

### Practical 3

Aim:- Understanding TossIM for :-

- Mote-Mote radio communication
- Mote-PC serial communication

\* Description:-

i) Simulator Used :- Omnet++

ii) Simulator can be downloaded from <https://omnetpp.org/omnetpp>

iii) After installing Omnet++, we need to install inet framework, which is specially designed for wireless simulation. The inet framework can be downloaded from <https://inet.omnetpp.org/Download.html>.

iv) After downloading there are certain steps to be followed to include this framework in omnet++ as follows:-

1) Download the INET sources

2) Unpack it into the directory of your choice.

3) Recommended version is inet 2.1

4) Open mingewenv (Command Script File) and run the following commands:-

i) ./configure

ii) make

iii) omnetpp

\* Steps for Practical:-

1) Start the Omnet++ IDE, and import the project via File → Import → General → Existing Projects into Workspace.

2) Now Build the project by Build → Project → Build or hit Ctrl+B.

3) Now you should be able to launch example simulations.

4) Then open inet/examples/

5) Right click on Adhoc → New → Folder. Name the folder as SimpleAdhoc.

6) Right click on newly created folder, New → Network Description File (C++/C) file (Name it as Net1) → Generated Wizards → New Managed Mobility Wireless Network Wizard.

7) Configure the options if needed, click on next.

8) Then click on Finish.

9) Now, execute by Right Click on .ned file, Run As → OMNeT++ Simulation.