

## 2. OPNET MODELER

We are using the Optimized Network Engineering Tool (OPNET v14.5) for simulation of our networks which is one of the most powerful simulation tools regarding wireless communications. OPNET is a research oriented network simulation tool which provides a development environment for modeling and simulation of deployed wired as well as wireless networks and also provides multiple solutions for managing networks and applications e.g. network operation, planning, research and development (R&D), network engineering and performance management. OPNET 14.5 is designed for modeling communication devices, technologies, protocols and to simulate the performance of these technologies. User can create customized models and simulate various network scenarios [6]. It is possible to simulate various wireless communication technologies such as MANET, 802.11, 3G/4G, Ultra Wide Band, WiMAX, Bluetooth, ZigBee using OPNET tool.

The OPNET modeler is object oriented and employs a hierarchical approach to model communication networks as shown in fig below. The OPNET usability can be divided into four main steps.

1. **Modeling :** This module is used to build or create a network model.
2. **Choose and select statistics:** We can choose different statistics to collect from each network.
3. **Simulate the network.**
4. **View and analyze results.**

The OPNET Modeler comprises a series of hierarchical user interfaces including Project, node, process, link model, path, and project editors [7] as shown in figures 2, 3, 4.

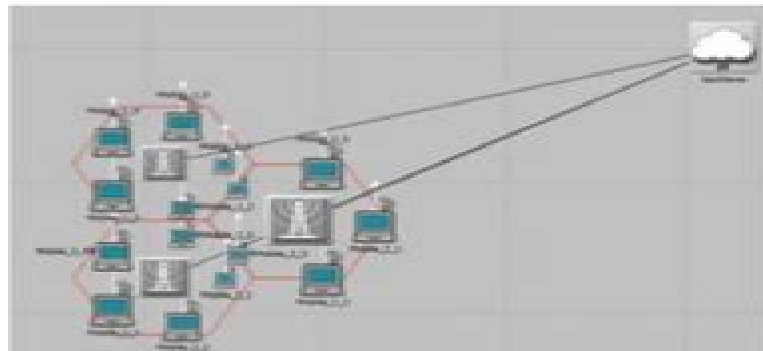


Fig 2 The Network model

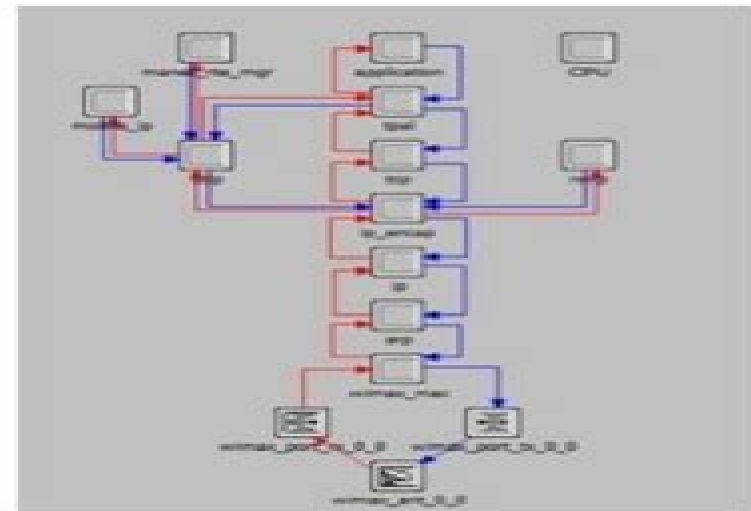


Fig 3 The Node model

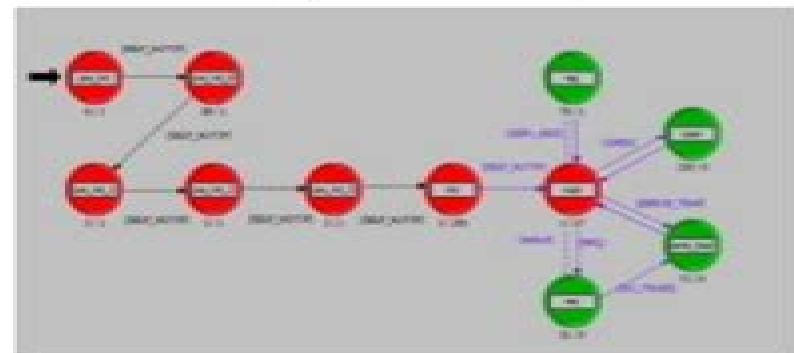


Fig 4 The Process model

## 3. SIMULATION INFRASTRUCTURE AND SCENARIOS FOR WIMAX NETWORK

### 3.1 Simulated Test Bed Infrastructure

The test bed infrastructure consists of simulated WiMAX network, which is interconnected with real devices defined as nodes. The network topology of our test bed network is given in Figure. We have created three network models with different number of nodes and base stations. These models consist of a circular placement of nodes in a hexagon pattern

# Opnet Guru Lab Manual

**Gregory L. Moss**



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