RENU Identity Federation (RIF)
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 RENU Identity Federation (RIF) 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.
- RENU 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 RENU operated national root RADIUS servers.
- Member institutions SHOULD provide and update statistics according to eduroam Service Definition [4].
- RENU MAY present statistics on usage and accessibility on the site eduroam.renu.ac.ug.
- 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_ver2-4_1_18052012.pdf
[4] https://www.eduroam.org/wp-content/uploads/2016/05/GN3-12-192_eduroam-policy-service-definition_ver28_26072012.pdf