

## Improving Communication System through Router Configuration: The Nigerian Navy Experience

**Authors :** Saidu I. Rambo, Emmanuel O. Ibam, Sunday O. Adewale

**Abstract :** The configuration of routers for effective communication in the Nigerian Navy (NN) enables the navy to improve on the current communication systems. The current system is faced with challenges that make the systems partially effective. The major implementation of the system is to configure routers using hierarchical model and obtaining a VSAT option on C-band platform. These routers will act as a link between Naval Headquarters and the Commands under it. The routers main responsibilities are to forward packets from source location to destination using a Link State Routing Protocol (LSRP). Also using the Point to Point Protocol (PPP), creates a strong encrypted password using Challenge Handshake Authentication Protocol (CHAP) which uses one-way hash function of Message Digest 5 (MD5) to provide complete protection against hackers/intruders. Routers can be configured using a Linux operating system or internet work operating system in the Microsoft platform. With this, system packets can be forwarded to various locations more effectively than the present system being used.

**Keywords :** C-band, communication, router, VSAT

**Conference Title :** ICCSET 2014 : International Conference on Computer Science, Engineering and Technology

**Conference Location :** Toronto, Canada

**Conference Dates :** June 16-17, 2014