

Apple iPhone Configuration

Introduction

Automatic configuration of Apple iPhone and iPod touch devices can be automated through the use of a web server and The Apple iPhone Configuration Utility provide by Apple:

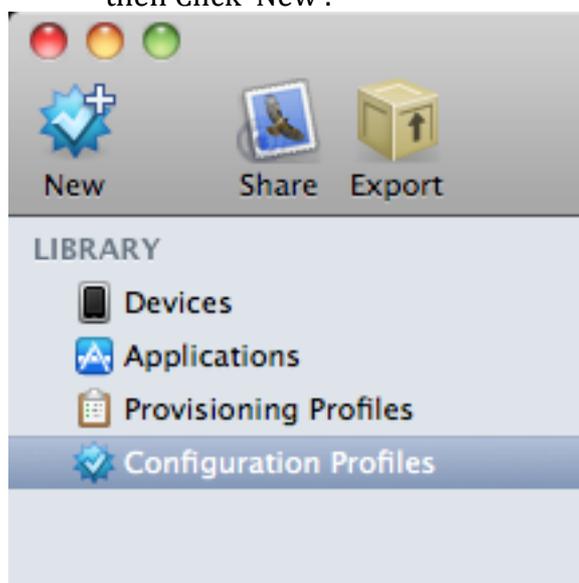
<http://www.apple.com/support/iphone/enterprise/>

To configure Apple iPhones and iPod Touches automatically you must create an XML profile for your sites settings. This profile is then delivered to your client devices using a web server. One method of doing this is to create, or modify an existing captive portal, to recognise the Apple iPhone User Agent string of the browser and then automatically redirect the client device to the XML profile. Alternatively you could place a static link on a web page for Apple iPhone and iPod touch users to click on.

Creating an XML profile

Each institution has different settings and therefore will need its own XML profile. To generate this, on an OSX or Windows PC, visit <http://www.apple.com/support/iphone/enterprise/> and download and install the "iPhone Configuration Utility". After it has finished installing run the application.

1. From the 'Library' Menu on the left choose 'Configuration Profiles' and then Click 'New'.



2. In the main window select the 'General' option on the left. Now fill in the details for your site.

General
Mandatory

- Passcode Not Configured
- Restrictions Not Configured
- Wi-Fi 1 Payload Configured
- VPN Not Configured
- Email Not Configured
- Exchange ActiveSync Not Configured
- LDAP Not Configured
- CalDAV Not Configured
- Subscribed Calendars Not Configured
- Web Clips Not Configured
- Credentials 1 Payload Configured

Identity

Name
Display name of the profile (shown on the device)
eduroam

Identifier
Unique identifier for the profile (e.g. com.company.profile)
uk.ac.lboro.profile

Organization
Name of the organization for the profile
Loughborough University

Description
Brief explanation of the contents or purpose of the profile
Lboro Eduroam Wireless Profile

Security
Controls when the profile can be removed
Always

3. In the main window area scroll down the list of options and click on 'Credentials' and then click 'Configure'.

Not Configured

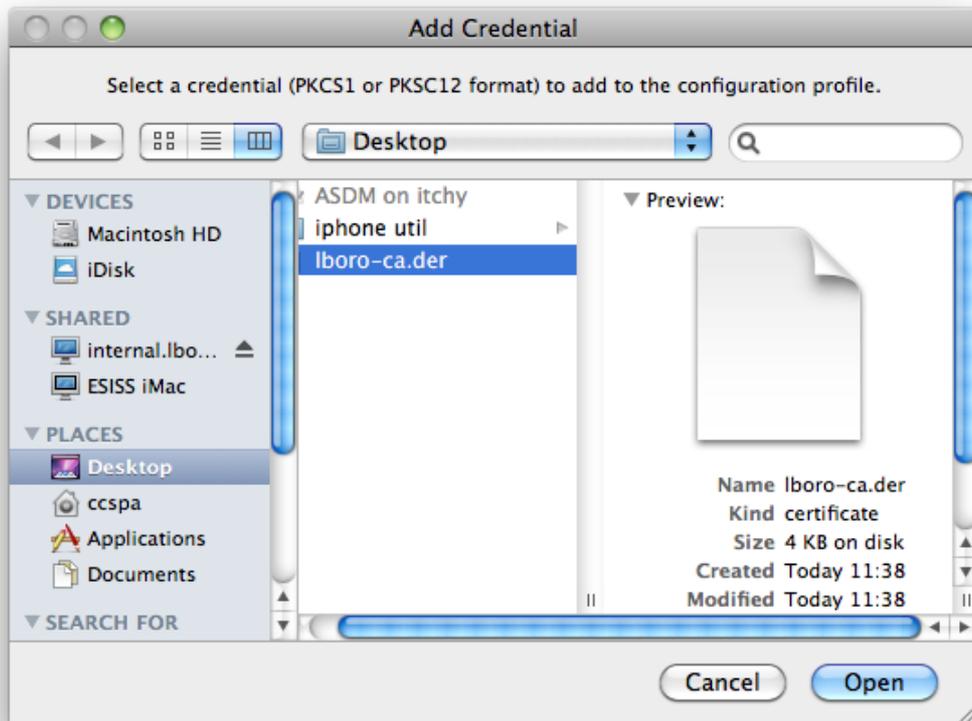
- Wi-Fi Not Configured
- VPN Not Configured
- Email Not Configured
- Exchange ActiveSync Not Configured
- LDAP Not Configured
- CalDAV Not Configured
- Subscribed Calendars Not Configured
- Web Clips Not Configured
- Credentials** Not Configured
- SCEP Not Configured
- Advanced

Configure Credentials

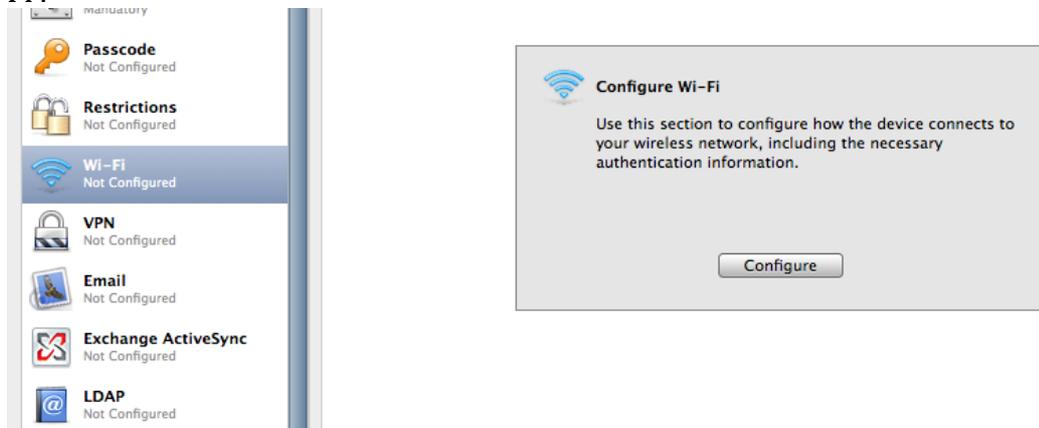
Use this section to specify the PKCS1 and PKCS12 certificates you want to install on the device. Add your corporate certificate, and other certificates necessary to authenticate the device's access to your network.

Configure

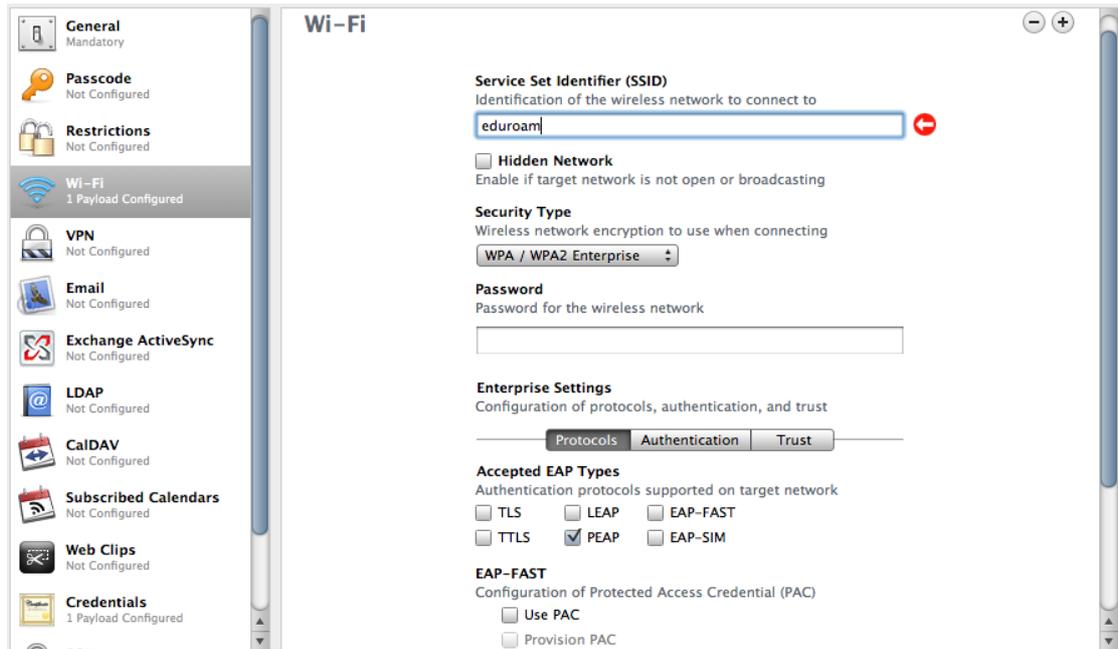
4. An 'Add Credential' pop-up box will appear. Find and select your Certificate Authority Certificate and click 'Open'.



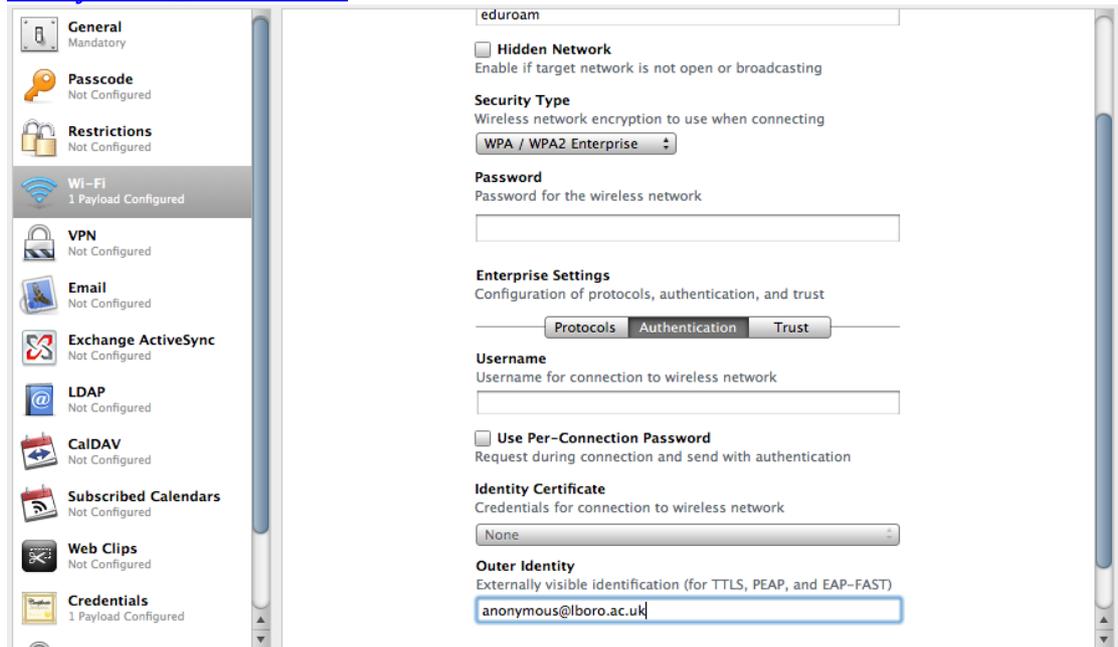
5. From the list on the left choose 'Wi-Fi' and click 'Configure Wi-Fi'.



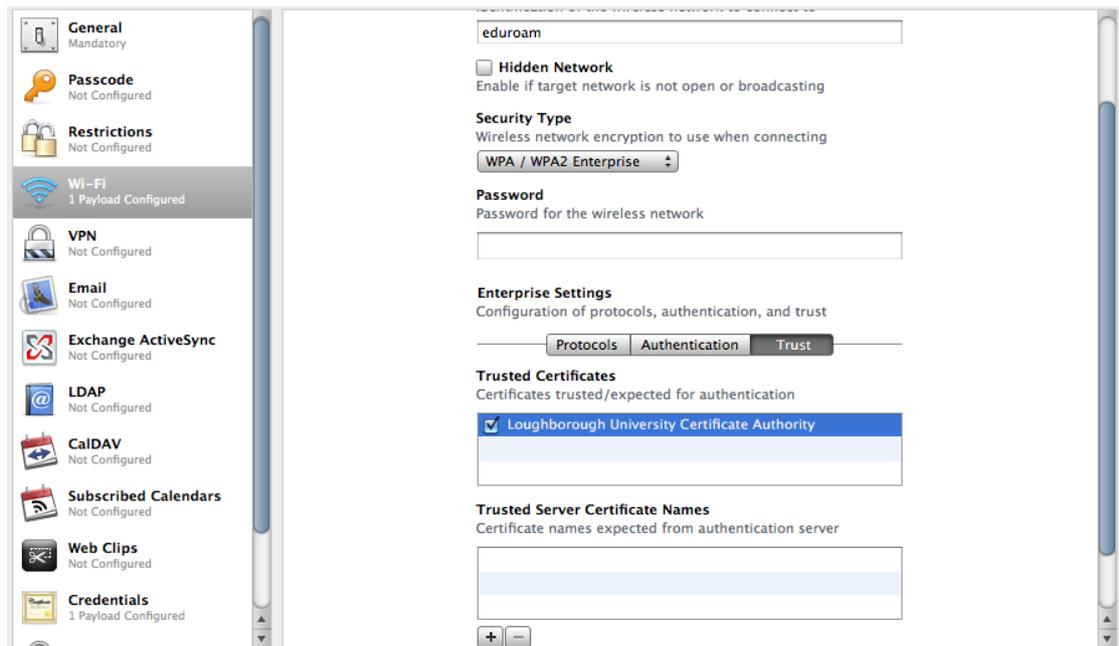
6. Enter the SSID, e.g. 'eduroam', and then choose 'WPA/WPA2 Enterprise' from the 'Security Type' drop down box. From the options available choose the authentication for your site, e.g. PEAP.



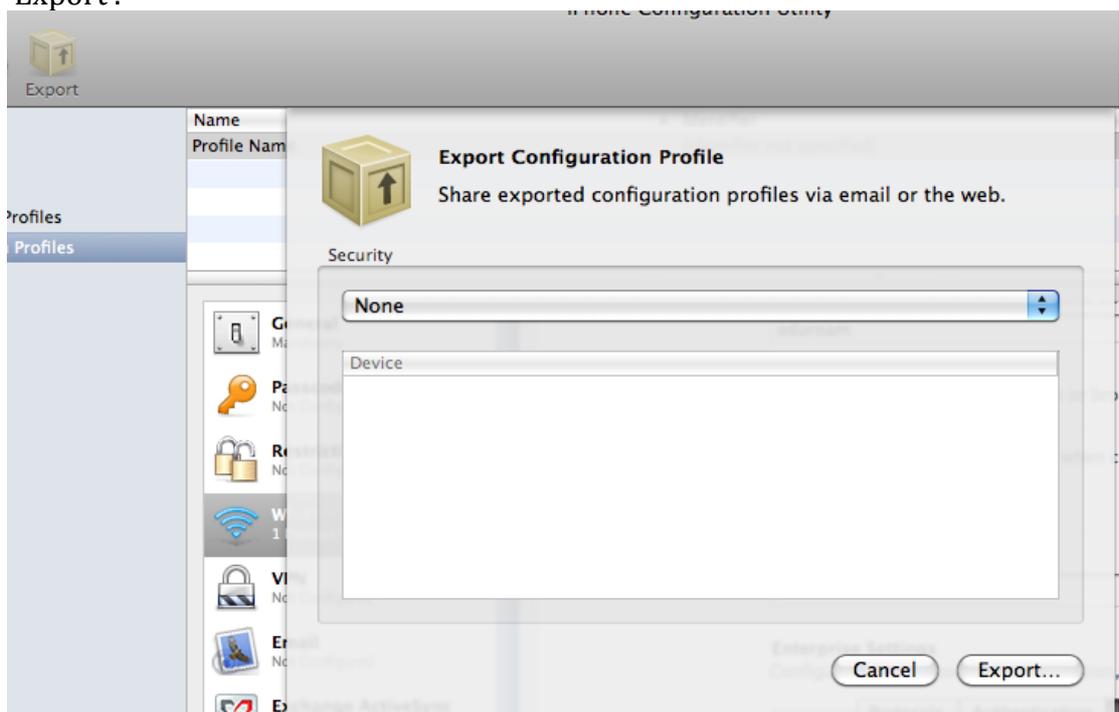
7. Select the 'Authentication' tab and set your sites 'Outer Identity', e.g. anonymous@lboro.ac.uk



8. Select the 'Trust' tab and then select your Certificate Authority from the 'Trusted Certificates' menu.

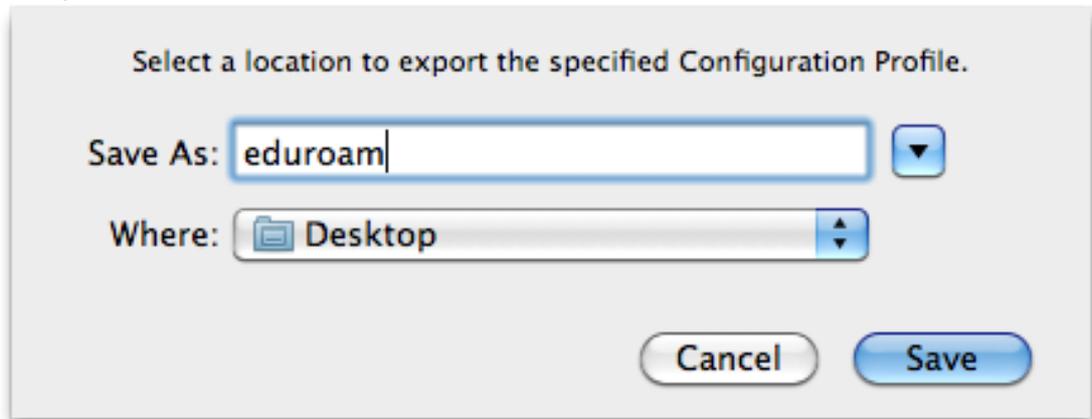


9. Click export and choose 'None' for the Security and click 'Export'.



10. Name the exported configuration profile eduroam, and click 'Save'. Then quit the 'iPhone Configuration

Utility'.



Apache Configuration

The resulting xml file should be put onto a web server so it is accessible to download. E.g. /var/www/mobileconfig/eduroam.mobileconfig

The web servers configuration should now be changed so that iPhone/iPod clients are redirected to download the XML configuration file. On an apache server this can be achieved by editing the httpd.conf (or ssl.conf for secure servers).

First ensure the re-write module is in the LoadModule section, if it isn't add:

```
LoadModule rewrite_module modules/mod_rewrite.so
```

Then in the VirtualHost section for your server add the following rewrite rule:

```
RewriteEngine On
```

```
RewriteCond %{HTTP_USER_AGENT} .*Safari/.*
```

```
RewriteCond %{HTTP_USER_AGENT} .*Mobile/.*
```

```
RewriteRule /.* /mobileconfig/eduroam.mobileconfig [T=application/xapple-aspen-config]
```

Client Side

If the redirect is placed on a captive portal network, when the client connects they are automatically redirected to download the xml settings. The user then has to enter their username and password. Once this has been done the profile is saved and the user's device is configured.

When the client is redirected they will see something similar to the following:

Cancel

Install Profile



eduroam

Loughborough University

Unsigned

Install

Description Lboro Eduroam Wireless Profile

Received 22 Dec 2009

Contains Root Certificate
WiFi Network

More Details



1. Click the install button and then click 'Install



Now'.

2. A prompt will appear asking for a username. The user enters their eduroam username, and then clicks the 'Next' button in the top right of the screen.

Cancel Enter Username Next

Enter your username for the WiFi network "eduroam"

Required by the "Wi-Fi (eduroam)" profile

Q W E R T Y U I O P
A S D F G H J K L
↑ Z X C V B N M ↵
. ? 1 2 3 space return

3. Next the user enters their password and again clicks the 'Next'



button.

4. Once installed a completed screen will appear. The user clicks 'Done' to be returned to their home



screen.