

Networking

Setting up a WPA connection with Conceptronic 54g products Wireless

Connectivity

Datacommunication

Entertainment

Hardware Installation Guide

www.conceptronic.net

In this article we discuss how to setup a WPA protected connection between a 54Mbps wireless card and a 54Mbps access point. In figure 1 you can see the situation we've used for testing. For more information about WPA see the website of the [wifialliance](#)

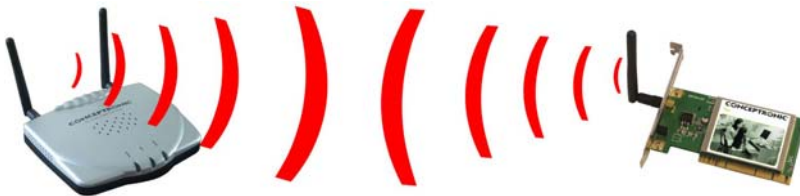


Figure 1

Requirements:

Hardware:

- A Conceptronic C54i (54Mbps wireless PCI network adapter) or a Conceptronic C54C (54Mbps wireless PCMCIA network adapter)
- A Conceptronic C54AP (54Mbps access point)

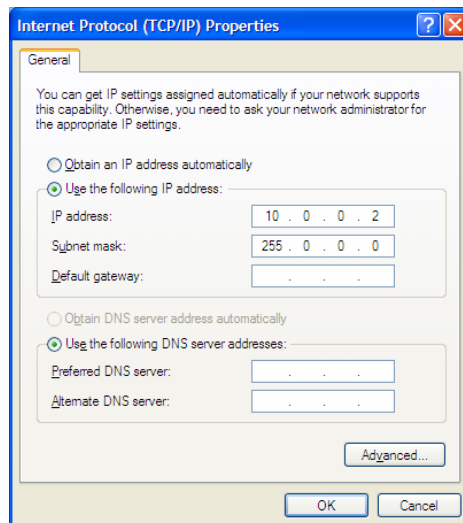
Software:

- Windows XP
- Latest drivers and firmware for your Conceptronic hardware

1 Installation

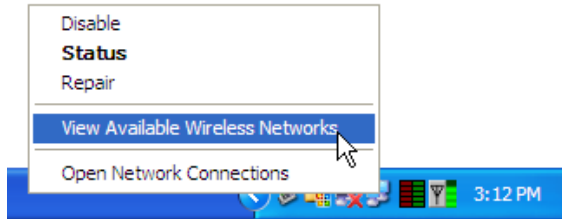
- Install Service Pack 1 for Windows XP or use this patch to enable support for WPA: [Windows XP Support Patch for WPA](#)
- Install the Security Patch: [Windows XP Security patch for WPA](#)
- Install the drivers and utility for your C54i or C54C
- Connect the C54AP access point to your network/router

2 Configuring the access point

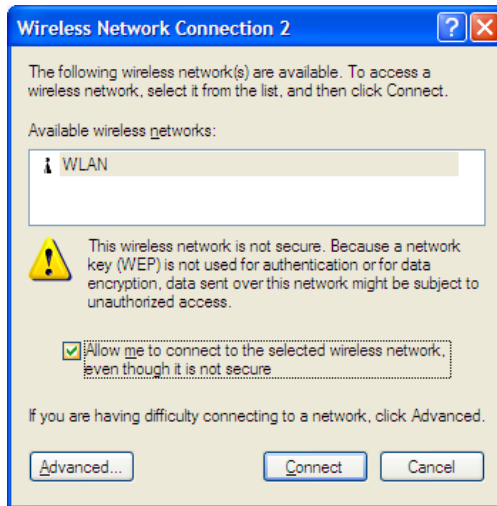


Change the IP address of the wireless connection to 10.0.0.2 and subnet 255.0.0.0, leave the other fields blank.

Click OK



Connect to the access point by right-clicking on the wireless connection in the taskbar and choose "View Available Wireless Networks".



Change the IP address of the wireless connection to 10.0.0.2 and subnet 255.0.0.0, leave the other fields blank.

Click OK

3 Configuring the access point

Open your Browser, type in the address box: "http://10.0.0.1" (default IP) and press enter. When you are asked for it, fill in username "admin" and leave the password blank. Click "OK" and you are in the web interface of the access point.

Go to "Advanced Setup" → "Configuration" → "Security Settings"

Use the following settings:

(The keys can be anything, but must be exactly 16 characters)

Security Settings	
Wireless Band	IEEE802.11g
Authentication	<input type="radio"/> Open System <input type="radio"/> Shared Key <input checked="" type="radio"/> WPA
WEP	<input type="radio"/> Disabled <input checked="" type="radio"/> Enabled
Wep Key Type	ASCII
Wep Key Size	152 Bits
Key Table for HexValue	
Valid Key	First
First Key	it'swapprotected
Second Key	
Third Key	
Fourth Key	
Apply	

Authentication: WPA
 Wep Key Type: ASCII
 Wep Key Size: 152
 Valid Key: First
 First Key e.g.: it'swapprotected

Click "A Change the IP address of the wireless connection to 10.0.0.2 and subnet 255.0.0.0, leave the other fields blank. Click OK pply"

Now you should come to the “WPA Settings” screen and use the following settings:

WPA Settings	
WPA Mode	<input checked="" type="radio"/> PSK <input type="radio"/> EAP
Security Server	<input type="button" value="Edit Security Server Settings"/>
PassPhrase	it'swaprotected
Cipler Type	TKIP
Group Key Update Interval	1800
<input type="button" value="Apply"/>	

WPA Mode: PSK
 PassPhrase: it'swaprotected
 Cipler Type: TKIP
 Group Key Update Interval: 1800

Click “Apply”

(The PassPhrase can be anything, but must be at least 8 characters)

Click Apply to save the settings and restart the access point.

4 Configuring the wireless network adapter

When WPA is configured in the access point you will have to reconfigure the C54i/C54C

Right-click the wireless connection icon in the taskbar, and click

“View Available Wireless Networks”
 Select the access point and use the following settings.

Network Key: use the PassPhrase you entered in the router (it'swaprotected)

When done click “Connect”.

When the connection is successfully windows will report on which access point it is connected and what the signal strength is. You should be able to connect to your access point again with your secure WPA connection.