Wireless How-to for Windows XP Pinellas Enterprise

The following procedure is a one-time configuration. This process will install a client certificate on your computer and auto-configure your wireless profile.

Important! BTS must know your wireless network adapters' MAC address for a successful connection.

- 1. Click the wireless icon on your taskbar. (figure1)
 - Alternatively you can click the Start Button > Settings > Control Panel > Network Connections. Right-click the "Wireless Network Connection" icon and select "View Available Wireless Networks".



Figure 1

2. Click on "Change advanced settings" located on the left side of the window. (figure 2)





- 3. Click on the center tab "Wireless Networks". (Figure 3)
- 4. Click the **Add...** button in the "Preferred networks" section of the window. (*Figure 3*)

🕂 Wireless Network Connection Properties 🛛 🕐 🗙			
General Wireless Networks Advanced			
✓ Use Windows 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: Move up			
Move down			
Add Remove Properties Learn about <u>setting up wireless network</u> <u>configuration.</u>			
OK Cancel			

- 5. From the "Association" tab, enter **Pinellas_Enterprise** (case sensitive and include underscore) in the "Network name (SSID)" field. (*Figure 4*)
- 6. Under the "Wireless network key" section make sure to select **WPA2** and **AES**. (Figure 4)

Wireless network properties		
Association Authentication Connection		
Network name (SSID): Pinellas_Enterprise	ור	
Connect even if this network is not broadcasting Wireless network key		
This network requires a key for the following:	.	
Network Authentication:		
Data encryption:		
Network key:		
Confirm network key:]	
Key index (advanced): 1		
This is a computer-to-computer (ad hoc) network; wireless access points are not used		
OK Canc	el	

Figure 4

- 7. From the "Authentication" tab, select **Protected EAP (PEAP)**. (figure 5)
- 8. Uncheck the checkbox "Authenticate as computer..." (figure 5)
- 9. Click the "Properties" button. (figure 5)

Wireless ne	etwork proper	ties 🛛 🕐 🔀	
Association	Authentication	Connection	
Select this wireless Et	option to provide hernet networks.	authenticated network access for	
🗹 Enable	IEEE 802.1x auth	entication for this network	
EAP type:	Protected EAP	(PEAP)	
		Properties	
Authen	ticate as compute	r when computer information is available	
Authen [] Unavail	Authenticate as guest when user or computer information is unavailable		
		OK Cancel	

- 10. Uncheck the checkbox for "Validate server certificate". (figure 6)
- 11. Click the "Configure..." button. (figure 6)

Protected EAP Properties
When connecting:
Connect to these servers:
Trusted Root Certification Authorities:
AAA Certificate Services
AC RAIZ FNMT-RCM
ACCVRAIZ1
ACEDICOM Root
Do not prompt user to authorize new servers or trusted certification authorities.
Enable Quarantine checks
Disconnect if server does not present cryptobinding TLV
OK Cancel

- 12. Make sure that the checkbox is checked. (This will be the case for most users)
 - a. If your laptop is <u>not</u> joined to an Active Directory domain you will need to uncheck the checkbox. Click the "OK" button. (figure 7)

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

Figure 7

- 13. Click the "OK" button on each window to close and save the configuration.
- 14. You will now need to connect to the Pinellas_Enterprise wireless network by clicking the wireless icon on you taskbar. (figure 8)



15. Click the **Pinellas_Enterprise** SSID and then click the "Connect" button. (figure 9)

⁽¹⁾ Wireless Network Connect	ion		X
Network Tasks	Choose	e a wireless network	
💋 Refresh network list	Click an iter information	n in the list below to connect to a wireless network in rar ,	nge or to get more
Set up a wireless network	((ဓူ))	Pinellas_Enterprise	Automatic 👷 🛆
	U	😚 Security-enabled wireless network (WPA2)	
Related Tasks	((Q))	Pinellas_BYOD	Manual 👷
(j) Learn about wireless	U	😤 Security-enabled wireless network (WPA2)	
networking	((Q))	Pinellas_Guest_Portal	
Change the order of preferred networks	U	Unsecured wireless network	•ot0 =
🍄 Change advanced	((Q))	Pinellas	
settings	U	😚 Security-enabled wireless network (WPA2)	
	((Q))	Pinellas_Guest	
	U	Unsecured wireless network	
	((Q))	linksys	
	U	👫 Security-enabled wireless network (WPA)	utl 🗸
			Connect

- 16. You may see a balloon popup (figure 10), which when clicked will open the **Enter Credentials** dialog.
- 17. Enter your username and password. The Logon domain will usually not be necessary. (figure 11)



Enter Credentials
User name:
Password:
Logon domain:
Save this user name and password for future use
OK Cancel

18. You will see a connecting window which will show "Connected!" when complete. (figures 12 and 13)

Wireless Network Connection	×
• 📑	
Please wait while Windows connects to the 'Pinellas_Enterprise' network.	
Waiting for network to be ready	
Cancel]
Figure 12	
🖅 💊 😊 🙆 🍓 🧐 🏷 🔤 💋 10:02 AM	

Figure 13

You're not fully connected yet. Please continue. The installation of a certificate and reconfiguration of the wireless settings is required.

19. Now launch Internet Explorer and browse to any website. You will be redirected to the following dialog. (figure 14)

Device Registration	This device has not been registered. Click the "Register" button to run the Cisco Network Setup Assistant. This application installs the required certificates and configures your device to use the secure network.
Device ID	00:26:C6:11:72:B0
Description	YourUserID laptop
	Register

- 20. You will see your Device ID (MAC address) pre-populated. (figure 15)
- 21. Enter your user ID and a simple description of the device you are connecting with. (figure 15)
- 22. Click the <u>Register</u> button. (figure 15)

	Your MAC address will be pre-populated
Device ID	00:26:C6:11:72:B0
Description	YourUserID laptop
	Register Enter your User ID and a simple description of the device

23. Click start once the Network Setup Assistant appears. (figure 16)





24. Say Yes to the installation of any certificates. (figure 17)

Security W	arning	23
	You are about to install a certificate from a certification authority (CA) claiming to represent: PinellasCounty Windows cannot validate that the certificate is actually from "PinellasCounty". You should confirm its origin by contacting "PinellasCounty". The following number will assist you in this process: Thumbprint (sha1): A6D983C2 6F5C3241 AECC048E B430FC8B C5B8ACFE Warning: If you install this root certificate, Windows will automatically trust any	
	certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk. Do you want to install this certificate?	
	Yes No	

25. You may now click exit. (figure 18)



Figure 18

26. You may close the Internet Explorer window below. (figure 19)



Let's verify the wireless configuration is correct.

- 27. Click the wireless icon on your taskbar. (figure 20)
 - Alternatively you can click the Start Button > Settings > Control Panel > Network Connections. Right-click the "Wireless Network Connection" icon and select "View Available Wireless Networks".



28. Click on "Change advanced settings" located on the left side of the window. (figure 21)

(19) Wireless Network Connection		
Network Tasks	Choose a wireless network	
💋 Refresh network list	Click an item in the list below to connect to a wireless network in range or to get m information.	iore
Set up a wireless network for a home or small office	((p)) Pinellas_Enterprise Manu	ial 👷 🛆
	Security-enabled wireless network (WPA2)	0000
Related Tasks	((Q)) Pinellas_BYOD Manu	ial ☆
(i) Learn about wireless	🖁 😚 Security-enabled wireless network (WPA2)	
networking	((Q)) Pinellas_Guest	
Change the order of preferred networks	Unsecured wireless network	atti
Settings	((ဝူ))	-0
	Security-enabled wireless network (WPA2)	B0000
	((ဋ))	
	Unsecured wireless network	
	((Q))	
	Security-enabled wireless network (WPA)	ull 🗸
	Di	sconnect

- 29. Click on the center tab "Wireless Networks". (figure 22)
- 30. Select the **Pinellas_Enterprise** and click the "Properties" button in the "Preferred networks" section of the window. *(figure 22)*

🕹 Wireless Network Connection Properties 🛛 🛛 🏾 🤶					
Genera Wireless Networks Advanced					
Use Windows 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:					
Pinellas_Enterprise (Automatic) Move up					
Move down					
Add Remove Properties					
Learn about <u>setting up wireless network</u> Advanced					
OK Cancel					

31. From the "Association" tab, verify the following.

Wireless network properties						
Association Authentication Connection						
Network name (SSID): Pinellas_Enterprise						
Connect even if this network is not broadcasting Wireless network key						
This network requires a key for the following:						
Network Authentication: WPA2	~					
Data encryption: AES	~					
Network key:						
Confirm network key:						
Key index (advanced): 1						
OK Cancel						



- 32. Verify the following are now configured.
- 33. Click the "Properties" button. (figure 24)

Pinellas_Enterprise properties						
Association	Authentication	Connection				
Select this option to provide authenticated network access for wireless Ethernet networks.						
✓ Enable IEEE 802.1x authentication for this network						
EAP type: Smart Card or other Certificate						
Properties						
Authenticate as computer when computer information is available						
Authenticate as guest when user or computer information is unavailable						
			ок с	ancel		



34. Verify the following is correctly configured. (figure 25)

Smart Card or other Certificate Properties 🛛 🛛 🛛				
When connecting:				
 Use a certificate on this computer Use simple certificate selection (Recommended) 				
Validate server certificate				
Connect to these servers:				
Trusted Root Certification Authorities:				
 NetLock Platina (Class Platinum) Főtanúsítvány NetLock Uzleti (Class B) Tanusitvanykiado Netrust CA1 				
Network Solutions Certificate Authority				
PersonalID Trustworthy RootCA 2011				
PinellasCounty				
View Certificate				
Use a different user name for the connection				
OK Cancel				



- 35. Click the "OK" button until you exit out of any open windows.
- 36. You may now connect to the **Pinellas_Enterprise** wireless network.

Connect Wireless Network Connection				
User name on certificate:				
UserID			~	
Friendly name:				
Issuer:	ENTSCEP1			
Expiration date:	10/13/20151	0:24:15 PM		
Connection user name:				
UserID				
	ОК	Cancel	View Certificate	

If you cannot connect please try restarting your laptop.

If any issue should occur please contact the Customer Service Center for assistance.