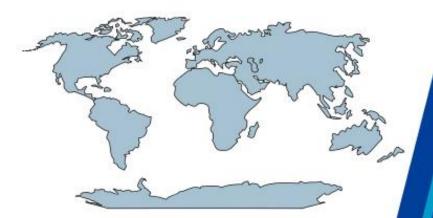
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SECURE AND EFFICIENT DATA ROUTING TECHNIQUES FOR IOT

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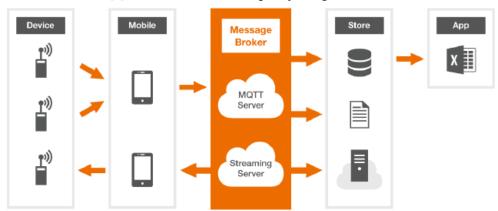
ABSTRACT

Nowadays, the Internet of Things (IoT) has been used widely in our daily day to day life, starting from health care devices, hospital management appliances to a smart city. Most of the IoT devices have limited resources and limited storing capability [1]. Recently, The Internet of Things (IoT) has recently gotten a lot of attention from both business and academia. In the IoT, objects with sensors get recorded and data got sent to server in order to construct some kinds of smart systems, such as smart grid, intelligent transportation systems, healthcare systems and even smart city. In order to ensure the accuracy of sample data, a secure channel must be established between the servers and sensors [2]. If the sample data is tampered, the results of data analysis are beyond belief, and may even bring serious mess. If the security is not ensured, then it may result in a variety of unsought issues. This survey resembles the overall safety aspects of the Internet of Things and debates the overall problems in IoT security [1].

Keywords Security, Integrity, Authentication, IoT

1. INTRODUCTION

The IoT will hold every object, which occurs every day in our lives. In this article we, deliberate how the future technology on the internet will be designed, its aspects and its challenges [3-4] Fig. 1. which describes the evolution of the IoT devices. The IoT is completely transforming very fast as every device integrated to be connected with the internet [5]. This innovation will completely change the life of humans.



The target is to check out the issues in the security of IoT and other challenges of IoT and to propose a complete overview of advanced security techniques. We encapsulate the security issues, various challenges in the data communication of IoT, that will entirely differ from the existing and traditional data collection techniques.

1.1 Problem Statement

Sensor nodes in an IoT produce data at a high and rapid rate, as noted in the introduction; energy is expended in both transmission and reception of the message. The amount of energy required for effective message transmission is determined by the factors listed below:

- length of the message to be delivered
- · distance between sensor nodes and sink nodes
- · operational energy cost incurred by transmitter and receiver hardware etc.

The goal of this thesis is to investigate the energy efficiency of proactive and reactive routing protocols, particularly DSR, OLSR, and AODV. These protocols have different characteristics for wireless routing. The main problem is to select the correct and energy-efficient routing protocol. Therefore, this thesis addresses the following challenges: