How to configure Windows Vista and Windows 7 with 802.1X

This guide explains how to configure Windows Vista and Windows 7 for use with the encrypted wireless network at Amrita University

FYI: Manufacturers often adapters are bundled with management software. It's recommended that you disable this software and use Microsoft's built-in configuration tool instead. To enable Microsoft's built-in configuration tool to take precedence over 3rd party wireless control software, follow these steps:

- Click **Start > Run**, then type: %SystemRoot%\system32\services.msc /s and click **OK**.
- Scroll down and double-click Wireless Zero Configuration.
- In the Startup type list, select Automatic, and then click **Apply**.
- In the Service status area, click Start, and click **OK**.

How to configure the wireless adapter:

1. Right-click mouse button on the wireless network icon in the taskbar (bottom right on the desktop). Select *Open Network and Sharing Center*:

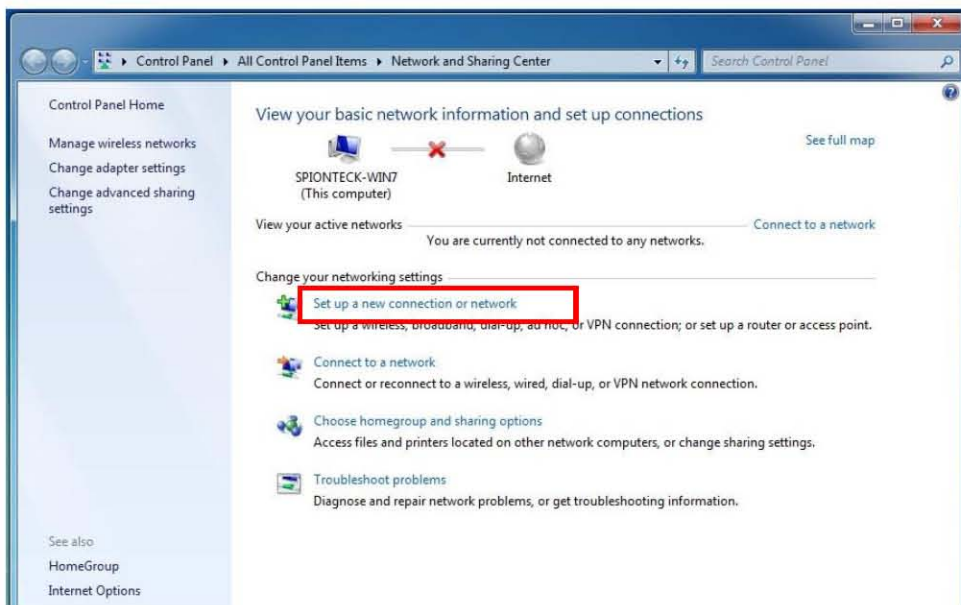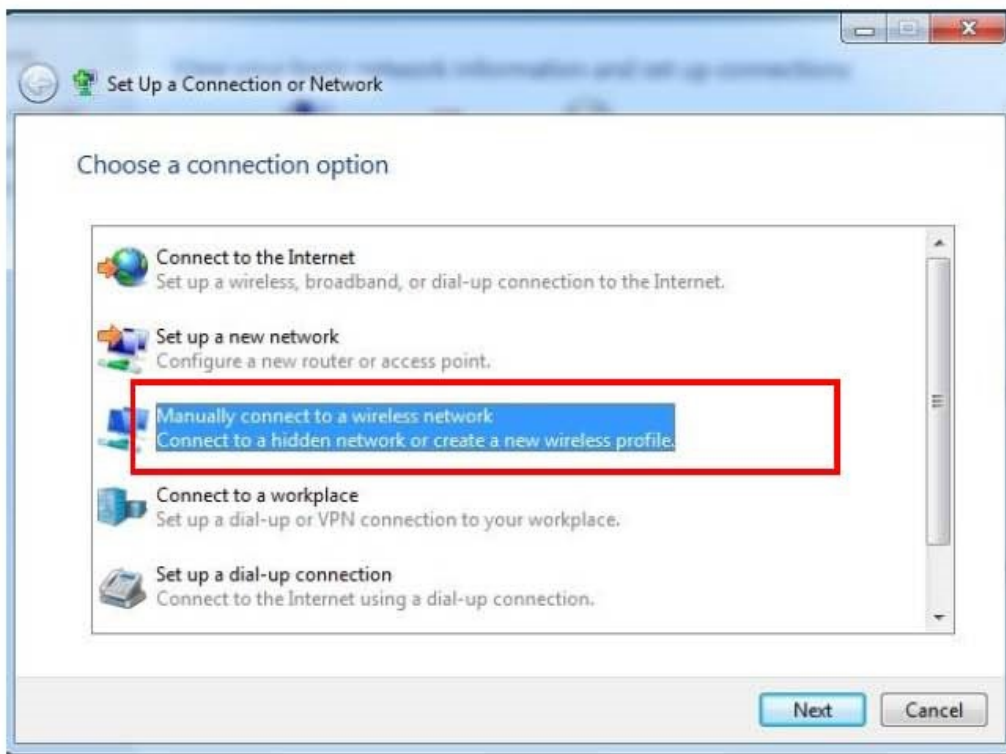
You can also find your network connections in:
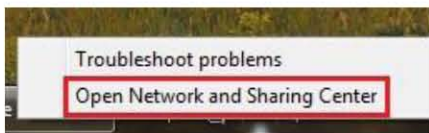
Start -> Control Panel -> Network and Internet -> Network and Sharing Center
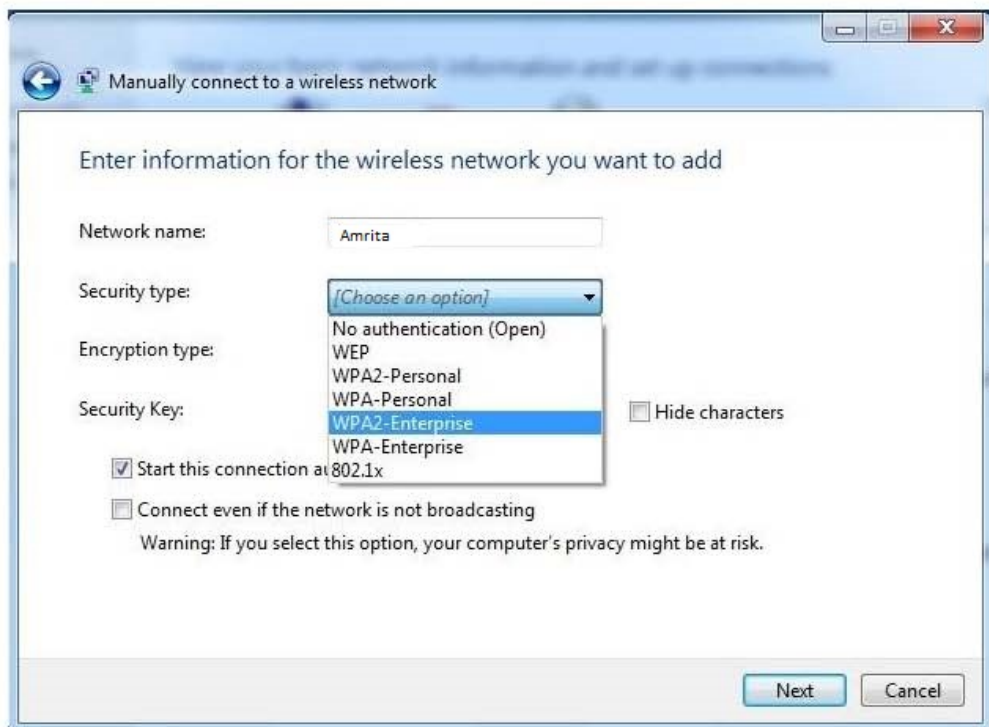
2. The following pop-up box should emerge:

3. Select **Manually connect to a wireless network**

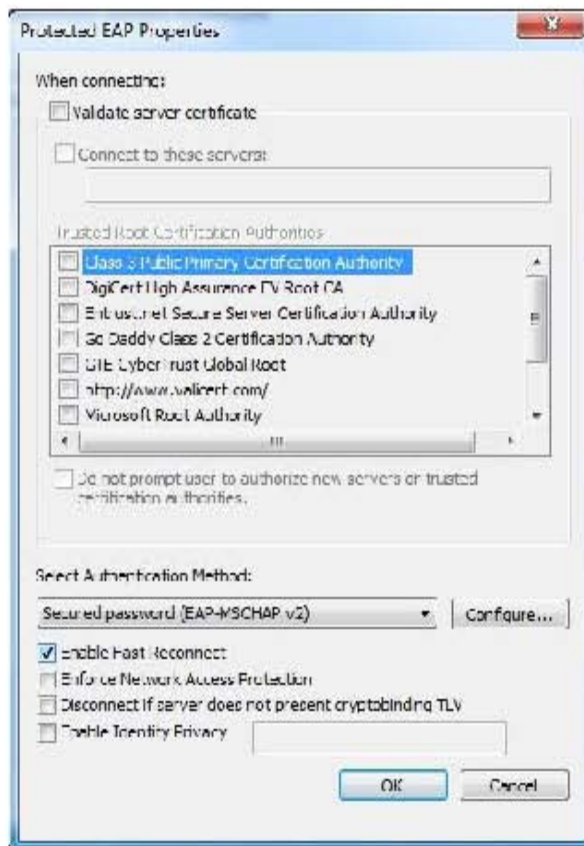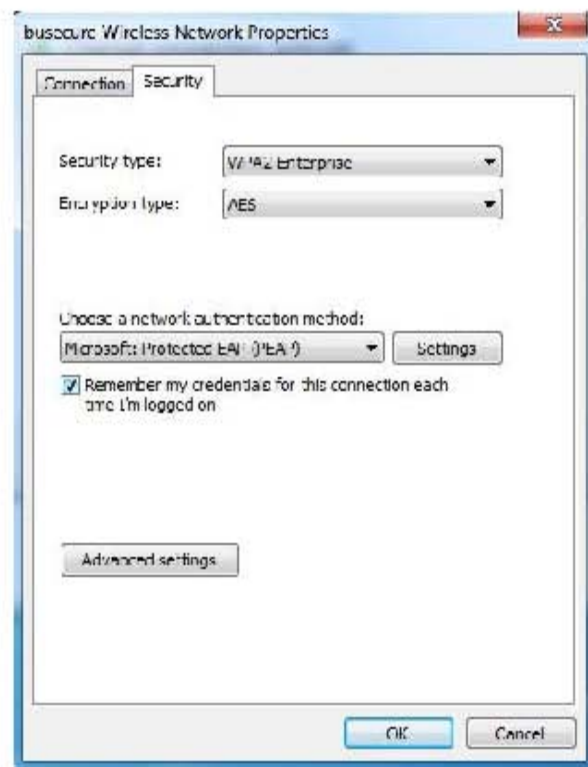4. The Amrita University wireless network supports both WPA-Enterprise and WPA2-Enterprise

*Network name: **Amrita**. Then select Security type: **WPA2-Enterprise***

5. Click **Next**
6. Click **Change connection settings**

→ Change connection settings
Open the connection properties so that I can change the settings.

7. Make sure Security type is **WPA- Enterprise or WPA2-Enterprise**.
   - Encrytion type can be either **AES or TKIP**
   - Network authentication method: **Microsoft: Protected EAP (PEAP)**
8. Click **Settings**

buscoure Wireless Network Properties

Connection | Security

Security type: WPA2 Enterprise
Encryption type: AES

Choose a network authentication method:
Microsoft: Protected EAP (PEAP)   [Settings]
☑ Remember my credentials for this connection each time I'm logged on

[Advanced settings]

[OK] [Cancel]

Protected EAP Properties

When connecting:
☐ Validate server certificate

☐ Connect to these servers:

Trusted Root Certification Authorities:
☐ Class 3 Public Primary Certification Authority
☐ DigiCert High Assurance EV Root CA
☐ Entrust.net Secure Server Certification Authority
☐ Go Daddy Class 2 Certification Authority
☐ GTE CyberTrust Global Root
☐ http://www.valicert.com/
☐ Microsoft Root Authority

☐ Do not prompt user to authorize new servers or trusted certification authorities.

Select Authentication Method:
Secured password (EAP-MSCHAP v2)   [Configure...]
☑ Enable Fast Reconnect
☐ Enforce Network Access Protection
☐ Disconnect if server does not present cryptobinding TLV
☐ Enable Identity Privacy

[OK] [Cancel]

9. You should disable the box marked **Validate server certificate**
10. Select Authentication Method: *Secured Password (EAP-MSCHAP v2)*.
11. You can also check the box for *Enable Fast Reconnect*.
12. Click **Configure**
13. **Uncheck** Automatically use my Windows logon name and password
14. Click **OK**

EAP MSCHAPv2 Properties

When connecting:

☐ Automatically use my Windows logon name and password (and domain if any).

[OK] [Cancel]

15. Then select **Advanced Settings**

16. Check the **Specify Authentication Mode** box
17. Select **User or Computer Authentication**
18. Click **OK**
19. Then click ok in the next window as well and you will be set up to connect to **Amrita**

Advanced settings

802.1X settings | 802.11 settings

☑ Specify authentication mode:

User or computer authentication ▼ | Save credentials

☐ Delete credentials for all users

☐ Enable single sign on for this network

◉ Perform immediately before user logon
○ Perform immediately after user logon
Maximum delay (seconds): 10
☑ Allow additional dialogs to be displayed during single sign on
☐ This network uses separate virtual LANs for machine and user authentication

OK | Cancel

Log in

Not connected

Connections are available

Wireless Network Connection ⌃

Amrita

Connect

Amrita-Guest
ICTS
Other Network

Open Network and Sharing Center

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1. Click on the Wireless icon
2. Choose **Amrita** and click **Connect**
3. Enter your **username** and **password**
4. **Click OK**

Windows Security

Network Authentication
Please enter user credentials

User name
Password

OK | Cancel