NetSim Graph Plot Utility

Requirements: Python 3.11 and later

Project Download Link:

https://codeload.github.com/AmruthGudigar111/Python-Graph-Plot-Utility/zip/refs/heads/main.zip

Introduction

The graph plot with edges and vertices is commonly referred to as a graph or a network. In this context, a graph is a collection of vertices (also known as nodes) connected by edges (also known as links or arcs).

1. **Graph-Plot.exe:** Is a python GUI utility for plotting a graph plot for NetSim scenarios in the form of edges and vertices.

Usage:

1. Download the python utility using Download Link and Extract the Zip Folder
2. Once the folder is extracted, navigate to the folder where the Python utility is located.
3. Run the Graph-Plot.exe file. In the Python Plot GUI window, you will be prompted to load the NetSim scenario configuration file. Click on the "Load Configuration file" button to select the path to the configuration.netsim file.

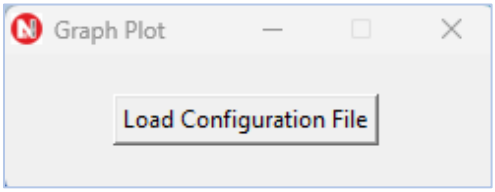

Fig 1: Python GUI to load the NetSim scenario configuration file as an input to graph plot utility

4. Locate and select the **Configuration.netsim** file in the file browser window and click "Open" to load it into the Python utility. (Configuration.netsim file will be located in the path where you have saved your experiment)

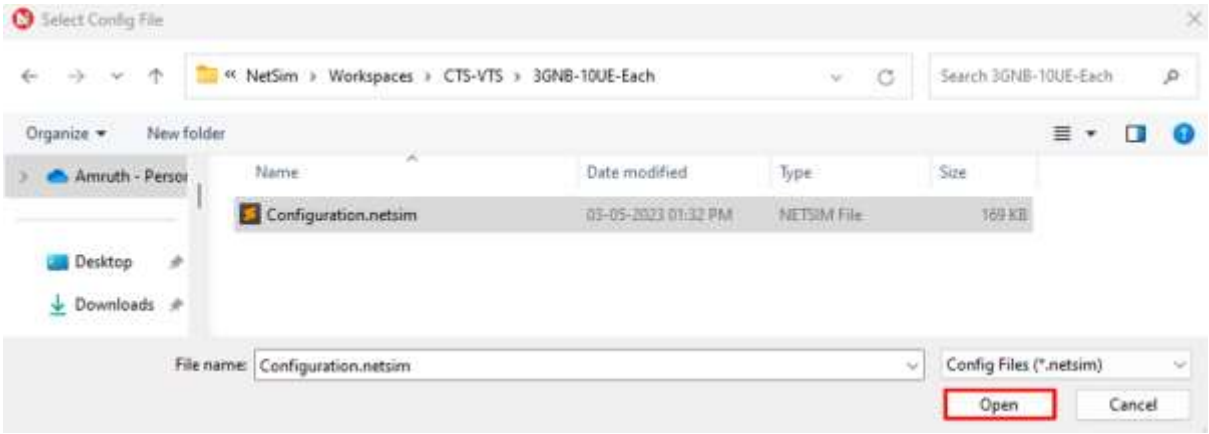

Fig 2: Browse the configuration.netsim file.

5. Now you can see that your Graph plot has been plotted for the configuration file we have selected.

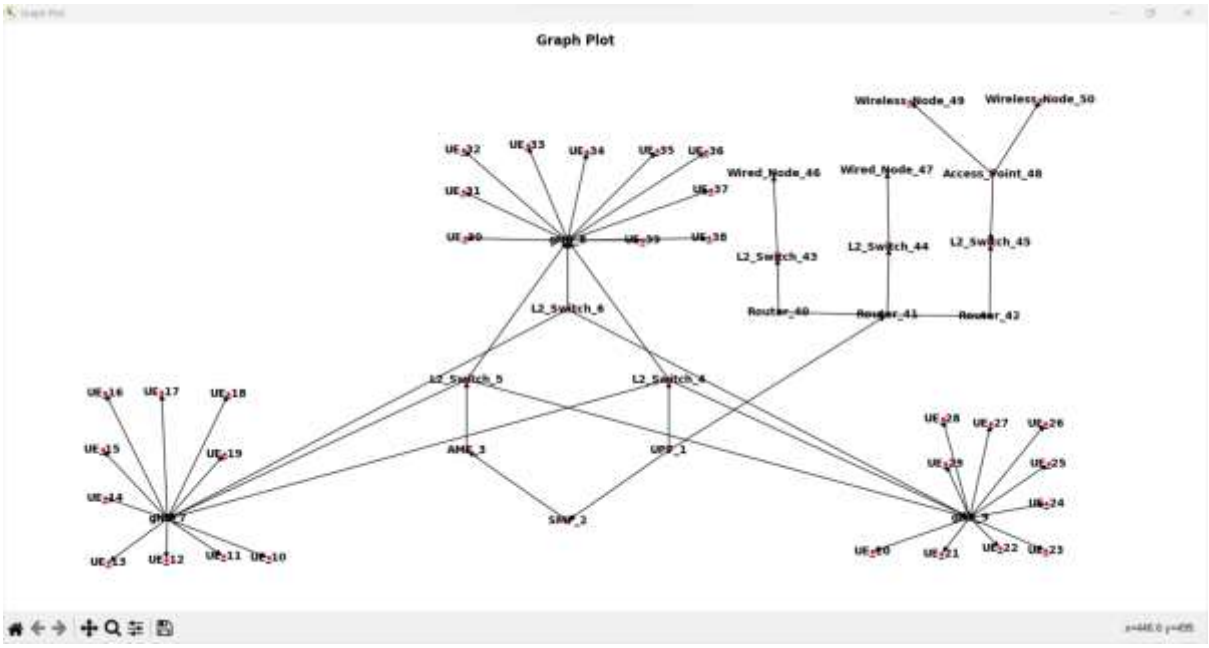

Fig 3: Example of graph plot scenario plotted for 3 gNB and 10 UE each gNB.

Note: We can observe that the scenario will be inverted in graph plot utility because in NetSim Scenarios will be created at positive quadrant of graph.