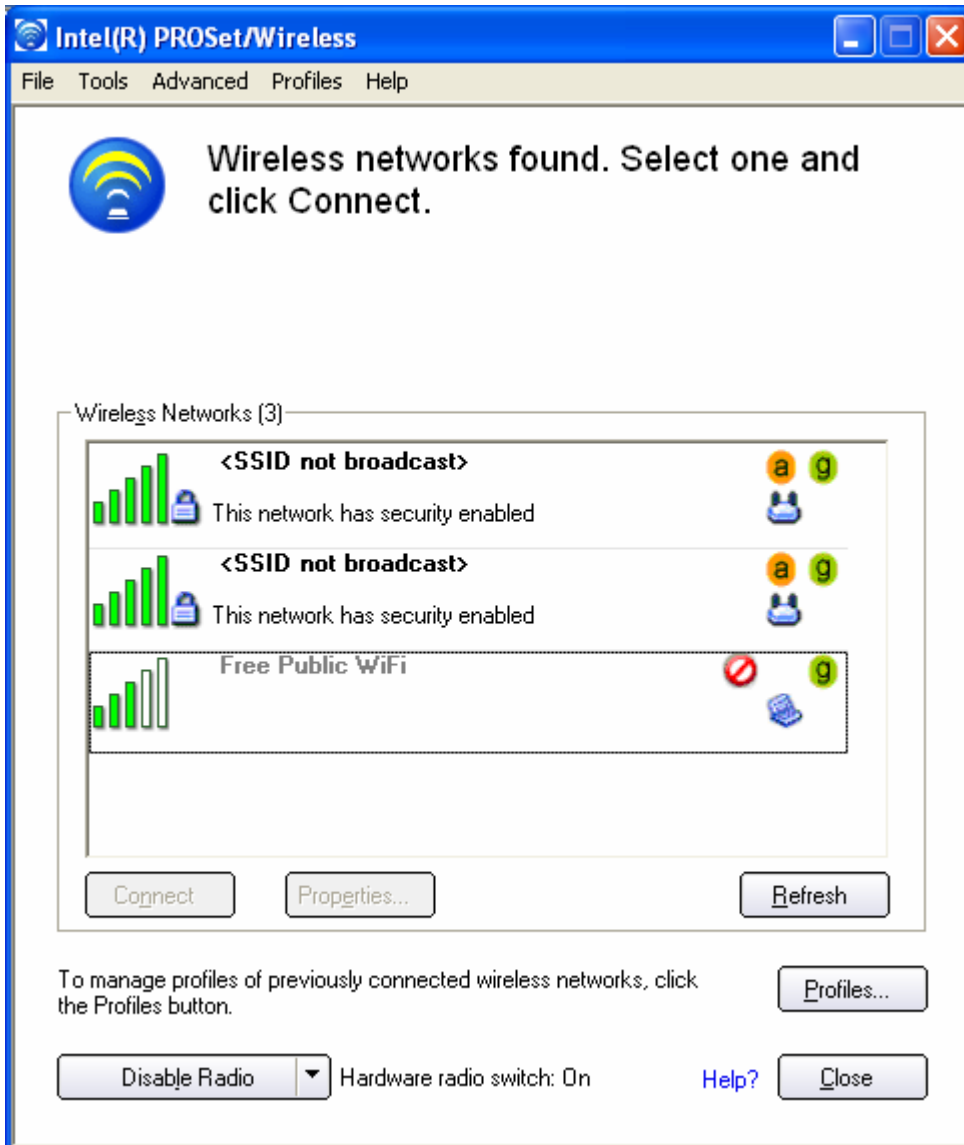
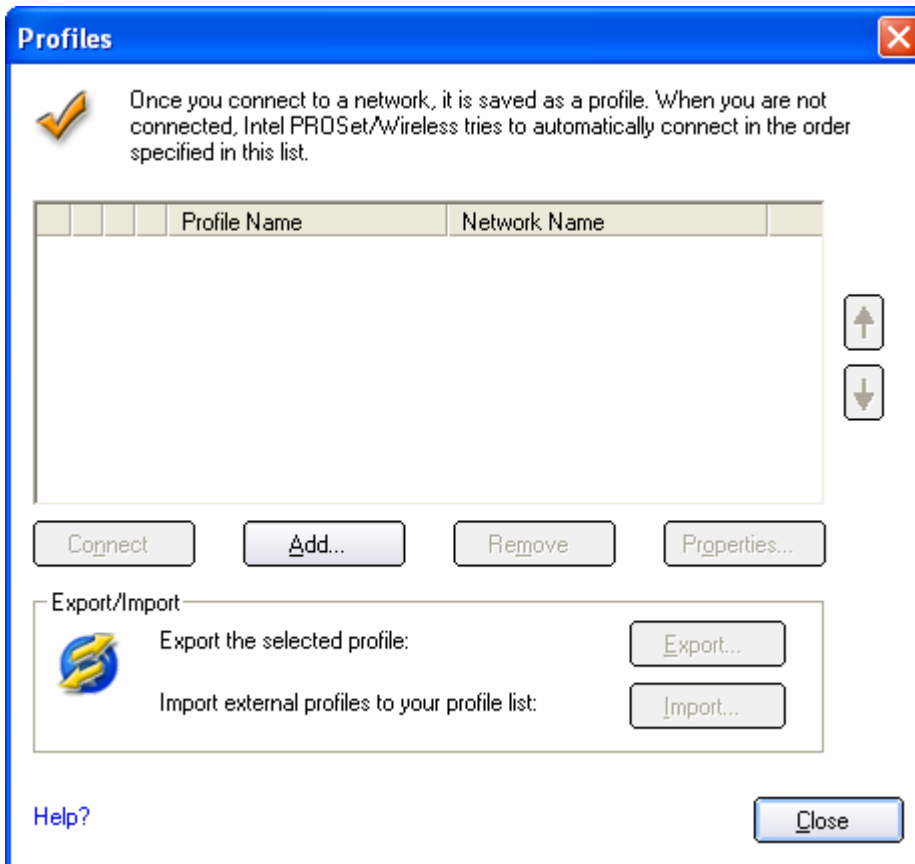


Intel 3945ABG PROSet/Wireless Client Configuration – Dell Latitude D820

1. Open the PROSet/Wireless Client Configuration Utility
2. Click on the **Profiles...**



3. Select **Add...**



4. Fill out the information as directed below Enter Profile Name:
NCSA_Admin User or NCSA_College User shown below

Enter SSID1 based on category below:

- Faculty/Staff use: **nlsa_admin**
- High School students use: **nlsa_hs**
- College students use: **nlsa_college**

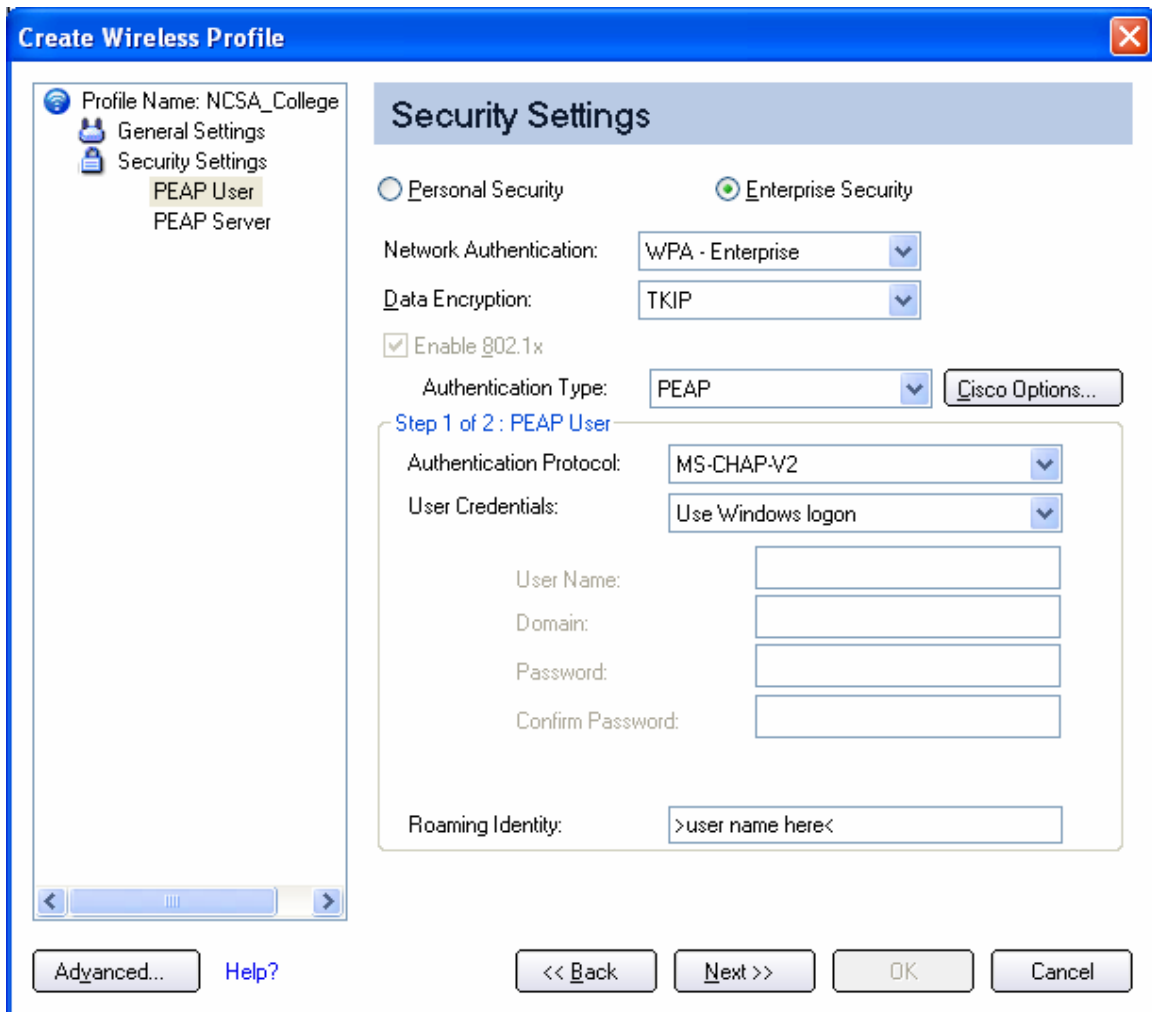
Click Next

The screenshot shows a Windows dialog box titled "Create Wireless Profile". On the left, a sidebar lists "Profile Name: NCSA_College", "General Settings" (which is highlighted), and "Security Settings". The main area is titled "General Settings" and contains the following fields and options:


- Profile Name:** A text box containing "NCSA_College User".
- Wireless Network Name (SSID):** A text box containing "ncca_college".
- Operating Mode:** Two radio button options:
 - Network (Infrastructure)** - Connect to wireless networks and/or the Internet.
 - Device to Device (ad hoc)** - Connect directly to other computers.

At the bottom of the dialog, there are buttons for "Advanced...", "Help?", "<< Back", "Next >>", "OK", and "Cancel".

5. Choose Enterprise Security
 - Network Authentication: WPA - Enterprise
 - Data Encryption: TKIP
 - Authentication Type: PEAP
 - Authentication Protocol: MS-CHAP-V2
 - User Credentials: Use Windows Login (students should select an option that allows them to fill out the user name/ domain/ password with their student email information.)



6. Click Cisco Options...
7. Make sure that Enable Cisco Compatible Extensions and Enable Radio Management are checked

Cisco Compatible Extensions Options 

Allow Fast Roaming (CCKM)
Enable if your wireless network has fast roaming configured. Fast roaming allows the device to roam between access points without involving the main server.

Enable Cisco Compatible Extensions
Select to enable Cisco Compatible Extensions for this wireless connection profile.

Enable Radio Management Support
Enable this feature so that the client adapter will provide Radio Management to the Cisco infrastructure. If the Cisco Radio Manager utility is used on the infrastructure, it will configure radio parameters, detect interference and detect Rogue APs.

Enable Mixed Cells Mode
Cisco infrastructure supports mixed cells where some clients use encryption and others do not. In a mixed cell, the capability bit for privacy will not be set in beacons and probe response packets.

[Help?](#)

8. Uncheck **Validate Server Certificate**
9. Click OK

The screenshot shows the 'Create Wireless Profile' dialog box with the 'Security Settings' tab selected. The profile name is 'NCSA_College'. The 'Enterprise Security' radio button is selected. The 'Network Authentication' is set to 'WPA - Enterprise' and 'Data Encryption' is set to 'TKIP'. The 'Enable 802.1x' checkbox is checked. The 'Authentication Type' is set to 'PEAP'. The 'Step 2 of 2: PEAP Server' section is expanded, showing the 'Validate Server Certificate' checkbox is unchecked. The 'Certificate Issuer' dropdown is set to 'Any Trusted CA'. The 'Specify Server or Certificate Name' checkbox is also unchecked. The 'Server or Certificate Name' text box is empty. Below this, there are two radio buttons: 'Server name must match the specified entry exactly' (unchecked) and 'Domain name must end with the specified entry' (checked). At the bottom of the dialog, there are buttons for 'Advanced...', 'Help?', '<< Back', 'Next >>', 'OK', and 'Cancel'.

Create Wireless Profile

Profile Name: NCSA_College

- General Settings
- Security Settings
 - PEAP User
 - PEAP Server

Security Settings

Personal Security Enterprise Security

Network Authentication: WPA - Enterprise

Data Encryption: TKIP

Enable 802.1x

Authentication Type: PEAP Cisco Options...

Step 2 of 2: PEAP Server

Validate Server Certificate

Certificate Issuer: Any Trusted CA

Specify Server or Certificate Name

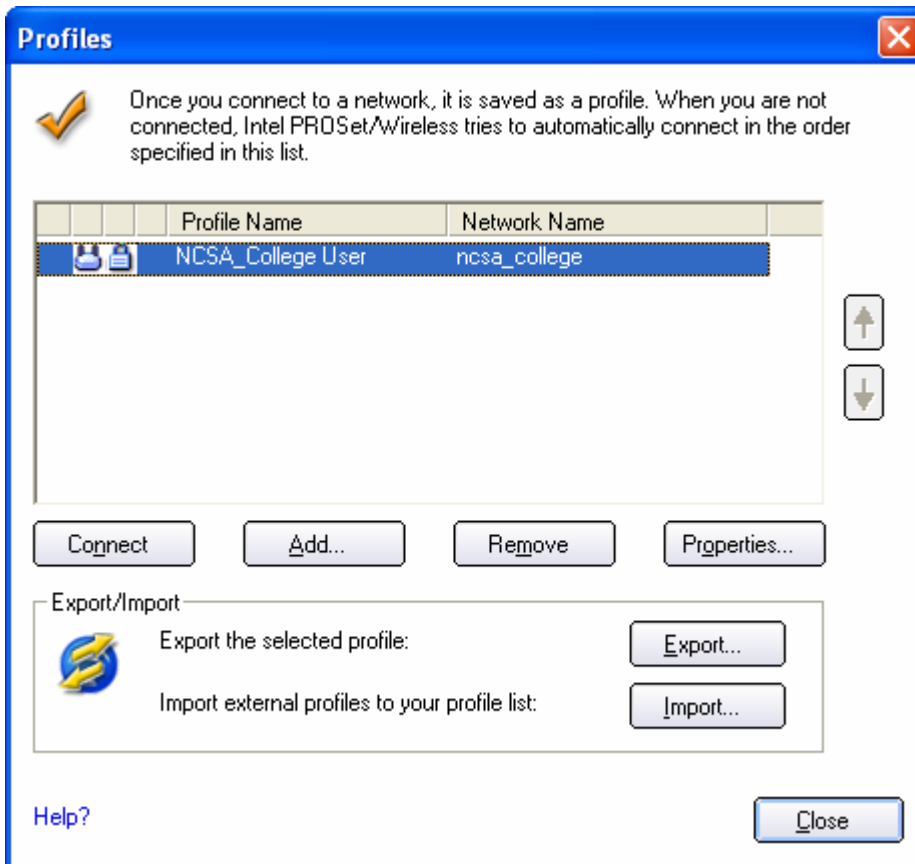
Server or Certificate Name: []

Server name must match the specified entry exactly

Domain name must end with the specified entry

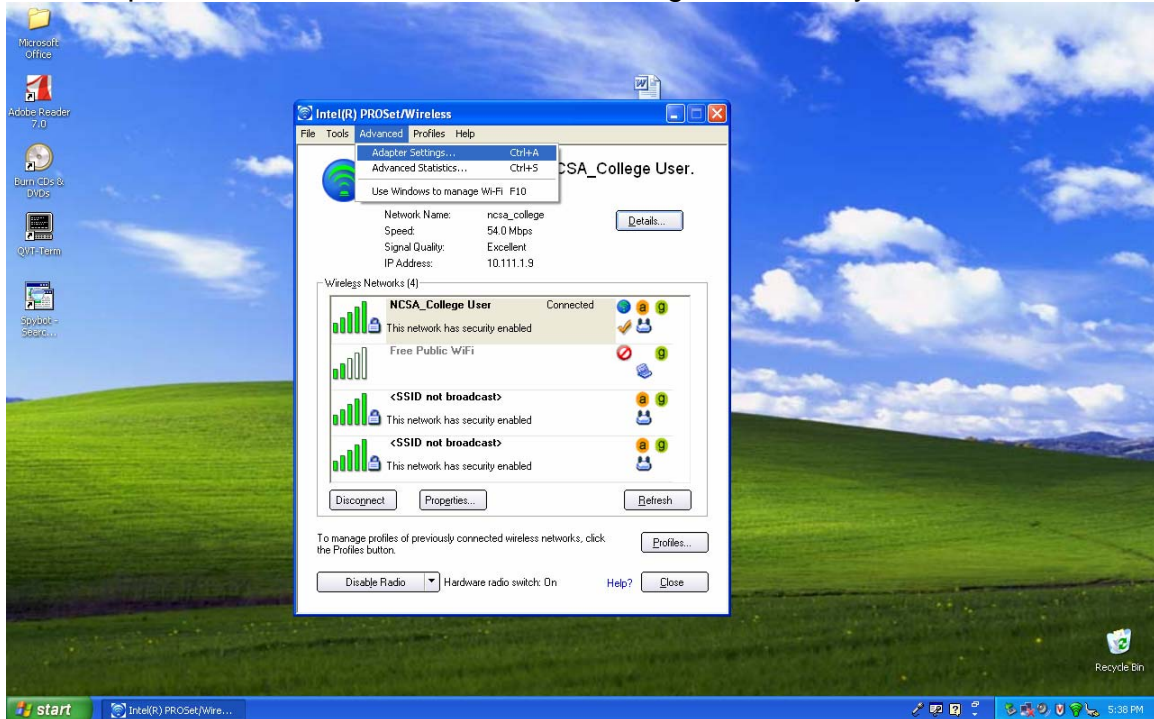
Advanced... Help? << Back Next >> OK Cancel

10. Select profile and click **Connect**



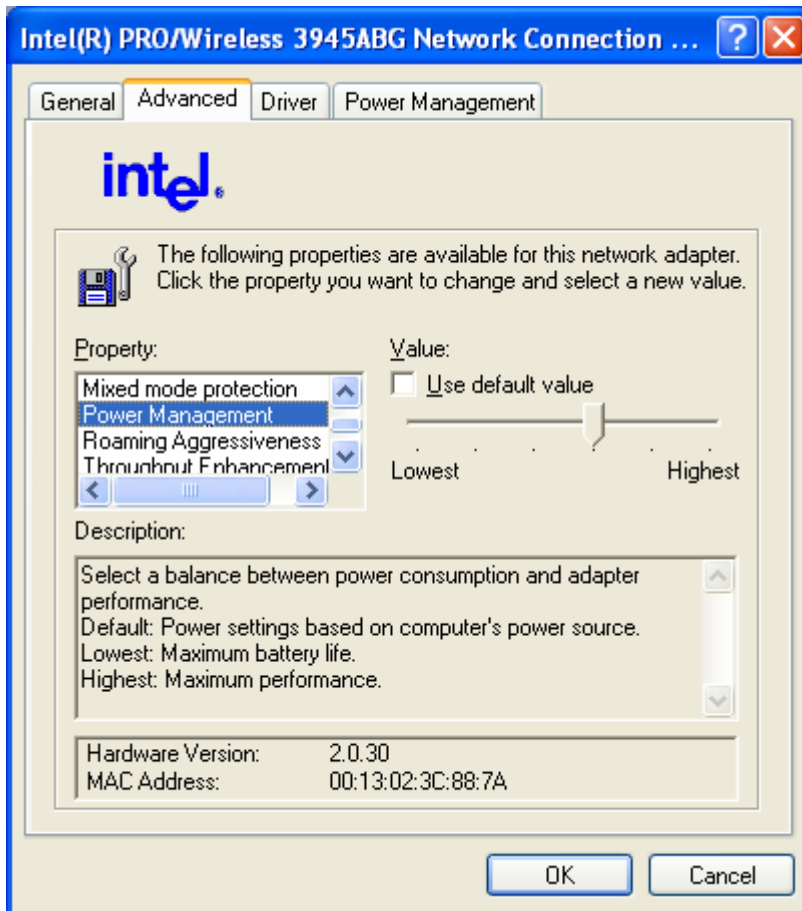
The successful connection should have a pop-up with your IP address and connection speed.

11. Open the PROSet/Wireless Client Configuration Utility

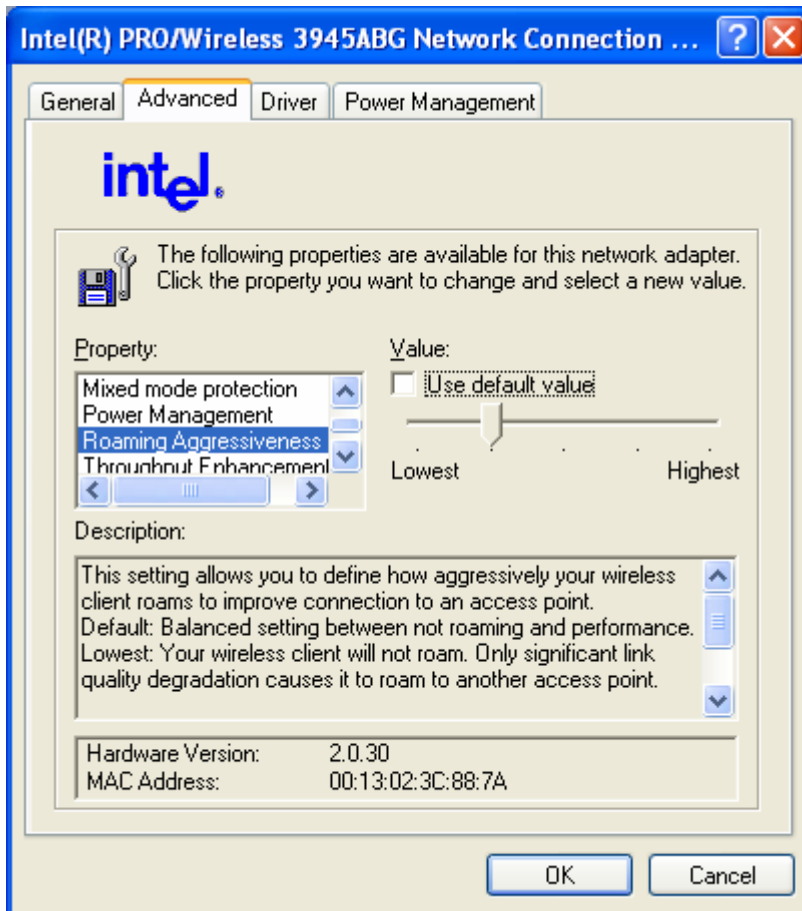


12. Click on **Advanced>Adapter Settings...**

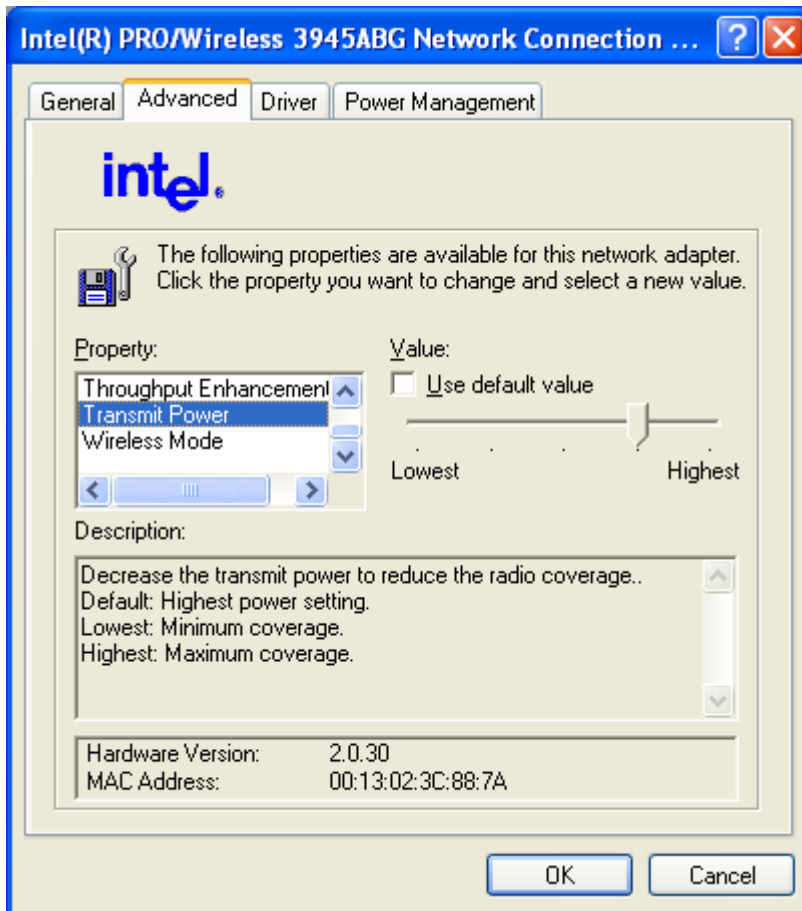
13. Scroll down to **Power Management** and adjust the slide to the position in the picture.



14. Scroll down to **Roaming Aggressiveness** and adjust the slide to the position in the picture.




15. Scroll down to **Transmit Power** and adjust the slide to the position in the picture.



16. Scroll down to **Wireless Mode** and select 802.11a, 802.11b, and 802.11g.
17. Click **OK**

Intel(R) PRO/Wireless 3945ABG Network Connection ...

General Advanced Driver Power Management



The following properties are available for this network adapter.
Click the property you want to change and select a new value.

Property: Value:

Throughput Enhancement Use default value

Transmit Power

Wireless Mode 802.11a, 802.11b and 802.11g

Description:

Select which band to use for connection to a wireless network:
These wireless modes (modulation type) determine the discovered
access points within range of your network adapter.
(Default) - Connect to either 802.11a, 802.11b or 802.11g
wireless networks.

Hardware Version: 2.0.30
MAC Address: 00:13:02:3C:88:7A

OK Cancel