Abstract

Wireless Sensor Network has opened several research criteria related to social security, data management, networking models, distributed system, agricultural aspects, military supervision etc. With the increasing number of applications, an increment in sensor network vulnerabilities has also become noticeably higher. For numerous purposes along with tracing and tracking objects, the sensor nodes with limited power supply, memory usage and computation capability are used to collect data, process it and transmit the generated results to other sensing devices over a specific geographic area. This whole process is done using wireless communication channels which are susceptible to various security threats. Thus securing the WSN has become a great challenge for the researchers. The objective of this paper is to explore these security issues and challenges regarding WSN by classifying security attacks, reviewing proposed security mechanisms and clarifying essential security requirements for specific security schemes. Finally, the relativity between proposed solutions against specific security threats of WSN is shown in a tabular form.
A Study on the Security Issues in WSN

- Culpepper, B. J. and Tseng, H. C., "Sinkhole intrusion indicators in..."


A Study on the Security Issues in WSN


Index Terms

Computer Science Wireless

Keywords

WSN Vulnerabilities Sensor network Security Attack Challenge Threat