If this is your First-Time-Use of MAPS™ LTE eGTP (S11 interface) application, then we recommend you to follow all the steps explained in MAPS-LTE-eGTP-Quick-Install-Guide to install MAPS™ LTE eGTP application before proceeding with the steps below.

Verification

Functional verification of MAPS-LTEeGTP application requires a system with 2 NIC cards for testing. MAPS-LTEeGTP is configured as **MME (Mobility Management Entity)** on one NIC and as **SGW (Serving Gateway)** on the other.

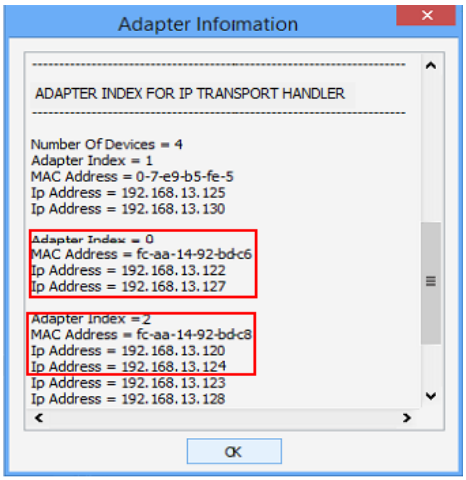
Note down the IP address of NIC1 and NIC2, in this example the IP addresses used and configured are:

- NIC1 IP address is 192.xx.xx.124, and configured as SGW
- NIC2 IP address is 192.xx.xx.122, and configured as MME

***Note:** In this test scenario, we have configured MAPS™ LTEeGTP as MME generating calls and SGW to receive calls.

First MAPS™ LTE eGTP (GUI) – (SGW)

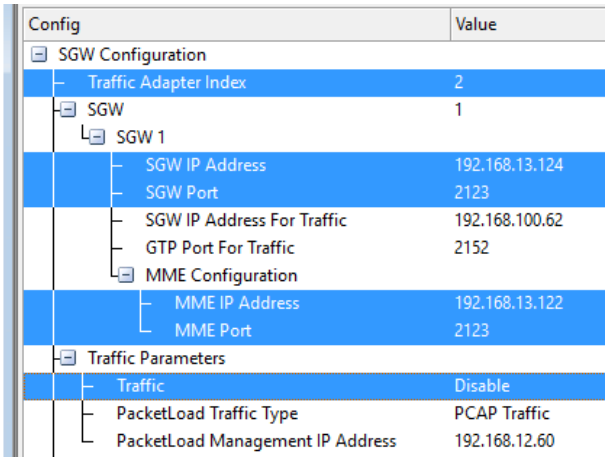
- Right-click on the **MAPS-LTEeGTP** application using shortcut icon created on the desktop and select **'Run as Administrator'**. This instance of MAPS™ is configured for ***Call Reception***



- While invoking the first **MAPS-LTEeGTP** instance, verify the following in the Protocol Selection window -
  - Protocol Standard is set to **LTE eGTP**
  - Protocol Version to **RELEASE 9**
  - Select Node as **Serving Gateway.** Click **Ok**

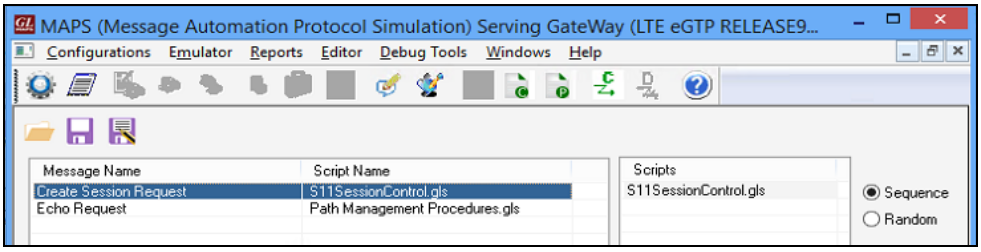
- By default, **Testbed Setup** window is displayed. Click and select **TestBedDefault_S11** and check for the parameter default values as listed below:

  - The **Display Adapter Info** option from the **Help** menu displays all the network adapters available in the system. Choose and set the **Traffic Adapter Index** value displayed against the IP address in use.



  - Set **SGW IP Address** to 192.xx.xx.124 (NIC1 IP address)
  - Set **SGW Port** to 2123
  - Set **MME IP Address** to 192.xx.xx.122 (NIC2 IP address)
  - Set **MME Port** to 2123
  - Traffic = Disable
  - Click **Save** button and save the changes to the same the **TestBedDefault_S11** configuration file.

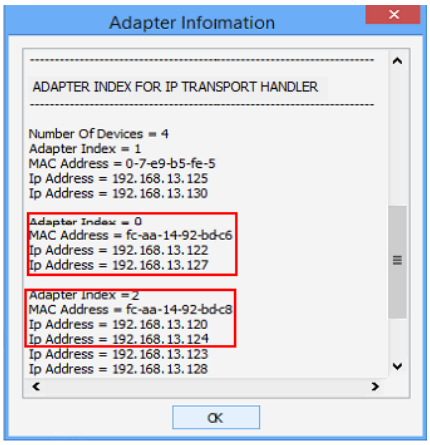
- On the same **MAPS-LTEeGTP** main window, from **Configuration** menu → select **Incoming Call Handler Configuration** and invoke the window. Verify that **S11SessionControl.gls** script is set against **Create Session Request** message. Exit from the window.



Second MAPS™ LTEeGTP (GUI) – (MME)

- Right-click on the **MAPS-LTEeGTP** application using shortcut icon created on the desktop and select **'Run as Administrator'**. This instance of MAPS™ is configured for ***Call Generation.***

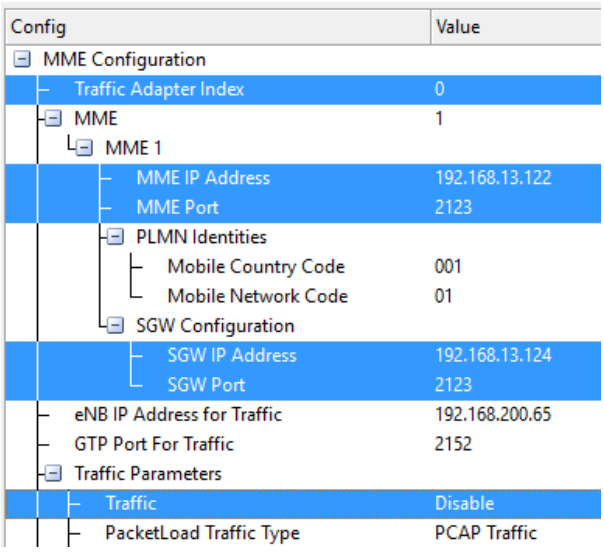
- While invoking the second **MAPS-LTEeGTP** instance, verify the following in the Protocol Selection window -
  - **Protocol Standard** is set to **LTE eGTP**
  - **Protocol Version** to **RELEASE 9**
  - Select **Node** as **MME.** Click **Ok**

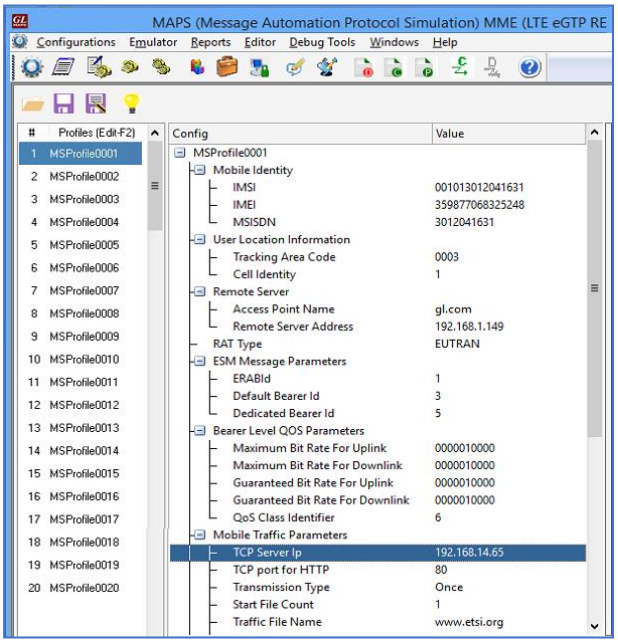


- By default, **Testbed Setup** window is displayed loaded with **TestBedDefault** configuration. Verify and validate the following parameter settings:

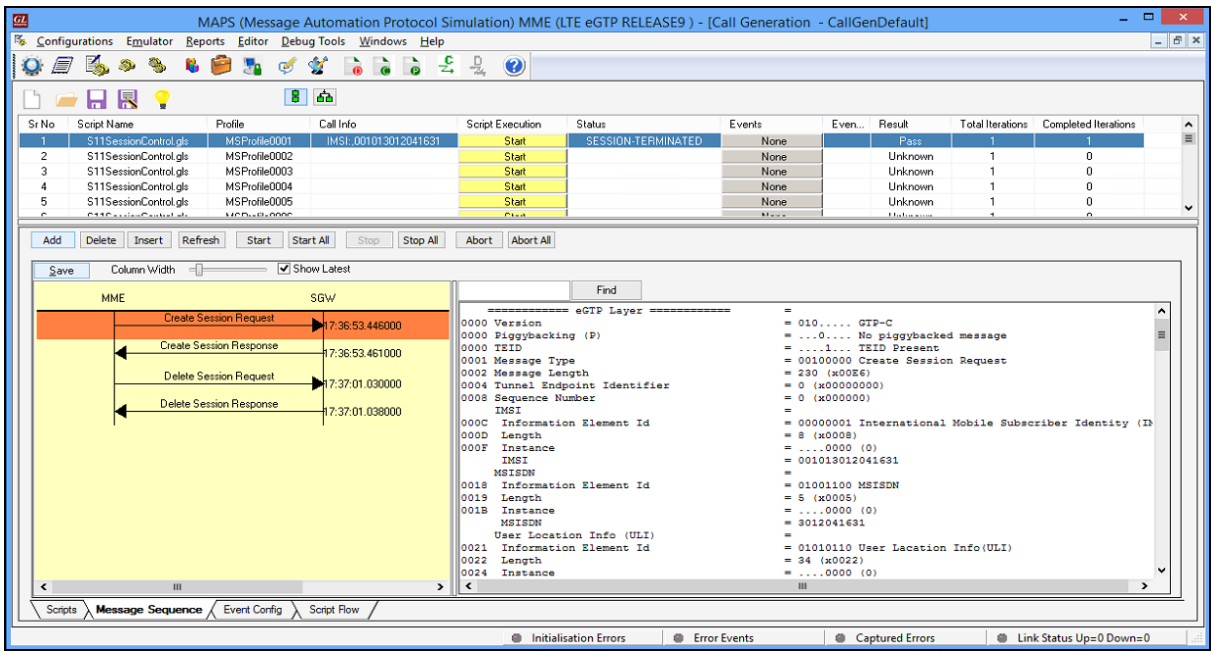
  - The **Display Adapter Info** option from the **Help** menu displays all the network adapters available in the system. Choose and set the **Traffic Adapter Index** value displayed against the IP address in use.

  - Set **MME IP Address** to 192.xx.xx.122 (NIC2 IP address)
  - Set **MME Port** to 2123
  - Set **SGW IP Address** to 192.xx.xx.124 (NIC1 IP address)
  - Set **SGW Port** to 2123
  - Traffic = Disable
  - Click **Save** button and save the changes to the same the **TestBedDefault** file.





- From MAPS™ main GUI, select **Editors → Profile Editor**, invoke the window as shown in the figure.
- Click and select **MS_Profile** configuration file.
- Verify and validate the parameter settings required to get started with the call simulation.
- Close the window or exit the profile editor.
- Start the testbed on both the MAPS instances (SGW and MME).
- In the second **MAPS-LTEeGTP** (MME) instance, click the ***Call Generation*** icon on main window, and invoke the ***Call Generation*** window.
  - By default, you will observe multiple call instances loaded with **S11SessionControl.gls** scripts and **MSProfile00**** profiles. **Note:** If the profile is not loaded, click on the call instance in the Profile column and select the configured **MSProfile0001** profile and set it for the call instance.
  - Select the call instance loaded with **S11SessionControl.gls** script and **MSProfile0001** profile in the Call Generation window and click Start button to initiate the call generation.
- Wait for the calls to terminate and verify the call flow under the **Message Sequence** tab at both generation and reception end.
- Select any message in the ladder diagram and observe the respective decode message on the right pane for the respective message.



- Return to first instance of **MAPS-LTEeGTP** (SGW), click icon and invoke **Call Reception** window, observe that the calls are automatically received running the Rx script**.**