

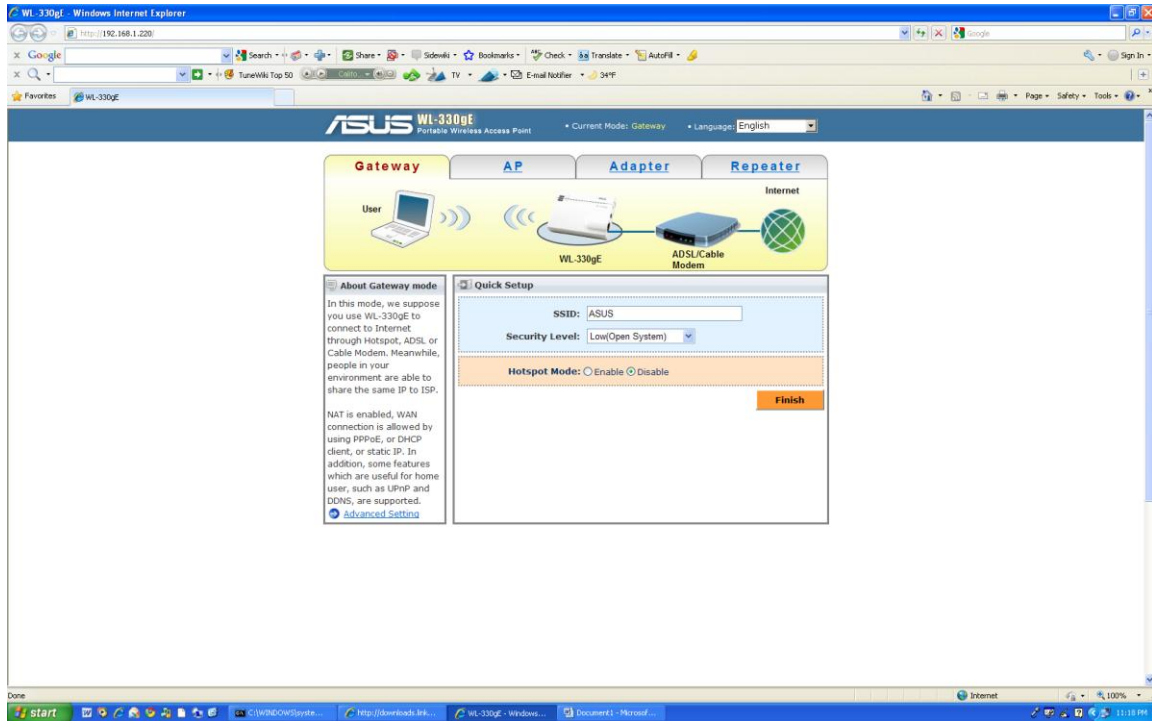
ASUS WL-330gE Setup

Jason at NSS reserved MAC Addresses for Robots and ASUS Bridges:

- 1463EB1
 - ASUS Bridge MAC: E0-CB-4E-5D-E6-EA:
 - ASUS Bridge IP: 172.18.63.1
 - Robot MAC:00-80-2f-11-e0-29
 - Robot IP: 172.18.63.0 ese-robot-1463eb1.wufi.wustl.edu
- 14BCCCF
 - ASUS Bridge MAC: E0-CB-4E-1B-95-1A
 - ASUS Bridge IP: 172.18.63.3
 - Robot MAC: -----
 - Robot IP: 172.18.63.2 ese-robot-14BCCCF.wufi.wustl.edu
- 148CCC1
 - ASUS Bridge MAC: E0-CB-4E-5D-E2-50
 - ASUS Bridge IP: 172.18.63.5
 - Robot MAC: -----
 - Robot IP: 172.18.63.4 ese-robot-.wufi.wustl.edu
- 1463EAB
 - ASUS Bridge MAC: E0-CB-4E-5D-E2-EB
 - ASUS Bridge IP: 172.18.63.7
 - Robot MAC: -----
 - Robot IP: 172.18.63.6 ese-robot-1463EAB.wufi.wustl.edu
- 14BCCC5
 - ASUS Bridge MAC: E0-CB-4E-5D-E2-10
 - ASUS Bridge IP: 172.18.63.9
 - Robot MAC: -----
 - Robot IP: 172.18.63.8 ese-robot-14BCCC5.wufi.wustl.edu

Configuration Instructions for WUFI

1. Reset device by holding the reset button for 10 seconds. Then turn off for 10 seconds and plug Ethernet cable into PC and turn on.



2. Browse to 192.168.1.220
 - a. Username: admin
 - b. Password: admin

The screenshot shows the ASUS WL-330gE web interface. At the top, the browser title is "WL-330gE - Microsoft Internet Explorer" and the address bar shows "http://192.168.1.220/Wizard_Adapter.asp". The page header includes the ASUS logo, "WL-330gE Portable Wireless Access Point", "Current Mode: Gateway", and "Language: English".

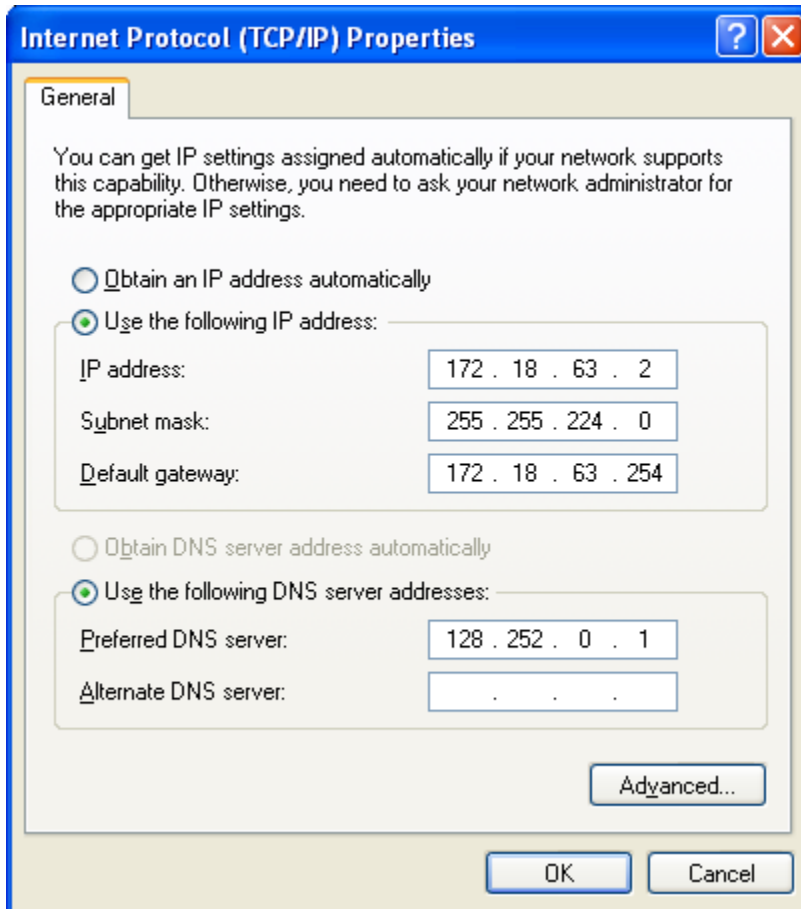
The main content area features four tabs: "Gateway", "AP", "Adapter" (which is highlighted in yellow), and "Repeater". Below these tabs is a diagram showing a "User" (computer and monitor) connected to a "WL-330gE" device, which is connected to an "AP" (wireless router), which is in turn connected to the "Internet" (globe icon).

Below the diagram, there are two sections:

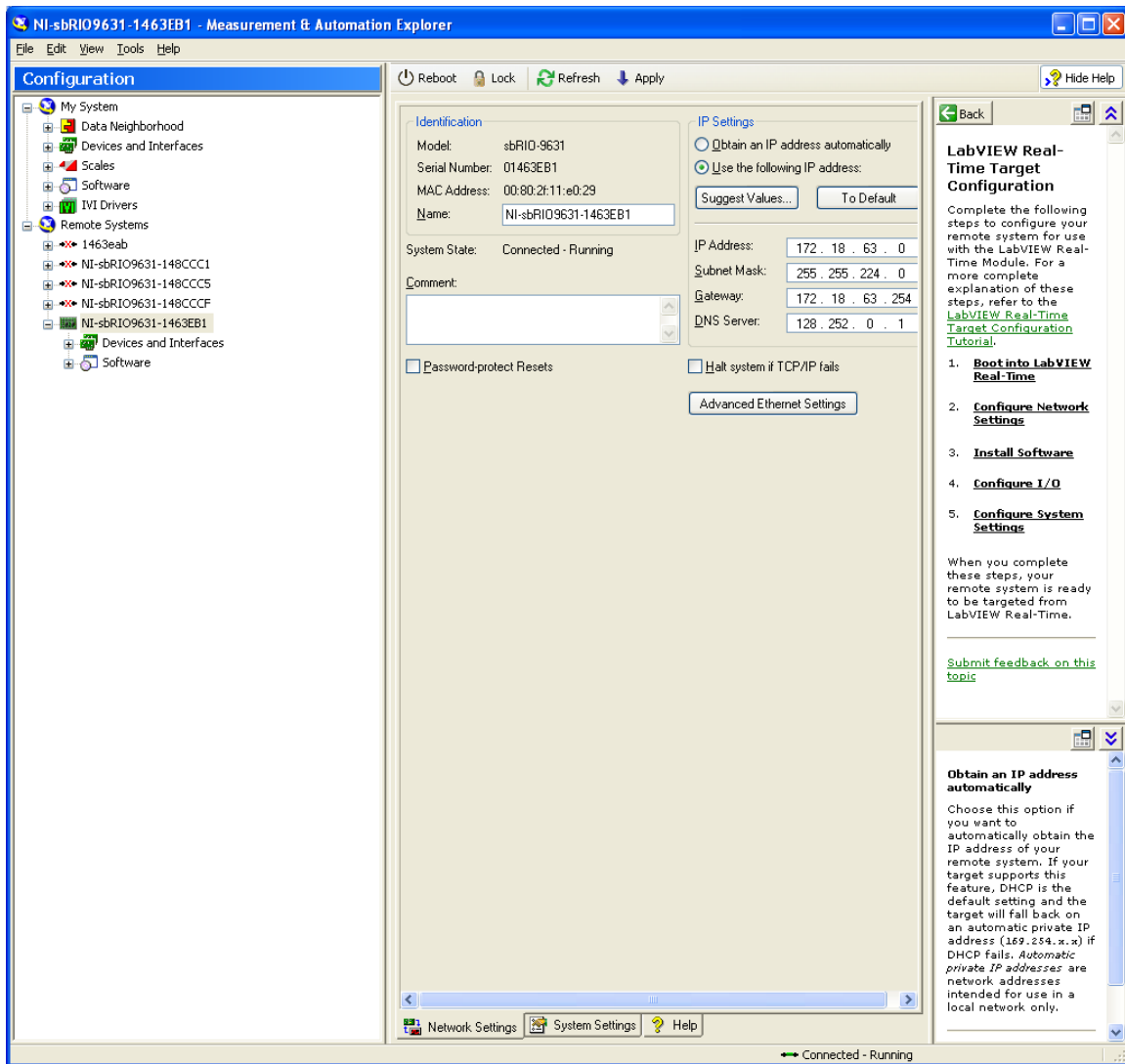
- About Adapter mode:** A text box explaining that in this mode, the WL-330gE acts as a wireless network adapter connecting to WLAN. It states that devices can connect to WLAN through the Ethernet port of the WL-330gE. There is a link for "Advanced Setting".
- Quick Setup:** A section containing an "Available Network List" table. The table has columns for SSID, Channel, Authentication, Signal, and Status. The "wunoreg" network is selected with a radio button.

At the bottom of the "Quick Setup" section, there are three buttons: "Add", "Connect" (highlighted in orange), and "Refresh".

3. Select wunoreg and click on Connect. You will lose the connection to the ASUS at this point. The MAC addresses are in the QIP tables, so the IP will be automatically assigned according to the table above.

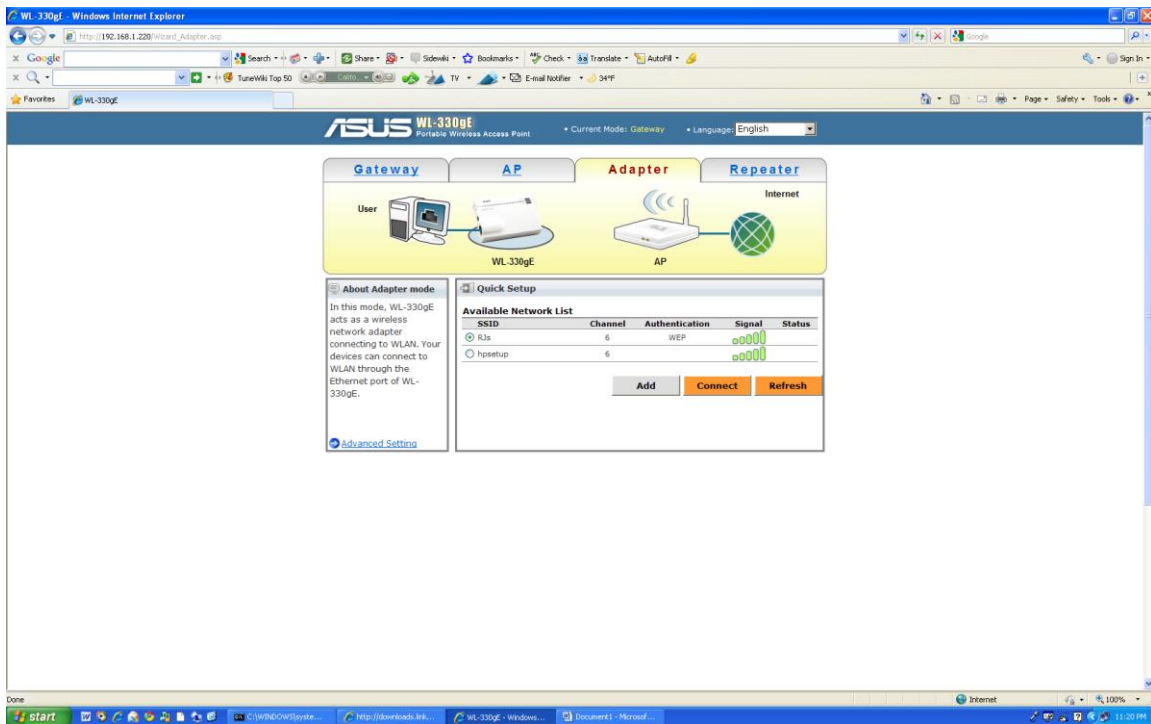


4. To test, change the network settings – Use the IP of the robot you are going to connect the bridge to. Make sure it is off the network.

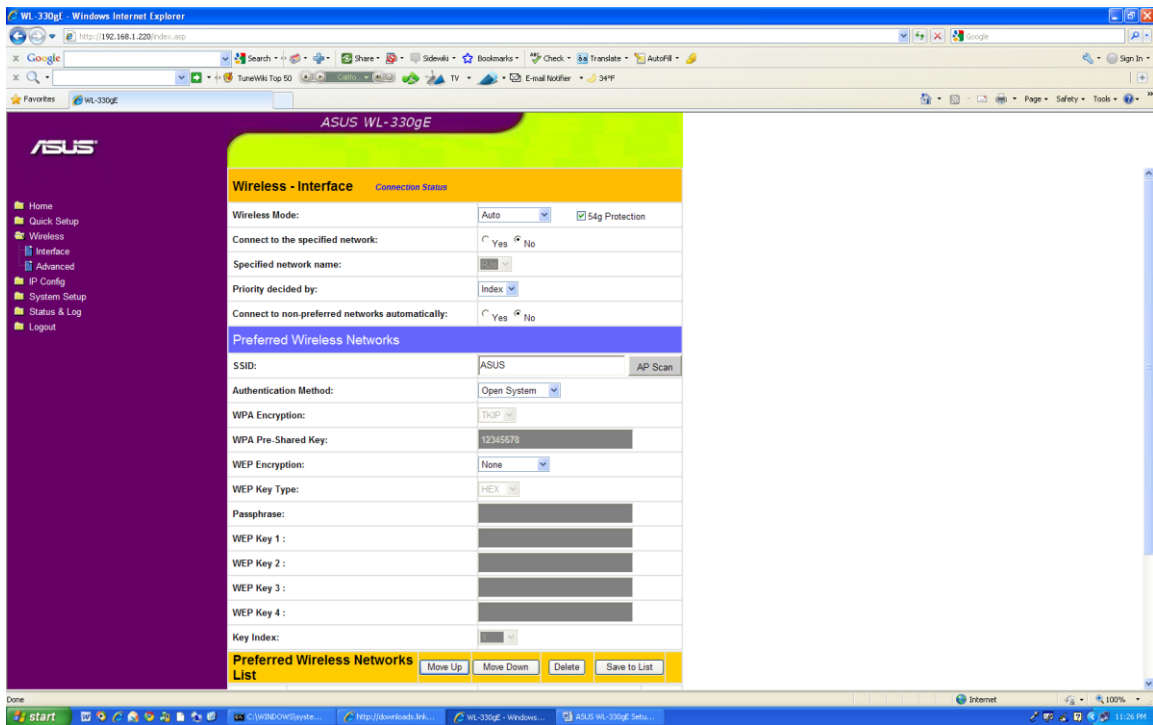


5. Now configure the robot to use the IP from the table above. If you do not know the IP of the robot, then you need to reset the IP. Do this by turning ON (Down) DipSwitch -3 and pressing the Reset switch. Then hit refresh in MAX.

Configuration Instructions for WEP Wireless Network



1. Click on the Adapter tab, select the SSID and Click Connect. Enter the WEP password if prompted. However, this doesn't seem to work so you have to add it again on the Advanced Settings page.



2. Click on Advanced -> Wireless -> Interface. Click on AP Scan

WL-330gE Web Manager - Windows Internet Explorer

http://192.168.1.220/Advanced_WirelessAPScanPre_Content.asp

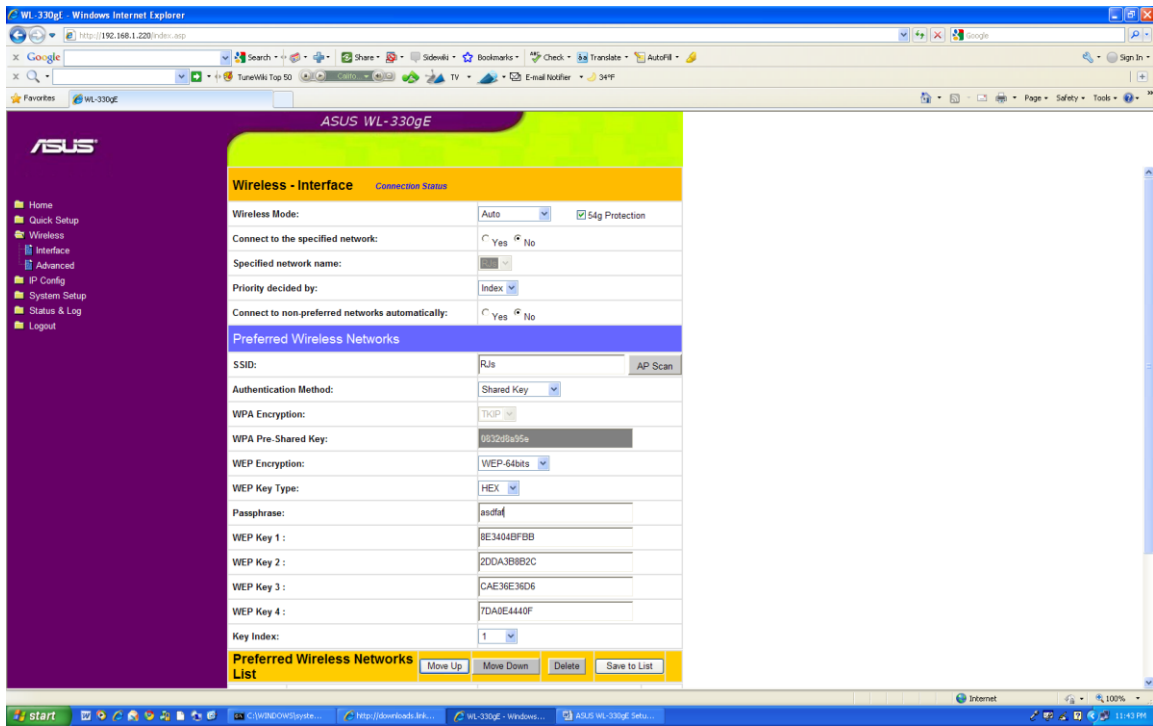
AP Scan Results

Refresh Close

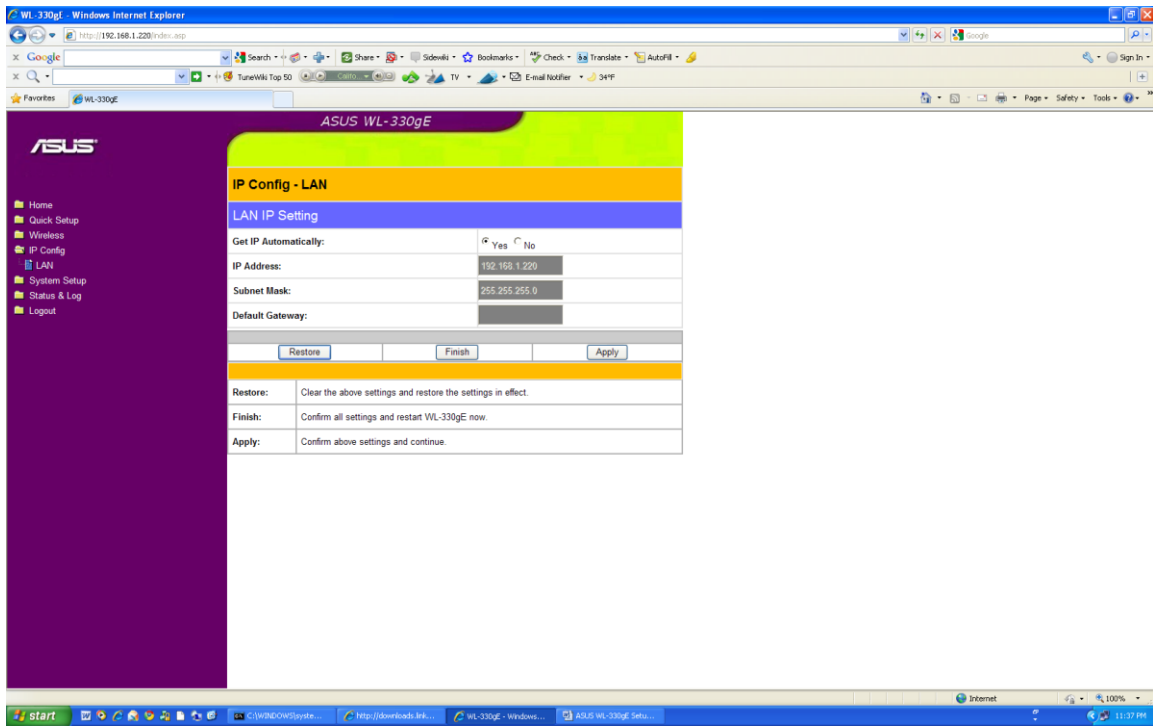
BSSID	SSID	Authentication	Channel	Signal
00:1E:E5:01:CD:97	RJs <input type="button" value="Select"/>	WEP	6	-62 dBm

Done Internet 100%

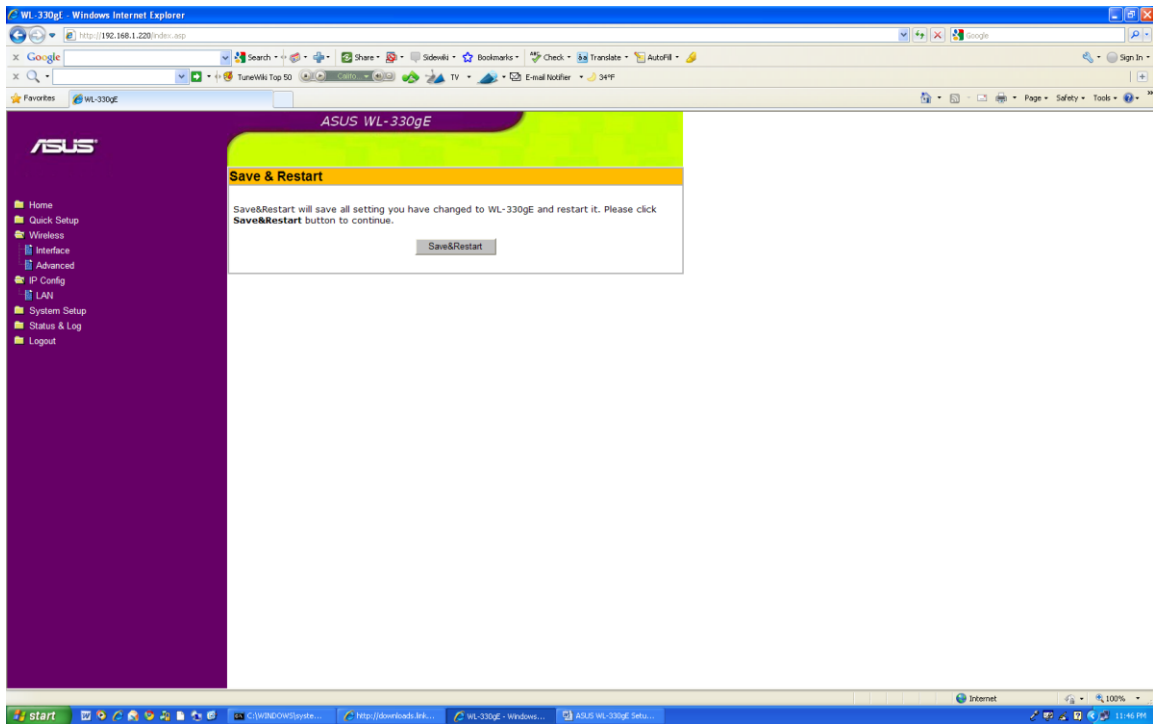
3. Click Select for the correct SSID.



4. Enter either passphrase or WEP key directly and click Save to List and Apply.



5. Click on IP Config -> LAN and check Get IP Automatically and Finish.



6. Click Save & Restart. After it gets to 100% it starts clicking. Unplug the adapter for 10 seconds and plug it back in.

```
C:\WINDOWS\system32\cmd.exe
Connection-specific DNS Suffix . . :
Autoconfiguration IP Address. . . : 169.254.18.31
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :

C:\Documents and Settings\Richter-Jacobs>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . . :
    IP Address. . . . . : 192.168.2.105
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.2.1

Ethernet adapter Local Area Connection 5:

    Connection-specific DNS Suffix . . :
    Autoconfiguration IP Address. . . : 169.254.18.31
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . :

C:\Documents and Settings\Richter-Jacobs>
```

7. Check and make sure that the adapter pulls a valid DHCP IP.
8. When you plug it into the sbRIO, make sure you cycle power on the sbRIO – otherwise it doesn't go out and get a new IP.