| System | Cost | Platform | Pros | Cons | Why to choose |
|---|---|---|---|---|---|
| FreeRADIUS | Free | * Linux (and similar e.g. Mac OS)<br>* Packaged with most distributions | * Integrates with a wide range of authentication backends, including AD, LDAP, Kerberos, and multiple flavours of SQL.<br>* Supports all EAP flavours commonly used for user authentication in govroam (EAP-PEAP, EAP-TLS, EAP-TTLS-PAP, EAP-TTLS-MSCHAPv2)<br>* Flexible configuration language for defining complex policies.<br>* Allows breakout into Perl or Python for exceptionally complex policies. Or integration with more escoteric data sources.<br>* Extensible via plugin modules.<br>* Supports RadSec natively.<br>* Fast and efficient - a pair of RADIUS servers is usually sufficient for govroam deployments. | * Does not yet support DNS based Dynamic Discovery for RadSec (not yet relevant to govroam for ORPS deployments)<br>* Can be difficult to configure due to the number of options available, especially for novice system administrators | * It's extreme flexibility and high performance means that FreeRADIUS is a good fit for most govroam sites, which is why it is the most deployed RADIUS servers within the eduroam federation.<br>* The upshot of it's popularity is that there are many technical guides already published which take some of the edge of the sharp learning curve.<br>* JISC can provide in-house consultancy. |

| System | Cost | Platform | Pros | Cons | Why to choose |
|---|---|---|---|---|---|
| Microsoft NPS | Free with Windows | * Windows | * Windows GUI means no linux or scripting skills or experience needed<br>* Works well with AD<br>* Can be made to do the basics of the required job | * Filtering of RADIUS attributes not properly supported, but over-write workround is satisfactory<br>* Doesn't support Status Server<br>* Doesn't support Operator-Name injection<br>* Doesn't support Chargeable User Identity<br>* GUI interface limits what you can configure<br>* Everything is policy-based, which makes configuration based on logic somewhat difficult<br>* Logging is minimal and inflexible | * If you're primarily a Windows shop you may be comfortable with the familiar interface and feel confident in selecting a fully supported product whilst accepting NPS's limitations. |

| System | Cost | Platform | Pros | Cons | Why to choose |
|---|---|---|---|---|---|
| OSC RADIATOR | From ~£1,000 | * Linux<br>* Windows | * Integrates with a wide range of authentication backends, including AD, LDAP, Kerberos, and multiple flavours of SQL.<br>* Supports all EAP flavours commonly used for user authentication in govroam (EAP-PEAP, EAP-TLS, EAP-TTLS-PAP, EAP-TTLS-MSCHAPv2).<br>* Flexible configuration language for defining complex policies.<br>* Supports RadSec natively.<br>* A pair of RADIUS servers is usually sufficient for govroam deployments.<br>* Fully supported product - a range of support options are available | * Written in PERL so when your configuration get large and complex the server will get slower. | * It's extreme flexibility means that RADIATOR is a good fit for most govroam sites.<br>* The upshot of it's popularity is that there are many technical guides already published which take some of the edge of the sharp learning curve and it is provided with a 'goodies' directory containing many recipes ready for use or to start off with.<br>* If you need a flexible RADIUS server, and have the in house expertise to configure it, RADIATOR is a good choice<br>* RADIATOR is written in PERL and can be run on Windows servers (with a prerequisite PERL interpreter installed) which would suit if you're primarily a Windows shop |
| Cisco ACS/ISE | From ~£1,000 | * Appliance | | * Doesn't support Status Server | * An obvious choice if site already makes heavy use of Cisco wireless. |

| System | Cost | Platform | Pros | Cons | Why to choose |
|---|---|---|---|---|---|
| Aruba Clearpass | From ~£4,000 | * Appliance<br>* VM | | | * FreeRADIUS under the bonnet with a GUI front end<br>* An obvious choice if site already makes heavy use of Aruba wireless |
| radsecproxy | Free | * Linux (and similar)<br>* Packaged with most distributions | * Very small foot print.<br>* Simple, flat configuration.<br>* Good performance.<br>* Supports all the requirements for govroam (e.g. attribute filtering, Operator-Name).<br>* Support RADSEC and non-RADSEC connections. | * Just a proxy - no ability to authenticate | * If your platform cannot do good filtering or add attributes then if you use this at the border to talk to the NRPS you can leverage these abilities.<br>* Can be easily dropped in as a pure ORPS. |
| FreeRADIUS.net | Free | * Windows | * Runs on Windows<br>* Has same features as FreeRADIUS | * Very old (v 1.1.7 where FreeRADIUS is v 3.X.X)<br>* Designed to run on Windows XP<br>* Not suitable for production environment | * Not a good choice for a critical service |

From:
https://wiki.govroam.uk/ - **Govroam**

Permanent link:
**https://wiki.govroam.uk/doku.php?id=siteadmin:radius_server_choice_guide&rev=1516702814**

Last update: **2018/01/23 10:20**