

all other three protocols. DSR protocol has the lowest average end-to-end delay i.e 0.84%, TORA has 4.33% average end-to-end delay, DSDV has 35% average end-to-end delay and AODV has the highest percentage of average end-to-end delay i.e. 810%. From the above analysis we analyze that AODV protocol has the highest average end-to-end delay and DSR and DSDV has the lowest average end-to-end delay.

5. Conclusion

In this paper, the performance of the four MANET's routing protocols such as DSDV, AODV, DSR and TORA was analyzed using NS-2 simulator. We have done comprehensive simulation results of packet delivery ratio and average end-to-end delay over the routing protocols DSDV, DSR, AODV and TORA by varying the number of nodes. DSDV is proactive protocol, AODV and DSR are reactive protocols and TORA is hybrid protocol. So, we conclude in packet delivery ratio reliability of AODV protocol is greater than DSDV, DSR and TORA and in average end-to-end delay the reliability of DSR is greater than AODV, DSDV and TORA. DSR has the least average end-to-end delay with cost of PDR.

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