Configuring a wireless connection:
Windows Vista – eduroam & ResNet
IT Services Documentation Team. Updated March 2014 (Reviewed August 2014).

Use this fact sheet to manually configure a Windows Vista PC or laptop to connect to the wireless services eduroam or ResNet.

An automatic configuration tool XpressConnect is also available via our wireless pages www.abdn.ac.uk/wireless (you should try this first).

About the service

**eduroam**
- eduroam provides staff and students with authenticated access to the University of Aberdeen’s wireless network. It also permits access to wireless networks at other participating institutions. All that is required is a University of Aberdeen username and password.
- visitors from participating institutions (see www.eduroam.ac.uk) can access the University of Aberdeen wireless network using credentials provided by their home organisation.

**ResNet**
- ResNet provides students with a room-level service in University of Aberdeen Halls of Residence. This is an extended service geared towards social use.

Which service should I use?

- eduroam is the recommended default wireless service for all staff and students.
- ResNet can be used by students who are resident in University Halls (Hillhead, Crombie Johnston, Elphinstone Road) when on site at these locations. When on campus, use eduroam.

Before you start

Before you connect to any of our wireless services, we recommend you check the following:

- You have a current University of Aberdeen **username** and **password**.
- You are running **Windows Vista**.
- You have **administrator rights** on your laptop or PC.
- You have built-in **wireless capability** or have purchased and installed a wireless network adapter. The adapter must support WPA2 encryption. If your adapter is a few years old, you may need to check the manufacturer’s website and download more recent drivers.
- You have up-to-date **anti-virus** software, and up-to-date wireless adapter drivers.

When connecting to our wireless services, you are bound by our **Conditions for using IT Facilities**².

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¹ When connecting, you will also see the uoa-corporate service. This is not available for general access.

² IT policies are published on the IT Services web pages www.abdn.ac.uk/it/student/get-started/policies and in the Policy Zone on StaffNet – see www.abdn.ac.uk/staffnet/governance/
Step 1: Adding a University wireless network and logging on

If XpressConnect is unsuccessful, you may need to connect to the wireless manually.

1. Open the Manage Wireless Networks window.
2. Go to Start > Control Panel > Network and Internet > Network and Sharing Center.
3. From the menu on the left hand side of the Network and Sharing Center window, click on the link Manage wireless networks.
4. Manually add a named wireless network.
5. Click Add.
6. Click on Manually create a network profile.
7. The Manually connect to a wireless network window opens.
   - In the Network name text box, type eduroam (or resnet) in lower case.
   - For Security type, select WPA2-Enterprise from the drop down option menu.
   - Ensure Encryption type is AES.
   - Ensure the Start this connection automatically checkbox is ticked.

The network name that you type here is case sensitive, and must appear all lower case, (i.e. eduroam or resnet).

8. Click on the Next button.
9. Click on Change connection settings.
10. The eduroam Wireless Network properties dialog opens. Ensure that:
    - The Connect automatically when this network is in range checkbox is ticked
    - The Connect to a more preferred network if available checkbox is unticked
    - The Connect even if the network is not broadcasting checkbox is unticked.
11. Click on the **Security** tab at the top of the eduroam Wireless Network properties dialog. 
Ensure:
- The **Security type** is set to **WPA2-Enterprise**.
- The **Encryption type** is set to **AES**.
- That **Protected EAP (PEAP)** is selected under the **Choose a network authentication method** options.
- The **Cache user information for subsequent connections to this network** checkbox is **ticked**.

12. Click on the **Settings...** button

13. The **Protected EAP Properties** dialog opens. 
Under **When connecting**, ensure:
- The **Validate server certificate** checkbox is **ticked**.
- the **Connect to these servers** checkbox is ticked and type `radius.abdn.ac.uk` in the box below.
- Under **Trusted Root Certification Authorities**, tick the checkbox against any entries for **GlobalSign**.
- The **Do not prompt user to authorize new servers or trusted certification authorities** checkbox is ticked.

Under **Select Authentication Method**:
- Ensure **Secured password (EAP-MSCHAP v2)** is selected.
- **Untick** the **Enable Fast Reconnect** checkbox and leave the remaining two checkboxes **unticked**.

14. Click on the **Configure...** button.

15. The **EAP MSCHAPv2 Properties** dialog opens. 
- **Untick** the **Automatically use my Windows logon name and password (and domain if any)** checkbox.

16. Click **OK**.

17. Click **OK** again to return to the eduroam **Wireless network properties** dialog.

18. Click **OK** to return to the **Manually connect to a wireless network** dialog.

19. Wait a few seconds and your laptop will display an information balloon in the toolbar (lower right of screen) asking for more information. Don’t worry if you miss it – it will reappear in 50-60 seconds!

20. Click once on the info balloon.
21. The **Enter Credentials** dialog opens. Log on with your usual username and password:
   - **Username:** username@abdn.ac.uk
   - **Password:** your usual University password.
   - **Logon domain:** [leave this part blank].

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

22. Click **OK**.

23. You will then be connected to eduroam (or ResNet). This may take up to 30 seconds depending on network traffic.

You will only need to log on with your username@abdn.ac.uk and password and to verify the certificate the first time you connect to either eduroam or ResNet. Thereafter, Windows will remember your password, and you can connect automatically.

24. Close any remaining windows.

**Order of preferred networks**

If more than one wireless signal is in range, you can choose which one you wish your laptop to connect to automatically. This is useful if you move between locations where both eduroam and ResNet are available.

1. Return to the **Network and Sharing Center** window (Start > Control Panel > Network and Internet > Network and Sharing Center, then click on the link to Manage wireless networks).
2. The network at the top of the list is the one that you will be automatically connected to when you are in range.
3. To change the order of your list, select a network and use the Move down or Move up button.
4. Close the **Manage Wireless Networks** dialog.
5. Close the **Network and Sharing Center** dialog.

**To manually disconnect and connect to a wireless network**

1. When you want to manually disconnect from or connect to the a wireless network, click once on the wireless network icon on your status bar.
2. Select **Connect or disconnect...** from the pop-up window.
3. From the resulting window, you can choose to disconnect, connect, or connect to another network.

When you are disconnected from the wireless network, the wireless icon on your status bar will have a cross though it.

Regardless of whether you have disconnected from the wireless network before you shut down your laptop, the next time you restart, it will automatically detect and connect to the wireless network. If you have configured your laptop for more than one wireless network, e.g. eduroam and resnet, you will be connected to your preferred network.

Trouble connecting to eduroam or ResNet?

1. Check that you have entered the correct **username** and **password**.
2. Ensure you **follow all the instructions** on this Fact Sheet.
3. Make sure that IPv6 is **disabled** in the wireless adapter’s IP configuration.
   - Click on the **Start** button and type `ncpa.cpl` into the **Start Search** text box, then press the **Enter** key. The **Network Connections** dialog opens.
   - Right click on **Wireless Network Connection** and select **Properties** from the pop-up menu. The **Wireless Network Connection Properties** dialog opens.
   - Under the **Networking** tab, untick the **Internet Protocol Version 6 (TCP/IPv6)** checkbox, then click **OK** and close the Network Connections dialog.
4. If your laptop still fails to connect, return to the **Protected EAP properties** dialog and **untick** the **Validate server certificate** checkbox.

Further information and help

In certain circumstances, you may need to configure your browser to use the University’s proxy settings when you are off campus, for example to access electronic resources such as some e-books and e-journals. See [www.abdn.ac.uk/proxy](http://www.abdn.ac.uk/proxy) for guidance.

Contact the Service Desk on [servicedesk@abdn.ac.uk](mailto:servicedesk@abdn.ac.uk)

More information is available online at [www.abdn.ac.uk/wireless](http://www.abdn.ac.uk/wireless)