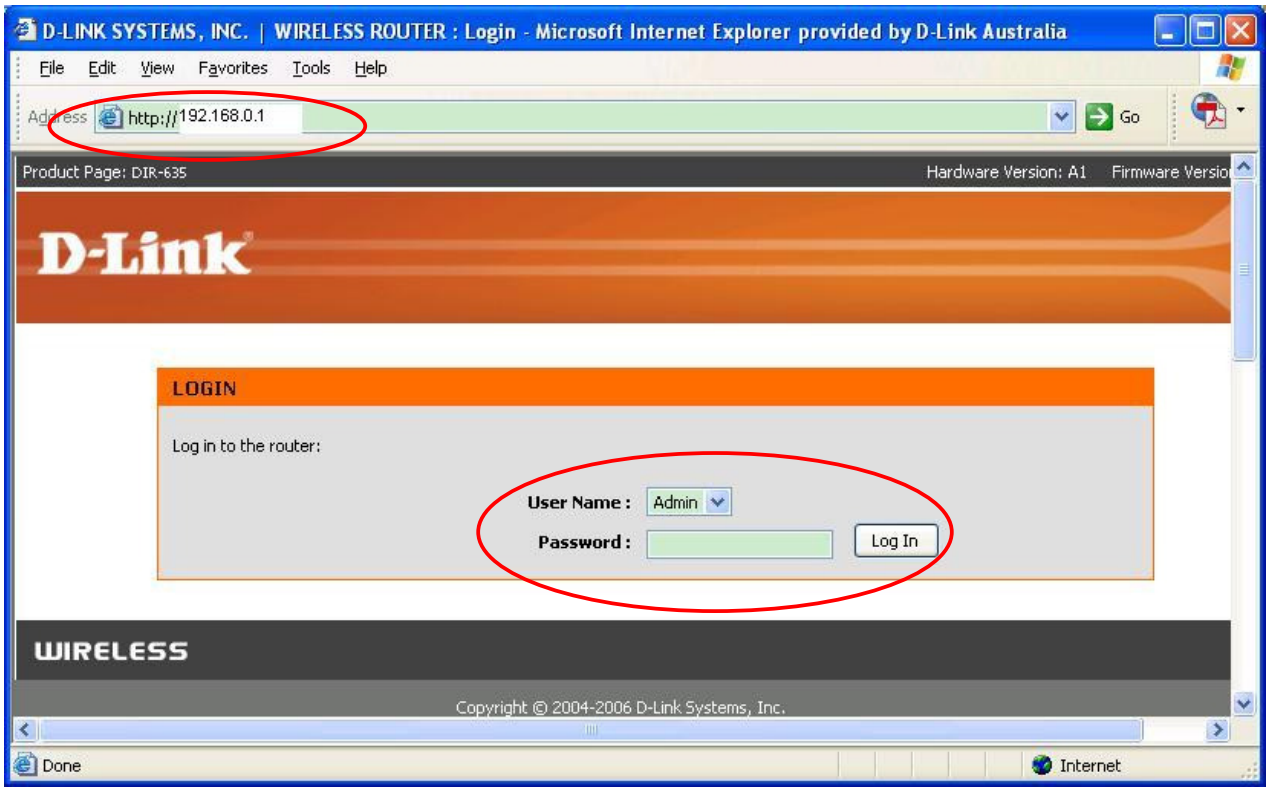
How to Enable Security on Wireless Network with DIR-xxx series

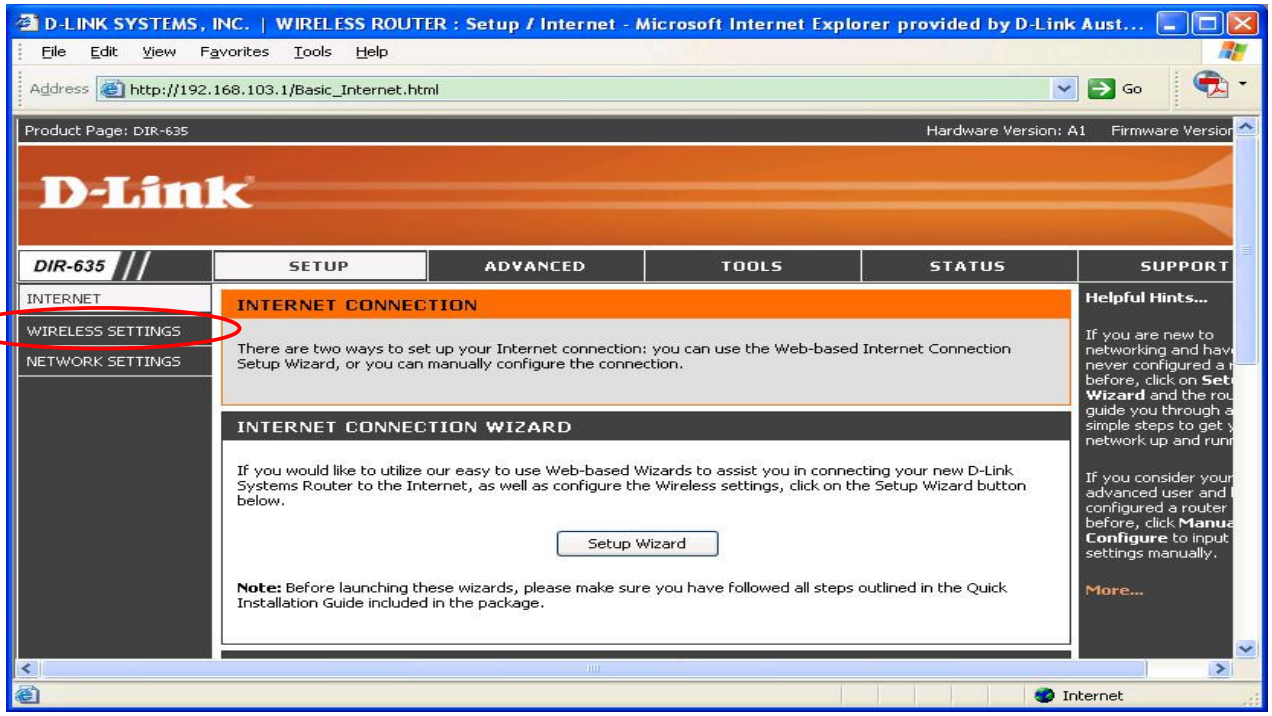
It is recommended to secure your wireless network. To do that you can enable encryption on your router. As a result of this only the users who know the encryption key (“password”) you have set on your router, could access the wireless network. It is recommended to use WPA-Personal encryption, especially if your have 802.11n wireless card. Please kindly note that 802.11n standard only supports WPA encryption. If your wireless card does not support it, use WEP.

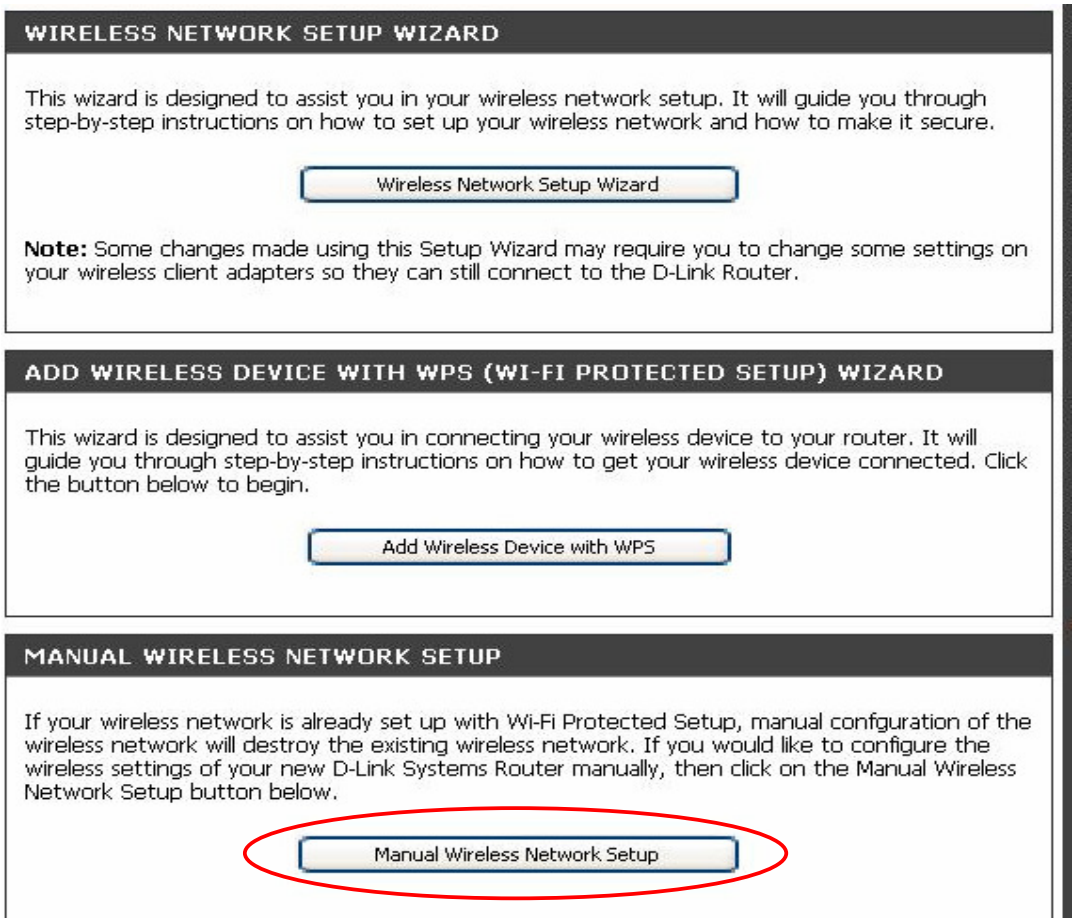
To enable wireless and encryption please follow these steps:

Step 1. Open your web browser and enter the IP address of the router (http://192.168.0.1). Enter user name and password (default username 'Admin' and password is blank (nothing)).



Step 2. Click on 'WIRELESS SETTINGS' button on the left side of your screen. Then click on 'Manual Wireless Network Setup'.

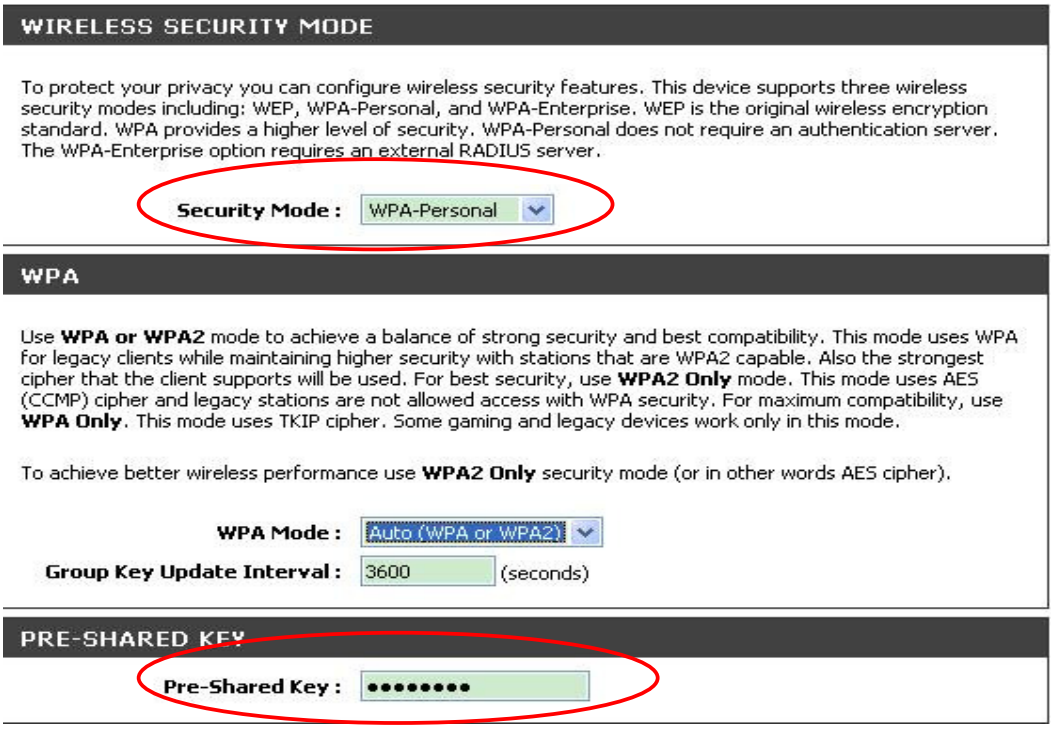




Step 3. Enable security and specify your security key (“password”).

Option 1: WPA-PSK (more secure)

Under **Security Mode** select “WPA-Personal”.
Under **Pre-shared Key** type in a password/key (you can just make it up). The key should be at least 8 characters long.
Click on ‘Save Settings’ and then ‘Reboot the device’

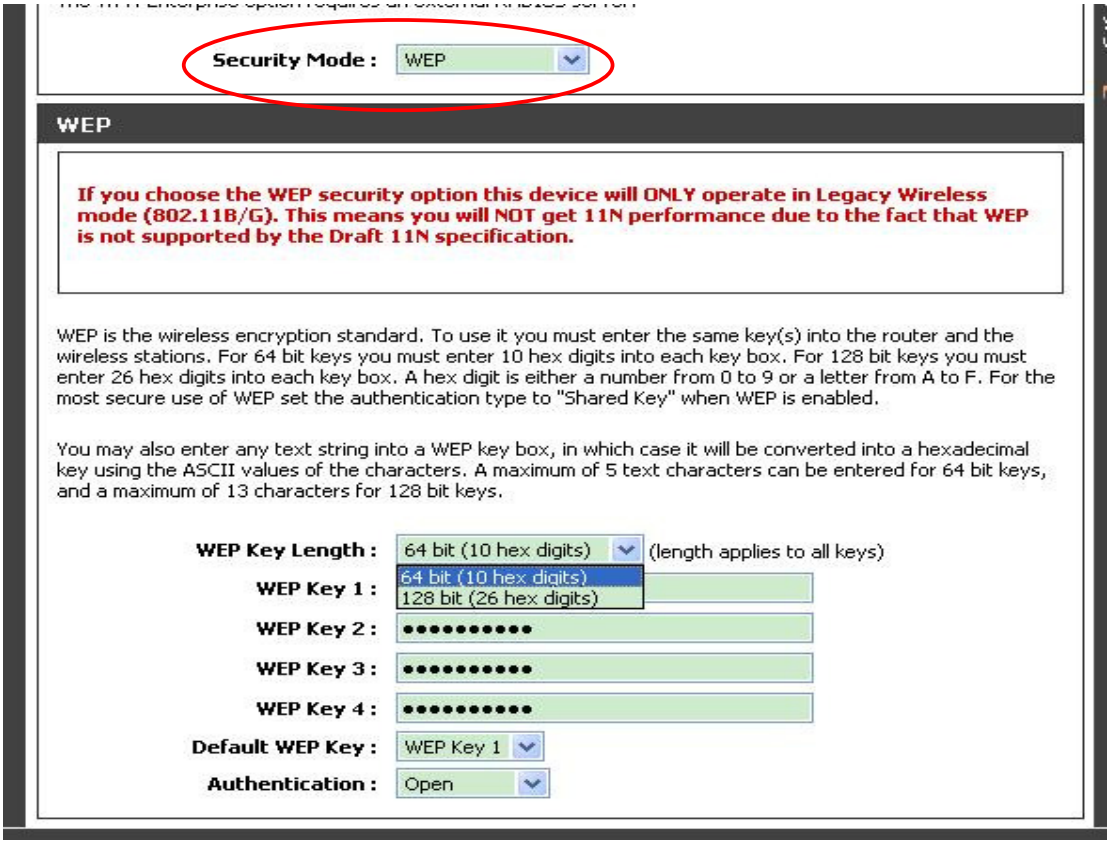


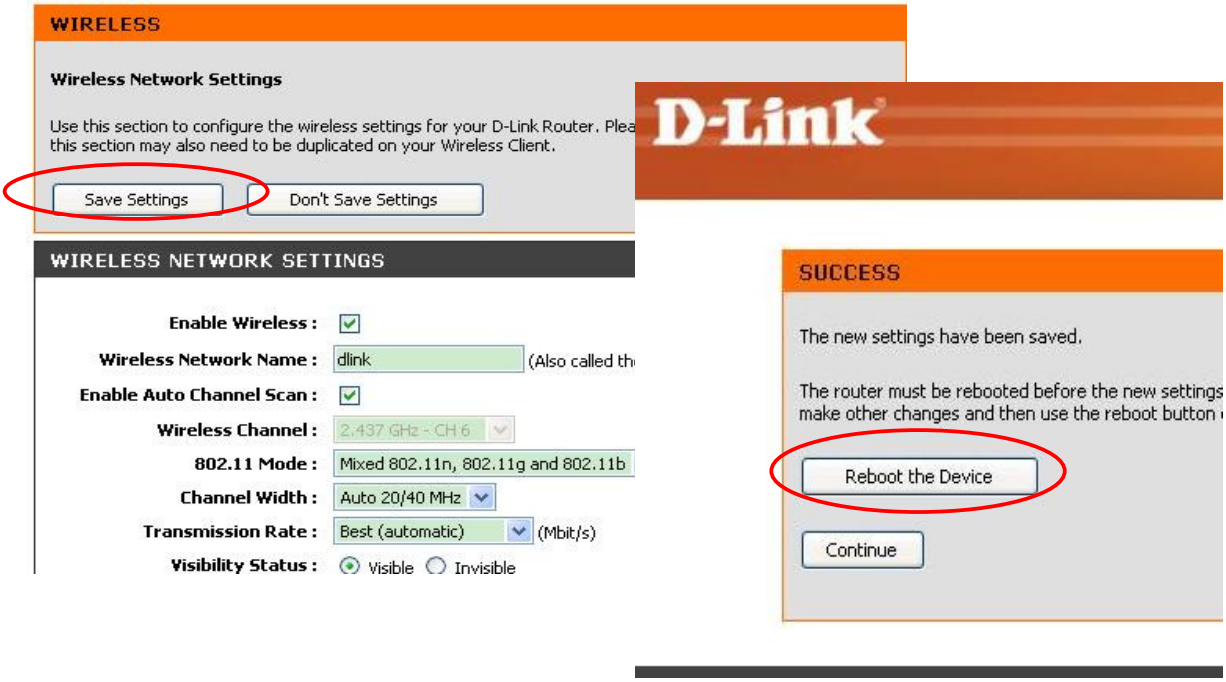
Option 2: WEP (less secure)

Under **Security** select “WEP”.

Under **WEP Key** type in the encryption key you want to use. 64 Bit encryption requires a 10 character HEX key and 128 bit encryption requires a 26 character HEX key. (HEX characters include numbers from 0 to 9 and letters from A to F).

Click on ‘Save Settings’ and then ‘Reboot the device’



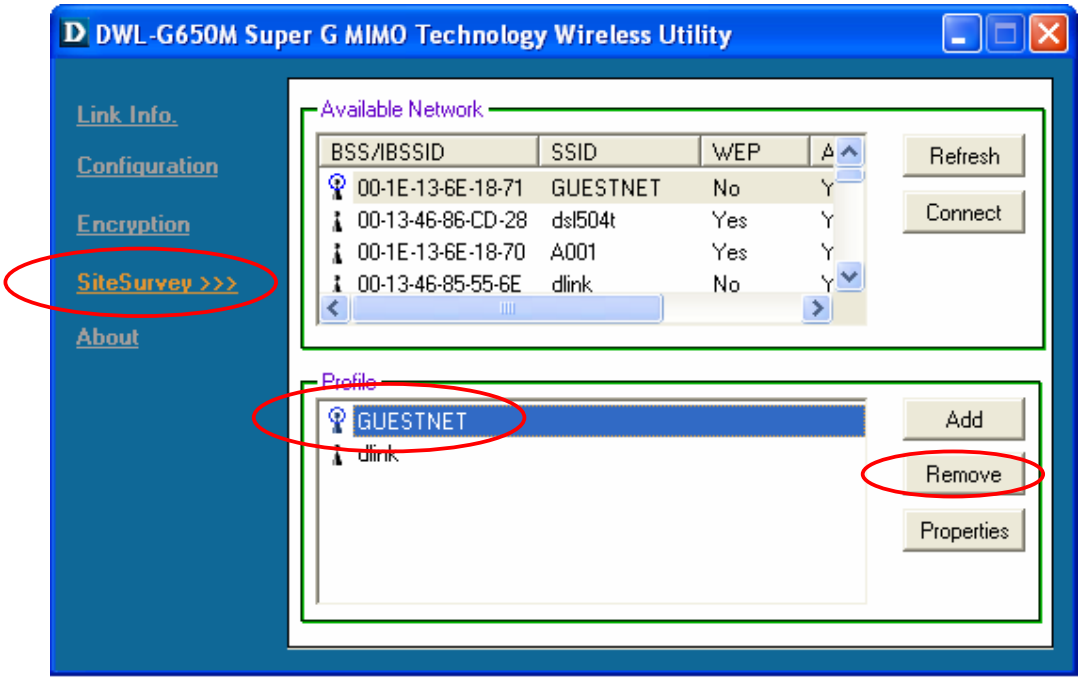


Step 4. Reconnect your wireless clients (computers) to the wireless network using the specified key (“password”). Note that after applying the security on your router, your wireless clients will lose wireless connectivity until you specify the correct key (“password”).

To reconnect to the wireless network:
On your wireless computers delete the old profile for the wireless network connection (if present). Attempt to connect to your wireless network again. You will be prompted to enter the encryption key (“password”). Type in the key you have entered in Step 2. Note that the WPA/WPA2-PSK key is case sensitive.

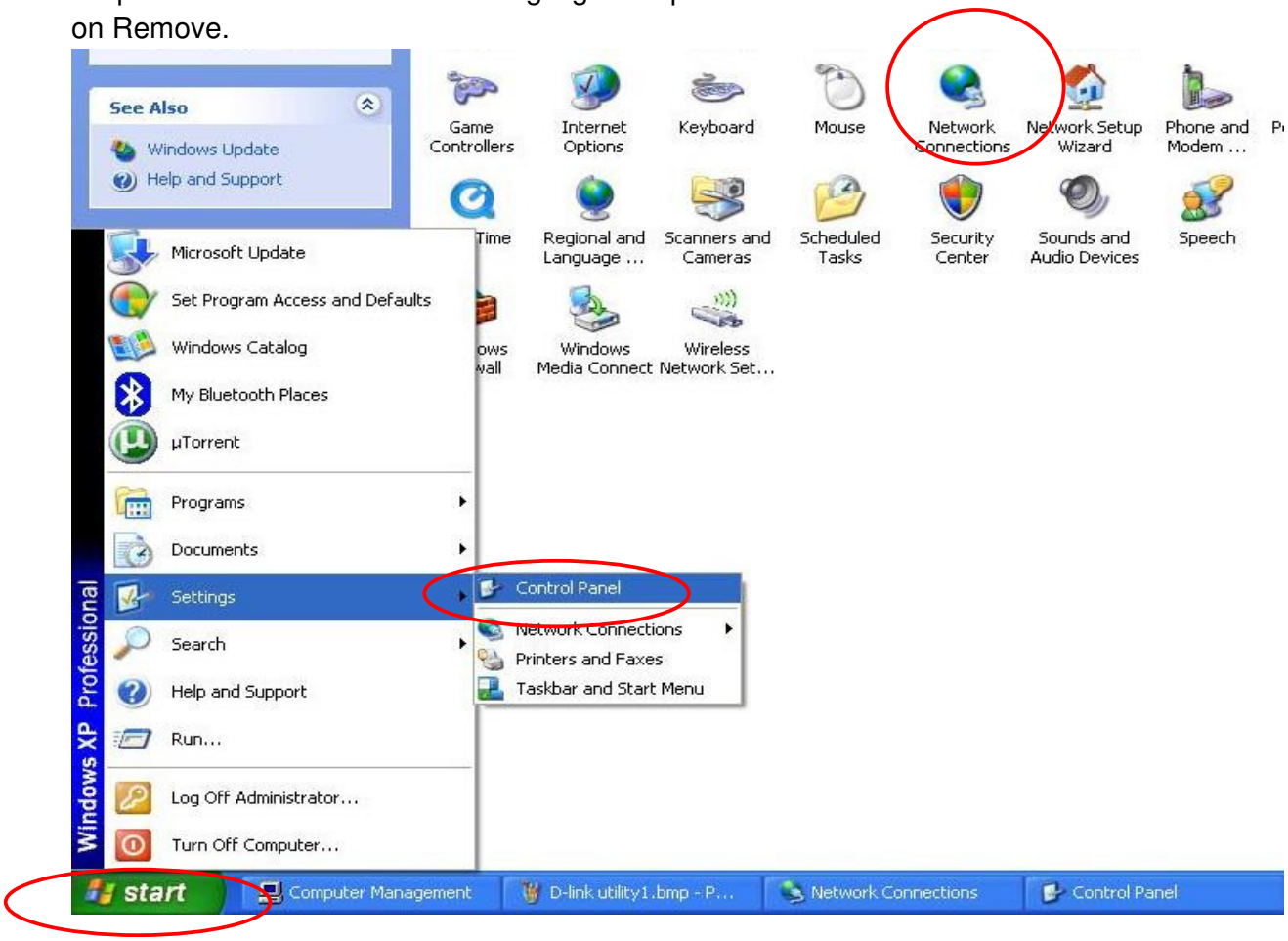
To delete the old profile:
D-Link Air Utility

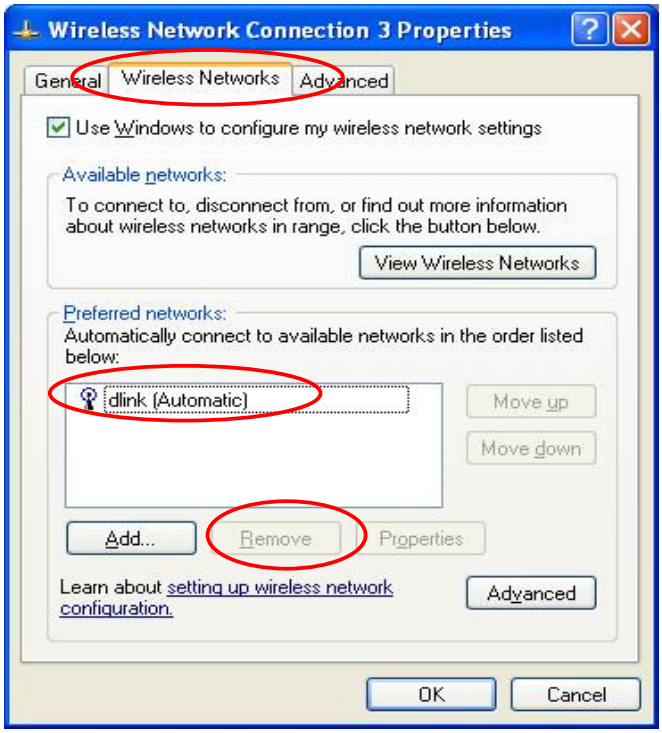
Click on ‘Site Survey’. Highlight the WLAN profile under “Profiles” field and click on Remove.



Windows XP Utility

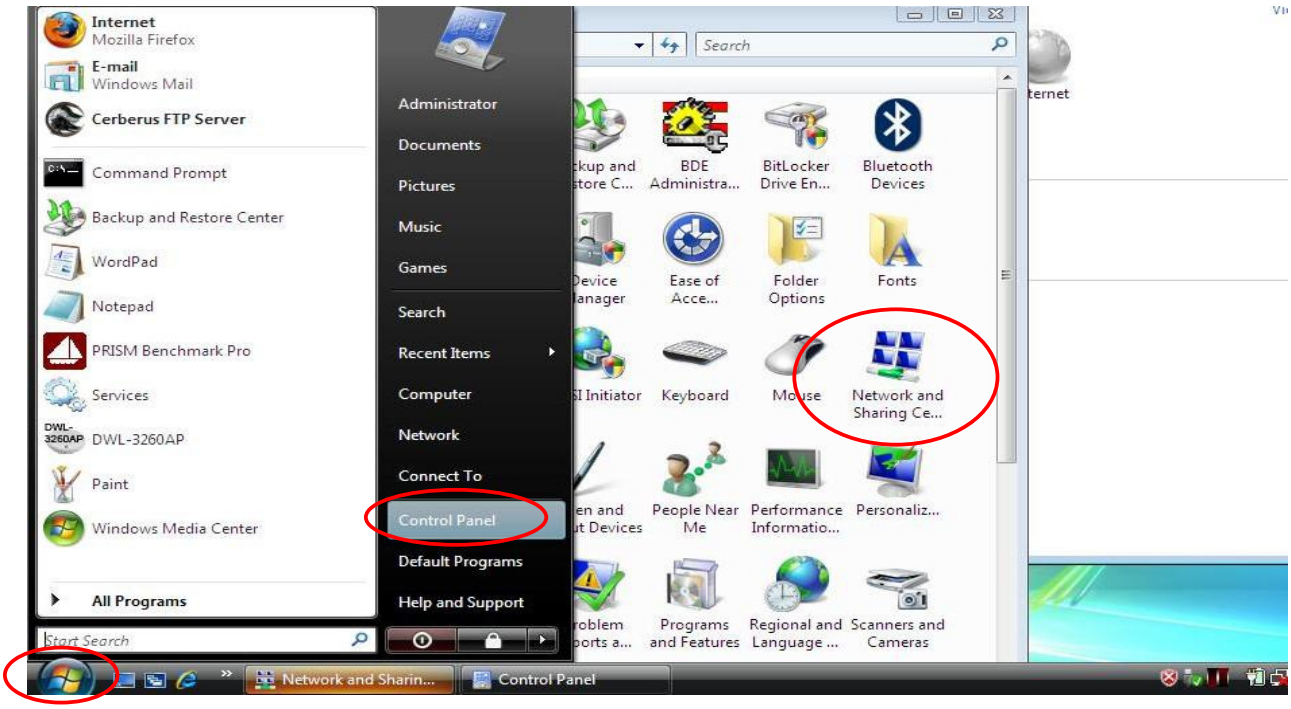
Go to Start>Control panel>Network Connections folder, right-click Wireless Connection > Properties > Wireless Networks. Highlight the profile under “Preferred networks” field and click on Remove.

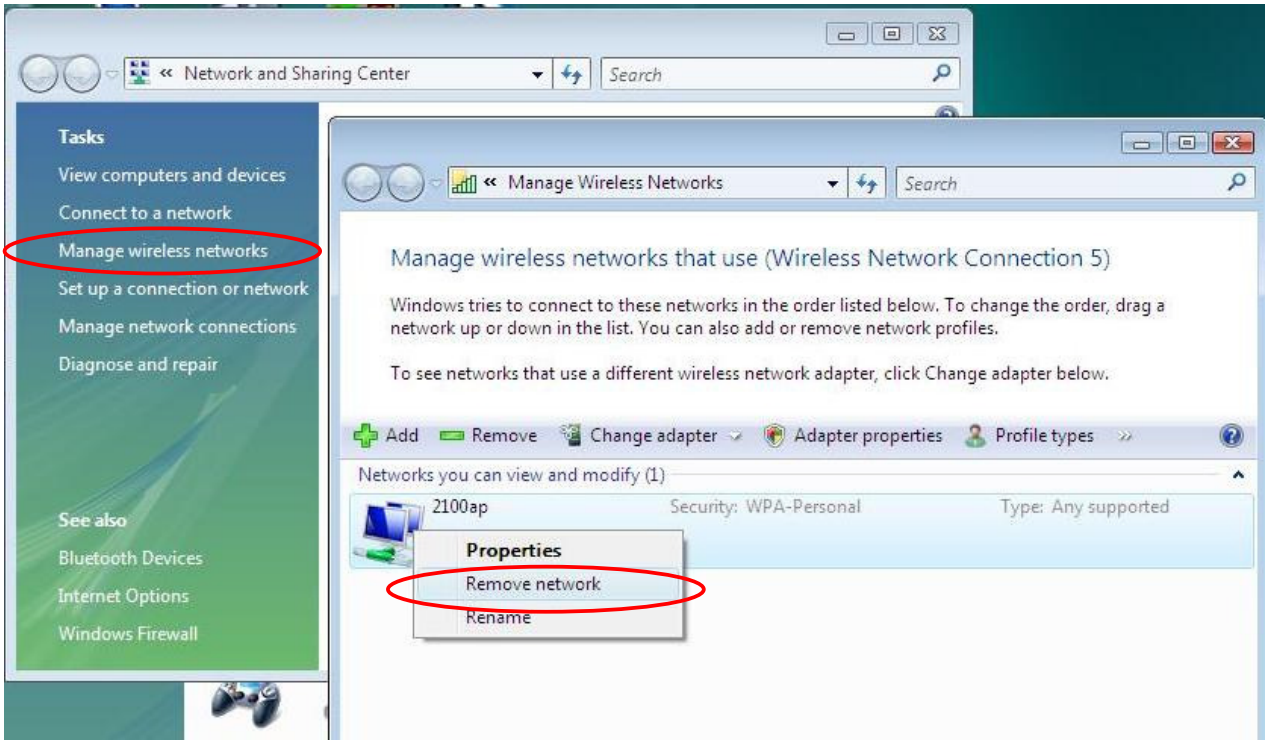




Windows Vista

Control Panel > Network and Internet > Network and Sharing Centre. Click on “Manage wireless networks”. Right-click on the network you want to remove and select “Remove network”.





The new profile will be created automatically after successful connection to the secured network.

Other security options (WPA2-PSK, WPA, 802.1x)

WPA2-PSK offers even better protection but not all clients may support WPA2-PSK. Advanced security options like WPA-Enterprise require a RADIUS server installed on a network, these mostly used in corporate environment.