Wireless Bridge Setup

In wireless networking, bridging mode allows two or more wireless access points to communicate with each for the purpose of joining multiple local area networks (LANs). The Netcomm NP124 using bridge mode functionality provides a single point-to-point connection to another access point while simultaneously supporting wireless clients.

To setup the NP124 in bridge mode complete the following steps:

1. Connect an ethernet cable from the NP124 ethernet port to the ethernet port of your computer.
3. Enter “admin” as both the user name and password and click the Ok button.
4. Select the **Auto Setup** option from the options in quick setup.

5. Select the access point you wish the NP124 to act as a bridge for and press the **Connect** button. For the example below we will select an access point called "ETL-WLAN" for the NP124 will connect to.
6. Make sure the Operation Mode is selected as **Wireless Bridge** and in the Passphrase field put in your wireless password that you use to connect to your wireless connection with.

7. Ensure the wireless security mode, encryption type, and wireless channel is the same as that used by the access point that the NP124 is connecting to. Make any appropriate changes and press the **Apply** button.
8. A message advising the configuration changes are in progress will appear as shown below.

9. You will now come to a page that will say that the settings have saved successfully and the connection status should say "connected".
10. You will now lose connectivity to the NP124 configuration page as the IP address of the NP124 changes once bridge mode has been successfully configured. To confirm the change of IP address for the NP124 open a command prompt:

11. Click **Start > All Programs > Accessories > Command Prompt**.

![Command Prompt window with ipconfig command output]

12. In the command prompt type “`ipconfig`” and press the enter key on your keyboard. The default gateway address of the **Ethernet adapter Local Area Connection** should now be the same IP address as the access point the NP124 is bridging to. As can be seen in the above screen-shot the **Default Gateway** address of the NP124 has changed from 192.168.20.1 to 192.168.1.1. The two access points are now bridged and you should now have network access through the NP124 to the other access point's network.
13. Try entering the new default gateway address in a web browser and the interface of the other access point should now be able to be accessed. The example below shows the access point interface that the NP124 is bridged to accessed using the bridged IP address 192.168.1.1.
Accessing the NP124 GUI Interface Once it is in Bridge Mode

14. To access the interface of the NP124 after it is in bridge mode you will need to set a static IP address on your computer's Local Area Connection network adapter. The IP address needs to be in the range of 192.168.20.2 – 192.168.20.254, with a subnet mask of 255.255.255.0 and a default gateway of 192.168.20.1.

15. To set a static IP address on your computer’s Local Area Connection network adapter so that you can once again access the GUI interface of the NP124 complete the following:

- Click Start > All Programs > Accessories > Command Prompt. Type ncpa.cpl and press enter.

- Right click on Local Area Connection and select Properties.
Double click on Internet Protocol Version 4 (TCP/IPv4) or for Windows XP or earlier Internet Protocol (TCP/IP).

Select Use the Following IP address. Enter 192.168.20.5 as the **IP Address**, 255.255.255.0 as the **Subnet Mask** and 192.168.20.1 as the **Default Gateway**. Press the **Ok** button.

Now open a web browser and enter "**192.168.20.1**" (no quotes) in the address bar. Enter "**admin**" as both the user name and password and click the **Ok** button.
You will then have access to the NP124 web interface.