**Paper No: PU-SOE-CSE-19**

**Internet of Things: Quality of Services of RABBITMQ & KAFKA**

**Abhishek Pathaka, C. Kalaiarasanb,**

a. Research Scholar, Computer Science & Engineering, Presidency University, Bengaluru– 560064, India,

b. Associate Dean-SOE, Presidency University, Bengaluru– 560064, India,

**Abstract**

Diverse use of various heterogeneous devices in Internet of Things is providing challenges and several issues in Quality of services related to Internet of Things. This paper provides the overview of Internet of Things (IoT) and standards. Factors affecting the quality of services in communication. Standards used for communication in Internet of Things (IoT) are discussed and reviews related to it is presented. RabbitMQ implementation of AMQP as well popular standard like Kafka is discussed. Quantitative and Qualitative differences between RabbitMQ and Kafka is presented. We have also discussed similarities and dissimilarities of Message Queue Telemetry Transport (MQTT) and Advanced Message Queuing Protocol (AMQP) protocols. The main objective of this review is to provide critical review of a functional view of IoT architecture, protocols and standards.

**Keywords:**

RabbitMQ, Kafka, AMQP, IOT

**Publication Details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Journal Name** | **Vol.** | **Month & Year** | **Page No.** | **Publisher** | **Scimago Ranking** |
| International Journal of Innovative Technology and Exploring Engineering | 9 |  Dec. 2019 | 883-886 | Blue Eyes Intelligence Engineering & Sciences Publication | Q4 |