

IT Training Department eduroam connection guide – Microsoft Windows 7 and Vista



Connection Guide

eduroam

Microsoft Windows 10, 8, 7 and Vista



Document Control

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1.0	25/11/2011	Martin Macleod-Brown	Initial Manual Production
2.0	28/11/2011	Robyn Boswell	Conversion to London Business School Formatting
3.0	16/12/2011	Robyn Boswell	Amendments to "Introduction" and "Requirements" sections
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1 Introduction

The purpose of this document is to provide Microsoft Windows 8, 7 and Vista users with instructions for connecting to the JANET Roaming Service (JRS) eduroam for members of the London Business School community.

2 Getting Connected

The JANET Roaming Service (JRS) at London Business School is advertised via the eduroam wireless network and secured using IEEE 802.1x/ EAP-PEAP authentication.

3 Requirements

The following is required to connect to the JRS eduroam service at London Business School:

- For London Business School Staff, Faculty and Students:
 - A London Business School user ID & password.
 - To use eduroam you need to have a @london.edu mailbox hosted by the School. Please note that other arrangements exist for Alumni and Executive Education Participants; please refer to WALT or Wifi-Setup for further details.
- For External eduroam users of Partner Institutions:
 - Please refer to instructions issued by your own institution's IT department as their requirements for authentication may differ from those required by London Business School. Provided you meet the criteria set by your home institution you should be able to use the eduroam network on the London Business School campus. If you have any queries or need support please refer to your home institution IT Support.
- A certified Wireless Network Connection adapter. The <u>Wi-Fi Alliance</u> can be used to check to see if your product is certified.

4 Configuring eduroam – Windows 10 and 8/8.1

Windows 8 has a built-in wireless configuration service, which is very simple to setup.









Type your School email address and password . Click OK .	Networks eduroam Inter your user name and password jbloggs@london.edu
Click Connect when asked to verify the server's identity.	Networks eduroam und windows can't verify the server's identity for a in a network of the server's identity

5 Configuring eduroam – Windows 7 and Vista

By default Windows 7 has a built-in wireless configuration service (WLAN AutoConfig), this guide is written specifically for this service.

to find this network, it's probably safe to connect. Otherwise, this might be a different network with the same name.

Don't connect

Connect



To check if this service is enabled, follow the instructions below:

Start > Control Panel > Network and Sharing Centre (icon) > Manage Wireless Networks (under tasks on the left pane). If a list of Wireless Networks is displayed (including *eduroam*), the *WLAN AutoConfig* service is enabled.

If the WLAN AutoConfig service is enabled you need to refer to the *Configuring eduroam with WLAN AutoConfig* section 4.1.

If the Wi-Fi connection is managed by other software you need to identify which client is managing the wireless. This can typically be done by identifying the applications running in the taskbar. Once identified you need to refer to the manufacturer for information on 802.1X EAP PEAP support and configuration instructions. In this instance, the remainder of this document should be used for reference only!

5.1 Configuring eduroam with WLAN AutoConfig

The PEAP authentication method is built into the Windows 7 / Vista operating system.

5.1.1 Configure Windows Wireless Manager

Open the properties window of your Wireless Adapter. Select (Windows) **Start > Control Panel > Network and Internet** (icon) **> Network and Sharing Centre** (icon) **> Manage Wireless Networks** (under tasks on the left pane).

If the *eduroam* Network is displayed in the list of available Networks, highlight and select the **- Remove** button.





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The manually connect to a wireless network configuration window is displayed.Enter the following information:Network Name (SSID)eduroam eduroam EnterpriseSecurity TypeWPA2- EnterpriseEncryption TypeAESSecurity KeyField disabled PassphraseStart this connection automaticallyEnabled EnabledConnect even if the network is not broadcastingEnabledClick Next to add the eduroam network.		Manually connect to a wireles Enter information for the Network name: ec Security type: W Encryption type: AE Security Key: Ø Start this connection autor Ø Connect even if the netwoo Warning: If you select this	s network wireless network you want to add uroam 'A2-Enterprise S Hide characters natically rk is not broadcasting option, your computer's privacy might be at risk. Next Cancel
Click Next to add the eduroam network.			
Select the Change connection settings option.		Successfully added edurce Change connection Open the connection p	s network am n settings roperties so that I can change the settings.

Close



The properties window for the eduroam Wireless Network is displayed.	eduroam Wireless Network Properties
Protected EAP (PEAP) network.	Security type: WPA2-Enterprise Encryption type: AES
	Choose a network authentication method Microsoft: Protected EAP (PEAP) Remember my credentials for this connection each time I'm logged on
	Advanced settings OK Cancel



Enter the following details:		eduroam Wireless Network Properties
Validate service Ticked		Protected EAP Properties
<u>certificate</u>	orns landon odu	When connecting:
these servers	orps.ionuon.euu	Validate server certificate
Trusted Root	AddTrust	Connect to these servers:
Certification	External CA	orps.iondon.edu
Authorities	Root	Trusted Root Certification Authorities:
Do not prompt	Un-ticked	AddTrust External CA Root
USER to		Class 3 Public Primary Certification Authority
Soloct	Secured	DigiCert High Assurance EV Root CA
Authentication	password (FAP-	Entrust.net Certification Authority (2048) Entrust.net Secure Server Certification Authority
Method	MSCHAPv2)	Equifax Secure Certificate Authority
	Select the	Do not prompt user to authorize new servers or trusted certification authorities
	Configure	
	button: Un-tick	Charles the Fee Fee Mathed
	Automatically use	
	logon name and	Secured password (EAP-MSCHAP v2) Configure
	password (and	Enable Fast Reconnect Enforce Network Access Protection
	domain if any).	Disconnect if server does not present cryptobinding TLV
Enable Fast	Ticked	Enable Identity Privacy
Reconnect		OK Cancel
Dense (a dha allala (b		
Repeatedly click tr	ne OK button to	
	guration.	
		EAP MSCHAPv2 Properties
		When connecting:
		Automatically use my Windows logon name and
		OK Cancel

5.1.2 802.1X Cached Credentials Workaround

An automatic update to Windows 7 introduced an *advanced* setting. As a result of the update you may be constantly prompted for your credentials (i.e. LBS userid & password) when attempting to join eduroam.

The following is a known workaround to this issue. **Please note:** we are currently unaware of when the automatic update was introduced and the behaviour of the update when your LBS password is changed. If you encounter problems when changing your password, please check for an update to this documentation.



Open the Network and Sharing Center.	eduroam Wireless Network Properties		
Click on Manage Wireless Networks from the left-hand pane.	Connection Security	14/DAD Enterprise	
A list of configured wireless Networks will be displayed. Highlight eduroam and right-click .	Encryption type:	AES	•
Select Properties from the context menu. Select the Security tab. A window similar to the illustrated is displayed.	Choose a network authentication method: Microsoft: Protected EAP (PEAP)		Settings on each
Select the Advanced settings button.	Advanced setting	35	
		0	K Cancel

From the drop-down, select User	802.1X settings 802.11 settings
From the drop-down, select User	107
	Speafy authentication mode:
	User authentication Save credentials
Next select the Save credentials button.	Delete credentials for all users
	Enable single sign on for this network
	Perform immediately before user logon
	Perform immediately after user logon
	Maximum delay (seconds): 10
	Allow additional dialogs to be displayed during single sign on
	This network uses separate virtual LANs for machine and user authentication
	OK Cancel



This will then give you another pop up window in which to enter your logon	Windows Security
details.	Network Authentication
Set User name to your London Business School userid.	user name@london.edu
Note: Your London Business School userid must be appended with	
student.mba2012@london.edu	OK Cancel
Set Password to your London Business School password.	
Click OK .	

5.1.3 Connect to eduroam

When within wireless range of the eduroam service, a Windows Security box will appear asking for Network Authentication. Click on this bubble to display the authentication window. If this doesn't happen, when in range of the eduroam service, click on the **wireless icon** in the Windows task bar and select **eduroam** from the list of networks. Then click the **connect** button.

Set User name to your London Business School userid.	Windows Security	
Note: Your London Business School userid must be appended with @Iondon.edu e.g. student.mba2012@Iondon.edu	Please enter user credentials	
Set Password to your London Business School password.	OK Cancel	
Click OK .		

You will now be connected to the eduroam service, from where you can access London Business School Network Resources (e.g. Email) and the Internet.