Abstract

Wireless Sensor Networks comprise of innumerable small sensors that have limited resources. As wireless sensor networks are usually deployed in remote and unfriendly environment to transmit sensitive and crucial information, sensor nodes are vulnerable to node compromise attacks. Security issues such as data confidentiality and integrity which are of utmost importance need proper consideration in WSN. Hence, wireless sensor network protocols, as data aggregation protocol, must be designed keeping secrecy in mind. The work aims to use software agents to introduce security features in an agent based environment which is known as Secured Directed Diffusion using Mobile Agents (SDDMA). It extends the IDDMA approach by adding encryption to it. This will help to determine the sequence of target nodes to be visited by the Mobile Agent along with the encrypted data.

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Index Terms

Computer Science
Security

Keywords

Mobile Agent Directed Diffusion
Wireless Sensor Networks
Secure Data
Aggregation
Cryptography