Abstract

Wireless sensor network is having shared nature due to this security is one of the crucial feature for the network users. In commercial environment the whole thing depends on the other resource to transmit the data securely and retain the data as well in the regular medium. Transfer of data are done through intermediate node, hence data may loss due to the unauthorized persons. Mobile nodes in military environments like in battlefield region are likely to suffer from discontinuous network connectivity and frequent partitions. To solve this issue Disruption-tolerant network (DTN) is a technology which allows the node to communicate with each other access confidential information in secure manner. Most of the challenging issues in this scenario are the enforcement of authorization policies and the policies update for secure data retrieval. This paper is motivated by need of data retrieval in wireless network in secure manner. In existing system an attacker can attack the single key authority and can steal all the keys which threaten the system from security perspective. So in proposed system building multiple key authorities from where individual keys should be drawn. For efficient key generation and distribution point of view using ECC algorithm which can be more robust and secure. This
algorithm is also time and energy aware.

References


Index Terms

Computer Science
Networks

Keywords

Wireless network, DTN, multi-authority, secure data retrieval.