

Manuscript ID : 00001-54555

Source ID : 00000519

International Journal of Scientific Research in Network Security and Communication



Volume 9, Issue 1, February 2021, Pages 17-19, Page Count - 3

## A Secure Light Weight Authentication Protocol for Wireless Sensor Network in Internet of Things

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### Abstract

*With the advancement of cloud and Internet of Things (IoT) technology, mobile phones, RFID systems and wireless sensor networks can be integrated to form heterogeneous systems to execute smarter applications. However, data exchange between remote cloud and sensor node via internet poses critical security challenges. The major challenge is the authentication and key exchange among the communication agents. In addition, resource constrained devices such as RFID tags, sensors in WSN and IoT integration (WSNIT) would require robust and light weight authentication schemes. To combat these issues, we establish in this paper a first of its kind of a WSN security protocol in IoT, which is light weight and resistant to cryptographic attacks.*

### Author Keywords

Internet of Things, Cloud Authentication, Wireless Sensor Networks

### ISSN Print:

Source Type: Journals

Publication Language: English

Abbreviated Journal Title: IJSRNSC

Publisher Name: ISROSET

Major Subject: Physical Sciences

Subject area: Computer Science Applications

ISSN Online: 2321-3256

Document Type: Journal Article

DOI:

Access Type: Open Access

Resource Licence: CC BY-NC

Subject Area classification: Computer Science

Source: SCOPEDATABASE

### Reference