

# eduroam Usability

## Why improve ease of use?

The purpose of this article is to publicise the ease of use of eduroam deployments in an effort to improve the adoption and quality of service to end users.

This proposed website template - orders eduroam deployment in Australia by the [ease of use](#) of the deployment and [coverage](#) - to highlight the usability of eduroam deployments.

It is hoped that all eduroam deployments in Australia will strive for a 5 tick rating. The [league table](#) of eduroam deployments details ranks eduroam deployments in Australia against this criteria.

## Ease of Use

Ease of Use	Policy	EAP	VPN	WWW	Proxy	SSID	On&Off Net	Mail	Bandwidth	All Ports	NAT	Definition
												Full egress network access available.
												Must support secure Mail protocols (IMAPS, POPS and Submission).
												Supports WWW without needing to (auto or manual) configure a proxy. Must use & broadcast "eduroam" SSID.
												Supports HTTP and HTTPS access. May utilise an automatically or manually configured proxy.
												Comply with all MUST requirements of the <a href="#">eduroam AU Policy</a> . Provide access via all VPNs (PPTP, IPSec, L2TP).
												eduroam is not available.

Optional	Must NOT be used	Should NOT be used	Must be available.
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**Policy:** Complying with the mandatory requirements of the eduroam Policy is required.

**EAP:** Includes EAP-TLS, EAP-TTLS and EAP-PEAP as the required EAP-Types that an organisation must support to allow interoperability of eduroam sites.

**VPN:** Must support all deployed VPN services such as PPTP, IPSec and L2TP.

**WWW:** Access via HTTP and HTTPS is required.

**Proxy:** Use of a Proxy (either automatically or manually configured) requires some configuration. A transparent proxy is always permissible.

**SSID:** Use of the "eduroam" SSID removes the need to reconfigure settings.

**On&Off.Net:** Access to peered networks via AARNet and the wider internet must be available.

**Mail:** Must support all deployed VPN services such as PPTP, IPSec and L2TP.

**Bandwidth:** Bandwidth to resources external to the organisation should not be rate-limited for On.Net traffic. Bandwidth for Off.Net traffic must be equivalent to ADSL services.

**NAT:** Network Address Translation should not be utilised. If used it MUST support all services including: VPN (such as PPTP, IPSec and L2TP), video conferencing and other services with sufficient address space not to impact the usability of services. It is permissible to have a NAT if NAT is utilised. Use of IPv6 is encouraged.

**All Ports:** Establishment of outbound connections must be allowed to all ports.

## Coverage

Coverage	Definition
	Blanket wireless coverage of the site.
	Coverage in all meeting and common use areas.

	Coverage in most meeting and common use areas.
	Coverage is available in many buildings.
	Very limited wireless coverage.
	eduroam is not available.