Wireless Network Setup for Windows Vista Clients

Configuration guide to the Sissa-WiFi Wireless Network, using the default tools and drivers of Microsoft **Windows Vista**.

Before you start check the wireless network card driver and update it to the latest version. See the web site of your card's manufacturer.

Due to a very buggy wireless support, **Windows Vista cannot connect to any WPA-Enterprise or WPA2-Enterprise wireless network, unless updated with Service Pack 1**.

You cannot connect to any of the Sissa wireless network unless you have a fully updated system, with Service Pack 1 installed!!!

Available wireless networks (SSID)are:

- SISSA-WiFi (scientific network: students, faculty and long-term visitors)
- **SISSA-AMM** (staff network: administrative and technical personnel)

Note: the following tutorial explains how to associate to SISSA-WiFi net. For all the others Sissa wireless networks (SSIDs) the steps are the same.

<u>Important</u>: In order to successfully log into one of the Sissa wireless networks **your password must have been updated after December 31 2007**!!

1. If your wireless network card is switched on you should see, in the bottom-right of the screen, an icon signaling the presence of wireless networks.



2. Right button click while pointing the network icon to open the pop-up box.



3. Select 'Connect to a network'



4. Choose the wireless network you want to connect to, here Sissa-WiFi

Sh	now All	•	
5	SISSA-AMM	Security-enabled network	lte.
<u>.</u>	SISSA-WiFi	Security-enabled network	de.

5. Now select 'Enter/select additional log on information' to enter your credentials



6. The 'Enter Credential' box appears: insert your Sissa username and password, **updated after December, 31 2007**. For successfully logon, **you must not fill the 'Logon Domain' field**!

inter Credentials			X
User name:			
Password:			
Logon domain:			
Save this user	name and pass	word for future us	e
Save this user	name and pass	word for future us	ie

7. The system request your credential a second time, then the 'Validate Server Certificate' appears. Simply confirm with 'OK'.

*	The Root Certifi If this is the con this message ag	cation Authority for the server's certificate is: sissa.it rect certificate, click OK to connect and you will not see Jain. Click CANCEL to drop connection.	*
			÷

8. If all goes well, after few seconds you'll see:

🚱 👰 Connect to a network	
Successfully connected to SISSA-WiFi	
	Close

If following these instructions, you are unable to successfully log on, try to manually create a wireless network profile. Go on..

9. From the 'Connect to a network' box (See picture 2), select 'Open network and sharing center'

Network and Inter	net 🕨 Network and Sharing Center	← ← Search	م
Tasks View computers and devices	Network and Sharing Center		View full man
Connect to a network Manage wireless networks Set up a connection or network		- O	view full map
Manage network connections Diagnose and repair	(This computer)	internet	
	Wireless networks are available. Connect to a network		
See also			
Internet Options			
Windows Firewall			

10. Now select 'Manage wireless networks' on the side left of the box.



11. Type add (the '+' sign on the top left), to start inserting a new network profile



12. Select 'Manually create a network profile'

🗿 📲 Manually connect to a wir	reless network
Enter information for t	he wireless network you want to add
N <u>e</u> twork name:	[
Security type:	[Choose an option]
Encryption type:	
Security Key/Passphrase:	Display characters
Start this connection a	utomatically
Connect even if the net Warning: If you select t	twork is not broadcasting
training. If you select	ans option, your comparers privacy might be at list.
	Next Cancel

13. As network name type 'Sissa-WiFi', security type you can choose WPA-Enterprise (or WPA2-Enterprise for better security). Encryption type is set to 'TKIP' (to 'AES' if you choose WPA2-Enterprise). Finally <u>unselect</u> 'Start this connection automatically'.

Security type: WPA-Enterprise Encryption type: TKIP Security Key/Passphrase: Display character:	N <u>e</u> twork name:	SISSA-WiFi	
Encryption type: TKIP Security Key/Passphrase: Display character:	Security type:	WPA-Enterprise	•
Security Key/Passphrase:	Encryption type:	ТКІР	•
	Se <u>c</u> urity Key/Passphrase:		Display characters
Start this connection automatically	Start this connection au	itomatically	
Connect even if the network is not broadcasting Warning: If you select this option, your computer's privacy might be at risk.	Connect even if the net Warning: If you select t	work is not broadcasting his option, your computer's privacy	/ might be at risk.

14. Type 'Next'. You should see 'Successfully added SISSA-WiFi. Now type 'Change connection settings' to customize further our network profile.

Manually connect to a wireless network	
Successfully added SISSA-WiFi	
Connect to Open the "Connect to a network" dialog so I can connect.	
Change connection settings Open the connection properties so that I can change the settings.	
	Close

15. Select the 'Security' file card.

Connection Security		
Name:	SISSA-WiFi	
SSID:	SISSA-WiFi	
Network Type:	Access point	
Network Availability:	All users	
Connect automat	cally when this network is in range	
Connect to a mor	e preferred network if available	
Connect even if t	he network is not broadcasting	
	ne netron is not broadcabang	
	OK Car	ncel

16. Security type and Encryption type should be already filled with the data you choose (WPA-Enterprise/TKIP or WPA2-Enterprise/AES). Select 'Settings' right of 'Microsoft: Protected EAP(PEAP)'

SSA-WiFi Wireless N	letwork properties		• ×
Connection Security			
S <u>e</u> curity type: E <u>n</u> cryption type:	WPA-Enterprise		
Ch <u>o</u> ose a network a	authentication metho	d:	
Minutes ft. Ducto sta	JEAD (DEAD)	- Cathing	-
Microsoft: Protecte	ed EAP (PEAP) rmation for subseque	 Setting ent connections 	s
Microsoft: Protecte	ed EAP (PEAP) mation for subseque	 Setting ent connections 	s
Microsoft: Protecte ✓ Cache user infor to this network	ed EAP (PEAP)		s
Microsoft: Protecte	ed EAP (PEAP)	▼ Setting ent connections	s
Microsoft: Protecte	ed EAP (PEAP)		<u>s</u>
Microsoft: Protecte	ed EAP (PEAP)		<u>s</u>

17. Now, in the 'Protected EAP Properties' box, unselect 'Validate server certificate', then 'Configure' at the right of 'Secured Password (EAP-MSCHAP v2)'.

Protected EAP Properties
When connectina:
valuate server ceruicate
Connect to these servers:
Trusted <u>R</u> oot Certification Authorities:
Class 3 Public Primary Certification Authority
GTE CyberTrust Global Root
Microsoft Boot Authority
Microsoft Boot Certificate Authority
Thawte Timestamping CA
Do not prompt user to authorize new servers or trusted certification authorities.
Select Authentication Method:
Secured password (EAP-MSCHAP v2)
Enable Fast Reconnect
Disconnect if server does not present cryptobinding TLV
UK Cancel

18. Unselect 'Automatically use my Windows logon name and password (and domain if any)', and 'OK'.



19. Now from the 'Connect to a network' box, try again to log on the SISSA-WiFi network. After entering your credentials you should see:

Connect to a network	
Successfully connected to SISSA-WiFi	
	Close