Can BATMAN Replace RPL for IoT Applications?

Routing is one of the most imperious research areas in the Internet of Things (IoT). Routing protocol indicates nodes communication, information dissemination and selection of the best route to reach the destination. This paper presents a comparison between the performance analysis of two routing protocols, RPL and BATMAN, used for Ad-hoc mesh and IoT networks, to observe their strengths and limitations. The analysis is based on evaluation of protocol’s packet delivery ratio, packet delay, and routing overhead. Network Simulator 3 (NS-3) is used to simulate the scenarios in order to observe the performance with different number of nodes and varying distance to the destination node. This work will allow the researchers to choose the best suitable protocol for required applications and to have better knowledge of protocols applicability for different IoT scenarios.


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BATMAN, Internet of Things (IoT), NS-3, routing, RPL.