ABSTRAK

LoRa is a low-power wireless telecommunications system. LoRa is still vulnerable to forms of attack that can damage data delivery routes, and can delete data and information on LoRa. One of the attacks found on LoRa is the Black Hole attack. This research focuses on detecting and prevention nodes that act as black hole nodes dropping packets using the Anomaly Based Detection method and using packet loss parameters on the mesh topology in LoRa. This test is carried out with 6 nodes, 1 node acts as a gateway, node 6 acts as a black hole node, with conditions on normal nodes and nodes that have black hole nodes. From this research it can be concluded that black hole nodes can be detected using anomaly based detection. And can prevent black hole nodes using by Baited Based method.

Keywords : LoRa, Black Hole, Node, Mesh.