

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 10.5 (Leopard)

1. Through the AirPort icon in the Finder menu, select Open Network Preferences.





2. The Network dialogue should appear. Click on the AirPort icon.

00	Network
Show All	٩
	Location: Automatic
 Bluetooth Not Connected Ethernet Not Connected 	Status: On Turn AirPort Off AirPort is turned on but is not connected to a network.
⊖ FireWire Not Connected	Network Name: No network selected
⊖ AirPort On	Show the second
+ - *-	Show AirPort status in menu bar
Click the lock to	prevent further changes. Assist me Revert Apply

3. Click on the Advanced button. The Airport configuration screen should appear.

$\bigcirc \bigcirc \bigcirc$	Netwo	ork	
Show All			٩
🤿 AirPort	Location Actionate		1
AirP	Port TCP/IP DNS WINS	AppleTalk 802.1X	Proxies
The Constant	Preferred Networks:		Carn Atolian (M)
a time man	Network Name	Security	
	+ - → Drag networks into th ✓ Remember any network this Disconnect from wireless ne Require Administrator passe	ne order you prefer to join. s computer has joined etworks when logging ou word to control AirPort	ut
	AirPort ID: 00:1e:52:72:c6:46	5	(Advanced) (
?	a present futiliter stranges.		Cancel OK



4. Click on the 802.1X button.

000	Network	
Show All		٩
AirPort AirPort TCP/IP Domain: Login Window State: 802.1X login is disabled Enable 802.1X Login Certificate:	DNS WINS Apple When the user logs supplied in the Log authenticate to the Wireless Network:	in, the user name and password in Window will be used to network.
Unknown Get Certificate	Authentication:	On Protocol TTLS TLS EAP-FAST PEAP LEAP MDS Configure OK

5. Next to the Domain drop-down, select User

0	Network	
Show All		9
AirPort		
User	DNS WINS Apple	Talk 802.1X Proxies
System Domain ✓ Login Window	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
State: 802.1X login is disabled Enable 802.1X Login	When the user logs supplied in the Log authenticate to the	in, the user name and password in Window will be used to network.
Certificate:	Wireless Network:	
Unknown	Authentication:	On Protocol TTLS
Get Certificate		
		EAP-FAST PEAP
		LEAP
		MD5
		Configure
Charle when bands the excitence of the same		(Cancel) (OK



6. Click the + button to add a new configuration and call it Irmacs. Enter your information to match the screen shown below. Make sure you have the following fields configured:

- a. User Name: your IRMACS Computing ID
- b. Password: your IRMACS Computing password
- c. Wireless-Network: irmacs
- d. Authentication: TTLS checked, PEAP unchecked

	AirPort	TCP/IP	DNS	WINS	Apple	eTalk	802.1X	Proxies	
omain:	User	\$)						
onfigurat	ions								
macs				User N	Name:	testus	ser		
				Pass	word:	•••••	•••••	•	
			Wir	eless Net	work:	irmac	S		•
			A	uthentic	ation:	On 1	Protocol		
							TIS		
							EAP-FAST		
							PEAP		
							LEAP		
							MD5		
						Conf	figure		

7. Under the Authentication list box, highlight the TTLS entry and click the Configure button. Change the TTLS Inner Authentication dropdown to PAP. Click OK when finished.

	TTLS
Enter your TTLS authentica Identity will be sent in the	ition information below. The Outer clear.
TTLS Inner Authentication:	PAP
Outer Identity:	(Optional)
	Cancel OK

8. Click OK (or Close) to apply the 802.1X settings you just made. This will return you to the Network window. Highlight the AirPort icon again and click the Advanced button.



9. Click the AirPort tab. You will likely see all of the wireless networks you have connected to in the past in your Preferred Networks list. If there is an entry for irmacs, please remove it. Once you have done this (or if irmacs did not exist), click the + button to add a new network.

00	Network	
► Show	All	Q
AirPort	terreture - Automatic	-01
	AirPort TCP/IP DNS WINS AppleTalk	x 802.1X Proxies
	Preferred Networks:	
	Network Name Secu	arity
	🛨 🚽 🖉 Drag networks into the order you p	prefer to join.
	Remember any network this computer	has joined
	Disconnect from wireless networks whe	en logging out
	Require Administrator password to con	ntrol AirPort
	AirPort ID: 00:1e:52:72:c6:46	
		(Cancel) (OK)

10. Enter irmacs in the Network Name field. Change the Security setting to 802.1X WEP.

Enter	the name of	the network.	
Enter 1 enter 1 Netwo	the name of the the password if r rks to see a list	network you want to ad necessary. You can also of available networks.	d, and then click Show
Network	k Name:		
S	ecurity: Nor	ne	\$
	🗹 Re	emember this netwo	rk



11. Once you change the Security field 802.1X WEP, additional configuration options will appear. Fill out the remaining fields with the following information:

- a. Username: Your IRMACS Computing ID
- b. Password: Your IRMACS Computing password

c. 802.1X: The Irmacs profile you created in step 6 (should be Irmacs)

Enter the name Enter the name of enter the passwo Networks to see	ne of the network. of the network you want to add, and ther ord if necessary. You can also click Show a list of available networks.	1
Network Name:	irmacs	
Security:	802.1X WEP	\$
User Name:	testuser	
Password:	•••••	
802.1X:	Irmacs	\$
	Remember this network	
Show Networks	Cancel Add	\supset

12. Click the Add button when complete. Under some circumstances, you may be prompted with an "Add to keychain request". If so, Click Allow

	Mac OS X wants to use your confidential information stored in "irmacs" in your keychain. Do you want to allow access to this item?
▶ Details	
(?)	Always Allow Deny Allow



13. You should now be able to connect to irmacs via the AirPort icon in the Finder menu. On your first connection to irmacs you will be prompted to accept the security certificates. Click on Show Certificate.

000	Verify C	ertificate
	802.1X Authentication The server certificate is expire	d and no longer valid.
(?)	Show Certificate	Cancel Continue

14. Click the Always trust "[server name].irmacs.sfu.ca" check box.. When you are finished, click Continue.

000	Verify Certificate
	802.1X Authentication The server certificate is expired and no longer valid.
Always trust	"helium.irmacs.sfu.ca"
kelium.ir	macs.sfu.ca
🛛 🛏 📷 heliu	um.irmacs.sfu.ca
	r
Certificate Chandred ► Trust ► Details	helium.irmacs.sfu.ca Issued by: helium.irmacs.sfu.ca Expired: Wednesday, May 3, 2006 3:56:10 PM PT (CA) This certificate has expired
(?)	Hide Certificate Cancel Continue

15. You should now be able to connect to IRMACS. However, because authenticating to IRMACS is a time-sensitive procedure, you may find that you are not successfully on the first try after doing the initial setup above. Disabling and re-enabling your AirPort adapter should clear this problem. It is also possible that you may have difficulty getting an IP address (you will get an auto-assigned private address instead) after initially configuring IRMACS. In this case you may have to connect to another wireless network (such as SFUNET) and then back to IRMACS.