

A SURVEY ON SECURITY ISSUES AND CHALLENGES IN WIRELESS SENSOR NETWORKS

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Abstract

A Wireless Sensor Network (WSN) is an evolving technology and getting significant attention due to its unlimited potential starts from domestic application to battlefield. However, it is still very early to say that the technology is full proof as it is having several issues and research challenges. Sensor nodes deployed in an unattended environment makes the networks vulnerable to a variety of potential attacks, the inherent power and memory limitations of sensor nodes makes conventional security solutions unfeasible. Though there have been some developments in the field of sensor network security, the solutions presented thus far address only some of security problems faced. This paper is an effort to introduce the security issues in wireless sensor networks, to highlight the current research efforts, and to determine the future directions to solve the unresolved issues. Section-1 provides a brief overview of wireless sensor networks, their evolution, major research initiatives and future applications along with issues of sensor Network. Section-2 Different types of Security attacks. Section-3 Security issues & challenges are discussed. Section-4 highlights the related work in sensor networks. Section-5 concludes the paper by highlighting the problems of sensor networks and future directions.

Keywords: Wireless Sensor Network, Security issues