Wireless Network Setup for Windows Clients

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

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.

WPA2 and WindowsXP. To use WPA2 with ciphers AES/CCMP(mandatory if you want to associate to SISSA-AMM network) you have to install the following patch from Microsoft: <u>http://support.microsoft.com/kb/917021</u>

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 passowrd 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. Click this icon: the 'Wireless Network Connection' box appears.



3. Select the network (SSID) to which you want to connect, click 'Connect' button on the bottom-right of you screen.

		19999
⁽⁹⁾ Wireless Network Connectio	n	\mathbf{X}
	Choose a wireless network	
Wireless Network Connection		
•••		range of to get more
Please wait while Windows connects to the '	SISSA-WiFi' network. d wireless network	
Detecting network type		Validating identity
	Cancel d wireless network (WPA)	
Change the order of preferred networks Change advanced settings	es a network key. You are curre network. To disconnect from this network, dick Disc	ntly connected to this onnect below.
		Disconnect
		🗙 🥪 🐙 💲 📑 2:17 РМ

4. After few seconds, above the wireless network icon, you'll see a box notifying 'Windows was unable to find a certificate to log you on to the SISSA-WiFi'. **This is not an error**. Proceed with 'Change advance settings' on the bottom-left of the 'Wireless Network Connection' box.

	Wireless Network Connec		
	Network Tasks	Choose a wireless network	
2	😴 Refresh network list	Click an item in the list below to connect to a wireless network in information.	range or to get more
	Set up a wireless network	((Q)) SISSA-WiFi	Validating identity 👷
	for a nome or small office	Security-enabled wireless network (WPA)	
	Related Tasks	((Q)) SISSA-AMM	
	Learn about wireless networking	Becurity-enabled wireless network	100
	Change the order of		
4			
	settings		
	(m)	Wireless Network Connection	
	Win	lows was unable to find a certificate to log you on to the ork SISSA-WiFi	Disconnect

5. On the 'Wireless Network Connection Properties' box, click the 'Wireless Network' file card. Now select the 'SISSA-WiFi (Automatic)' entry, and click 'Properties'

🕹 Wireless Network Connection Properties 🛛 🕐 🗙				
General Wireless Networks Advanced				
✓ Use <u>W</u> indows to configure my wireless network settings				
Available networks:				
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.				
View Wireless Networks				
Preferred networks: Automatically connect to available networks in the order listed below:				
Wove up				
Add <u>R</u> emove Properties				
Leam about <u>setting up wireless network</u> Ad <u>v</u> anced				
OK Cancel				

6. From the file card 'Association' that should be already filled with WPA/TKIP (WPA2/AES if you are connecting to SISSA-AMM), move to the file card 'Authentication'

SISSA-WiFi properties	?×			
Association Authentication Connection				
Network name (SSID): SISSA-WiFi				
└── Wireless network key				
This network requires a key for the following:				
Network Authentication: WPA	*			
Data encryption: TKIP	*			
Network <u>k</u> ey:				
C <u>o</u> nfirm network key:				
Key inde <u>x</u> (advanced): 1 → ✓ T <u>h</u> e key is provided for me automatically This is a <u>computer-to-computer</u> (ad hoc) network; wireless				
access points are not used				
ОК Са	ancel			

7. In the field 'EAP type' select'Protected EAP (PEAP)'instead of 'Smart Card or other Certificate'

SISSA-WiFi	properties			? 🔀
Association	Authentication	Connection		
Select this wireless Et	option to provide hernet networks.	authenticated	d network acc	cess for
✓ <u>E</u> nable	IEEE 802.1x auth	entication for	this network	
EAP type:	Smart Card or o	ther Certificat	e	~
				Properties
Authenticate as <u>c</u> omputer when computer information is available				
Authenticate as guest when user or computer information is unavailable				
			ОК	Cancel

8. Click on the 'Properties' button to configure PEAP



9. Click on 'Validate servercertificate' button to remove the selection

Protected EAP Properties				
When connecting: Validate server certificate Connect to these servers:				
Trusted <u>R</u> oot Certification Authorities: ABA.ECOM Root CA Autoridad Certificadora de la Asociacion Nacional del Notaria Autoridad Certificadora del Colegio Nacional de Correduria P Baltimore EZ by DST Belgacom E-Trust Primary CA C&W HKT SecureNet CA Class A C&W HKT SecureNet CA Class B				
Do not prompt user to authorize new servers or trusted certification authorities.				
Secured password (EAP-MSCHAP v2)				
Enable Fast Reconnect				

10. Proceed clicking 'Configure' button in the 'Select Authentication Method' area, already filled with 'Secured password (EAP-MSCHAPv2)'

Protected EAP Properties
When connecting:
Validate server certificate
Connect to these servers:
Trusted <u>R</u> oot Certification Authorities:
ABA.ECOM Root CA
Autoridad Certificadora de la Asociacion Nacional del Notaria
Baltimore EZ by DST
Belgacom E-Trust Primary CA
C&W HKT SecureNet CA Class B
Do not prompt user to authorize new servers or trusted certification authorities.
Select Authentication Method:
Secured password (EAP-MSCHAP v2)
Enable Fast Reconnect
OK Cancel

11. Uselect from 'Automatically use my Windows login name and password (and domain if any)'



12. Now 'OK' button

EAP MSCHAPv2 Properties		
When connecting:		
Automatically use my Windows logon name and password (and domain if any).		
OK Cancel		

13. Now move on the file card 'Connection' and unselect 'Connect when this network is in range'

SISSA-WiFi properties	? 🗙
Association Authentication Connection	
Automatic connection Whenever this network is detected, Windows can connect to it automatically.	t
ОК Са	ancel

14. Confirm with 'OK'. From the configuration menu you should now see 'Sissa-WiFi (On Demand)'in the 'Wireless Networks' file card. Again 'OK' to confirm and exit.

🕹 Wireless Network Connection Properties 🛛 🔹 💽				
General Wireless Networks Advanced				
Use Windows to configure my wireless network settings				
Available <u>n</u> etworks:				
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.				
View Wireless Networks				
Preferred networks: Automatically connect to available networks in the order listed below:				
SISSA-WiFi (On Demand) Move up				
Move <u>d</u> own				
Add <u>R</u> emove Properties				
Leam about <u>setting up wireless network</u> Ad <u>v</u> anced				
OK Cancel				

15. Back in the 'Wireless Network Connection' box.You should see 'SISSA-WiFi' in the list of the available networks, now with 'On Demand' on the right edge.Select it and click 'Connect' button.



16. After few seconds, in the bottom-right, appears the notification window 'Click here to select a certificate or other credentials for connection to the network SISSA-WiFi'. Click on the window to open the 'Enter Credential' box.



17. Insert your username and password (the same you use for webmail, shannon, etc.).but **leave the 'logon domain' field empty**.

Enter Credentials
User name:
Password:
Logon domain:

18. If the credentials you enterare correct, you should see on the right 'Acquiring network address'and after few seconds 'Connected'. You're in!

(1)) Wireless Network Connect	ion			
Network Tasks	Choose a wireless network			
😴 Refresh network list	Click an item in the list below to connect to a <u>w</u> ireless network in range or to get more information.			
Set up a wireless network for a home or small office	((p)) SISSA-WiFi	Connected 👷		
	Green AMM	00006		
Related Tasks	((o)) SISSA-APIPI			
Learn about wireless networking	Security-enabled wireless network	0000		
Change the order of preferred networks				
Change advanced settings				
		Disconnect		