## 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!!!

To obtain the latest Windows service pack: if your pc is connected to the Sissa network by cable, visit the internal web site <u>http://software.sissa.it/pub/windows/updates/</u> or, if you are not connected, come to the SIS Helpdesk, in room 29 of Main Building, from 9:30 until 11:30 Monday – Friday or from 15:00 until 16:00 Monday – Thursday.

SIS provides and maintains the necessary hardware to provide Internet access. Students / visitors are responsible for their own equipment. SIS Helpdesk does not install or service personal computer equipment.

SIS is not responsible or liable for any software obtained through the Helpdesk. SIS does not own or make claim to any of the software presented. Any complaints or problems should be directed to the individual authors or publishers.

Service packs are distributed by Helpdesk as a convenience to student / visitors. We cannot guarantee that they are free of omissions or errors. To ensure a secure system, you will need to follow Microsoft's instructions for updating and maintaining a Windows system. More information can be found at <u>www.microsoft.com</u>.

YOU EXPRESSLY UNDERSTAND AND AGREE THAT YOUR USE OF THE SERVICE PACK IS AT YOUR SOLE RISK. THE SERVICE PACK IS PROVIDED ON AN "AS IS" BASIS AND WITHOUT WARRANTY OF ANY KIND.

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The following tutorial explains how to associate to **SISSA-WiFi** (scientific network: students, faculty and long-term visitors).

<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

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-2	SISSA-AMM	Security-enabled network	1.
-	SISSA-WiFi	Security-enabled network	2e

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**!

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

The Root Certific	ation Authority for the server's certificate is: sissa.it
f this is the corn	ect certificate, click OK to connect and you will not see
his message aga	sin. Click CANCEL to drop connection.
	View Server Certificat

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 <ul> <li>Network and Sharing Center</li> </ul>	<b>- 4</b> 9	Search	
Tasks View computers and devices	Network and Sharing Center			
Connect to a network Manage wireless networks Set up a connection or network Manage network connections	HELPDESK-PC (This computer)	Interne	et	View full ma
Diagnose and repair	Not connected			
	Wireless networks are available. Connect to a network			
See also				
Internet Options				
Windows Eirowall				

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'

Enter information for t	he wireless network yo	u 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 ne	twork is not broadcasting	
Warning: If you select	this option, your computer's p	rivacy might be at risk.

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**'.

N <u>e</u> twork name:	SISSA-WiFi	
Security type:	WPA-Enterprise	•
Encryption type:	TKIP	•
Security Key/Passphrase:		Display characters
Start this connection a	automatically	
Connect even if the n	etwork is not broadcasting	

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 Ty	ype:	Access point	
Network A	vailability:	All users	
Connec	t auto <u>m</u> ati	cally when this network is in range	
Connec	t to a more	e <u>p</u> referred network if available	
Connec	t even if t	he network is not broadcasting	

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)'

Connection Security				
S <u>e</u> curity type:	WPA-Enterpris	e	•	•
Encryption type:	TKIP			•
Ch <u>o</u> ose a network a Microsoft: Protecte	uthentication met	nod:	Settings	
Cache user infor	mation for subseq	uent cor	nections	
☑ Cache user infor I to this network	mation for subseq	uent cor	inections	

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	2
When connecting:	
Validate server certificate	
Connect to these servers:	
Trusted Root Certification Authorities:	
Class 3 Public Primary Certification Authority	
GTE CyberTrust Global Root	
Microsoft Root Authority	
Microsoft Root Certificate Authority	
Thawte Timestamping CA	
Do not prompt user to suthorize new servers or trusted	
certification authorities.	
Select Authentication Method:	
Secured password (EAP-MSCHAP v2)	
Tenable Fast Reconnect	
Enable Quarantine checks	
Disconnect if server does not present cryptobinding TLV	
	_
OK 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