

Addressing Scheme for IOT Network Using IPV6

Authors : H. Zormati, J. Chebil, J. Bel Hadj Taher

Abstract : The goal of this paper is to present an addressing scheme that allows for assigning a unique IPv6 address to each node in the Internet of Things (IoT) network. This scheme guarantees uniqueness by extracting the clock skew of each communication device and converting it into an IPv6 address. Simulation analysis confirms that the presented scheme provides reductions in terms of energy consumption, communication overhead and response time as compared to four studied addressing schemes Strong DAD, LEADS, SIPA and CLOSA.

Keywords : addressing, IoT, IPv6, network, nodes

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