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RESEARCH ARTICLE



BUNDLE PROTOCOL ALONG WITH OLSR IN MANET

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Abstract---- Mobile ad hoc network (MANET) is an autonomous system of mobile nodes connected via wireless links. Each node operates not only as an end system, but also as a router to forward packets. The nodes are free to move about and organize themselves into a network. Delay Tolerant Networking (DTN) is an end-to-end network architecture designed to provide communication in and/or through highly stressed networking environments. The key part in DTN is Bundling protocol. The bundling protocol allows hosts that normally cannot able to communicate each other due to network partitioning. Bundle Protocol follows the method of store, carry and forward. In case of store, carry and forward method, packets have been held for some period of time only. Probably there is a possibility of packet loss and delay occurs in those particular nodes, when time expires in Bundle Protocol. This paper aims to reduce such delay by using MANET routing protocol called OLSR (Optimised Link State Routing Protocol) for better delivery of packets. If the delay occurs in any node, Optimized Link State Protocol is enabled and the packets can be delivered quickly to the neighbours in an efficient manner. The parameters considered here are end to end Delay, throughput, route load and packet delivery ratio.

Keywords---- delay; bundle protocol; throughput; route load; packet delivery ratio

Full Text: <http://www.ijcsmc.com/docs/papers/February2014/V3I2201452.pdf>