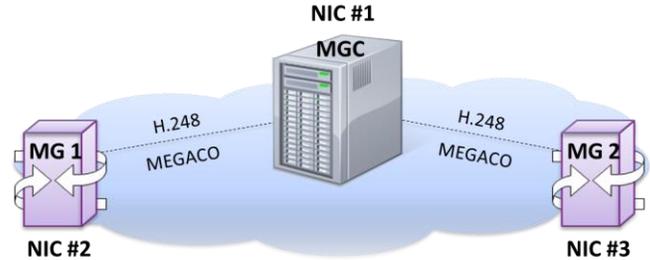


If this is your First-Time-Use of MAPS™ Megaco application, then we recommend you to follow all the steps explained in MAPS- Megaco-Quick-Install-Guide to install MAPS™ Megaco application before proceeding with the steps below.

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 **TestBedDefault_TGW_MGC** configuration file.

- Verify and validate the following parameter settings as listed below:

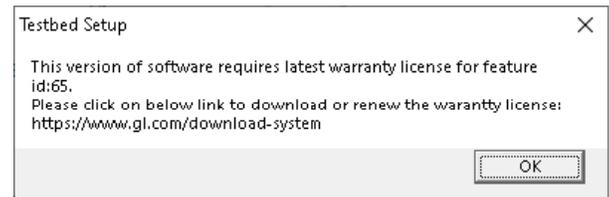
- Set Transport Type as **SCTP**, it can be **UDP***, **TCP**, or **SCTP**
- *Note:** If the Transport Type selected as **UDP**, ensure that proper UDP port numbers are specified.
- Set **SCTP or TCP Node Type** to **Server**
- Set **MGC IP** to Source IP address of NIC #1 (for example, 192.168.12.75)
- 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**

Config	Value
MGC Configuration	
TransportType	SCTP
SCTP or TCP Node Type	Server
MGC IP Address	192.168.12.75
Media Gateway Type	TGW
TGW Interface Type	T1
RGW Name Pattern	aan
MG	2
MG 1	
MG IP Address	192.168.12.180
MG Port	2944
MGC Port	2944
MG Name	MG1
RGW Configurations	
Number of Analog Line	100
Starting Phone Number	40488429
MG 2	
MG IP Address	192.168.12.133
MG Port	2945
MGC Port	2945
MG Name	MG2
RGW Configurations	
Number of Analog Line	100
Starting Phone Number	40488629
Trunking Gateway End User Configuration	TGW_Profiles.xml
Residential Gateway End User Configuration	RGW_Profiles.xml

- 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.

Config	Value
[-] MG Configuration	
[-] Enable RTP Simulation	True
[-] RTP Hardware Interface Type	PC NIC
[-] Normal RTP Media Configuration	
[-] Media IP Address	192.168.12.133
[-] TransportType	SCTP
[-] SCTP or TCP Node Type	Client
[-] Physical Termination Type	TGW
[-] MG	1
[-] MG 1	
[-] MG IP Address	192.168.12.133
[-] MG Port	2944
[-] MGC IP Address	192.168.12.75
[-] MGC Port	2944
[-] Physical Termination Parameters	
[-] TDM Configurations	
[-] TDM Termination Name	Card/TS
[-] Number of Cards	2
[-] Enable TDM Connection	False
[-] TDM InterfaceType	T1
[-] T1E1 WCS Server IP Address	0.0.0.0
[-] T1E1 WCS Server Port	17090
[-] Analog Configurations	
[-] RGW Name Pattern	aaln
[-] Number of Analog Lines	500
[-] Starting Phone Number	40488001

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](#)

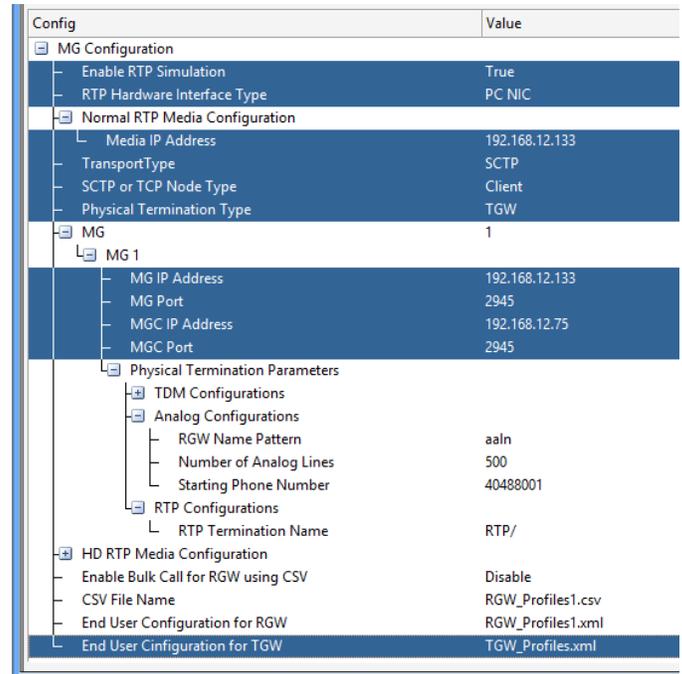
- While invoking the first MAPS-MEGACO instance, verify the following in the **Protocol Selection** window -
 - Protocol Standard as **MEGACO**
 - Protocol Version as **IETF**
 - Select Node as **Media Gateway**
 - Click **OK**

- 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:

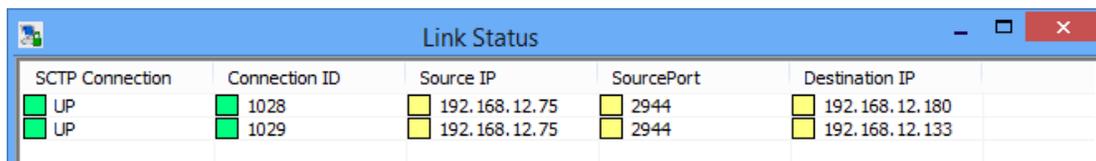
- Set **Enable RTP Simulation = True**
- Set **RTP Hardware Interface Type = PC NIC**
- Set **Media IP Address** to Source IP address of NIC #3 (for example, 192.168.12.133)
- Set **TransportType** as **SCTP**, it can be **UDP***, **TCP**, or **SCTP**

***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.



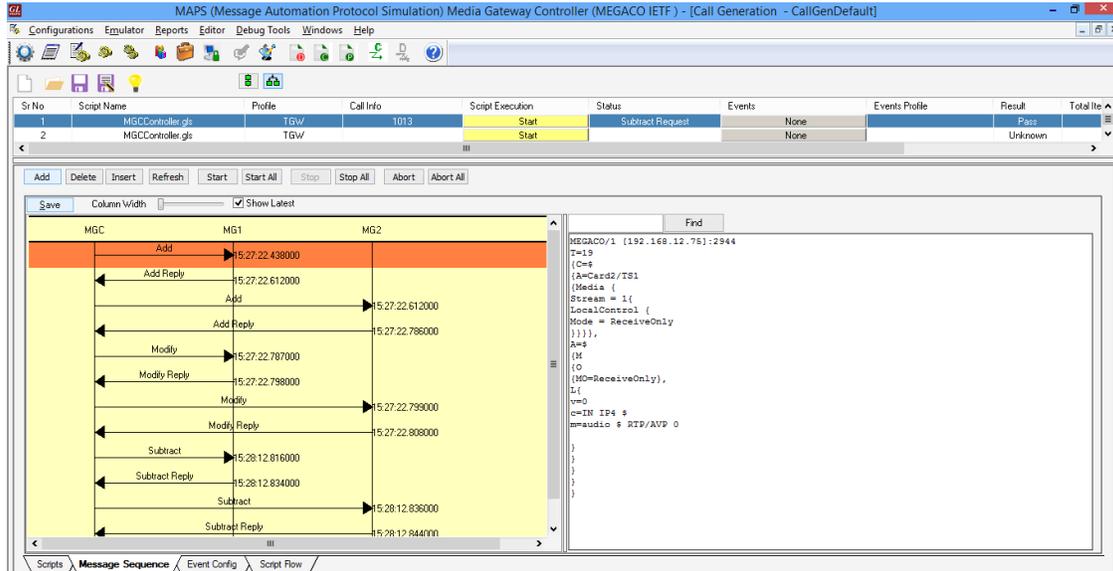
- Now, start Testbed Setup on both **MG1** and **MG2**. Once all the instances are started, on **MGC main window (first instance)** go to **Link Status** under **Report** menu and observe that **Link Status** is "UP" in all 3 instances.



SCTP Connection	Connection ID	Source IP	SourcePort	Destination IP
UP	1028	192.168.12.75	2944	192.168.12.180
UP	1029	192.168.12.75	2944	192.168.12.133

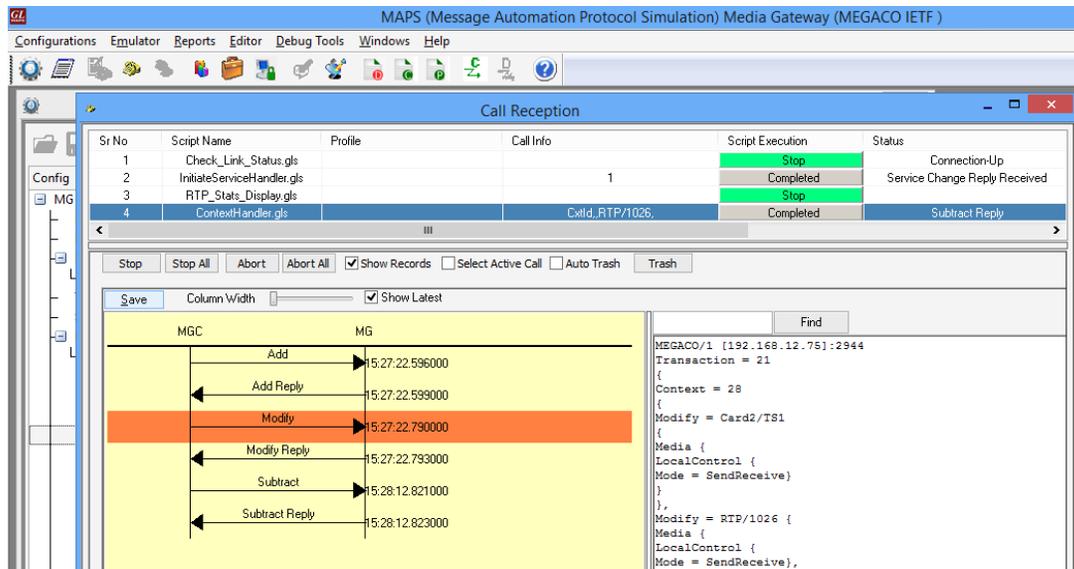
Trunking Gateway (TGW) - Call Simulation from MGC to TGW1 and TGW2

- 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 **MGCCController.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 **Start** 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