Abstract

In this paper, system describe in MANET Energy saving & security in data is an important issue in MANET. This can be solved by network coding which might reduce energy consumption also by using less transmission this system proposed data sharing using data encryption method. Encryption/decryption cost along with transmission time is factor of energy consumption in wireless network. In MANET unreliable wireless media, mobility, lack of infrastructure is a big challenge. Mobile ad hoc network refers to mobility of nodes rather than any fixed infrastructure, act as a mobile router. These mobile routers are responsible for the network mobility in MANET. A Mobile Ad-hoc Network (MANET) is a self configuring network composed of mobile nodes without any fixed wired network. A very important and necessary issue for mobile ad-hoc networks is to find the route between destination and source which is a major technical challenge due to the dynamic topology of the network. To an autonomous group of mobile users that communicate over relatively bandwidth constrained wireless links are refer by mobile ad hoc network. Various algorithms are used for data encryption successfully such as Data
Encryption standard (DES), Transposition Substitution Folding Shifting Encryption Algorithm i.e. TSFS, Advance Encryption Standard. TSFS is used for avoiding errors occurring during the decryption process. DES & AES algorithm is used for query execution time & database size. P-coding scheme is used for the mobile ad-hoc network (MANET).

References

1. Peng Zhang, Chuang Lin, Yixin Jiang, Yanfei Fan, and Xuemin (Sherman) Shen, “A Lightweight Encryption Scheme for Network-Coded Mobile Ad Hoc Networks” IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, VOL. 25, NO. 9, SEPTEMBER 2014

Index Terms

Computer Science    Wireless
Keywords

MANET, P-coding, encryption, decryption, network coding, data sharing, energy saving.