

عنوان مقاله:

Mobility Management in Wireless Cellular Networks Using Other Nodes As Relays

محل انتشار:

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خلاصه مقاله:

In this paper, we propose a handover protocol called CAMP in wireless cellular networks. When a mobile user is not in the communication range of base stations, this protocol utilizes other users to make a virtual tunnel between the user and a base station. In this way, the user can communicate data with a base station from far distances. We also propose a handover protocol called MCAMP. This protocol uses two virtual tunnels between the user and base stations. In this way, the communication gets robust against both the probable disconnection during handover and tunnel failure. We have simulated these protocols. Our simulations show that the CAMP protocol reduces user's disconnection duration using the tunneling method with acceptable overhead. Consequently, packet loss rate and end-to-end delay are reduced. Then, MCAMP improves CAMP in terms of connection stability, packet loss rate, and end-to-end delay.

کلمات کلیدی:

.Keywords- cellular network, ad hoc network, handover, mobility, routing

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