<u>Windows Vista and Windows 7</u> <u>Wireless Configuration</u> <u>For</u> NCC Student Owned Laptops

A wireless network for Students to use with their personal laptops, is available throughout campus with the SSID **NCC-STUDENT**. This network is configured with WPA Enterprise authentication and AES encryption, which utilizes your NETID and password for logon.

The IT Department is not responsible for updating, configuring, repairing, or otherwise troubleshooting personal laptops. This includes, but is not limited to, damage caused by malicious software or people, both in person and over the network or Internet.

Minimum requirements for Laptops:

All Student owned Laptops must have a wireless network card capable of 802.11 A (Wireless A), 802.11 G (Wireless G), or 802.11N (Wireless N) speeds. Laptops with an 802.11 B (Wireless B) network card will not be capable of seeing the wireless network, and will not be able to connect.

The latest Microsoft Windows Updates are required to support authentication to this network. You will not be able to connect to the SSID **NCC-STUDENT** without having these updates. You must download the updates from another location (such as your home) prior to bringing your laptop to campus.

Windows Vista and Windows 7 Configuration Guide:

This assumes that your wireless card is already enabled and functional, there are several methods for determining the status of your network card depending on your settings. None of these methods will be included in this document.

Step 1:

In the lower right hand corner of the screen, hover over your wireless network card. An example of this is shown in the screen shot below.



Step 2:

Right click on the network icon, and choose "Open Network and Sharing Center". The "Network and Sharing Center" window will appear, as seen in the screenshot below.

💮 💬 – 🙀 « All Control Panel	Items 🕨 Network and Sharing Center	👻 🍫 Search Control Pane	el 🔎
Control Panel Home Manage wireless networks Change adapter settings Change advanced sharing settings	tems Network and Sharing Center View your basic network inform WINDOWS-7 (This computer) View your active networks Change your networking settings Change your networking settings Set up a new connection or ne Set up a wireless, broadband, c point. Connect to a network Connect to a network Connect or reconnect to a wire Choose homegroup and sharin Access files and printers locate Troubleshoot problems Diagnose and repair network p	Search Control Pane nation and set up connections Internet ntly not connected to any networks. twork dial-up, ad hoc, or VPN connection; or set eless, wired, dial-up, or VPN network conr ng options ed on other network computers, or change problems, or get troubleshooting informat	See full map See full map Connect to a network up a router or access nection. e sharing settings.
Internet Options Windows Firewall			

Step 3:

Choose the option to "Manage Wireless Networks" on the Left hand side of the window. The 'Manage Wireless Networks" window will appear, as seen in the screenshot below.



Step 4:

Click the "Add" button to create a new wireless connection. The "Manually connect to a wireless network" window will appear, as seen in the screen shot below.



Step 5:

Click the "Manually create a network profile" button. The profile information window will appear, as seen in the screenshot below.

0	Manually connect to a wir	eless network	
	Enter information for t	he wireless network you want to add	
	Network name:	NCC-STUDENT	
	Security type:	WPA2-Enterprise	
	Encryption type:	AES •	
	Security Key:	Hide characters	
	📝 Start this connection a	utomatically	
	Connect even if the ne	twork is not broadcasting	
	Warning: If you select	this option, your computer's privacy might be at risk.	
		Next	Cancel

Step 6:

Fill in the fields. The "Network name" is **NCC-STUDENT** Then click **Next**. The "Successfully Added NCC-STUDENT" window appears as seen in the screenshots below.





Step 7:

Click the "Change Connection Settings" option. The "*NCC-STUDENT* Wireless Network Properties" window opens as seen in the screen shot below.

ICC-STUDENT Wireless	Network properties
Connection Security	
Name:	NCC-STUDENT
SSID:	NCC-STUDENT
Network Type:	Access point
Network Availability:	All users
Connect even if th	ne network is not broadcasting
	OK Cancel

Step 8:

Choose the "Security" tab. Make sure that the setting for "security Type" is **WPA2-Enterprise**, "Encryption Type" is set to **AES**, and the "Choose a Network Authentication Method" is set to **Microsoft: Protected EAP (PEAP)**.

NCC-STUDENT Wireless	Network Properties		x
Connection Security			
Security type:	WPA2-Enterprise	•	
Encryption type:	AES	•	
Choose a network aut	hentication method:		
Microsoft: Protected	EAP (PEAP)	Settings	
Remember my creatime I'm logged on	dentials for this connect	ion each	
Advanced settings			
		ок с	ancel

Step 9:

Click the **Settings** tab next to "Microsoft: Protected EAP (PEAP)". The "Protected EAP Properties" window appears as seen in the screen shot below. **Uncheck** "Validate Server certificate" and be sure that the "Select Authentication Method" is set to **Secured password (EAP-MSCHAPv2)**, as seen in the screenshot below.

rotected EAP Properties	X
When connecting:	
Validate server certificate	10
Connect to these servers:	
Trusted <u>R</u> oot Certification Authorities:	
Class 3 Public Primary Certification Authority	
GTE CyberTrust Global Root	
Microsoft Root Authority	
Microsoft Root Certificate Authority Thomas Timestamping CA	
Do not prompt user to authorize new servers or trusted	
certification authorities.	
Select Authentication Method:	
Secured password (EAP-MSCHAP v2)	ure
Enable East Reconnect	
Enable Quarantine checks	
Disconnect if server does not present cryptobinding TLV	
OK Car	ncel

Step 10:

Click the "Configure" button next to "Secured password (EAP-MSCHAP V2)". The "EAP MSCHAPv2 Properties" window displays. Uncheck the "Automatically use my Windows logon name and password (and Domain is any)" option, as seen in the screenshot below.

AP MSCHAP	v2 Properties		
When conne	cting:		
	tically use my \	Windows logon na	ame and
passwo	rd (and domain	if any).	

Step 11:

Click "OK" to close the "EAP MSCHAPv2 Properties" window. Click "OK" to close the "Protected EAP Properties" window. Click "OK" to close the "NCC- STUDENT Wireless Network Properties" window.

Step 12:

At the bottom of the screen, a balloon message will appear stating that "Additional information is required to connect to NCC- STUDENT".



Step 13:

Click directly on the balloon message. An "Enter Credentials" window will appear, as seen in the screenshots below.

Liser name:	
Password:	
Save this user name and password for future use	
Save this user name and password for future use	



Network A	uthentication	
Please enter u	iser credentials	
	User name	
	Password	

Step 14:

Type your NETID in the "User name" field. Example: <u>12345678@student.commnet.edu.</u> Then type your Password in the "Password" field.

Then click "OK".

Leave the "Logon Domain" field blank.

Step 15:

If the "Set Network Location" windows appears, choose "Public Network", as seen in the screenshot below. If this window does not appear, move to the next step.



Step 16:

Open Internet explorer 7. Instead of you homepage appearing, a message stating that there is a problem with this websites security certificate appears, as seen in the screen shot below.



Step 16:

Click the link to "Continue to this website (not recommended)". You will then be forwarded to the NCC-STUDENT Wireless Policy Splash page, seen in the screen shot below. Use of this wireless network indicates acceptance to this policy as well as those located at <u>http://www.commnet.edu/it/policy/policies.asp</u>. After this page displays, you can navigate to any other website.

