



GARNET

Ghanaian Academic and Research Network

GARNET Identity Federation (GIF) eduroam Technology Profile

Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [1].

Introduction

This document is the GARNET Identity Federation (GIF) eduroam Technology Profile and was developed with reference to documentation on the eduroam website [2]. eduroam is an Authentication and Authorization Infrastructure (AAI) based on RADIUS or RadSEC.

Requirements

- All Identity Providers and Service Providers **MUST** comply with the European Confederation eduroam policy [3].
- Member institutions **MUST** provide network access in accordance with the eduroam Service Definition [4].
- Member institutions **MUST NOT** charge for network access using eduroam.
- Member institutions **MUST** be Service Providers – i.e. **MUST** provide 802.1x network access.
- Service Providers offering eduroam **MUST** provide WPA2.
- Member institutions **MUST** operate at least one eduroam compliant RADIUS server.
- GARNET **SHALL** operate at least one RADIUS server which proxies requests to member institutions' RADIUS servers based on realm names.
- The Radius REALM **MUST** be a string equal to a domain owned by the organization that owns the eduroam Identity Provider.
- Member institutions' eduroam compliant RADIUS servers **MUST** maintain a technical trust relationship with the GARNET operated national root RADIUS servers.
- Member institutions **SHOULD** provide and update statistics according to eduroam Service Definition [4].
- GARNET **MAY** present statistics on usage and accessibility on the site eduroam.garnet.edu
- Member institutions **MUST** aid all confederation members in solving problems and managing incidents involving roaming.

References

- [1] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, [RFC 2119](http://www.rfc-editor.org/rfc/rfc2119), March 1997.
- [2] <https://www.eduroam.org/>
- [3] https://www.eduroam.org/wp-content/uploads/2016/05/GN3-12-194_eduroam-policy-for-signing_ver24_1_18052012.pdf
- [4] https://www.eduroam.org/wp-content/uploads/2016/05/GN3-12-192_eduroam-policy-servicedefinition_ver28_26072012.pdf