

## eduroam in a Nutshell

Document updated

1/11/16

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**For Wi-Fi users, eduroam is simply the most secure, easy to connect to and ubiquitous roaming access service there is. For the organisation, not only is it free(\*) to be a member of the eduroam(UK) club, but eduroam is widely acknowledged to represent the best practice model for the provision of wireless network services** - particularly for communities of organisations characterised by a high degree of co-operation and collaborative endeavour, such as the research, education, learning and cultural community - both nationally and internationally. This doesn't mean that eduroam is a one-size-fits-all system however, it can be adopted by fully engaged 'home and visited' partners or by organisations wishing simply to support the knowledge economy or even just to increase footfall at venues or in public buildings and metropolitan spaces. **It can even be deployed alongside other Wi-Fi services such as captive portals.**

By participating in eduroam(UK) organisations can add streamlined connectivity for visitors from the community and Wi-Fi roaming capability for their own users, gaining them access to 1000s of eduroam locations worldwide and by fully embracing the technology, organisations can benefit from the security and network access flexibility offered by 802.1X.

eduroam is a participation service and not a subscriber service and in order to participate, organisations will need to deploy a RADIUS service. But adoption of eduroam need cost no more than any other Wi-Fi solution and in fact eduroam is estimated to already deliver circa £2m cost savings per year to the FE & skills sector in the UK, through reduced overhead on service maintenance and support together with a further £800K in productivity gains by users. With the current rate of membership growth in this sector, together with wider participation by the public health and other sectors, this figure is set to continue to grow.

**From the perspective of the individual** used to disparate local cafe/hotel services, insecure commercial/local authority hot-spot services and home Wi-Fi services using various log on methods (open, registration, PSK code), eduroam is simply the 'Rolls-Royce' service and increasingly it is taken for granted it will be available. The one 'eduroam' profile on their devices, the same set of Wi-Fi settings and credentials, just works everywhere - equally at the home organisation and when roaming.

With its huge service footprint throughout the research and education community the key advantage offered by eduroam for its users is the secure authentication mechanism which delivers 'switch on and you are connected' performance wherever they go. **But the benefits of eduroam do not stop there for organisations** – there's an audit trail to enable compliance with security policy, capability to tailor the network service provided according to

user type - perfect for supporting users connecting with their personal devices and smartphones, and the option to improve the efficiency of your Wi-Fi service by reducing the number of SSIDs needed.

To benefit from eduroam an organisation simply needs to join the eduroam(UK) federation and enable 802.1X technology through its existing infrastructure. To help with this, Jisc provides a range of tools together with training and technical support. To find out more, see <https://www.jisc.ac.uk/eduroam> [2], [www.eduroam.org](http://www.eduroam.org) [3] and other pages on this Community site.

(\*) At the time of writing, membership of the eduroam(UK) federation is free to eligible organisations; there are costs associated with eduroam implementation and operation, but these are minimal and similar costs would be incurred for any network access control system.

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**Source URL:** <https://community-stg.jisc.ac.uk/library/network-and-technology-service-docs/eduroam-nutshell>

#### **Links**

[1] <https://community.jisc.ac.uk/library/janet-services-documentation/eduroam>

[2] <https://www.jisc.ac.uk/eduroam>

[3] <http://www.eduroam.org>