



# Voice over Internet Protocol in Distributed Environment Using MANETs

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**Abstract:-** Mobile ad-hoc network is one of the most promising fields for research and development of wireless network. Mobile Ad hoc Networks are based on a peer to peer approach, each nodes participates in the organization of the whole network. Voice Over Internet Protocol over Mobile Ad-hoc Network is a challenging issue due to the intrinsic distributed nature of the existing peer to peer paradigm. A new protocol, capable of ensuring a Quality of Service level for Voice Over Internet Protocol calls over a Mobile Ad hoc network and to manage a higher number of calls in the system. Novel metric function is proposed to perform the best path selection from source to destination nodes, respecting the Quality of Service parameters for VoIP quality. Voice over IP is a methodology and group of technologies for the delivery of voice communications and multimedia sessions over Internet Protocol networks. Finding the low cast path from source to destination and dynamic path selection strategy, in order to guarantee the best quality for new incoming calls, without degrading system performance.

**Keywords:-** VoIP, MANET, QoS, distributed architecture, peer-to-peer, IP-telephony, hostile environments.