# WPA (PEAP) Configuration for a Windows XP host:

To configure a Windows XP host to connect to a wireless network (802.11g or 802.11b) secured by WPA with PEAP, follow these steps:

Note: SP2 is hardly recommended since it brings improvements in wireless networks Windows management.

- 1) Insert or install your WiFi adapter (USB, PCMCIA, PCI, etc..) on your computer:
- 2) Open "Network Connections ".





- 3) Check your WiFi adapter is 'enable'.
- 4) Open the 'Properties' window of the wireless connection.



5) The option "Show icon in notification area when connected" should be checked. Then select "Internet Protocol (TCP/IP)" in the scrolling menu and click on "Properties".

Network Connections	×
File Edit. View Favorites Tools Advanced Help	1
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Address C + WIFI Properties	💌 🛃 Go
General Wireless Networks Advanced	
Connect using: Configure  Connect using:  Dr High-Speed Internet Connected, Firewalled Dr High-Speed Internet Connected, Firewalled Connected, Firewalled	
off This connection uses the following items:	
Image: Second	
Other I       Show icon in notification area when connected         Image: When this connection has limited or no connectivity	
Details	
WIFI Connected, Hirewalled IP Address: 192.168.2.100	
Subnet Mask: 255.255.0 Assigned by DHCP	>



6) Check that your IP address and DNS servers IP address are automatically obtained, then click on "OK".

Internet Protocol (TCP/IP) Properties	18
General Alternate Configuration	
You can get IP settings assigned automatically if your network suppor this capability. Otherwise, you need to ask your network administrator the appropriate IP settings.	ts for
Obtain an IP address automatically	
O Use the following IP address:	
IP address:	
Subnet mask.	
Default-gateway:	
Obtain DNS server address automatically	
Use the following DNS server addresses:	
Preferred DNS server.	
Alternate DNS server.	
	General Alternate Configuration You can get IP settings assigned automatically if your network support this capability. Otherwise, you need to ask your network administrator the appropriate IP settings.  O Dbtain an IP address automatically  O Use the following IP address: IP address Subnet mask: Default gateway: O Dbtain DNS server address automatically O Use the following DNS server addresses: Preferred DNS server. Alternate DNS server.



- 7) Click on "Wireless Networks ".
- 8) Check the option "Use Windows to configure my wireless network settings ".



9) If your wireless network name appears in the "Preferred Networks" list, select it and click on "Advanced" (Go directly to step 12). If your wireless network name does not appear in this list then click on "Add" to open the "Wireless Networks Properties" window.



10) Type the name of your wireless network in section "Association".

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about wireless networks in range, o	Association Authent	ication Connection	2
Preferred networks: Automatically connect to available below:	Network <u>n</u> ame (SSIE Wireless network k This network requi	)); artemis key ires a key for the following:	
Add	Network <u>A</u> uthentic <u>D</u> ata encryption: Network <u>key</u> :	cation: Open WEP	✓
Learn about <u>setting up wireless netw</u> configuration.	C <u>o</u> nfirm network k	ey	
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	This is a <u>c</u> ompute access points are	er-to-computer (ad hoc) netwo e not used	rk; wireless



11) Select "WPA" as "Network authentication" method.

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Available networks: To connect to, disconnect from, or find out more infor about wireless networks in range, click the button be	artemis properties Association Authentication	Connection
Preferred networks: Automatically connect to available networks in the or below:	Network <u>n</u> ame (SSID): Wireless network key This network requires a ke	artemis.
Partemis (Automatic)	Network <u>A</u> uthentication: <u>D</u> ata encryption: Network key:	WPA Open Shared WPA WPA-PSK
Add <u>Remove</u> Properties	Confirm network key;	
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12) Select "AES" or "TKIP" as "Data encryption" method.

eral Wireless Networks Advanced		
Use <u>W</u> indows to configure my wireless network settin	igs	_
Available <u>n</u> etworks:	artemis properties	2
To connect to, disconnect from, or find out more infor about wireless networks in range, click the button be	Association Authentication	Connection
View Wireless N	Network <u>n</u> ame (SSID):	artemis
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Automatically connect to available networks in the or below:	This network requires a ke	ey for the following:
P artemis (Automatic)	Network Authentication:	WPA 🔽
Mo	Data encryption:	TKIP
	Network Key:	AES
Add <u>R</u> emove Properties	Eonfirm network key:	
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13) Click on "Authentication". Enable IEEE 802.1X authentication and select "Protected EAP (PEAP)" as "EAP Type ".

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General Wireless Networks Advanced	
☑ Use Windows to configure my wireless network setti	ings
Available networks:	artemis properties ? 🔀
To connect to, disconnect from, or find out more info about wireless networks in range, click the button be	Association Authentication Connection
View Wireless N Preferred networks: Automatically connect to available networks in the or below:	Select this option to provide authenticated network access for wireless Ethernet networks.
artemis (Automatic)	EAP type: Protected EAP (PEAP) Protected EAP (PEAP) Smart Card or other Certificate Propernes
Add <u>R</u> emove Properties	Authenticate as computer when computer information is available
Learn about <u>setting up wireless network</u> <u>configuration</u>	Authenticate as guest when user or computer information is unavailable
	DK Cancel



14) Click on "Properties" for "EAP Type". If the certification authority ca-01WiFi does not appear in the list, then uncheck the option: "Validate server certificate".

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Ava	Validate server certificate	2 🞽
To o abo	Connect to these servers:	Connection
Pref Auto belo	Trusted Root 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	e authenticated network access for hentication for this network • (PEAP) • (Properties
Lear <u>conf</u>	Cow HKT SecureNet CA Class B	er when computer information is available Then user or computer information is
-	Secured password (EAP-MSCHAP v2)	
	Enable Fast Reconnect      OK      Cancel	
		OK Cancel



15) Select "EAP-MSCHAP v2" as authentication method and click on "Configure ...".

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Genera	Protected EAP Properties	
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Pref	Trusted <u>Root</u> Certification Authorities:	authenticated network access for
Auto	ABA.ECOM Root CA     Autoridad Certificadora de la Asociacion Nacional del Notaria     Autoridad Certificadora del Colegio Nacional de Correduria P     Raltimara EZ hu DET	hentication for this network
	Belgacom E-Trust Primary CA     C&W HKT SecureNet CA Class A     C&W HKT SecureNet CA Class B	Properties
	Do not prompt user to authorize new servers or trusted	er when computer information is available
Lear	certification authorities.	
	Select Authentication Method:	then user or computer information is
	Secured password (EAP-MSCHAP v2)	
	Secured password (EAP-MSCHAP v2)	
	OK Cancel	
8		OK Cancel



16) Uncheck the option "Automatically use my Windows logon name and password", and then click on "OK".

🕹 WIEL	Properties ?X	
Genera	Protected EAP Properties	
🕑 Us	EAP MSCHAPv2 Properties	
Ava To c abo	When connecting: Automatically use my Windows logon name and password (and domain if any).	Connection
Pref Auto belc	OK Cancel el Notaria	hentication for this network
P	Baltimore EZ by DST  Belgacom E-Trust Primary CA  C&W HKT SecureNet CA Class A  C&W HKT SecureNet CA Class B	P(PEAP)
Lear <u>conf</u>	Do not prompt user to authorize new servers or trusted certification authorities.	er when computer information is available hen user or computer information is
	Secured password (EAP-MSCHAP v2)	
	Enable Fast Reconnect OK Cancel	
		OK Cancel

17) After few seconds, an authentication popup will appear above the wireless adapter icon. Click on this popup.





18) Type your 01wifi user credentials (received by email or given by your network administrator) and click on "OK".

Enter Creden	tials 🛛 🔀
C	
<u>U</u> ser name:	fdubois
Password:	•••••
Logon domain:	
	OK Cancel

19) Few seconds later, after your credentials have been validated, you are connected to your wireless network. You automatically received an IP address and can securely access to the network.

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As Windows XP has now registered your credentials, you won't have to give them for next connections with this computer.