

(54) Title of the invention : IOT BASED ENHANCED HYBRID MOBILE MESH AD-HOC WIRELESS NETWORK FOR REBROADCASTING OF DATA PACKETS

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(57) Abstract :

The MANET (Mobile AD-HOC Network) is combined with a long-range network such that a wireless terminal can decide whether to rebroadcast a geocast packet. A wireless terminal closes to or within the geocast region can rebroadcast on the MANET, whereas a wireless terminal far from the geocast region can rebroadcast on the long-range network also is an architectural solution in which standalone ad-hoc network cells are used as an extension of the backbone infrastructure in terms of network architecture and its service capabilities is provided. These Ad-Hoc networks will integrate to the Internet via cellular and other available access networks. This integration creates new network operators and ISP's. In its extended architecture, it is envisaged that the mobility issues are handled by utilizing the IP mobility capabilities, taking into account the mobile mesh Ad-Hoc specific requirements. The mobile mesh Ad-Hoc network is established. The mobile mesh Ad-Hoc network is a hybrid network that supports features of conventional Ad-Hoc and infrastructure networks such as fixed and mobile networks. The dynamically configurable hybrid network, which consists of mobile and fixed network subsystems, and nodes/routers can make it possible for subscriber terminal to setup a seamless radio communication access to both the radio access network subsystems and to the other mobile nodes.

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