Set up and connect to the UCT wireless network for Windows XP

A: Important: please note before you connect to the UCT network

Your computer must comply with the UCT Networking policies before connecting to the UCT wireless network. Please ensure that your computer has:

- the latest Windows updates installed
- the latest anti-virus signatures

For more information, visit: www.icts.uct.ac.za | Networking | Networking policies | *Policy on dealing with Unsecured Computers*.

B: Set your Internet proxy configuration

Internet Explorer:

1. Open *Internet Explorer*.
2. Select *Tools* | *Internet Options*.
3. The *Internet Options* dialog box appears.
4. Select the *Connections* tab.
   - Click *LAN Settings*.
5. The *Local Area Network (LAN) Settings* dialog box appears.
   - Select the *Automatically detect settings* checkbox.
   - Ensure that the *Use automatic configuration script* checkbox is cleared.
   - Under the *Proxy server* section, ensure that the *Use a proxy server for your LAN* checkbox is cleared.
   - Click *OK*.
6. You are returned to the *Internet Options* page.
7. Click *OK*.
8. When opening Internet Explorer, if an Authentication box appears, enter your UCT *username@wf.uct.ac.za* and your UCT password.

Mozilla Firefox:

1. Open *Firefox*.
2. Select *Tools* | *Options*.
3. The *Options* dialog box appears.
   - Click *Advanced*.
   - Select the *Network* tab.
   - Under the *Connection* field, select *Settings*.
4. The *Connection Settings* dialog box appears.
   - Remove any entries in the *HTTP Proxy field* and under the *Automatic proxy configuration URL*.
   - Select *Auto-detect proxy settings for this network*.
   - Click *OK*.
5. The *Options* dialog box reappears.
   - Click *OK*.
6. You have now set your Internet proxy configuration in Mozilla Firefox.

C: Set up the UCT wireless network connection on your Windows XP laptop

Windows XP is no longer a supported operating system at UCT. These instructions are provided as a courtesy to Windows XP users. To set up the UCT wireless network on your Windows XP laptop, follow these steps.

1. Select *Start* | *Connect to* | *Show all connections* or Select *Start* | *Settings* | *Network Connections*.
2. The Network Connections window opens.
   - Right click *Wireless Network Connection*.
     - Select *Properties*.
3. The *Wireless Network Connection Properties* dialog box appears.
   - Click the *Wireless Networks* tab.
     - Select *Use Windows to configure my wireless network settings*.
     - Click *Add*.

If you do not see the Wireless Networks tab, you need to enable the Wireless Zero Configuration service:
http://www.icts.uct.ac.za/modules.php?name=News&file=article&sid=3195

4. The *Wireless network properties* dialog box appears.
   - On the *Association* tab.
     - Type *eduroam* in the *Network name* (SSID) field.
     - Select *WPA* from the *Network Authentication* drop-down list.
     - Select *AES* from the *Data Encryption* drop-down box.

If you do not see these options, you may need to update the drivers for your wireless adapter or your adapter does not support WPA.

   - Click the *Authentication* tab.
     - Select *Protected EAP (PEAP)* from the *EAP* type drop-down list.
     - Deselect *Authenticate as computer when computer information is available*.
     - Click P*roperties*.
   - The *Protected EAP Properties* dialog box appears.
     - Select *Connect to these servers*.
     - Type *uc-acs.uct.ac.za;mc-acs.uct.ac.za*.
     - Select *thawte Primary Root CA* under the *Trusted Root Certification Authorities* field.
     - Select *Secured Password (EAP-MSCHAP v2)* from the *Select Authentication Method* drop down list.
     - Click *Configure*.
   - The *EAP MSCHAPv2 Properties* dialog box appears.
     - Deselect *Automatically use my Windows logon name and password* (and domain if any).

Note

If you leave this option selected, your PEAP credentials will be cached (saved). This means that when you next change your password you will not be prompted to enter your new password, and won't be able to connect to the wireless network. There is no workaround to prevent this.

You will need to manually delete the cached credentials by either deleting *eduroam* from your preferred networks and then adding it again, or deleting the cached credentials from the registry (not recommended).
     - Click *OK*.
   - The *Protected EAP Properties* dialog box re-appears.
     - Click *OK*.
   - The *Wireless network properties* dialog box re-appears.
     - Click *OK*.
   - The *Wireless Network Connection Properties* dialog box re-appears.
     - Click *OK*.
5. Close the *Network Connections* window.

D: Connect to the UCT wireless network from your Windows XP laptop

Windows XP will attempt to connect to the UCT wireless network for the first time. You will see a *Wireless Network Connection* balloon pop up in your system tray.

1. Click the balloon pop-up.
2. The *Enter Credentials* dialog box appears.
   - Enter your network *username@wf.uct.ac.za* (i.e. staff/student number) and password.
   - Leave the *Login domain:* option blank.
   - Click *OK*.
3. You are now connected to the UCT wireless network.

If your computer does not automatically connect, then follow these steps:

1. Select *Start* | *Connect to* | *Show all connections* or select *Start* | *Settings* | *Network Connections*.
2. The *Network Connections* window opens.
   - Right click *Wireless Network Connection*.
   - Select *View Available Wireless Networks*.
3. The *Wireless Network Connection Properties* dialog box appears.
   - Under *Choose a wireless network*, double click *eduroam*.
4. The *Enter Credentials* dialog box appears.
   - Enter your network *username@wf.uct.ac.za* (i.e. staff/student number) and password.
   - Leave the *Logon domain:* option blank.
   - Click *OK*.
5. You are now connected to the UCT wireless network.

Set up and connect to the UCT wireless network for Windows Vista

A: Important: please note before you connect to the UCT network

Your computer must comply with the UCT Networking policies before connecting to the UCT wireless network. Please ensure that your computer has:

- the latest Windows updates installed
- the latest anti-virus signatures

For more information, visit: www.icts.uct.ac.za | Networking | Networking policies | *Policy on dealing with Unsecured Computers*.

B: Set your Internet proxy configuration

Internet Explorer:

1. Open *Internet Explorer*.
2. Select *Tools | Internet Options*.
3. The *Internet Options* dialog box appears.
4. Select the *Connections* tab.
   - Click *LAN Settings*.
5. The *Local Area Network (LAN) Settings* dialog box appears.
   - Select the *Automatically detect settings* checkbox.
   - Ensure that the *Use automatic configuration script* checkbox is cleared.
   - Under the *Proxy server* section, ensure that the *Use a proxy server for your LAN* checkbox is cleared.
   - Click *OK*.
6. You are returned to the *Internet Options* page.
7. Click *OK* to close the *Internet Options* page.
8. When opening Internet Explorer, if an Authentication box appears, enter your UCT *username@wf.uct.ac.za* and your UCT password.

Mozilla Firefox:

1. Open *Firefox*.
2. Select *Tools | Options*.
3. The *Options* dialog box appears.
   - Click *Advanced*.
   - Select the *Network* tab.
   - Under the *Connection* field, select *Settings*.
4. The *Connection Settings* dialog box appears.
   - Remove any entries in the *HTTP Proxy field* and under the *Automatic proxy configuration URL*.
   - Select *Auto-detect proxy settings for this network*.
   - Click *OK*.
5. The *Options* dialog box reappears.
   - Click *OK*.
6. You have now set your Internet proxy configuration in Mozilla Firefox.

C: Set up the UCT wireless network connection on your Windows Vista laptop

Windows Vista is not a supported operating system at UCT. These instructions are provided as a courtesy to Windows Vista users. To set up the UCT wireless network on your Windows Vista laptop, follow these steps.

1. Either click *Start | Connect to* or click *Start | Settings | Network Connections* and double-click *Wireless Network Connection*.
2. The *Connect to a network* window opens.
   - Click *Open Network and Sharing Center*.
   - Click *Manage wireless networks*.
   - Click the *Add* button.
3. The *Manually connect to a wireless network* dialog box appears.
   - Select the *Manually create a network profile* option.
   - Select *Use Windows to configure my wireless network settings*.
   - Click *Add*.
4. The *Wireless network information* dialog box appears.
   - Type *eduroam* in the *Network name* field.
   - Select *WPA-Enterprise* from the *Security type:* drop-down list.
   - Select *AES* from the *Encryption type* drop-down box.
   - Click *Next*.
5. The *Successfully added eduroam* dialog should appear.
   - Select the *Change connection* settings option.
   - This will open the *eduroam Wireless Network properties* screen.
   - Ensure that *Microsoft: Protected EAP (PEAP)* is selected from the Choose the *network authentication method:* drop- down list.
   - Click *Settings*.
6. The *Protected EAP Properties* dialog box appears.
   - Select *Connect to these servers*.
   - Type *uc-acs.uct.ac.za;mc-acs.uct.ac.za*
   - Select *thawte Primary Root CA* under the *Trusted Root Certification Authorities* field.
   - Ensure that *Secured Password (EAP-MSCHAP v2)* is set from the *Select Authentication Method* drop down list.
   - Click *Configure*.
7. The *EAP MSCHAPv2 Properties* dialog box appears.
   - Deselect *Automatically use my Windows logon name and password (and domain if any)*.

☞ **Note**

If you leave this option selected, your PEAP credentials will be cached (saved). This means that when you next change your password you will not be prompted to enter your new password, and won't be able to connect to the wireless network. There is no workaround to prevent this.

You will need to manually delete the cached credentials by either deleting "eduroam" from your preferred networks and then adding it again, or deleting the cached credentials from the registry (not recommended).
   - Click *OK*.
8. The *Protected EAP Properties* dialog box re-appears.
   - Click *OK*.
9. The *Wireless network properties* dialog box re-appears.
   - Click *OK*.
10. The *Manually connect to a Wireless Network* dialog box re-appears.
    - Click *Connect to*.
11. Close the *Manually connect to a wireless network* window.
12. Close the *Manage Wireless Networks* window.
13. Close the *Network and Sharing Center* window.

D: Connect to the UCT wireless network from your Windows Vista laptop

Windows Vista will attempt to connect to the UCT wireless network for the first time. You will see a balloon pop-up in your system tray.

1. Click the balloon pop-up.
2. The *Enter Credentials* dialog box appears.
   - Enter your network credentials: *username@wf.uct.ac.za* (i.e. staff/student number) and password.
   - Leave the *Logon domain:* option blank.
   - Click *OK*.
3. You are now connected to the UCT wireless network.

If your computer does not automatically connect, then follow these steps:

1. Either click *Start | Connect to* or click *Start | Settings | Network Connections* and double-click *Wireless Network Connection*.
2. The *Connect to a network* window opens.
   - Select the *eduroam wireless network*.
   - Click *Connect*.
3. The *Enter Credentials* dialog box appears.
   - Enter your network *username@wf.uct.ac.za* (i.e. staff/ student number) and password.
   - Leave the *Logon domain:* option blank.
   - Click *OK*.
4. You are now connected to the UCT wireless network.

A: Important: please note before you connect to the UCT network

Your computer must comply with the UCT Networking policies before connecting to the UCT wireless network. Please ensure that your computer has:

- the latest Windows updates installed
- the latest anti-virus signatures

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Networking policies | *Policy on dealing with Unsecured Computers*.

B: Set your Internet proxy configuration

Safari:
1. Click the *Apple* icon.
2. Select *System Preferences*.
3. The *System Preferences* dialog box appears.
   - Click *Network*.
4. The *Network* dialog box appears.
   - Highlight your connection type (either wireless or wired).
   - Click *Advanced*.
5. The *Advanced* dialog box appears.
   - Select the *Proxies* tab.
   - Remove any entries in *Web Proxy (HTTP)* and *Secure Web Proxy (HTTPS)*.
   - Under the *Select a protocol to configure* section, select the *Auto Proxy Discovery* checkbox.
   - Click *OK*
6. You have now set your Internet proxy configuration in Safari.

C: Set up and connect to the UCT wireless network from your Mac OS X v10.5 (Leopard) or Mac OS X v10.4 (Tiger) laptop

☞ **Note**   For this process to work correctly, the date and time of your machine must be accurate for the certificate to be verified.

Mac OS X v10.5 (Leopard)

1. Select *Apple menu | System Preferences*.
2. *The System Preferences* dialog box opens.
   - Double-click *Network* under *Internet & Network*.
3. The *Network* dialog box appears.
   - Select *AirPort*.
   - Ensure that the *Status:* is *On*.
   - Click *Advanced.*
4. The *AirPort* dialog box appears.
   - Select the *802.1X* tab.
     - Click the *+* icon.
     - Select *Add User Profile*.
     - Enter a name for the configuration in the left column.
     - Enter your network username@wf.uct.ac.za and password in the right column.
     - Select *eduroam* from the *Wireless Network* drop-down menu.
     - Select *PEAP* under *Authentication*.
     - Deselect all the other protocols.
   - Click *OK*.
5. In the *Network* dialog box,
   - Select *eduroam* from the *Network Name* drop-down menu.
   - Click *Apply*.
6. The *Verify Certificate* dialog box appears.
   - Click *Show Certificate*.
   - Verify that:
     - the certificate name is *uc-acs-uct.ac.za* or *mc-acs.uct.ac.za*
     - the certificate has been issued with *thawte Primary Root CA*
   - Select *Always trust these certificates*.
   - Click *Continue*.
7. You have successfully set up the UCT wireless network and you are now connected to the eduroam wireless network.

☞ **Note**

If you receive a message saying that '*AirPort does not have an IP address*', turn off the AirPort and turn it back on.

Mac OS X v10.4 (Tiger)

1. Select *Apple menu | System Preferences*.
2. The *System Preferences* dialog box opens.
   - Double-click *Network* under *Internet & Network*.
3. The *Network* dialog box appears.
   - Select *Network Status* from the *Show:* drop-down Menu.
   - Select *AirPort*.
   - Click either the *Connect* or the *Disconnect* button.
4. The *AirPort* dialog box appears.
   - Ensure that the *AirPort* is *On*.
     - Click the *Turn AirPort On* button if it is turned *Off*.
   - Select the *802.1X* tab
     - Select *Edit Configurations* from the *Configuration:* drop-down menu.
     - Enter a name for the configuration in the *Description* field.
     - Ensure that *Network Port* is set to *AirPort*.
     - Enter your network username@wf.uct.ac.za and password in the relevant fields.
     - Select *eduroam* from the *Wireless Network* drop-down menu.
     - Select *PEAP* under *Authentication*.
     - Deselect all the other protocols.
   - Click *OK*.
5. In the *802.1X* dialog box,
   - Click *Connect*.
6. The *Verify Certificate* dialog box appears.
   - Click *Show Certificate*.
   - Verify that:
     - the certificate name is *uc-acs-uct.ac.za* or *mc-acs.uct.ac.za*
     - the certificate has been issued with *thawte Primary Root CA*
   - Click the *Trust Settings* arrow
   - Click the *When using this certificate:* drop-down menu.
   - Select *Always trust*.
   - Click *Continue*.
7. The *Confirm Access to Keychain* dialog box appears.
   - Click *Always Allow*.
   - You should still have the Network dialog box open.
   - Click *Apply Now*.
8. You have successfully set up the UCT wireless network and you are now connected to the eduroam wireless network.

☞ **Note**

The 802.1X settings are set up in a separate application called *Internet Connect*. This will load when clicking on the *Connect / Disconnect* button under the *AirPort*.

Set up and connect to the UCT wireless network for Linux Ubuntu & SLED 10 - Gnome

A: Important: please note before you connect to the UCT network

Your computer must comply with the UCT Networking policies before connecting to the UCT wireless network. Please ensure that your computer has:
- the latest Windows updates installed
- the latest anti-virus signatures

For more information, visit:
www.icts.uct.ac.za | Networking | Networking policies | *Policy on dealing with Unsecured Computers*.

B: Set your Internet proxy configuration

Mozilla Firefox:
1. Open *Firefox*.
2. Select *Firefox | Preferences*.
3. The *Preferences* dialog box appears.
   - Click *Advanced*.
   - Select the *Network* tab.
   - Under the *Connection* field, select *Settings*.
4. The *Connection Settings* dialog box appears.
   - Remove any entries in the *HTTP Proxy* field and under *Automatic proxy configuration URL*.
   - Select the *Auto-detect proxy settings for this network* checkbox.
   - Click *OK*.
5. The *Advanced* dialog box reappears.
   - Click *OK*.
6. You have now set your Internet proxy configuration in Mozilla Firefox.

Linux Ubuntu

C: Set up the UCT wireless network on your notebook

1. Click the network configuration icon [icon] on the taskbar
2. The *Wireless Networks* menu listing appears.
   - Select *eduroam* from the list.
3. The *Wireless Network Authentication Required* dialog box appears.
   - Ensure that you set the following options:
     - *Wireless Security*: *WPA & WPA2 Enterprise*
     - *Authentication*: *Protected EAP (PEAP)*
     - *Anonymous Identity*: Leave it Blank
     - *CA Certification*: *file system/etc/ssl/certs/ Thawte Primary Root CA*
     - *PEAP Version:* Automatic
     - *Inner Authentication: MSCHAPv2*
   - Enter your username@wf.uct.ac.za (staff ID, 3rd party or student number)in your username field.
   - Enter your UCT network password in the *Password* field
   - Leave all the other fields blank
   - Click *Connect*
4. The network configuration icon [icon] will change to a histogram icon [icon]
5. You have now successfully set up and connected your Ubuntu 9.04 workstation to the UCT wireless network.

☞ **Note**
   - These steps were tested on the *Jaunty Jackalope (9.04)* distribution.
   - There are known unresolved bugs with *Kubuntu (9.04)* wireless connectivity.

Linux SLED 10 - Gnome

C: Set up the UCT wireless network on your notebook

To set up the connection via Network Manager, follow these steps:

1. Select *Computer | More Application*s.

2. The *Application Browser* window opens
   - Click *Network Manger Editor* under the *System* section

3. The *Wireless Network* dialog box is displayed
   - Select *eduroam* from the *Wireless Networks* column

4. The *Wireless Network Key Required* dialog box is dis- played
   - Network Manager automatically detects certain settings. Ensure that the following information is correct:
     - *Wireless Security: WPA Enterprise*
     - *EAP Method: PEAP*
     - *CA Certification: file system/etc/ssl/certs/ Thawte Primaty Root CA*
     - *Key Type: Automatic*
   - Enter your username@wf.uct.ac.za (staff ID, 3rd party or student number) in your username field.
   - Enter your UCT network password in the *Password* field
   - Click *Connect*.

5. You are now connected to the UCT wireless network.