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Hybrid Method for Key Distribution in Mobile Ad hoc Networks

Abstract

There is a send for seconity survices to provide group-oriented communication privacy and data integrity. It is important that members of the group case antibility common seconic topic recogning group communication. As seconi distributed group by a generated and artherization protected in sequence by a band as well than the educing cost cases with the appropriated have been grouped to distribute group by in such as wey that needings cost cases with the wholl the seconic contraction of the education of the seconic contraction of the education of

Introduction

Due to mobility of nodes, traditional security models designed for fixed-network topologies may not be fully applicable in infrastructureless wireless networks, each efficient and secure key distribution scheme, the designers should consider many factors such as application requirements, network topologies, and packet loss characteristics of the underlying wireless networks. Generally speaking, security in wireless networks has six challenges [141+]: Lack of fixed infrastructure, Resource limitations on wireless devices. Unknown network topology. Wireless nature of communications. Very large density of distribution of wireless nodes and High risk of physical attacks to unattended nodes. Cryptographic techniques in network security can be applied to ad hoc networks [1]. Key management is the main component in security. If the key size is large, the corresponding cryptographic algorithm ensures a guaranteed secure communication, but lead to more energy consumption. Hence energy efficient key management techniques are used in wireless networks. Secure and efficient key management in ad hoc networks [7] builds a public key based on shared secret key and node servers. Each server creates its Certificate Authority (CA) within a time period and updates node request based on ticket based approach. During key undate the compromised node is recognized and key certificate is revoked. Scalable Key management and clustering [7] is based on hierarchical network partitioning and resilient to node mobility. Hierarchical Key Management [4] for secure group communication encrypts the packet twice due to frequent changes in network topology. Source node generates private key, encrypts the data packet and forwards it to immediate node at next level one (level 3). The intermediate nodes further encrypt the data packet again and forwards it to next level (level 5) process is repeated to level two. Distributed key management based on key update performs better compared to request update schemes. Distributed symmetric key management [9] considers pre-key distribution and overcomes the limitation of Trusted Third Parties (TTP) key schemes. [3] Explains the secure key management for MANETs. Light weight group key management is used to minimize the load of security protocols Distributed Lightweight groupkey management [V] based on secure optimized link state routing, use group keys for authentication control and save the node energy. The group keys are managed based on network partitions and node sessions (join/leave the route paths). Unauthorized nodes are restricted by using periodic and event based group-key replacement. Scalable cryptographic key management [4] based on public key cryptography solves sybil attack and dynamic node deployment.