Abstract

This survey paper discusses the security challenges in IoT networks. IoT is a hot research topic between researchers. In the era of digital media, IoT plays an important role in information servers and data warehouses. IoT networks are used in different cities of smart city networks. That’s why the security of the IoT network is also a big task. There are many loop holes available in IoT-based security networks. In this survey paper, we discuss the security aspects in the IoT networks. Also, we discuss the different researches previous work and previous work in IoT security. This survey analyzes existing protocols and mechanisms to secure communications in the IoT, as well as open research issues. We analyze how existing approaches ensure fundamental security requirements and protect communications on the IoT, together with the open challenges and strategies for future research work in the area. This is, as far as our knowledge goes, the first survey with such goals.

References


Index Terms

Computer Science Security

Keywords

End-to-end security, IEEE 802.15.4, Internet of things, RPL, Security, MAC layer, IP V6 and V4