

# Connecting to The IRMACS Wireless Network Using Windows Vista

This document is intended to outline the steps necessary to connect a Windows Vista laptop to the IRMACS wireless network. You will need administrator privileges on the laptop to implement these changes. This document only covers the situation where Windows is managing your wireless network and not the software supplied by the wireless network adapter's manufacturer. IRMACS uses the TTLS protocol format for wireless access. In order to access IRMACS secured wireless, you will need to download and install the free SecureW2 client from this website:

#### http://www.securew2.com/products/

Please reboot your system after install.

### **Opening Network Connections**

In order to configure the wireless network, you will need to be logged on to your computer with administrator privileges. First you must open your start menu and click on **Network** as shown in Figure 1.



Figure 1: Getting to Network and Sharing Center



Then click on Network and Sharing Center control panel as shown in Figure 2.



Figure 2: Click on Network and Sharing Center

## Adding a Wireless Connection

You will need to add a wireless connection to the group of wireless networks. Select **Manage Wireless Networks** from the left hand menu. Click on the **plus(+)Add** button to add a network. Then click on **Manually create a network profile** as shown in Figure 3.



Figure 3: To add a Manual Wireless Network

Add the following information to the manual connection properties. Make the network name: irmacs and change the security Type to 802.1x and click next as shown in Figure 4

Control Panel	<ul> <li>Manage Wireless Networks</li> </ul>		Search	2
Manage wireless netw Windows tries to connect to can also add or remove netw To see networks that use a d Add 2 Change adapter	vorks that use (Wireless Netw these networks in the order listed belov vork profiles.	ork Connection) w. To change the order, drag a	ı network up or down in th	e list. You
Name				
BCHome Brazza's Airport Extreme	Enter information for th	ne wireless network you	u want to add	
Ciao welcome to brazza wifi HOMENET	Network name:	irmacs		
SFUNET SFUNET-SECURE	Security type:	802.1x	•]	
🔮 UVicOpen 🔮 eduroam	Encryption type:	WEP	Ŧ	
🔮 engrnet 🔮 pokey	Security Key/Passphrase:		Display	characters
6 T 1 700 C 1 7 9-95	V Start this connection au	utomatically		
•	Connect even if the net Warning: If you select t	work is not broadcasting his option, your computer's p	rivacy might be at risk.	
10 items				
Internet Options			Ne	ext Cancel

Figure 4: Changing to Irmacs wireless settings



Click on **Change Existing Wireless Settings** and uncheck **Connect to a more preferred network if available** from the Connection tab settings as shown in Figure 5.

🕞 📶 Mar	irmacs Wireless Network properties	
	Connection Security	
Success	Name: irmacs	
•	SSID: irmacs Network Type: Access point Network Availability: All users	
<b>→</b> ;	Connect automatically when this network is in range Connect to a more preferred network if available Connect even if the network is not broadcasting Connect even if the network is not broadcasting	
	Configure	
		Close
	OK Cancel	

Figure 5: Connection Settings

### Security Tab Settings

Click on the Security tab for the authentication settings. Ensure that Security Type is 802.1x and Encryption Type is WEP. Change the **Choose a network authentication method** to SecureW2 EAP-TTLS as in Figure 6 and click on **Settings** 

. (	imacs Wireless Natwork properties	
Success	Connection Security Security type: 802.1X	
* . * .	Encryption type: WEP  Choose a network authentication method: PEAP-GTC Smart Card or other certificate Protected EAP (PEAP) LEAP	
	PEAP-GTC EAP-FAST SecureW2 EAP-TTLS	Close

Figure 6: EAP type must be set to a client that handles TTLS

## **TTLS Settings**

There are a few settings to check in the SecureW2 Profile window. You may simply click **Configure** from the DEFAULT profile window that appears.

## TTLS Connection Setting

Under the Connection tab, illustrated in Figure 7, make sure there is no check beside **Use Alternate outer identity**.



Figure 7: Connection Tab

# TTLS Certificates Tab

The next tab is the Certificates Tab; illustrated in Figure 8, ensure that there is no check beside "Verify server certificate".

		Secure	W2
	Certificates	Authentication User account	
Trusted R	oot CA:	ate	
		1	

Figure 8: Certificates Tab



# TTLS Authentication Tab

Under the Authentication tab ensure you have selected PAP Authentication Method, as shown in Figure 9.

	SecureW2
Connection Certificates Auth	entication User account
Select Authentication Method:	PAP 💌
EAP Type:	· ·
	Configure

**Figure 9: Authentication Tab** 

## TTLS User Account Tab

The final tab provides a location for your username and password, as shown in Figure 10.

SecureW		
Connection	Certificates	Authentication User account
		Prompt user for credentials 🕅
	Username:	irmacs
	Password:	******
	Domain:	
		Use this account to logon computer 🔲

Figure 10: User Account Tab



Keep click **OK** to close all open windows. Go back to the **Network and Sharing Center** and click on **Connect to a network** on the left hand menu. Click on the irmacs network and hit **Connect** as shown in Figure 11.

	Network and Sharing Center		- tal Centrh	
Tasks View computers and devices Connect to a network Manage wireless networks Set up a connection or network Manage network connections	Network and Sharing Center	View full map		0
Diagnose and repair	Vou are currently not connect Connect to a network	Select a network to connect to Show All imacs eduroam Security-enabled network SFUNET-SECURE Security-enabled network Security-enabled network Security-enabled network Security-enabled network	e> Lite Lite Lite	
See also Intel(R) PROSet/Wireless Tools Internet Options MobileMe Preferences Windows Firewall			Connect Cancel	

Figure 11: View Available Wireless Networks

You should now be connected! Congratulations.