

## Understanding Basics of Networking with Simulators

Research on wired and wireless networks, implementation of new algorithms and simulation of same in network simulators on Wireless Sensor Network (WSN), Ad Hoc wireless network, MANET network for improvising

- a. Routing
- b. Optimization of network traffic
- c. Efficient bandwidth utilization
- d. Reducing transmission delay
- e. Link Utilization
- f. Input Throughput

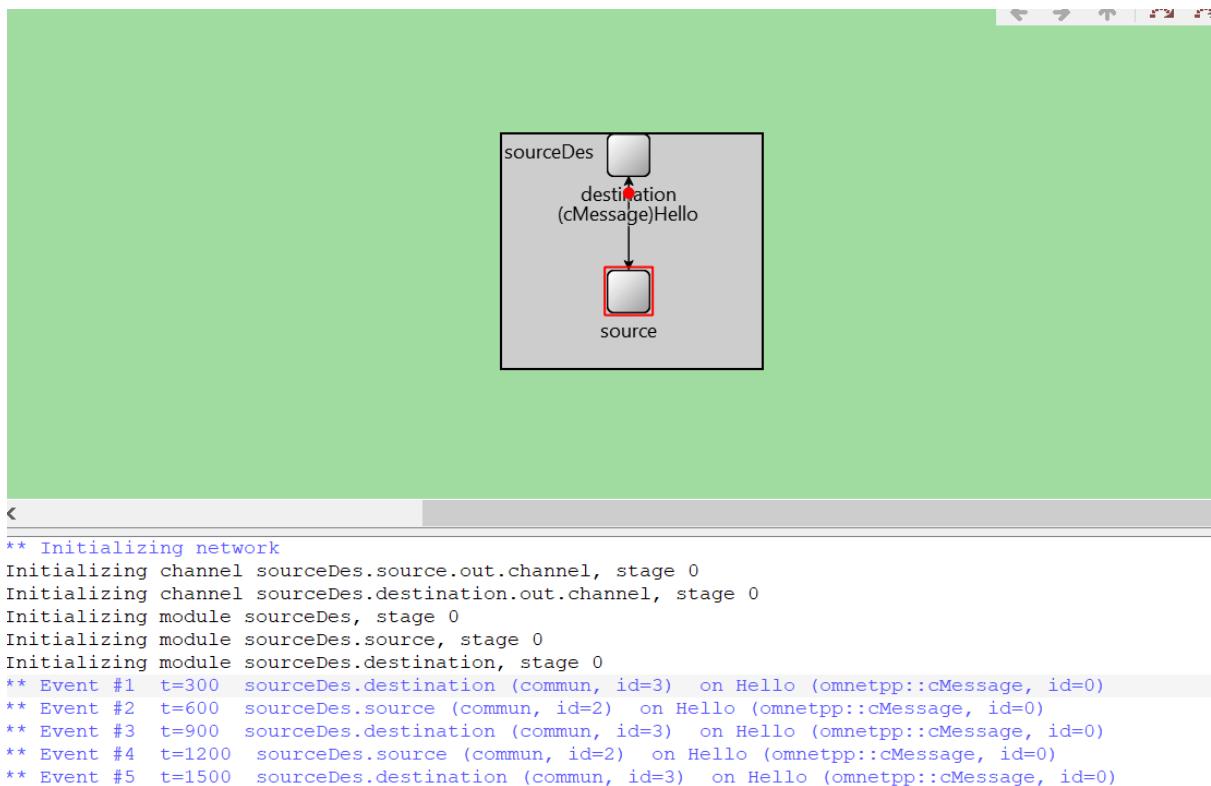


Fig: Source to destination communication

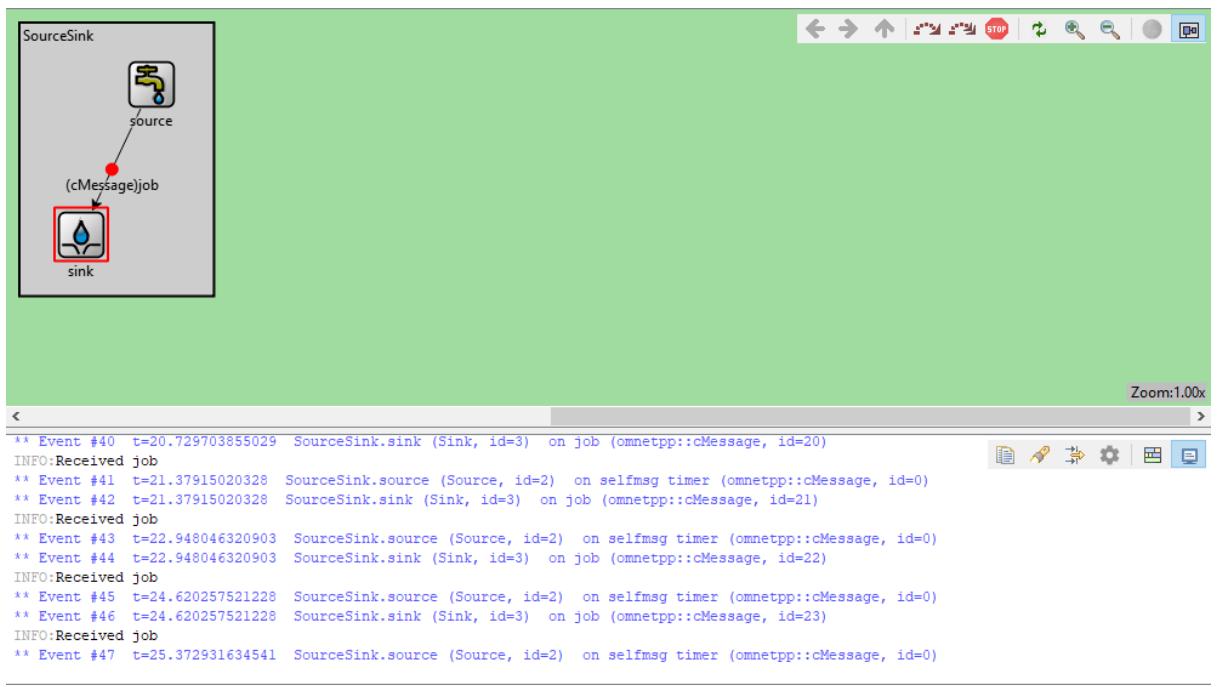


Fig : Message communication between Source and sink in wired medium

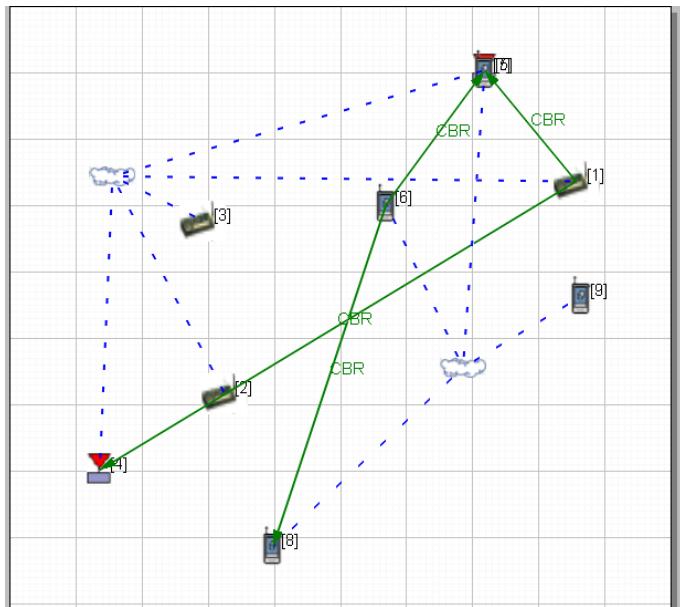


Fig. Wireless Network implementation

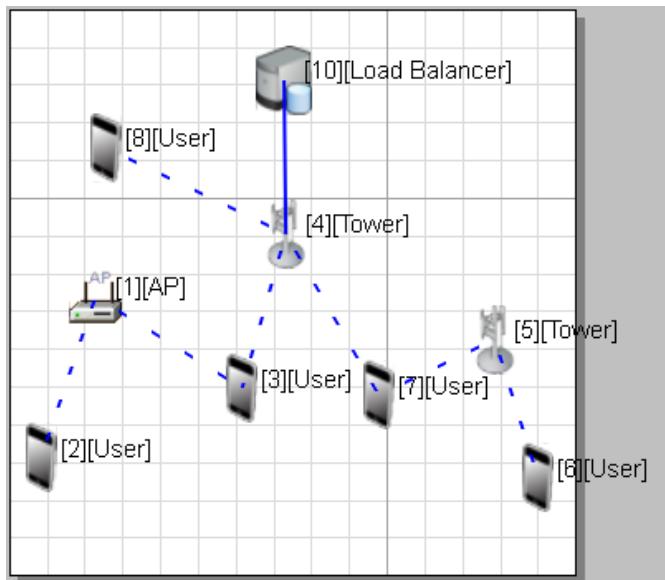


Fig. Implementation of 3G mobile communication with Access point and tower

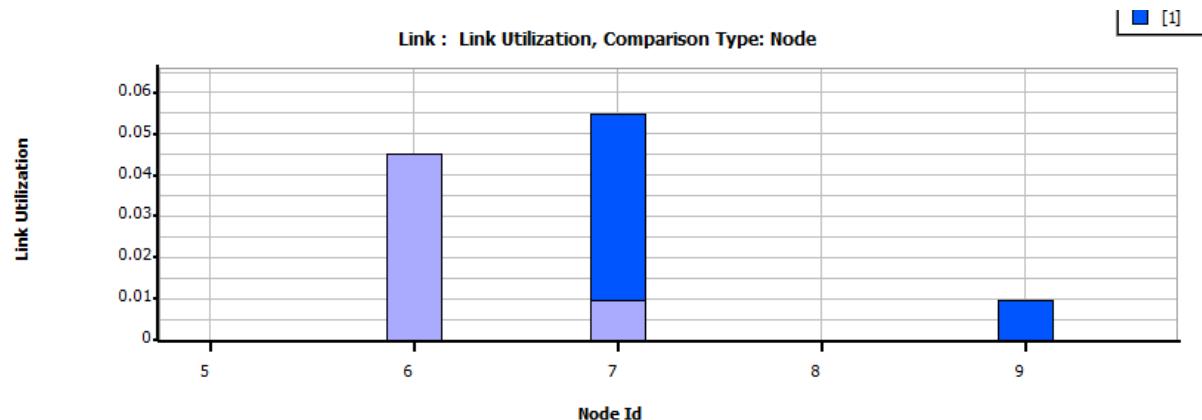


Figure: network Link Utilization

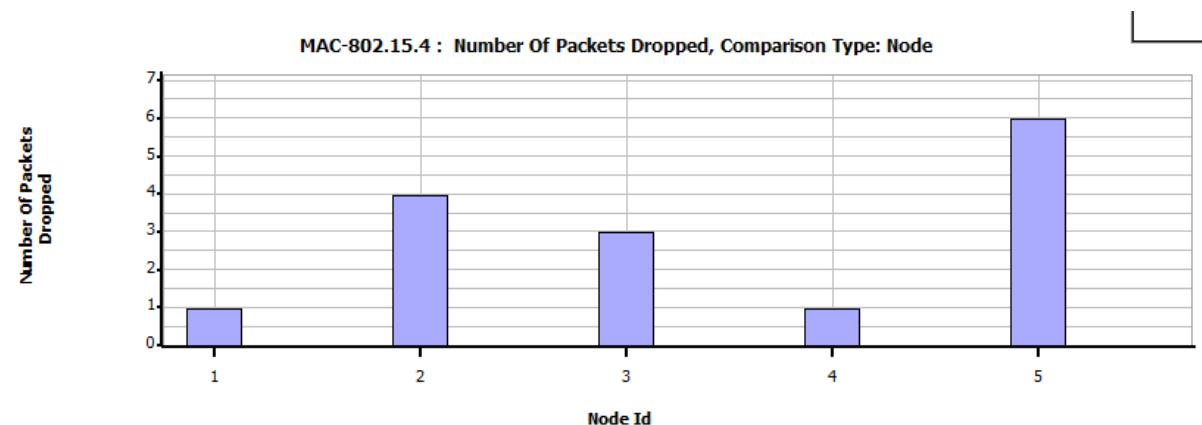


Fig : Number of packet dropped during transmission

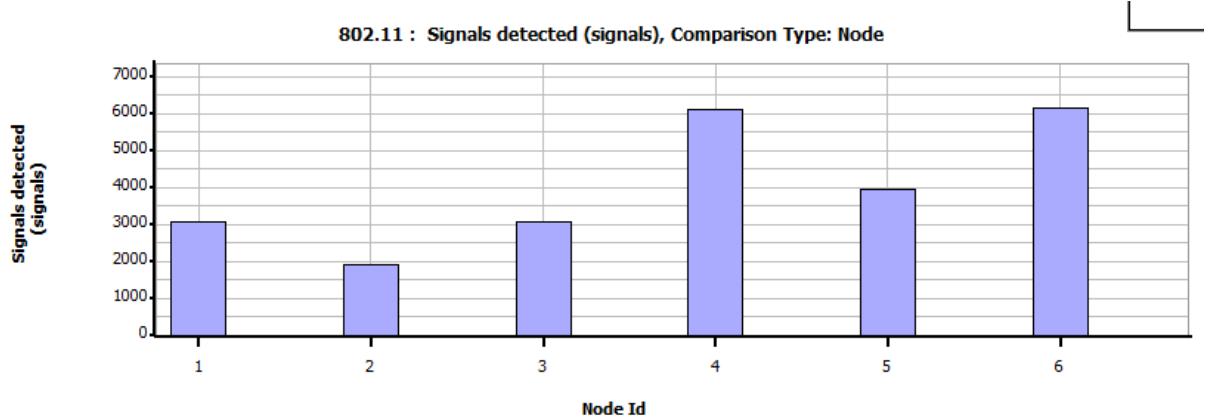


Fig: Signal detected by the nodes