Prerequisites

In order to use the *eduroam* network at Lublin University of Technology it is necessary to:

1. have an **active** e-mail address in the *pollub.edu.pl* domain which usually has the form of: firstname.lastname@pollub.edu.pl or tNNNNN@pollub.edu.pl, where t – is the type of program and NNNNN is the student's book number (you can check the address assigned to you at: http://sprawdz.pollub.pl);
2. get an individual password for the *eduroam* network (for a detailed description see the *Registration* section at http://eduroam.pollub.pl). **The random password generated automatically can be changed using the *Change Password* function available at** http://eduroam.pollub.pl;
3. download the *CA certificate* in the *pem* format (http://eduroam.pollub.pl/cert/plca_cert.pem);

or

1. have an active guest account, which usually has the form of: gosc.number.firstname.lastname@pollub.pl (you can obtain a guest account from the IT Center of LUT, or from your faculty's network administrator);
2. download the *CA certificate* in the *pem* format (http://eduroam.pollub.pl/cert/plca_cert.pem).

wpa_supplicant configuration

Before you start configuring wpa_supplicant download the CA certificate in the pem format (http://eduroam.pollub.pl/cert/plca_cert.pem) and save it in a location that will be accessible by wpa_supplicant. Below an example *wpa_supplicant* configuration file is shown.

You need to make the following changes to the file:

1) specify correct path to the CA certificate (*ca_cert*)
2) set your e-mail address in pollub.edu.pl domain or your guest login as your identity
3) make anonymous identity match your identity (anonymous@pollub.edu.pl or anonymous@pollub.pl)
4) enter your eduroam network password

The configuration file should work properly in networks secured using *WPA2/AES*, *WPA/TKIP* or *WEP/8021x*

```
network={
     ssid="eduroam"
     key_mgmt=WPA-EAP
     ca_cert="/path/to/certificate/plca_cert.pem"
     identity="firstname.lastname@pollub.edu.pl"
     password="ComplicatedAccessPassword"
     anonymous_identity="anonymous@pollub.edu.pl"
     eap=PEAP
     phase2="auth=MSCHAPV2"
    }
network={
     ssid="eduroam"
     key_mgmt=IEEE8021X
     ca_cert="/path/to/certificate/plca_cert.pem"
     identity="firstname.lastname@pollub.edu.pl"
     password="ComplicatedAccessPassword"
     anonymous_identity="anonymous@pollub.edu.pl"
     eap=PEAP
     phase2="auth=MSCHAPV2"
    }
```

Once the *wpa_supplicant.conf* file is save the network connection can be established running the

following command (as root):

```
wpa_supplicant -c /sciezka/do/wpa_supplicant.conf -D wext -i wlan0 -B
```

the IP configuration can be obtained using:

```
dhclient wlan0
```

or

```
dhcpd wlan0
```

In the commands above (depending on the computer setup) you may need to adjust driver name (*-D wext* in the example) and wireless interface name (*wlan0* in the example)