

# 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 <u>eduroam.garnet.edu.gh</u>.
- ➤ 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, 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