



## Computing Service

### eduroam/JANET Roaming Service

## Configuring Eduroam - generic instructions

The information given here may help configure Eduroam on wireless devices, operating systems and client software not listed in the main eduroam documentation.

You will need your credentials (Eduroam identifier and Network access token (username and password)) from the [UCS Tokens](https://tokens.csx.cam.ac.uk/) (<https://tokens.csx.cam.ac.uk/>) service.

- Wireless network settings:
  - The *SSID (Network Name)* is **eduroam** (note that this is case-sensitive).
  - The wireless *Network Authentication* type is **WPA2 Enterprise**.
  - The *Data Encryption* method to use is **AES**.
- User authentication settings:
  - The *EAP Authentication Type* or *Outer Authentication Protocol* is **PEAP** or **PEAPv0**.
  - The *Authentication Method*, *Authentication Protocol* or *Inner Authentication Protocol* is **MS-CHAPv2**.
  - Your *Username* and *Password* will be the ones given on the [UCS Tokens](http://tokens.csx.cam.ac.uk/) (<http://tokens.csx.cam.ac.uk/>) page:
    - The *Username* or *Inner Identity* is the **Eduroam identifier** (typically your *CRSid* followed by **@cam.ac.uk**).
    - The *Password* is the **Network access token**.
    - If prompted for an *Outer* or *Roaming Identity*, specify **@cam.ac.uk** (nothing in front of the @ sign).
- Server authentication settings:
 

(although these settings can often be omitted and Eduroam will still work, **note** that you may be exposing yourself to some security risks if you do not configure them correctly):

  - If you can specify the *Server* or *Certificate Name* or *Server*, you should:
    - Set this to be **network.tokens.csx.cam.ac.uk**.
    - *Validate the Server Certificate*:-
      - If you were able to specify the *Server* or *Certificate Name*, above, and your system has an **Any Trusted Certification Authority (CA)** option, select this.
      - Otherwise, if you must choose from a list of *Certificate Issuers* or *Certification Authorities (CAs)* select **AddTrust External CA Root**.
  - If you are not able to specify the *Server* or *Certificate Name* or *Server*, you should select **AddTrust External CA Root** from the list of *Certificate Issuers* or *Certification Authorities (CAs)*

Note: if you needed to select the names from a list of Certification Authorities then it may be necessary to adjust this setting from time to time. The University Computing Service will advise you if this is required, and provide instructions.

The recommended authentication protocols to use (*EAP-PEAP* with *MS-CHAPv2*) are given above, there are many other available combinations:

- *EAP-TTLS* with *CHAP*, *MS-CHAP* and *MS-CHAPv2* work and are also supported
- *EAP-TTLS* with *PAP* is supported but strongly advised against (if used, the server **must** be authenticated by name and the certificate validated) as it may reveal your *Network Access Token* to third party sites
- *EAP-LEAP* is not supported and will not work
- *EAP-FAST* is not supported and will not work

Combinations other than those listed above must not be used and are unlikely to work.

If you have trouble following these settings the University Computing Service [Help Desk](mailto:help-desk@ucs.cam.ac.uk) (mailto:help-desk@ucs.cam.ac.uk) may be able to help configure your device. However please note that not all devices can use Eduroam; if you find this is the case [Lapwing](#) (/cs/wireless-lapwing/) may be used instead.

**The title of this document is:** Configuring Eduroam - generic instructions

**URL:** <http://www.cam.ac.uk/cs/wireless/eduroam/generic.html>

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