Implementation of Security Services in LMA based Multicast Key Management Scheme for Proxy Mobile IPv6 Networks

Abstract

Proxy Mobile IPv6 (PMIPv6) is a network-based mobility management protocol to support mobile nodes (MNs) for IP with mobility, without requiring the participation of MNs in any mobility-related signaling. Network based mobility management protocol is more advanced from the host based mobility protocol. Recently, multicast issues in PMIPv6 networks have generated a great deal of interest among researchers, and several multicast schemes had been proposed. However, these schemes do not take security issues into account. Most of the group communications use multicast communication because if the information is sent once by the sender, it will be received by all the users. Main problem in multicast group communication is its security. In order to improve the security, various keys are given to the users. Using the keys the users can encrypt their messages and send secretly. The proposed scheme follows the security mechanism and also indirectly implement the LKH concept. The main advantage of...
proposed system is its security, Individual key and key encryption key generated by the secure cryptosystem. The proposed system implement the L-MKMS concept with high security.

**References**


**Index Terms**

Computer Science
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**Keywords**

Proxy Mobile IPv6 (pmipv6); Multicast; Key Management; Cryptography