Wireless Networking with the Linksys Wireless Ethernet PC Card
For Windows 98/NT/2000

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Overview
The University of Hawai‘i now offers a wireless network system for its members to utilize. This network will allow users to fully utilize the Internet anywhere within the transmitter’s range. In order to use this system you will need a wireless network card. This document describes how to configure a Linksys™ PC Card for laptops with a PCMCIA slot.

This document assumes that you have already installed the successfully installed the Linksys driver and Configuration Utility program, software that came with your card.

In this document when you are asked to “click,” assume it is a left mouse button click. When you need to use the right mouse button, you will be told to do a right click. When you are asked to highlight something, click once on the item so it is highlighted. Words in an Arial bold font (like this) represent what you see on your screen. Words in a Courier bold font (like this) represent what you should type.

The screen captures in this document have been taken from a Windows 2000 Pro computer. The screens in other versions of Windows may look slightly different. However, the values are still the same.

Getting the Network Information
To use the UH Mānoa Wireless Network, you will need to obtain the Network (SSID) Name and Password (WEP Encryption Key). These values can be obtained by logging into

http://www.hawaii.edu/account

with your UH Username and password. Once logged in, under the heading: Other, please click on UH Wireless Network Settings. Take note of the Network Name and Password (the hexadecimal key works best for the linksys card). You will need to input the values into the Configuration Manager. Internet connected computers are available at the walk-in Help Desk (Labs) listed at the end of this document. If you do not know your UH Username and password, the Help Desk can also assist you.

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Configuring the Network properties

You will need to input the Network Name into your Configuration Properties. For a Windows 2000 computer, you can access the configuration properties by clicking on the **Start Button > Settings > Network and Dial-up Connections > Local Area Connection**. You should see the following window.

Clicking on the **Properties** button, then clicking on the **Advanced** tab would then bring up:
Follow the steps below, using the previous window.

1) If it is not already selected, select **Authentication Algorithm**. This value should be set at WECA Compliant (always use).
2) Click on the **Channel** Property. This value should be set to 09.
3) Click on the **Fragmentation Threshold**. This value should be set to 2432.
4) Click on the **Network Type** Property. This value should be set to Infrastructure.
5) Click on the **Power Save Mode** Property. This value should be set to disabled.
6) Click on the **Preamble Mode** Property. This value should be set to Long Tx Preamble.
7) Click on the **RTS Threshold** Property. This value should be set to 2432.
8) Click on the **SSID** Property. Input the **Network Name** value obtained from the previous section.
9) Click on the **Use Wep** Property. This value should be set to 40 **bit**.
   Click on **OK** when done.

To finish configuring your wireless network, please double click on the Configuration Utility program. After the program loads, click on the Encryption tab. You should see the following screen.

![Wireless LAN Configuration Utility](image)

Click on the **Create with Passphrase** button. The hexadecimal password obtained for the **WEP Encryption Key** should be entered into the **Passphrase** box. Click on **OK**.

**Connecting to the Network**

To log onto the network, you will need to open an Internet Browser i.e. Internet Explorer or Netscape. Once your browser is opened, you will automatically be directed to the wireless login page. Please enter your UH Username and password. After the system verifies your eligibility, a small pop up window should appear. You will be connected to our network once the window loads.

A coverage map of where you can access the wireless network can be found at:

[http://www.hawaii.edu/wireless](http://www.hawaii.edu/wireless)
Getting Help

Please visit our frequently asked questions page for more information:

http://www.hawaii.edu/wireless/faq.html

For additional assistance, please phone the ITS Help Desk at (808) 956-8883, send e-mail to help@hawaii.edu, or fax (808) 956-2108. The Help Desk’s toll-free phone number from the neighbor islands is (800) 558-2669.

Or see the ITS Help Desk home page at http://www.hawaii.edu/help. The ITS walk-in Help Desk is located in Keller 105, Keller 213, and Hamilton 2nd floor on the UH Mānoa Campus.

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