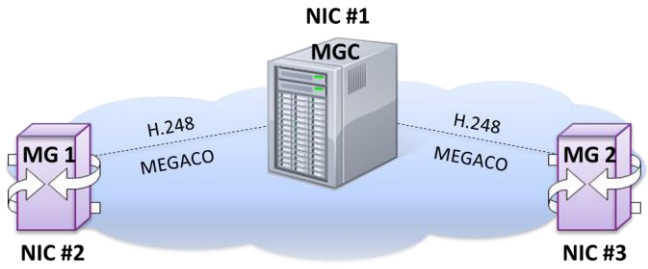
If this is your First-Time-Use of MAPS™ Megaco application, then we recommend you to follow all the steps explained in MAPS- Megaco-Quick-Install-Guide to install MAPS™ Megaco application before proceeding with the steps below.

Verification

For functional verification of MAPS™ MEGACO user needs to have 3 PCs with single NIC or a single PC with 3 NIC ports. If you are using multiple PCs, MAPS™ MEGACO software and licenses must be installed on all PCs (perform this only if you have purchased multiple MAPS™ MEGACO products).

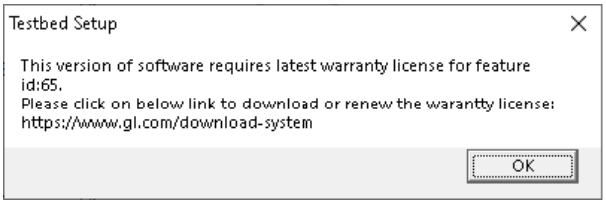
MAPS™ Megaco can be configured to simulate **Trunking Gateway (TGW)**. While simulating TGW the call is initiated from the MAPS™ MGC towards MAPS™ MG1 and MAPS™ MG2 controlling the MGs.

The configuration explained below allows **MAPS™ MEGACO** application to act as **MGC** (Media Gateway Controller) as well as **MG** (Media Gateway) nodes.



MAPS™ MEGACO configured as MGC

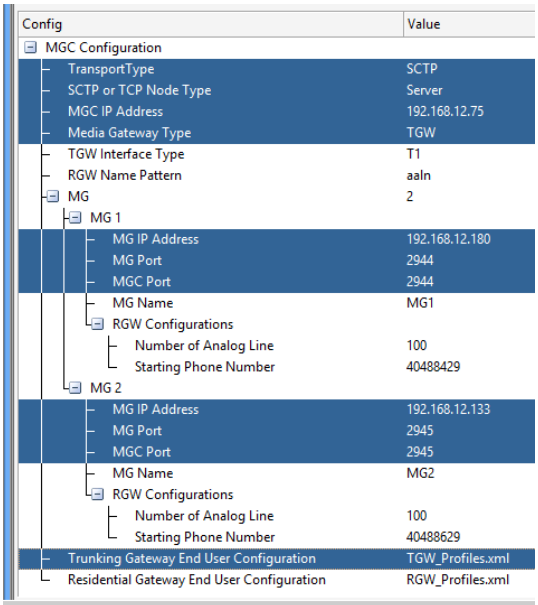
- Right-click on **MAPS-MEGACO** application shortcut icon created on the desktop and select 'Run as Administrator'.
- **Note:** The **"Warranty Error"** as shown in the figure may be prompted, when the user tries to start the testbed, either the **Warranty licenses** are not installed or the license is expired. Ensure that the warranty license (**GLSupportWarrantyLicenseInstaller.exe**) is installed and confirm that **PKS122 (MAPS™ H.248)** is listed in **Warranty Application List.**
  Refer to ***MAPS-MEGACO-Quick-Install-Guide***



- While invoking the second MAPS-MEGACO instance, verify the following in the Protocol Selection window
  - Protocol Standard as **MEGACO**
  - Protocol Version as **IETF**
  - Select Node as **Media Gateway Controller**
  - Click **OK**
- By default, **Testbed Setup** window is displayed.
- For MGC, click and select the **TestBedDeault_TGW_MGC** configuration file.
- Verify and validate the following parameter settings as listed below:
  - Set Transport Type as **SCTP**, it can be UDP*, TCP, or SCTP

  ***Note:** If the Transport Type selected as UDP, ensure that proper UDP port numbers are specified.

  - Set **SCTP or TCP Node Type** to **Server**
  - Set **MGC IP** to Source IP address of NIC #1 (for example, 192.168.12.75)
  - Set **Media Gateway Type** to **Trunking Gateway**
  - Set MG1 IP address to Source IP address of NIC #2 (for example, 192.168.12.180)
  - Set **MG Port** to **2944**

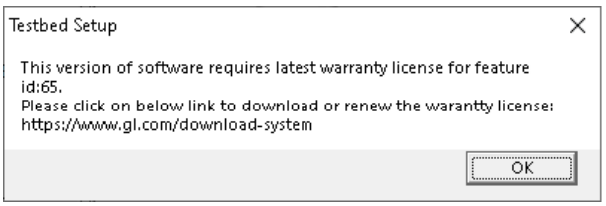


- Set **MGC Port** to **2944**
- Set MG Name as "MG1"
- Set MG2 IP address to Source IP address of NIC #3 (for example, 192.168.12.133)
- Set MG Name as "MG2"
- Click on the **Save** button.

- **Start** the testbed setup on MGC instance.

MAPS™ MEGACO configured as MG #1

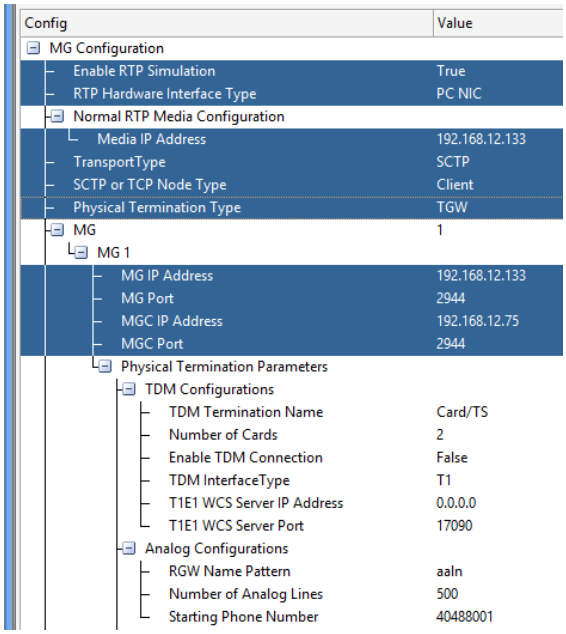
- Right-click on **MAPS-MEGACO** application shortcut icon created on the desktop and select 'Run as Administrator'.
- **Note:** The **"Warranty Error"** as shown in the figure may be prompted, when the user tries to start the testbed, either the **Warranty licenses** are not installed or the license is expired. Ensure that the warranty license (**GLSupportWarrantyLicenseInstaller.exe**) is installed and confirm that **PKS122 (MAPS™ H.248)** is listed in **Warranty Application List.**
  Refer to ***MAPS-MEGACO-Quick-Install-Guide***



- While invoking the first MAPS-MEGACO instance, verify the following in the Protocol Selection window -
  - Protocol Standard as **MEGACO**
  - Protocol Version as **IETF**
  - Select Node as **Media Gateway**
  - Click **OK**
- By default, **Testbed Setup** window is displayed. For MG1, click and select the **TestBedDefault_TGW_MG1** configuration file.
- Verify and validate the following parameter settings as listed below:
  - Set **Enable RTP Simulation = True**
  - Set **RTP Hardware Interface Type = PC NIC**
  - Set **Media IP Address** to Source IP address of NIC #2 (for example, 192.168.12.180)
  - Set Transport Type as **SCTP**, it can be UDP*, TCP, or SCTP

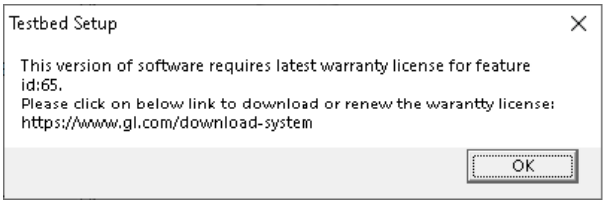
  ***Note:** If the Transport Type selected as UDP, ensure that proper UDP port numbers are specified.

  - Set **SCTP or TCP Node Type** to **Client**
  - Set **MG IP** to Source IP address of NIC #2 (for example, 192.168.12.180)
  - Set **MG Port** to **2944**
  - Set **MGC IP** to Source IP address of NIC #1 (for example, 192.168.12.75)
  - Set **MGC Port** to **2944**
  - Set **Physical Termination Type** to **TGW**
  - Click on the **Save** button.



MAPS™ MEGACO configured as MG #2

- Right-click on **MAPS-MEGACO** application shortcut icon created on the desktop and select 'Run as Administrator'.
- **Note:** The **"Warranty Error"** as shown in the figure may be prompted, when the user tries to start the testbed, either the **Warranty licenses** are not installed or the license is expired. Ensure that the warranty license (**GLSupportWarrantyLicenseInstaller.exe**) is installed and confirm that **PKS122 (MAPS™ H.248)** is listed in **Warranty Application List.**
  Refer to ***MAPS-MEGACO-Quick-Install-Guide***

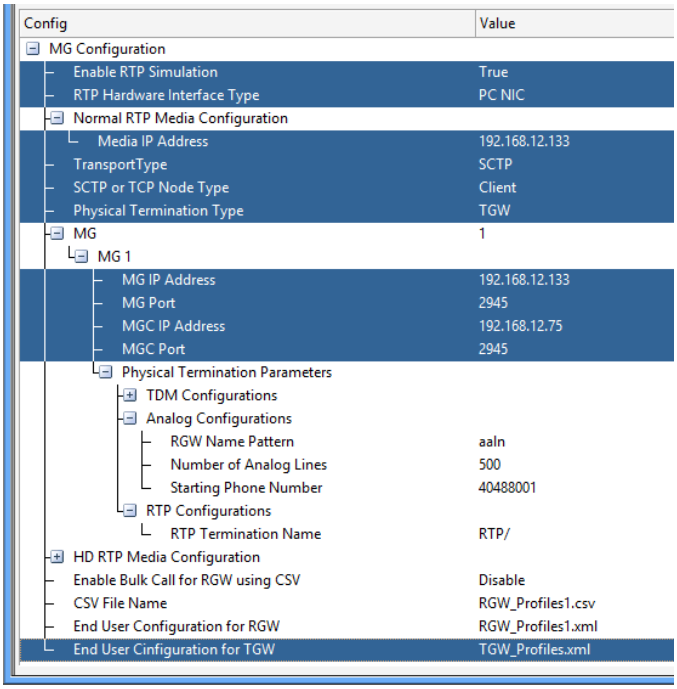


- While invoking the first MAPS-MEGACO instance, verify the following in the Protocol Selection window -
  - Protocol Standard as **MEGACO**
  - Protocol Version as **IETF**
  - Select Node as **Media Gateway**
  - Click **OK**

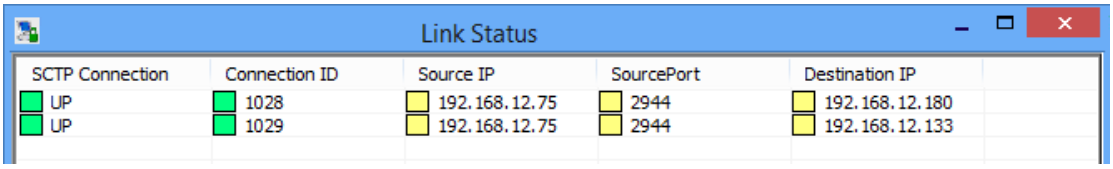
- By default, **Testbed Setup** window is displayed.
- For MG2, click and select the **TestBedDefault_TGW_MG2** configuration file.
- Verify and validate the following parameter settings as listed below:
  - Set **Enable RTP Simulation = True**
  - Set **RTP Hardware Interface Type = PC NIC**
  - Set **Media IP Address** to Source IP address of NIC #3 (for example, 192.168.12.133)
  - Set **TransportType** as **SCTP**, it can be UDP*, TCP, or SCTP

  ***Note:** If the Transport Type selected as UDP, ensure that proper UDP port numbers are specified.

  - Set **SCTP or TCP Node Type** to **Client**
  - Set **MG IP** to Source IP address of NIC #3 (for example, 192.168.12.133)
  - Set **MG Port** to **2944**
  - Set **MGC IP** to Source IP address of NIC #1 (for example, 192.168.12.75)
  - Set **MGC Port** to **2944**
  - Set **Physical Termination Type** to **TGW**
  - Click on the **Save** button.



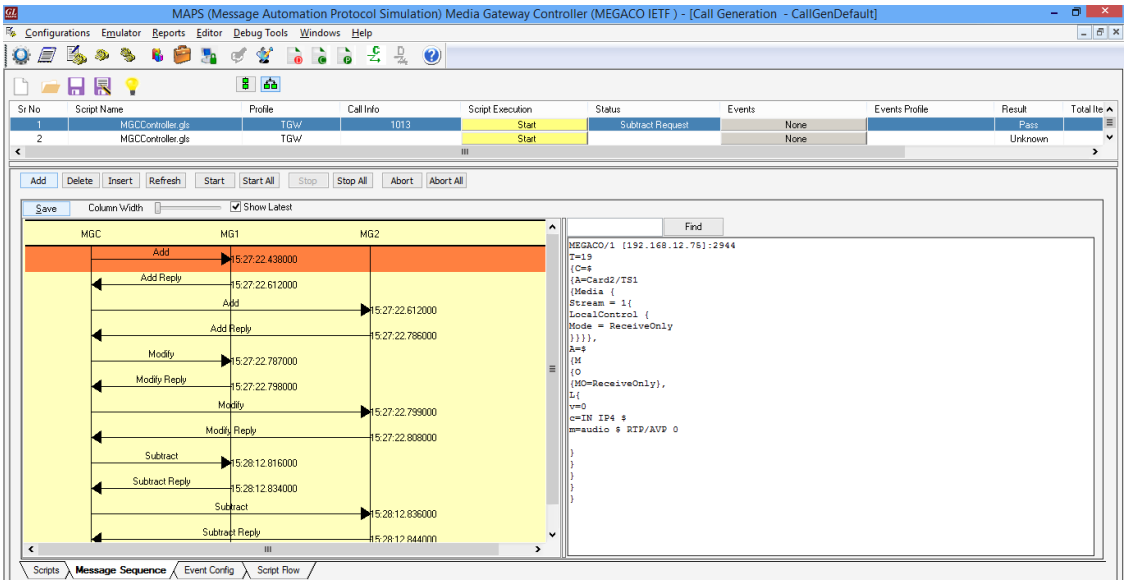
- Now, start Testbed Setup on both **MG1** and **MG2**. Once all the instances are started, **on MGC main window (first instance)** go to Link Status under Report menu and observe that Link Status is "UP" in all 3 instances.



Trunking Gateway (TGW) - Call Simulation from MGC to TGW1 and TGW2

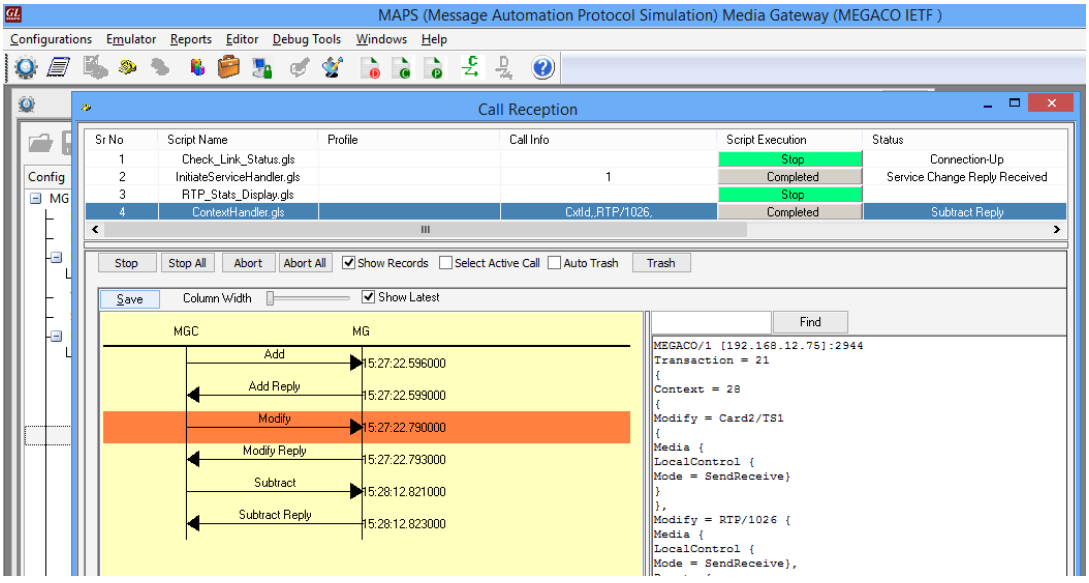
- From the MAPS-MEGACO (MGC) main window, click the ***Call Generation*** icon and invoke the ***Call Generation*** window.
- By default, you will observe call instances loaded with **MGCController.gls** script and **TGW** profile displayed in the Call Generation window. **Note:** If by default the profiles are not loaded in the call instances, then the user should manually double-click the field in the Profiles column and select the configured profile from the list.
- Select the call instance and click

button to execute the script.



MGC Call Generation

- On the MAPS-MEGACO MG1 and MG2 main window, click ***Call Reception*** icon and observe that the calls are being received running the **ContextHandler.gls** answer scripts.
- Once call gets terminated, verify the **Message Sequence Flow** by selecting the call objects at both generation and reception end.



MG Call Reception