

Security Analysis of Wireless Sensor Network A Literature Review

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Abstract— Security was a prior concern to the researchers since the beginning of wireless sensor network. With the growing technology, the belongings on security are also advancing day by day. Though it was tried to formulate this network completely secured during the time of designing, intruders and attackers always find their way to get inside it and accomplish their disgraceful intention. Different research papers have shown different ways to keep the network secured and trustworthy. This paper presents a significant analysis on the security issues of wireless sensor network. Literature study on various articles are accumulated where both possible security violence and their solutions are focused from most recent research papers which will be very helpful for future work for the researchers. Moreover, some basic implications are also proposed to keep the network away from vulnerability and interception.

Keywords—Sensor; Security; Vulnerability; Interception; Trustworthy

I. INTRODUCTION

In any kind of wireless networks security and confidentiality are essential issues. In wireless sensor network (WSN) the importance of security is more challenging. Wireless sensor network (WSN) and its applications are attacked by intrusions and other attacks to interrupt the characteristics it serves. Wireless sensor network is usually provided to the remote areas. Wireless sensor network is used to determine the different environmental monitoring applications such as temperature, air pressure, humidity finding [16]. Since sensor networks are frequently used in remote areas and in those areas, the operation of the network is left unattended, and unmonitored regularly that help the intruders to make an easy target for substantial attacks, unconstitutional access and tempering. Sensor nodes have to compromise with attacks due to resource tapered activities and operating in insensible surroundings also difficult to differentiate security violations from node failures. Problems are also created in justifying link qualities and overall shut down of the network. These resource limitations need security mechanisms that are designed for WSN applications, so that the limited resources can be used proficiently. This paper presents the different varieties of common attacks which are threatening this network since the beginning

of its operation. Then recent trend in security mechanism improvement has been shown briefly. Most of the security solutions are studied from recently published international journals and conference papers which will be very helpful for future researchers to work onward.

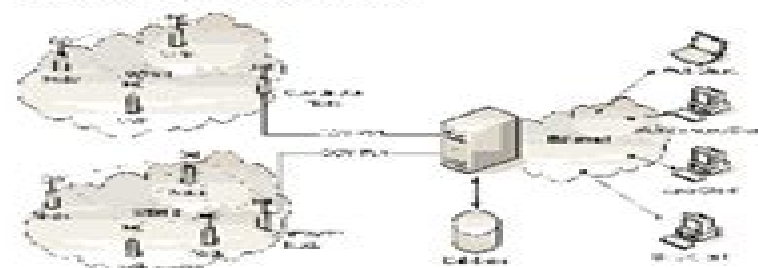


Fig. 1. A simple wireless sensor network [1]

II. SECURITY FUNDAMENTAL OF WSN NETWORK

To keep the wireless network secured, we have to protect it from unauthorized access or unintended uses. There are three important services for the security mechanisms are Confidentiality, Integrity and Availability are defined by The CIA security model [2]. Confidentiality defines that any unlawful access to the network must be prohibited. Only reliable node of the network can access the resources. Integrity describes that a message must reach from sender to receiver without changing or modification. Sensitive information must not be accessed or changed by unauthorized individual.

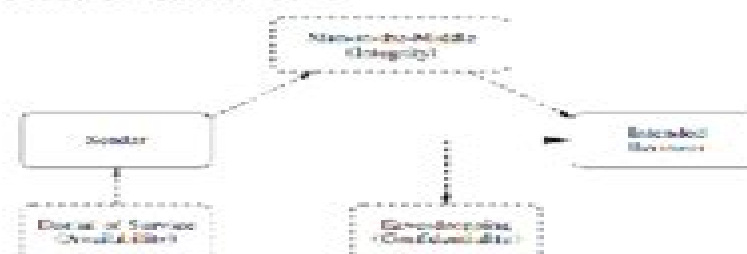


Fig. 2. Different types of attacks in the CIA model [2]

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