Wired Connection – Windows 7

You can use this guide to manually configure a Windows 7 PC or laptop to connect to the wired ResNet service or 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 and ResNet.

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 ResNet
− Where available, wired ResNet provides students with a room-level service in University of Aberdeen halls of residence. This is an extended service geared towards social use. Plugging a Playstation/Xbox console or VOIP phones directly into the wall socket does not work.
− Wired ResNet is currently only available by request at Grant Court, New Carnegie Court, Fyfe, Wavel, Adam Smith and Hector Boece at Hillhead Halls.
− To request a wired connection to Resnet from your room in Halls:
  − log into https://myit.abdn.ac.uk
  − click on the Wired Resnet 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 7.
− 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. 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 Configuration Screenshot]

5. Click Start and then click OK.

Step 2: Open the Manage Network Connections window

1. Click the Start button and click Control Panel.
2. Click Network and Sharing Center, then Manage network connections.
3. Right-click Local Area Connection and then select Properties.
   − If you are prompted by Windows Security, click Continue.

![Network Properties Screenshot]

Step 3: Local Area Connection Properties Window

1. 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.
2. Click Additional Settings to move to the next section.
Step 4: Advanced settings

1. Under Advanced settings:
   - Tick Specify authentication mode.
   - Select User authentication from the drop down list.
   - Click Save credentials.
   - Untick Enable single sign on for this network.
   - Click OK.
2. Click Settings to move to the next section.

Step 5: Protected EAP Properties & Certificates Settings

1. Under Protected EAP Properties:
   - Tick Validate server 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.
   - Tick Do not prompt user to authorize new servers or trusted certification authorities.
   - Select Secured password (EAP-MSCHAP v2).
   - Untick Enable Fast Reconnect and leave the remaining three checkboxes unticked.
   - Click Configure...
2. Under EAP MSCHAPv2 Properties:
   - Untick Automatically use my Windows logon name and password (and domain if any).
   - Click OK.
3. Click OK again to return to Local Area Connection Properties.
4. Click OK to return to Network Connections.
Step 6: Logging on to the network for the first time

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

1. Click once on the info balloon.

2. The Enter Credentials dialog opens.
   − Log in with your University username@abdn.ac.uk and password.
   − Logon domain: [leave this part blank].
   − Click OK.

3. Wait a few seconds and the information balloon will reappear, click on it once.

4. A Windows Security Alert appears, click Connect to validate the connection.

5. Close any remaining windows.

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.

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.

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