

## **188. SELF ORGANIZED KEY MANAGEMENT FOR MESSAGE AUTHENTICATION IN WIRELESS SENSOR NETWORKS**

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In Wireless sensor networks to perform hop-by-hop message authentication and to provide source privacy it uses a security server (SS) which is responsible for public-key generation, storage and distribution of the security parameters among the network. However, the traditional key management scheme needs a fixed security server to manage all nodes; the key management scheme uses identity as the public key and is of no certificate, and it needs a Private Key Generator as the trusted third party. In this paper an innovative technique is introduced which is called as fully self-organized key management scheme (FSOKM) in wireless sensor networks. This work proposes a self-organized key management scheme, which is both free from any trusted third party such as Key Generator Centre or Certificate Authority and certificate less. This scheme allows a node to set up the public or private key pair all by itself and use the public key as its identity.

Keywords— Wireless Sensor Networks (WSNs), Hop-by-Hop Authentication, Fully Self-Organized Key Management (FSOKM).

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