

Abstract

The implementation of Network Management System (NMS) is a way to enhance the reliability and continuity of a network. NMS includes surveillance of the latest condition from each node that build a network until giving status notification to the administration.

In this final project NMS is implemented to monitor the network's performance parameters such as: ICMP response time, HTTP response time, traffic and also to display the map of wireless mesh network's topology. So, the network condition can be monitored real time. OpenNMS on a wireless mesh network with Optimized Link State Routing (OLSR) as the routing protocol is used for the implementation. To obtain completed condition data such as disk usage, user account, and other parameters, Simple Network Management Protocol agent is run on each node.

Keyword: wireless mesh network, network management system, OpenNMS, OLSR.