KENET WIRELESS LAN AND EDUROAM POLICY DOCUMENT

Introduction

The Kenya Education Network (KENET) (http://www.kenet.or.ke) is a not-for-profit membership organization that is licensed by the Communications Commission of Kenya as an Alternative Network Facility Provider. KENET is the National Research and Education Network (NREN) of Kenya and partners with licensed telecommunications operators to provide Internet services and connectivity to public and private universities and other tertiary educational and research institutions in Kenya. It also conducts ICT in education research and innovative learning technologies in collaboration with faculty and students in member institutions.

KENET currently operates a national private broadband IP network connecting over 91 campuses in different parts of Kenya, including all of the major private and public universities. KENET peers directly with European Research and Education (GEANT) through the Africa regional Research and Education Network, UbuntuNet Alliance(http://www.ubuntunet.net). KENET operates a network operations center and two data centers that provide shared and hosting services to member institutions. The focus of KENET in the strategic plan period is to use the shared infrastructure established to support member institutions that aim to transform teaching learning, research and promote innovations in education and content development.

Roaming & Collaboration

KENET seeks to enhance roaming and collaboration in its member organizations and other research & education networks using Eduroam service. Eduroam (**edu**cation **roam**ing, http://www.eduroam.org) is the secure, world-wide roaming access service developed for the international research and education community. The service allows students, researchers and staff from participating institutions to obtain Internet connectivity across campus and when visiting other participating institutions by simply opening their laptop.

With Eduroam, participating institutions will have their students and staff access internet services while visiting other Eduroam participating institutions in Africa, Europe, America, Latin America, Asia and Australia. The roaming service is based on wireless connectivity and once set up at the institution; users can roam using the settings of their home institution.

Policy Guidelines

	Articles	DESCRIPTION

1	Acceptable Use Policy	1. Web access to all research and education content 2. Access to all KENET institution Resources i.e. email, websites 3. Web access to major email providers (Yahoo, Gmail, Hotmail) 4. A user must abide by their home institution AUP (Acceptable Use Policy) or equivalent and respect the visited institution's AUP or equivalent. Where regulations differ and the user has been notified or instructed to do so, the more restrictive policies shall apply.
2	Communication	1. Publish Acceptable use Policy on website. 2. The home organization must notify to their own users that participating organizations may log user activity.
3	Eduroam Nodes Availability	1. The RADIUS server should be accessible from anywhere on the Internet.
4	Monitoring	1. The following devices need to be monitored: Access points, switches where access points are connected, RADIUS server, and bandwidth usage of EDUROAM users.
5	Campus LAN requirements	1. The SSID broadcast (wireless name) by participating access points is **Eduroam** 2. IP addresses have to be assigned automatically via DHCP server to the users. 3. All network devices must be on UPS. 4. Each institution must deploy at least one Authentication/identity management server. 5. The Institutional Authentication server shall be reachable from the KENET Roaming server. 6. Campus wireless nodes must support secure authentication of Eduroam users 7. The campus has to have at least one test account for connecting to the Eduroam service.
6	On campus technical contact	1. The campus must designate a technical contact who will be accessible by email and telephone. 2. The campus must also provide a secondary contact person in case the primary contact is away from campus. 3. The role of the home organization is to act as the first line technical and service support function for its users who want to access Eduroam services at other participating organizations. 4. Only nominated technical contacts can escalate technical support, service support or security issues on behalf of their users to KENET
7	Authentication Server Requirements	1. Participating institutions must maintain an authentication service/identity management system 2. Where identity management systems do not exist, KENET will together with the participating institution work out a plan of implementation

		3. Must Maintain logs of IP and mac address of users 4. Logs entries should be held for a minimum of three months 5. Log entries should state date and time logged 6. Must be configured to synchronize with or a reputable NTP server to sync time i.e. ntp.kenet.or.ke
8	Property ownership	1. All equipment supplied by KENET shall remain KENET property and shall be tagged as such. 2. Any defects, damage shall be reported to KENET at the soonest opportunity.
9	WLAN & Eduroam	1. In instances where Eduroam requirements are not met, basic wireless LAN will be set up and a phased migration to Eduroam
10	KENET Contacts	Email: services@kenet.or.ke Tel : 0732150500