UniWide Setup Guide for Ubuntu 7.10

Prerequisites:

• This setup guide is written specifically for Ubuntu Linux 7.10 (Gutsy) using Gnome Network Manager. There are a number of different ways to configure your wireless connection in Linux depending on the distribution. This document will only show one (the simplest) but the settings used here can be applied when using other methods.
• This setup guide assumes a correctly installed wireless card with the correct drivers.

Wireless Setup Procedure:

1. Ensure that you have a wireless card installed with the correct drivers. One quick way to check is to run the command ‘iwconfig’. Running this command without arguments displays the parameters of network interfaces configured for wireless operation:

   ```
   user@host:~$ iwconfig
   lo  no wireless extensions.
   eth0  no wireless extensions.
   eth1  unassociated  ESSID:"
          Mode:Managed  Frequency=2.462 GHz  Access Point: Not-Associated
          Bit Rate:0 kb/s  Tx-Power=20 dBm  Sensitivity=8/0
          Retry limit:7  RTS thr:off  Fragment thr:off
          Power Management:off
          Link Quality:0  Signal level:0  Noise level:0
          Rx invalid nwid:0  Rx invalid crypt:1  Rx invalid frag:0
          Tx excessive retries:0  Invalid misc:0  Missed beacon:0
   ```

2. Open “Gnome Network Manager”. The Gnome Network Manager applet is installed by default in Ubuntu 7.10. Left-click on the “Gnome Network Manager” icon, which should be located in top-right panel:
3. Left-click on “Connect to Other Wireless Network…” to configure a new network connection:

4. Configure the uniwide wireless network using the following details and then click “Connect”:

<table>
<thead>
<tr>
<th>SSID / Network Name:</th>
<th>uniwide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Security:</td>
<td>WPA-Enterprise or WPA2-Enterprise (more secure but may not work on legacy clients)</td>
</tr>
<tr>
<td>EAP Method:</td>
<td>PEAP</td>
</tr>
<tr>
<td>Key Type/Encryption Cipher:</td>
<td>TKIP or AES-CCMP (more secure but may not work on legacy clients)</td>
</tr>
<tr>
<td>Phase2 Type:</td>
<td>MSCHAPv2</td>
</tr>
<tr>
<td>Identity/Username:</td>
<td>Staff/Student ID (e.g. z1234567)</td>
</tr>
<tr>
<td>Password:</td>
<td>Your UniPass password</td>
</tr>
</tbody>
</table>
You should now be connected to the UNSW_PEAP wireless network:
Here is a partial configuration for those that wish to use wpa_supplicant:

```bash
# UNSW uniwide
network={
    ssid="uniwide"
    scan_ssid=1
    key_mgmt=WPA-EAP
    eap=PEAP
    phase2="auth=MSCHAPv2"
    identity="z1234567"
    password="password"
}
```