Wired Connection – Windows 10

You can use this guide to manually configure a Windows 10 PC or laptop to connect to the wired eduroam service at the University of Aberdeen.

− An automatic configuration tool XpressConnect is available online, try this first!

Note: Other devices (games consoles, wireless printers, smart TVs etc) will not work, due to the lack of appropriate security features required by eduroam.

Which services are available?

Wired eduroam

− Wired eduroam offers the same service as wireless eduroam, but on a wired connection.
− Wired eduroam is available at assigned desks (with an eduroam sticker) in the Sir Duncan Rice Library.
− Wired eduroam is available by request at Grant Court, New Carnegie Court, Fyfe House, Wavell House, Adam Smith and Hector Boece Court at Hillhead Halls.
− Wired eduroam requires your device to be appropriately configured in order to work (see below). Plugging a Playstation/Xbox console or VOIP phones directly into the wall socket does not work.
− To request a wired connection to eduroam from your room in Halls:
  − log into https://myit.abdn.ac.uk
  − click on the Wired Eduroam link, at the bottom of the Log a call menu on the left of the screen
  − complete the online request form
    
    Note: Requests can take up to 10 working days to be completed.

Before you start, check the following:

− You have a current University of Aberdeen username and password.
− You are running Windows 10.
− You have administrator rights on your laptop or PC.
− You have up-to-date anti-virus software.
− You have built-in Ethernet port capability or have purchased and installed an Ethernet adapter. The adapter will need to be able to support 802.1x authentication. If your adapter is a few years old, you may need to check the manufacturer’s website and download more recent drivers for your adapter.

− You have an Ethernet cable for connecting to the wall socket.

Note: When connecting to our wired services, you are bound by Conditions for using IT Facilities, available online for students and staff.
Step 1: Enable the required windows service

1. Right-click the Start button and then click Control Panel.
2. Click Administrative Tools, then double-click Services.
3. Scroll down until you reach Wired Autoconfig and then double-click it.
   − If you are prompted by Windows Security, click Continue.
4. Click Startup Type and select Automatic.

![Service settings]

5. Click Start and then click OK.

![Service status]

6. Close the Services window, then close the Administrative Tools window.

Step 2: Open the Manage Network Connections window

1. Right-click the Start button and click Control Panel.
2. Click Network and Sharing Center, then Change adapter settings.
3. Right-click Ethernet and then select Properties.

![Ethernet properties]

   − If you are prompted by Windows Security, click Continue.
Step 3: Local Area Connection Properties Window

4. Click the **Authentication** tab.
   - Tick **Enable IEEE 802.1X authentication**.
   - Select **Microsoft: Protected EAP (PEAP)** from the network authentication drop-down list.
   - Tick **Remember my credentials for this connection each time I’m logged on**.
   - Ensure that Failback to unauthorized network access is **un-ticked**.

5. Click **Settings** (next to **Choose a network authentication method**) to move to the next section.

Step 4: Protected EAP Properties & Certificates Settings

6. Under **Protected EAP Properties**:
   - Tick **Verify the server’s identity by validating the certificate**.
   - Tick **Connect to these servers** and type `radius.abdn.ac.uk` in the box below.
   - Under **Trusted Root Certification Authorities**, tick the checkbox against any entries for **GlobalSign**.
   - Under **Notifications before connecting**, select **Don’t ask user to authorize new servers or trusted CAs**.
   - Select **Secured password (EAP-MSCHAP v2)**.
   - Untick **Enable Fast Reconnect** and leave the remaining three checkboxes unticked.
   - Click **Configure...**

7. Under **EAP MSCHAPv2 Properties**:
   - **Un-tick** **Automatically use my Windows logon name and password (and domain if any)**.
   - Click **OK**.

8. Click **Additional Settings**.
Step 5: Advanced settings

9. Under Advanced settings:
   − Tick Specify authentication mode.
   − Select User authentication from the drop down list.
   − Click Save credentials.
   − Enter your username in the form yourusername@abdn.ac.uk then use your usual University password.
   − Untick Enable single sign on for this network.
   − Click OK.

10. Click OK, then OK again.

![Advanced settings settings](image)

Your username is what you use to login to University networked PCs (e.g. classroom or office desktop PCs). It is not your email address. You must append @abdn.ac.uk to your username, e.g. abc123 becomes abc123@abdn.ac.uk

You will then be connected. This may take up to 30 seconds depending on network traffic. You will stay connected while you remain in plugged into the wall socket. If you wish to disconnect, just unplug the machine from the socket.

![Troubleshooting icon](image)

Troubleshooting
   − Check that the network cable is properly plugged into the wall socket and the other end of your machines Ethernet port.
   − Check that you have entered the correct username and password.
   − Ensure you follow all the instructions in this guide.

Further information and help

Contact the Service Desk: https://myit.abdn.ac.uk

More information is available online at www.abdn.ac.uk/wireless