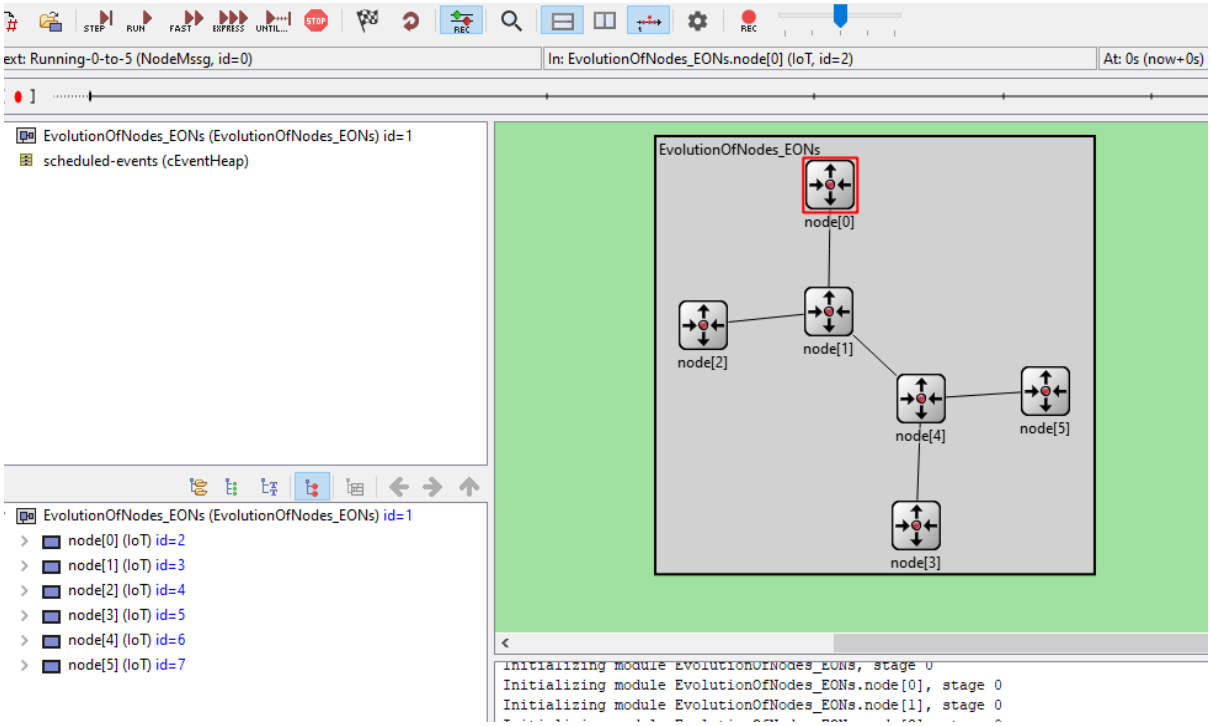
PROJECT EvolutionOfNodes (EONs) Instructions to RUN Program



How to use OMNet++ and run EONs simulation: To run this simulation you would first have to extract the zip file then download and launch OMNet++, the main reason I used OMNet++ was because it provided me with the best tools needed to perform this simulation. Once OMNet++ has been launched you would need to click the “File” button at the top left of the screen followed with by selecting “open projects from file system” shown in Figure1.

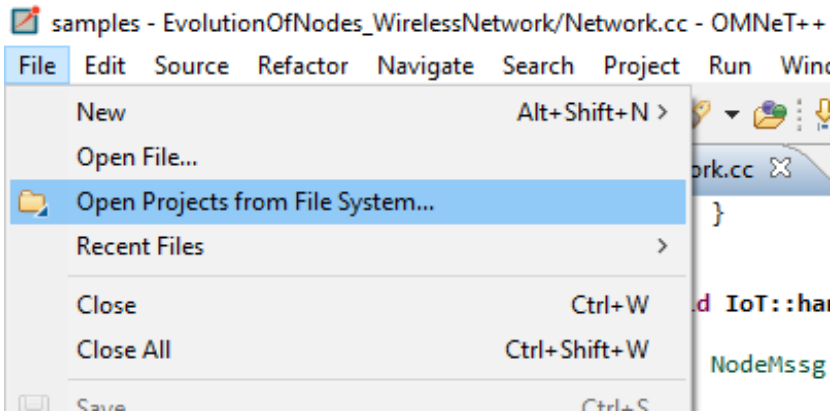


Fig.1 File directory

In this section you are given two options, the first option is to insert the exact directory of the file that was previously extracted from the zip file, in my case it was in the following directory "C:\Users\Maxok\Downloads\omnetpp-5.6.1-src-windows\omnetpp-5.6.1\samples\EvolutionOfNodes_WirelessNetwork". The second option is to click the directory button shown in Figure2.

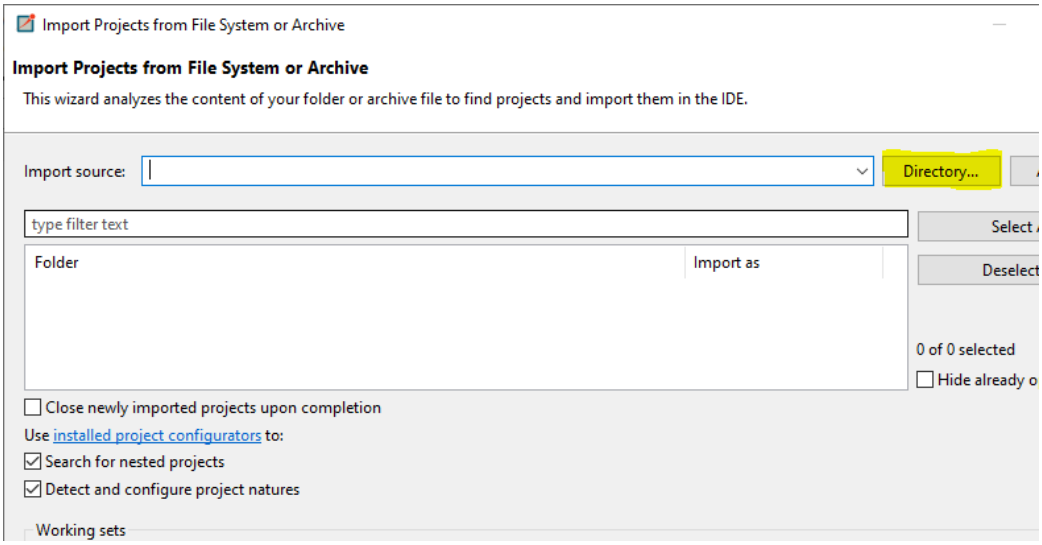


Fig.2 Import project directory

After the project has been successfully launched you would now have the ability to view each file involved in the development of this project and access to many more tools provided. To continue running the program after the project had been launched, three steps are required in the following order "Clean Project" to make sure error were not present, "Build Project" and "Run As" with "2 OMNet++ Simulation", to do this you first need to right-click the project itself "EvolutionOfNodes_WirelessNetwork" which is shown in Figure3. After successfully running the program the following simulation should be prompted as shown in Figure3.

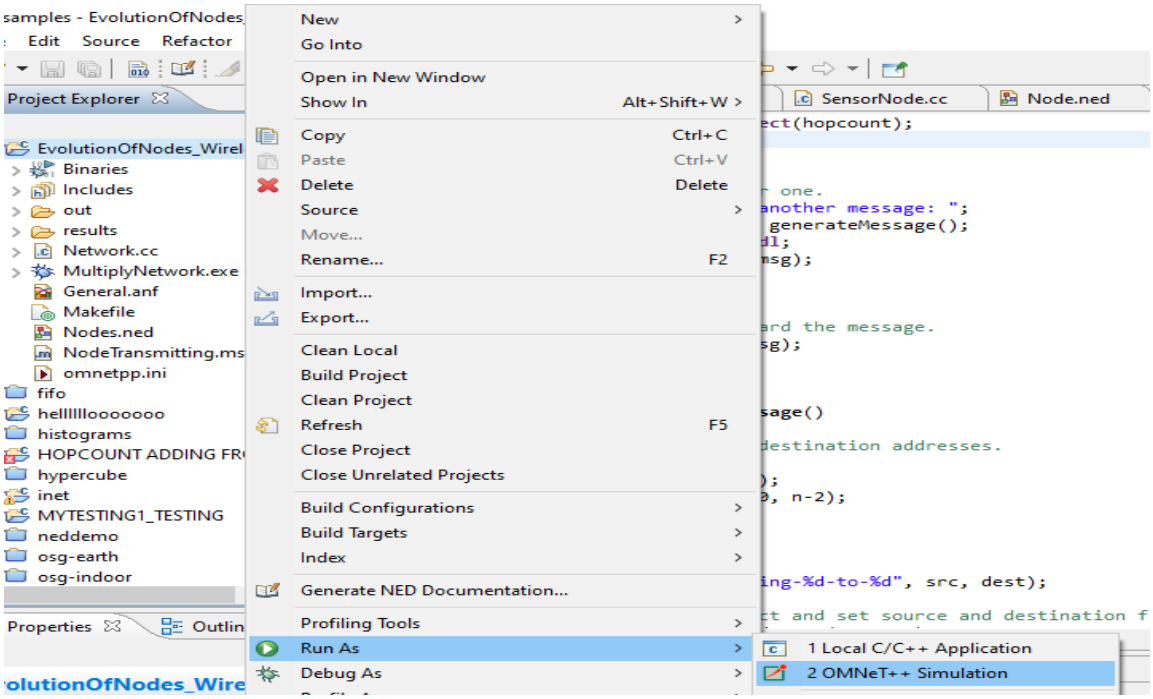


Fig3. Steps to Run simulation

This section displays all the following nodes involved in simulation, initialization of the channel connecting each node, and where you can control how the stimulation performs for example at the top left corner are useful tools generally used for OMNet++ simulation. To run the program, you would click “RUN” and to stop at any time during runtime of simulation you would simple click “STOP” and close the simulation prompt (allows for data in results directory to be updated), for any other commands for example speed up the runtime of simulation can all be accessed and the top right of simulation prompt shown in Figure4.

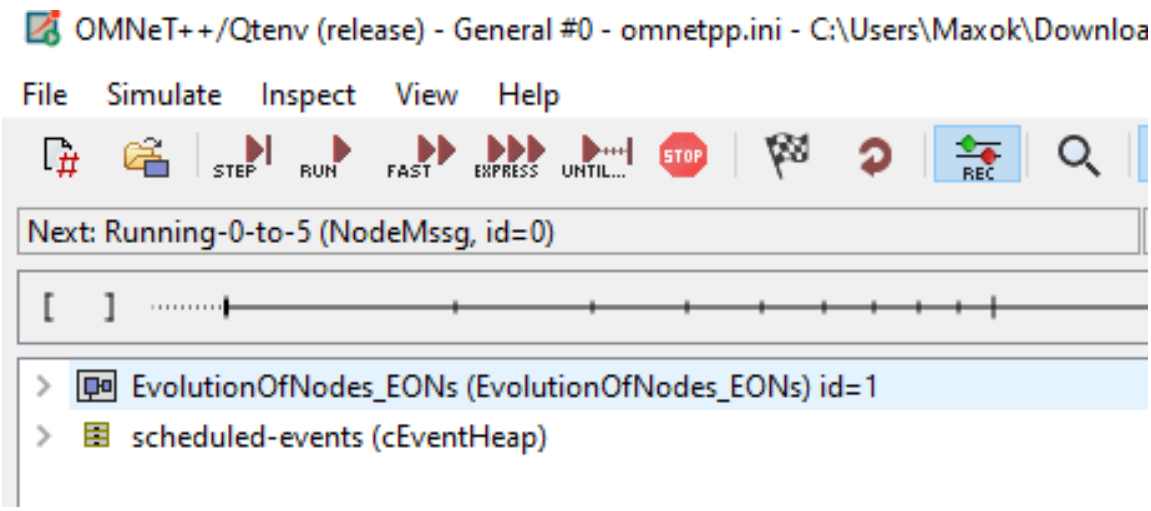


Fig4. Simulation Tools