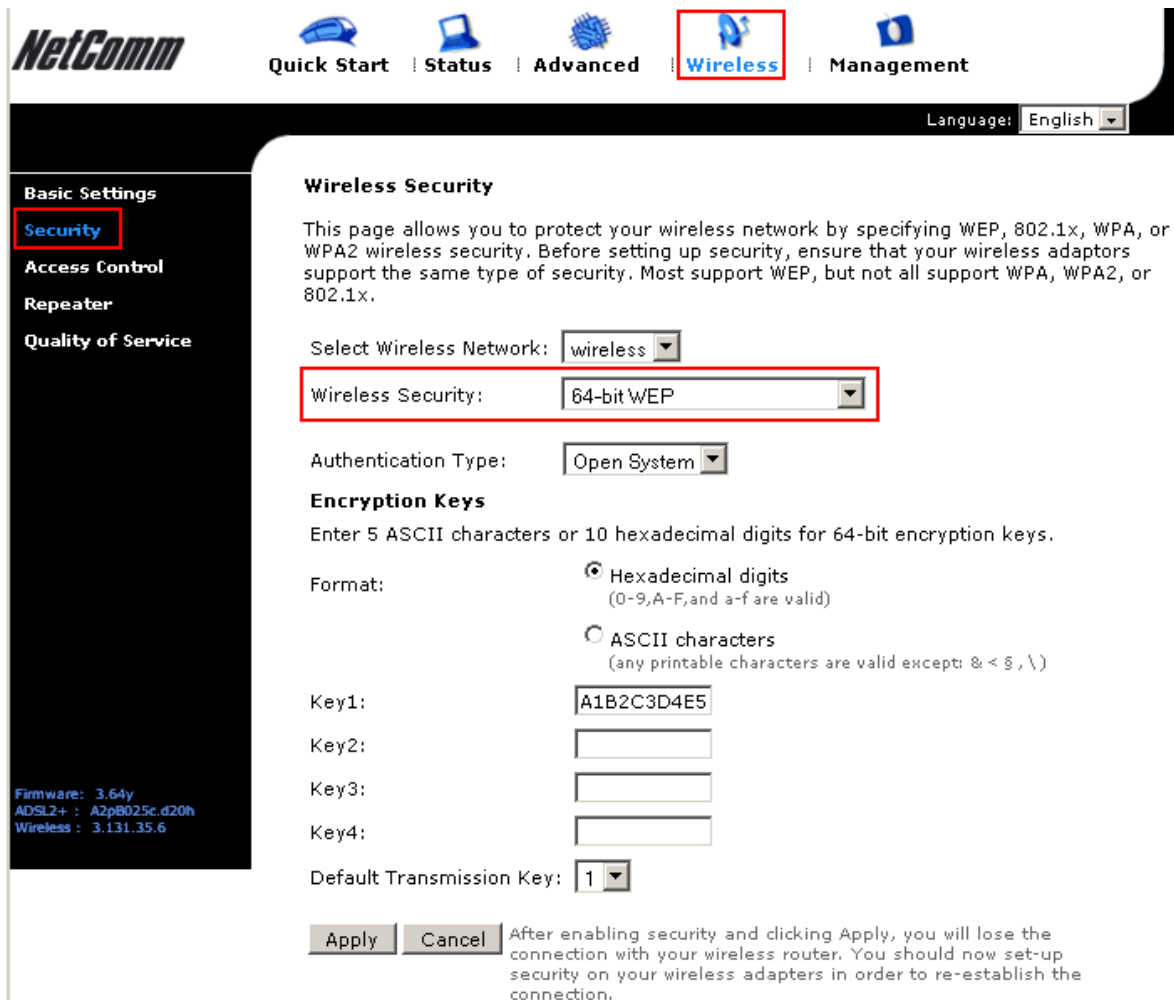
Default Transmission Key: 1

Apply Cancel

After enabling security and clicking Apply, you will lose the connection with your wireless router. You should now set-up security on your wireless adapters in order to re-establish the connection.

Firmware: 3.64y
ADSL2+ : A2p8025c.d20h
Wireless : 3.131.35.6

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



The image shows the NetComm Wireless Security configuration page. The top navigation bar includes 'Quick Start', 'Status', 'Advanced', 'Wireless' (highlighted with a red box), and 'Management'. The left sidebar contains 'Basic Settings' (with 'Security' highlighted in a red box), 'Access Control', 'Repeater', and 'Quality of Service'. The main content area is titled 'Wireless Security' and contains instructions, a 'Select Wireless Network' dropdown (set to 'wireless'), a 'Wireless Security' dropdown (set to '64-bit WEP' and highlighted with a red box), an 'Authentication Type' dropdown (set to 'Open System'), and an 'Encryption Keys' section. The 'Encryption Keys' section includes a 'Format' section with radio buttons for 'Hexadecimal digits' (selected) and 'ASCII characters', followed by four 'Key' input fields (Key1 contains 'A1B2C3D4E5') and a 'Default Transmission Key' dropdown (set to '1'). At the bottom, there are 'Apply' and 'Cancel' buttons, and a warning message about losing the connection.

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Wireless Security

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Select Wireless Network: wireless

Wireless Security: 64-bit WEP

Authentication Type: Open System

Encryption Keys

Enter 5 ASCII characters or 10 hexadecimal digits for 64-bit encryption keys.

Format:

☒ Hexadecimal digits
(0-9,A-F, and a-f are valid)

☐ ASCII characters
(any printable characters are valid except: &, <, >, \)

Key1: A1B2C3D4E5

Key2:

Key3:

Key4:

Default Transmission Key: 1

Apply **Cancel** After enabling security and clicking Apply, you will lose the connection with your wireless router. You should now set-up security on your wireless adapters in order to re-establish the connection.

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Wireless : 3.131.35.6

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 **"Pre-Shared Key:"** section and click **"Apply"**.

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Wireless Security

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Select Wireless Network: wireless

Wireless Security: WPA2-PSK

Data Encryption: AES

WPA Pre-Shared Key

Enter the key to be between 8 and 63 ASCII characters, or 64 hexadecimal digits

Format:
☐ Hexadecimal digits
(0-9,A-F, and a-f are valid)
☒ ASCII characters
(any printable characters are valid except: & < > , \)

Pre-Shared Key:

WPA Group Rekey Interval: 0 seconds

Apply Cancel

After enabling security and clicking Apply, you will lose the connection with your wireless router. You should now set-up security on your wireless adapters in order to re-establish the connection.

Firmware: 3.64y
ADSL2+ : A2p8025c.d20h
Wireless : 3.131.35.6

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.