

Technology @ QMU



QuickStartIT: Configuring eduroam service on Windows 8 RT

v1.1, September 2013

What's in this guide?

	Page
Introduction to the eduroam service	2
Configuring eduroam on Windows 8 RT	<u>3</u>
Connecting to the eduroam service	<u>8</u>

Introduction to the eduroam service

Eduroam is a technology that enables a person from a participating organisation to use their normal network login credentials to access the network while visiting another institution that is also a member of *eduroam*. Institutions in the UK which are part of *eduroam* can found on the JANET website <u>here</u>.

eduroam is a federation of many institutions worldwide, and a full list can be found <u>here</u>. Click on the maps or use the links on the right hand side of the page.

Configuring eduroam on Windows 8 RT

Do not attempt to use *eduroam* until you have created a manual wireless network connection. These instructions will guide you through that process. Note that these instructions are intended for Windows 8 RT. Most users of Windows 8 will find it easier to use eduroam CAT as documented at <u>www.qmu.ac.uk/it/eduroam</u>.

Please note before using any device, you must configure the *eduroam* connection at your home institution.



- At the start screen either **Touch** and hold or right-click once.
- From the menu select **All apps**.
- Choose Desktop.



- At the desktop screen either **Touch and hold** or right-click once on the **Wireless** icon at the bottom right of the screen.
- Select **Open Network and** Sharing Centre.



• In the Network and Sharing Centre select Setup a new connection or network.

• Select Manually connect to a wireless network.

• Then enter the following details:

Network Name is eduroam Security Type is WPA2-Enterprise Encryption Type is AES

- Ensure the **Start this connection automatically** box is checked.
- Click Next.





- The next screen will say that the network has been configured.
- There are still more settings however, so select Change Connection Settings.

- The initial screen should have the details filled in already so select the **Security Tab**.
- Then click on the Settings button which is next to the Microsoft: Protected EAP (PEAP) option.

Protected EAP Prope	rties
When connecting:	
Verify the server's identity by validating the	certificate
∠ Connect to these servers (examples:srv1;	srv2;.*\.srv3\.com):
mgt03.qmu.ac.uk	
Trusted Root Certification Authorities:	
Thawte Premium Server CA	^
Thawte Premium Server CA	
thawte Primary Root CA	
Thawte Timestamping CA	
✓ VeriSign Class 3 Public Primary Certificatio	n Authority - G5
VeriSign Trust Network	
VeriSign Trust Network	~
<	>
Notifications before connecting:	
Tell user if the server's identity cannot be ver	fied 🗸 🗸
Select Authentication Method:	
Secured password (EAP-MSCHAP v2)	✓ Configure.
✓ Enable Fast Reconnect	
Enforce Network Access Protection	
Disconnect if server does not present crypto	binding TLV
Enable Identity Privacy	
	OK Cancel

Protected EAP Properties
EAP MSCHAPv2 Properties
When connecting:
password (and domain if any).
OK Cancel
Class 3 Public Primary Certification Authority Equifax Secure Certificate Authority
GTE CyberTrust Global Root GTE CyberTrust Global Root Microsoft Root Authority Microsoft Root Certificate Authority
<
Notifications before connecting:
Don't ask user to authorize new servers or trusted CAs $\qquad \lor$
Select Authentication Method:
Secured password (EAP-MSCHAP v2) V Configure
Enable Fast Reconnect Enforce Network Access Protection Disconnect if server does not present cryptobinding TLV Enable Identity Privacy
OK Cancel

In the **Protected EAP Properties** window, check the following boxes:

- Verify the server's identity by validating the certificate.
- Connect to the following server mgt03.qmu.ac.uk.
- VeriSign Class 3 Public Primary Certification Authority
 – G5.

Then in the **Select Authentication** *Method* area:

- Ensure that Secured password (EAP-MSCHAP v2 is selected.
- Check the box that says **Enable** Fast Reconnect.
- Then click on the **Configure** button.

In the EAP MSCHAPv2 Properties window ensure that:

- The check box Automatically use my Windows logon name and password and domain if any is unchecked.
- Click **Ok** to both to return to the **Security** tab.

eduroam '	Wireless Network	Properties	×
Connection Security			
Security type:	WPA2-Enterprise	~	
Encryption type:	AES	~	
Choose a network au	thentication method:		
Microsoft: Protected	EAP (PEAP) V	Settings	
	dentials for this connecti	ion each	
Advanced settings			
	(DK Car	ncel

Advanced setting	s ×
802.1X settings 802.11 settings	
Specify authentication mode:	
User authentication V	Save credentials
Delete credentials for all users	
Enable single sign on for this network	
Perform immediately before user log	on
 Perform immediately after user logo 	n
Maximum delay (seconds):	10 🗘
Allow additional dialogs to be display sign on	ved during single
This network uses separate virtual L and user authentication	ANs for machine
	OK Cancel

- Now got to the Security tab on the eduroam Wireless Network Properties screen.
- Click on Advanced Settings.

- Ensure the check box **Specify authentication mode** is selected.
- Then select **User authentication** from the dropdown menu.

	Advanced settin	igs	
802. 1X settings	802.11 settings		
Fast roaming			
Enable Pa	airwise Master Key (PMK) cao	hing	
PMK time	e to live (minutes):	720	*
Number	of entries in PMK cache:	128	*
This netv	vork uses pre-authentication		
Maximun	n pre-authentication attempt	s: 3	*
Enable Fede	eral Information Processing S for this network	tandards (FIPS)
Enable Fedd	eral Information Processing S for this network	tandards (FIPS)

- Go to the **802.11 settings** tab and ensure that everything is unselected.
- Click **Ok** on each of the dialog boxes to close them.
- Then click on **Close** to close the **Manually connect to a wireless network** screen.

Connecting to the *eduroam* service

Once near an *eduroam access point*, select the access point from the possible connections by clicking on the **Wireless Network Menu** via the *Desktop* or *Metro Screen* and selecting **eduroam**.

The first time you connect to the *eduroam* wireless network you will receive a warning that reads: Windows cannot verify the server's identity. If you are in an area where you would expect to find this network, it is probably safe to connect. Otherwise, this might be a different network with the same name. Show the certificate details, and if you are confident that *eduroam* is broadcast in your current area, then click on the **Connect** button (this will only happen the first time you connect).

The next screen prompts you to authenticate yourself to allow the connection; your login details must be entered to achieve full network usage. Enter your username followed by **@QMU.AC.UK**.

You may find that you will require several attempts at logging on before you are connected.

After more than 3 attempts it will most likely be that the network configuration has not been configured correctly, and you will need to forget the *eduroam* connection.

Navigate to your wireless network connections and right-click on the *eduroam* connection and choose forget this network. Refresh your connections and the *eduroam* network connection will re-appear, but with none of the preconfigured settings.

You can now start the configuration from the beginning.

NB All users must abide by the user use agreement, a copy of which is available at: <u>http://www.qmu.ac.uk/it/policies.htm</u>