

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.

000	Applica	tions	\Box
	1 4-	Q+ local disks	
Network	Name	Date Modified	Size K
Network		25-Mar-04, 1:06 PM	0
Macintosh HD	Ma ichat	12-Mar-04, 2:30 PM	
Macintosii HD	🖳 Image Capture	15-May-04, 2:34 PM	0
	📁 iMovie	28-Sep-03, 12:04 AM	
Desktop	Internet Connect	11-Mar-04, 5:22 PM	
	🥵 Internet Explorer	3-Jun-03, 2:14 PM	
admin	📸 iPhoto	20-Sep-04, 3:35 PM	
	iSync	20-Sep-04, 3:35 PM	U
Applications	🛃 iTunes	21-Jun-04, 1:59 PM	
	👪 Mail	14-Aug-03, 12:00 PM	22
Documents	Microsoft Mouse	23-May-03, 7:00 AM	
	Microsoft Office X	6-May-04, 3:35 PM	
Movies	🍓 MSN Messenger	8-Apr-04, 12:00 AM	
0	🕨 📁 Palm	21-Jun-04, 2:16 PM	22
Music	🙀 Preview	15-May-04, 2:22 PM	
	QuickTime Player	31-Mar-04, 3:33 PM	
Pictures	log Safari	5-Dec-03, 12:00 PM	
	A Sherlock	27-Sep-03, 2:59 AM	1
	📚 Stickies	15-Mav-04. 2:14 PM	- *
	1 of 58 selected, 51.9	GB available	14.1

Figure 1: Finding the Internet Connect Application



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

000	W-	Internal Modem	0
Summary	Internal Modem	VPN	
4	Configuration:	Other 🛟	
Telep	hone Number:		
Ą	Password:		
	Tussword.	Show modem status in menu bar	
Status: Idl	e	Connect	\supset

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.

	irmacs	nputational sciences
AirPort 802.		
-	802.1X	
Configuration	✓ irmacs Other	
User Name	Edit Configurations	

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.

Configuration	Description:	irmacs	
irmacs			
	Network Port:	AirPort	÷
	User Name:		
	Password:		
	Wireless Network:	irmacs	•
	Authentication:	On Protocol	
		✓ TTLS	
		TLS	
		LEAP	
		PEAP	
		MD5	Configure
		Select supported authen and then order them ap	ntication protocols above propriately.
			OK

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.

	TTLS	
Enter your TTLS authenticat Identity will be sent in the c	ion information bel lear.	ow. The Outer
TTLS Inner Authentication:	PAP	\$
Outer Identity:		(Optional)
	C	Cancel OK

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.

$\bigcirc \bigcirc \bigcirc$		802.1X	0
Summary	AirPort 802.1	VPN	
		802.1X	
C	onfiguration:	irmacs	•
N	Network Port:	AirPort	:
	User Name:	testuser	
	Password:	••••	
Wirel	ess Network:	irmacs	
Status: Idle	e		Connect

Figure 7: Select Connect



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**.

00	Verify Certificate
\bigcirc	802.1X Authentication
	The server certificate is signed by an unknown root certificate authority.
Always tru	st these certificates
loo helium	irmacs.sfu.ca
kelium ⊶ 🔽 he	irmacs.sfu.ca lium.irmacs.sfu.ca
kelium └→ 😿 he	irmacs.sfu.ca lium.irmacs.sfu.ca
io helium □ io he	irmacs.sfu.ca lium.irmacs.sfu.ca helium.irmacs.sfu.ca
► helium ► S he Centificate	irmacs.sfu.ca lium.irmacs.sfu.ca helium.irmacs.sfu.ca Issued by: helium.irmacs.sfu.ca
Certificate	irmacs.sfu.ca lium.irmacs.sfu.ca helium.irmacs.sfu.ca Issued by: helium.irmacs.sfu.ca Expires: Wednesday, May 3, 2006 3:56:10 PM America/Vancouver
kelium ↓ ke helium Certificate Saudand	irmacs.sfu.ca lium.irmacs.sfu.ca helium.irmacs.sfu.ca Issued by: helium.irmacs.sfu.ca Expires: Wednesday, May 3, 2006 3:56:10 PM America/Vancouver ③ This certificate was signed by an untrusted issuer
kelium → kelium Certificate Markent → Details	irmacs.sfu.ca lium.irmacs.sfu.ca helium.irmacs.sfu.ca Issued by: helium.irmacs.sfu.ca Expires: Wednesday, May 3, 2006 3:56:10 PM America/Vancouver This certificate was signed by an untrusted issuer

Figure 8: Potential Authentication Error