Abstract

In the recent times the concept of group key management is found to be one of the very essential issues in the field of wireless sensor network. Because of the dual impact limitations and various operations in open and hash environment the security and confidentiality which are considered as very challenging issues in WSN. The main issues which are associated with securing the sensor network have more complexity when the group communication of the network is considered. This paper addresses the security issues associated with the Group key management techniques and ensures some significant conclusions for group key management in cluster tree WSNs. A group is defined as a set of sensor nodes present in cluster based tree network and shares some sensory information such as temperature, pressure, etc. The main objective of the paper is to highlights some of the significant issues which are associated with the authentication of the group key data exclusively for the members who have a secure access to the group information. This study contributes an overview of secure an efficient group management mechanisms for cluster tree networks and in between group members. In order to focus on the various issues and limitations a comparative analysis of various key management techniques have been done and evaluated. The schemes are allowed to maintain multiple groups and rekey desperately. This paper focuses on the various group key management issues that outperforms conventional techniques of group key management.
Group Key Management Technique based on Logic- Key Tree in the Field of Wireless Sensor Network

References


Index Terms

Computer Science
Wireless

Keywords
Secure group management  Group communication  Wireless sensor networks (WSNs)  Security.