A Study of IoT-Optimized Low Power Asset Tracking with Cloud-enabled LoRaWAN

Fatima Salman
Kennesaw State University

Abstract

The world of technology is expanding very quickly today, including technologies like cloud-based asset monitoring, but this makes it difficult to keep up with this technology's development and many other things. It is possible to monitor and manage your assets remotely with a cloud-based system thanks to its many features. The lifecycle of any commodity, including inventory, machinery, vehicles, and real estate, can be tracked using this kind of cloud-based system. Wide-area networks can be used to send data with the aid of low-power wide-area network (LPWAN) technologies like LoRa, SigFox, and NB-IoT. This project will examine traditional, cloud-based, LPWAN-based asset tracking systems while analyzing IoT-optimized asset tracking with the Long Range Wide Area Network (LoRaWAN), which is cloud-enabled. It also includes a number of case studies.