

Connecting to the IRMACS Wireless Network

IRMACS maintains a separate wireless network from the Simon Fraser Universities Network. You may wish to use this network while in the IRMACS space for the following reasons:

1. Better signal strength
2. Available to Irmacs ID's
3. Access to IRMACS facilities
4. Guest accounts available for visiting researchers, and special events.

How to Connect:

Mac OS 10.3 and Mac OS 10.4 (Tiger)

In order to connect to the Irmacs network you must create a new network connection on the Mac OS. First open the **Internet Connect** application in the **Applications** menu as shown in Figure 1.

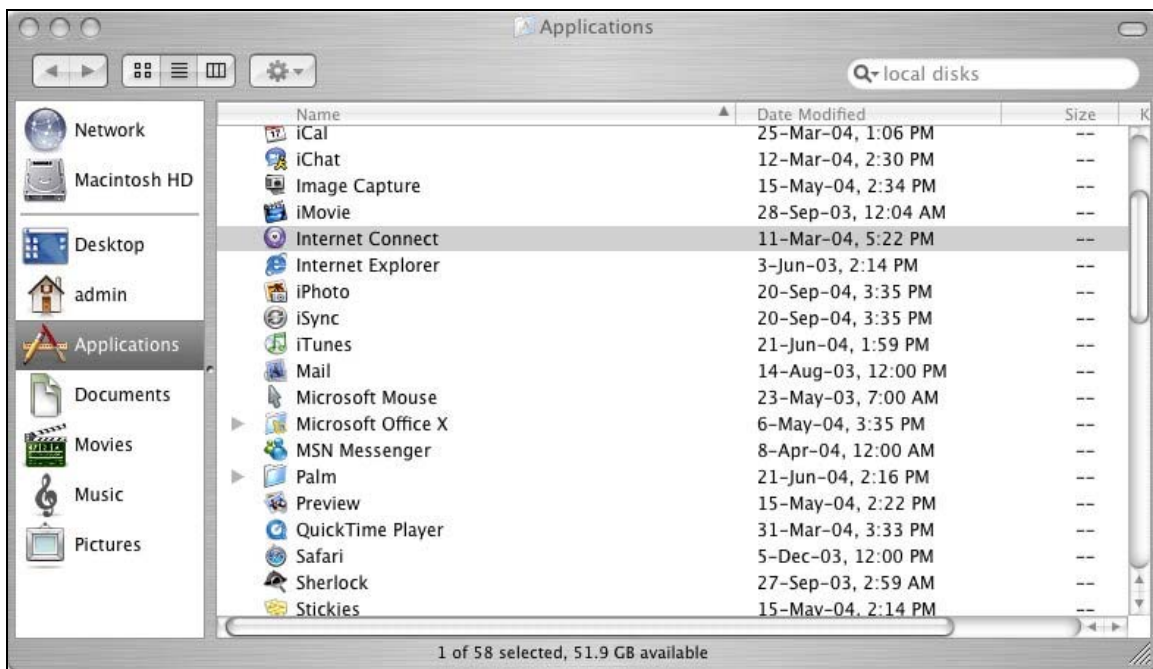


Figure 1: Finding the Internet Connect Application

This will begin the Internet Connect application illustrated in Figure 2.

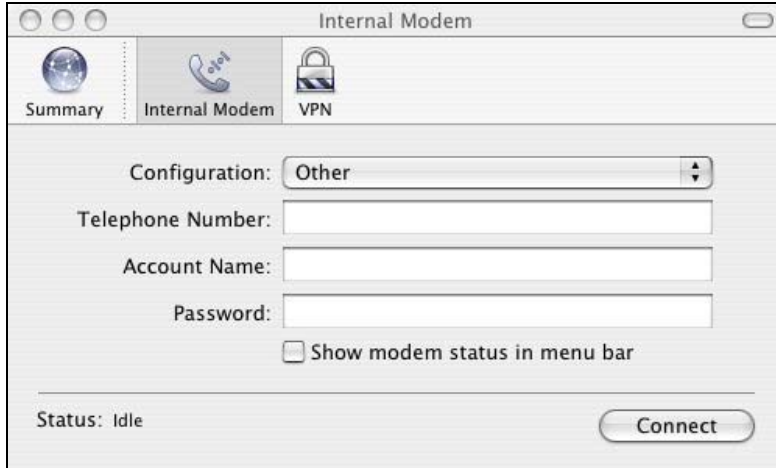


Figure 2: Internet Connect Application before any changes

Create a new 802.1x connection

The IRMACS wireless network uses the 802.1x protocol. Begin by creating a new 802.1x connection by going to the **File** menu and selecting the **New 802.1x Connection...** option, as illustrated in Figure 3.

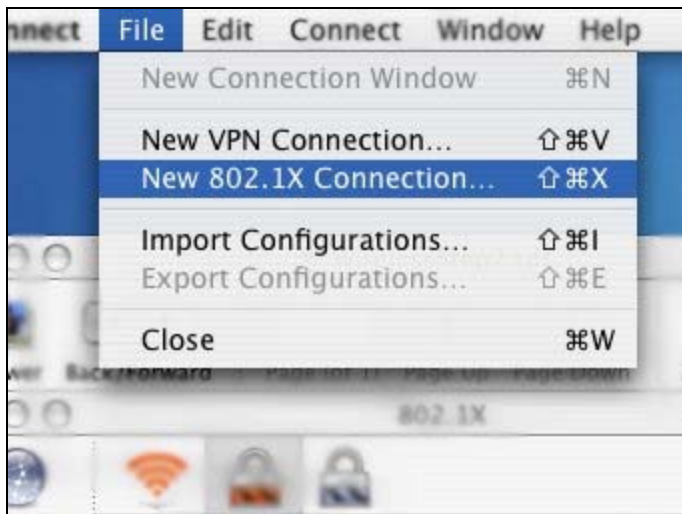


Figure 3: Creating a new 802.1X connection

Create a new configuration to save your changes to

You should then choose to create a new configuration by going to **Edit Configuration...** in the configurations drop down list, this is shown in Figure 4.

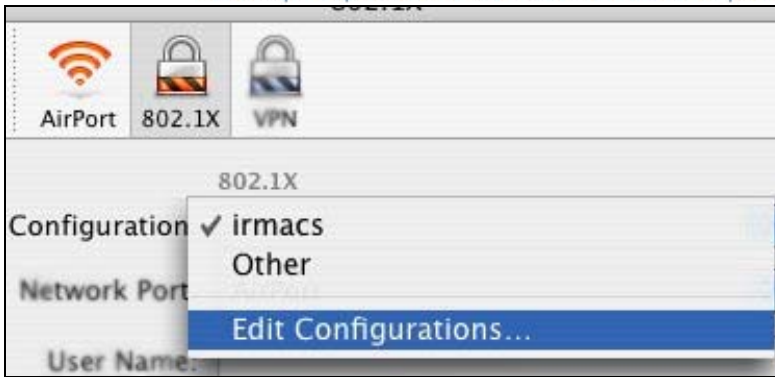


Figure 4: Creating a new configuration with "Edit Configurations..."

Configuration information:

This will make a new 802.1x Connection, Name your configuration, you may choose any name you like, we use the word "irmacs" in this example. You should also input your User Name and Password. Note that our **Network Port** is called *Airport*, select the name of your wireless device. Choose the *Irmacs* Wireless Network. This network uses the TTLS authentication, deselect all other authentication protocols as shown in Figure 5.

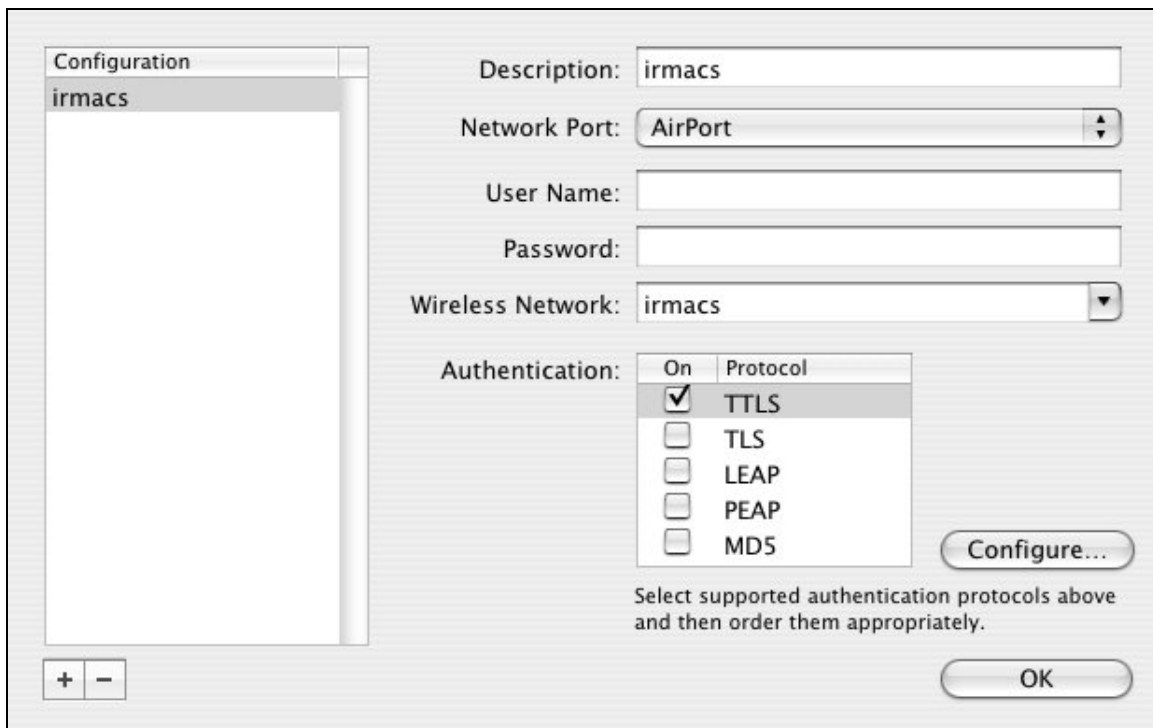
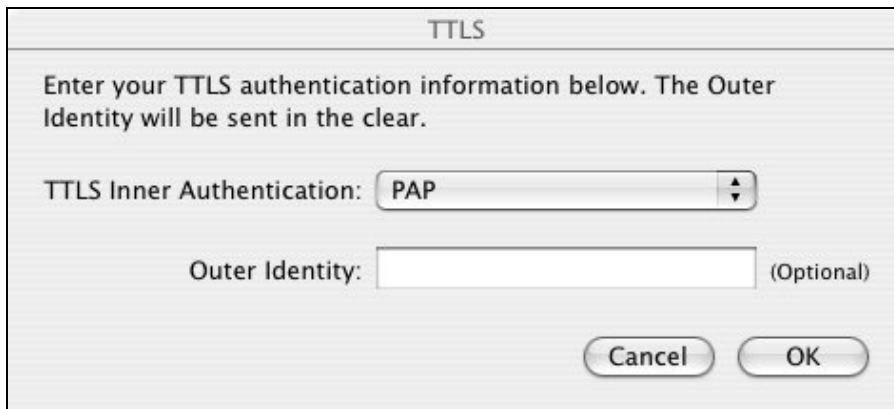


Figure 5: TTLS configuration screen

TTLS Authentication configuration

In order to configure TTLS, highlight the TTLS option and click the **Configure** button. Ensure you have PAP selected for **TTLS Inner Authentication** with no text in the **Outer Identity** box in the dialog window that appears, as shown in Figure 6.



The dialog box is titled "TTLS". It contains the following elements:

- Instructional text: "Enter your TTLS authentication information below. The Outer Identity will be sent in the clear."
- "TTLS Inner Authentication:" dropdown menu with "PAP" selected.
- "Outer Identity:" text input field, currently empty, with "(Optional)" to its right.
- "Cancel" and "OK" buttons at the bottom right.

Figure 6: TTLS authentication method should be set to PAP

Connecting to the wireless network

Click **OK** to get back to the Internet Application shown in Figure 7. You can now connect by clicking on the connect button.



The window is titled "802.1X" and has a tabbed interface with "Summary", "AirPort", "802.1X", and "VPN" tabs. The "802.1X" tab is active. It contains the following fields:

- "Configuration:" dropdown menu with "irmacs" selected.
- "Network Port:" dropdown menu with "AirPort" selected.
- "User Name:" text input field with "testuser" entered.
- "Password:" text input field with four dots (masked).
- "Wireless Network:" dropdown menu with "irmacs" selected.
- "Status: Idle" at the bottom left.
- "Connect" button at the bottom right.

Figure 7: Select Connect

Potential Authentication Error

On some machines, you may receive an authentication error as shown in Figure 8. If you choose **View Certificate**, you will come to a screen that allows you to choose the following option: **Always trust these certificates**.

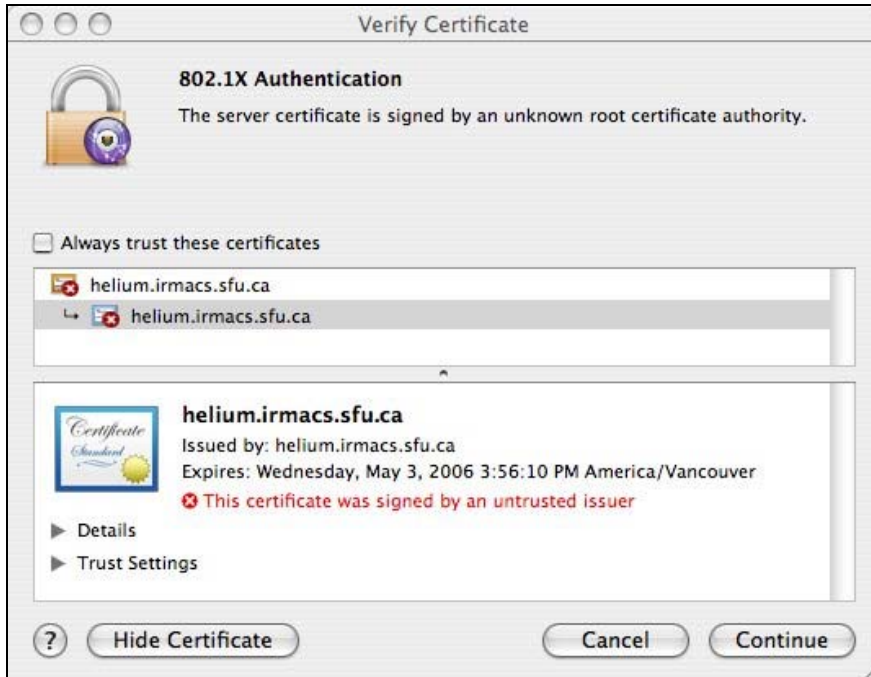


Figure 8: Potential Authentication Error