



An Efficient and Robust Addressing Protocol for Node Auto configuration in Ad Hoc Networks

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ABSTRACT:

Due to the lack of infrastructure in ad hoc network address assignment is a key challenge. Autonomous addressing protocols are required to provide the address. To avoid address collisions in a dynamic network with fading channels, frequency partitions, and joining/leaving nodes, it requires a distributed and self-managed mechanism. This paper proposes and analyzes a lightweight protocol, which helps in configuring mobile ad hoc nodes based on a distributed address database stored in filters. It reduces the control load and makes the proposal robust to packet losses and network partitions.

Index terms: Ad-hoc networks, Addressing mechanisms, IP Address configuration

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