

Secure Message Transmission over Wireless Network by Using Android Application

Mi Than Than Nyo, Zin May Aye

*19th batch, University of Computer Studies (Yangon)
snowqueen249@gmail.com*

Abstract

The security of data transmitted over wireless network of passive scanning is of increased interest.

Sending data and messages are one of the popular ways of communication. As sending data and messages through mobile is now widely used as a business tool; its security has become a major concern for business organization and customers. When confidential information is exchanged using messages, DoS attack as well as to ensure that the messages are sent by authorized senders. Encryption mechanisms securely transmit message over insecure networks. In this system, for security purpose messages is encrypted using password-based 128-bit AES (Advanced Encryption Standard) encryption on android application and calculate RTT (Round Trip Time) between the sender and receiver sides before the data is transmitted over the network. There is a need for an end to end data encryption in order to provide a secure message for communication. For multiple accesses, the server only accepts the clients with the permitted MAC addresses to prevent unauthorized access in wireless network community.