Configuring 802.1X Authentication Client for Windows 7

1. Click on Windows button to display the main menu. Click on “Control Panel”.

1.1 In the Control Panel window, click on “Network and Internet”.

![Image showing Control Panel and Network and Internet option]
1.2 In the Network and Internet window, click on “Network and Sharing Center”.

1.3 In the Network and Sharing Center window, click on “Manage wireless networks”.

**Diagram:**
- In the Network and Internet window, click on “Network and Sharing Center”.
- In the Network and Sharing Center window, click on “Manage wireless networks”.

**Diagram Notes:**
- View your basic network information and set up connections.
- View your active networks.
- Change your networking settings.

**Diagram Explanation:**
- Set up a new network connection or network.
- Connect to a network.
- Choose homegroup and sharing options.
- Troubleshoot problems.
1.4 In the Manage Wireless Networks window, click on “Add”.

1.5 In the next window, click on “Manually create a network profile”.

How do you want to add a network?

- Manually create a network profile
  This creates a new network profile or locates an existing network and saves a profile for the network on your computer. You need to know the network name (SSID) and security key (if applicable).

- Create an ad hoc network
  This creates a temporary network for sharing files or an Internet connection
When prompted to enter the wireless network information:

- Enter the correct Network name/SSID.
- Select “WPA2-Enterprise” as the Security type. Encryption type will default to AES.
- Enable the “Start this connection automatically” checkbox.
- Enable the “Connect even if the network is not broadcasting” checkbox.
- Click the “Next” button

The SSID to be used are as follows:

<table>
<thead>
<tr>
<th>User Group</th>
<th>SSID</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Students</td>
<td>NYP-Student</td>
</tr>
<tr>
<td>All Staff</td>
<td>STAFF</td>
</tr>
<tr>
<td>All Adjunct Lecturers/IOT Devices</td>
<td>NYP-Account</td>
</tr>
</tbody>
</table>

Table 1

For Student, please see below configuration settings:
For Staff, please see below configuration settings:

![Configuration settings for Staff]

For Adjunct Lecturers / IOT Devices, please see below configuration settings:

![Configuration settings for Adjunct Lecturers / IOT Devices]
1.7 After adding the wireless network profile successfully, click on the **Change Connection settings**. Pop-up window will appear. (For example, connecting to NYP-Student SSID)

1.8 In the pop-up window, **Wireless Network Properties**:
- Ensure the checkboxes for “Connect automatically when this network is in range” and “Connect even if the network is not broadcasting its name (SSID)” are checked.
- Click on the “Security” tab.
1.9 Under the **Security** options:
- Ensure Security type is set to **WPA2-Enterprise**.
- Ensure Encryption type is set to **AES**.
- Select **Microsoft: Protected EAP (PEAP)** for network authentication method.
- Uncheck the “**Remember my credentials for this connection each time I’m logged on**” checkbox.
- Click on “**Settings**” button.
1.10 In the Protected EAP Properties page:
• Uncheck “Validate server certificate”.
• Check “Enable Fast Reconnect”.
• Select “Secured password (EAP-MSCHAP v2)” for authentication method
• Click on the “Configure…” button.

• Uncheck the “Automatically use my Windows login name and password”.
• Click on OK button.
1.11 Under the **Security** options:
Click on the Advanced settings option from the followings:

- Ensure the checkbox for “Specify authentication mode” is checked.
  Select “User authentication” under the Specify authentication mode.
1.12 Click the “OK” button twice to return to the below screen. Click on “Close” button.

1.13 You have successfully created a wireless network profile.
Connection to NYP wireless LAN

2. When you are within range of the wireless Access Point and your wireless network radio enabled, Windows will display a pop-up message on your taskbar.

2.1 When you click on the pop-up message, the below screen will appear. Enter your username and password to login to the wireless network.

For Student Wireless Login to “NYP-Student” SSID
Use Student Portal username and password

For Staff Login to “STAFF” SSID
Use Windows Login name and password

For adjunct lecturer login to “NYP-Account” SSID
Use Office 365 username and password.
2.2 The “Wireless Network Connection Status” window is displayed. You can check the SSID, signal quality.

![Wireless Network Connection Status](image)

**Updating of Windows password**

3. After you had updated your Windows password in either the Staff/Student domain, you have to manually update the cached password saved in step 2.1.

3.1 A pop-up balloon will appear.

3.2 Click on the pop-up balloon. A window will appear and prompt for your new password. Update with your new password.

![Network Authentication](image)

3.3 You will be able to login to NYP wireless after your password is successfully validated.

*End of Procedure*