Abstract

It has not been much time since the Internet of Things (IoT) came into existence. It is a fresh concept that is always evolving. Ubiquitous computing, wireless technologies, sensing technologies, Internet Protocol (IP) and devices are mingled together in order to devise a system where the virtual or abstract world meets the real world meet and they interact continuously with each other. Wireless Sensor Networks on being integrated with IoT can work wonders. There are numerous sensors deployed in the sensor fields, all of them sending information generated by them towards an application in the cloud through an IoT gateway which helps to bridge the internal network of sensors with the World Wide Web. Different kinds of sensors forward different types of information towards the gateway. For instance there are temperature sensors that send information regarding temperature, sensors that send information about a patient’s heart beat to the doctor and so forth. The objective of this paper is to prioritize the traffic/data generated by different sensors in a Message Queue Telemetry Transport for Sensor Networks (MQTT-SN) Gateway in order to mitigate the delay of data packets which is necessary for time critical applications.
References


3. Niemi, J. The design and implementation of sensor communication protocol with connectivity adapter interfaces in nRF51822 embedded development platform. 2016.


Index Terms

Computer Science Information Systems

Keywords

Internet of Things (IoT), Wireless Sensor Networks (WSN), Message Queue Telemetry Transport Protocol for Sensor Networks (MQTT-SN), Gateways, Traffic Prioritization.