

*It is assumed that the T1 E1 Analyzer Hardware, Software and License installations are already performed referring to the purchased Hardware Installation Guide.*

### Optional License Installation


- Execute **GLHWLicenseInstaller.exe** from the USB Installation Stick to install hardware licenses.
- Follow the onscreen instructions and complete the installation.
- It is recommended to reboot the system after the software installation. If you had problems with installation so far, refer to [T1 E1 tProbe Hardware Quick Install Guide](#) (or) contact GL Communication for assistance.
- You can verify if the required licenses are installed. Navigate to **C:\Program Files\GL Communications Inc\GLDONGLE** directory, execute **appl\_list.exe** and confirm the following licenses:
  - PEA624 (MAPS FXO FXS Emulator for E1 tProbe)
  - PTA624 (MAPS FXO FXS Emulator for T1 tProbe)

### MAPS™ FXO FXS CAMA Monitoring Verification

For functional verification, one instance (**PC #2**) of **MAPS™ FXO FXS** application is configured in loopback mode to simulate traffic scenario and another instance (**PC #1**) of **MAPS™ FXO FXS** application is configured to monitor **FXO** line.

Connect RJ11 cable to FXO and FXS ports of tProbe™ device #2 into RJ11 splitter and connect RJ11 cable from the splitter to the FXS port of tProbe™ device #1. Refer to the below figure.

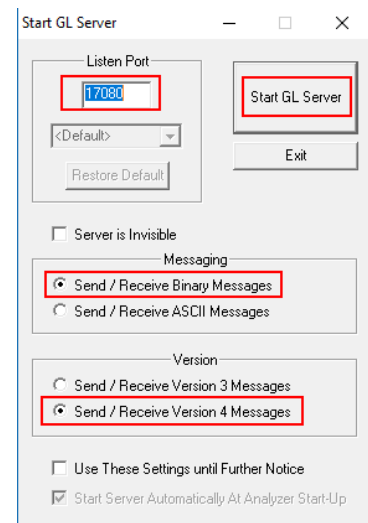


- NOW connect **tProbe™** unit of PC#1 and PC#2 to power adapter and AC power.
- Then connect the tProbe™ unit to USB connector on PC#1 and PC#2 using the USB cable provided with the device.
- The tProbe™ device is recognized on both the PCs and the hardware device driver is installed at this point.
- Double-click on the **T1 E1 Analyzer** shortcut icon  created on the desktop on PC #1 and PC #2 (or) from the installation directory, click on **UsbNGT1(E1).exe** and launch T1 E1 Analyzer application.


**Note:** The application may take some time to get started due to hardware and software initializations.

- On both the PCs, from T1/E1 Analyzer main window, invoke the **WCS Server: Special Applications → Windows Client Server (WCS) → WCS Server**.

- Configure WCS as follows -
  - Listen Port = 17090 (for E1 systems); 17080 (for T1 systems)
  - Messaging = Binary
  - Version = 4
  - Click on **Start GL Server** button.



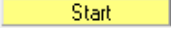


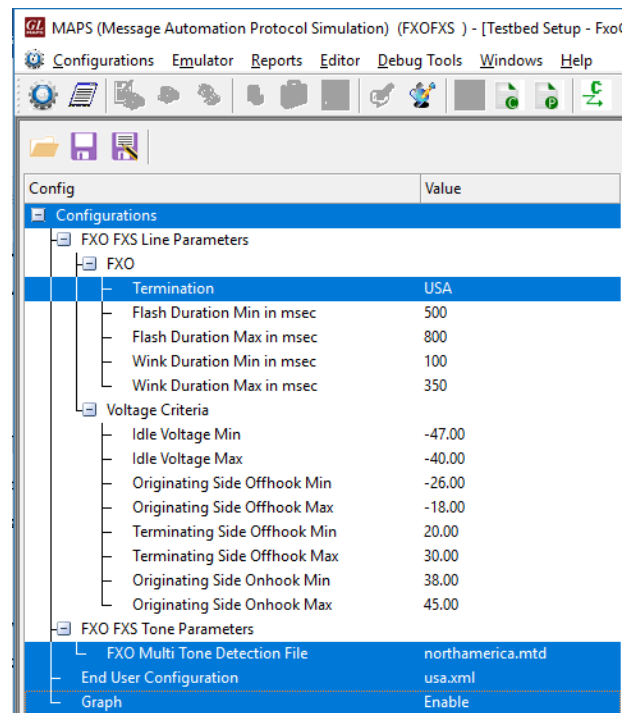
### CAMA FXO Call Monitoring (PC#1)

- From T1 E1 Analyzer main window, from **Special Applications** menu → select **Protocol Emulation** → **MAPS™ FXOFXS Emulator**.
- By default, Testbed Setup widow is displayed. Click  and select **'FxoCamaMonitor'** and verify the following parameters default values:






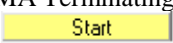
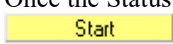
- FXO → Termination = **USA**
- FXO Multi Tone Detection File = **northamerica.mtd**
- End User Configuration = **usa.xml**
- Graph = **Enable**

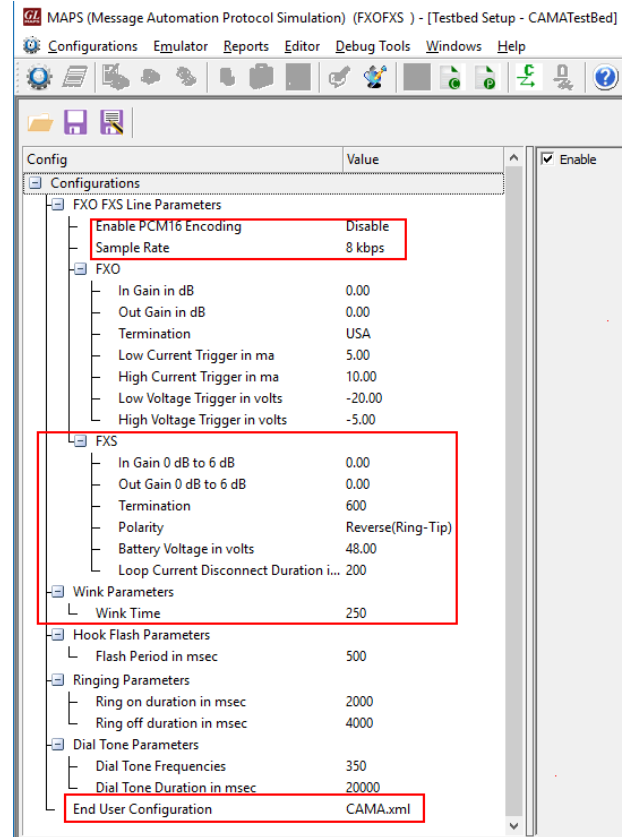
- **Start** the test bed setup

- From MAPS™ main GUI, click  **Call Generation** icon and invoke the call generation window.
- Click  and select **CAMAMonitoring** file in the **Open Configuration** window. Click **OK**.
- Click yellow  **Start** button to initiate the call sessions.
- Click **Reports** → **User defined Graphics** to monitor the FXO call once the call is placed in PC #2.

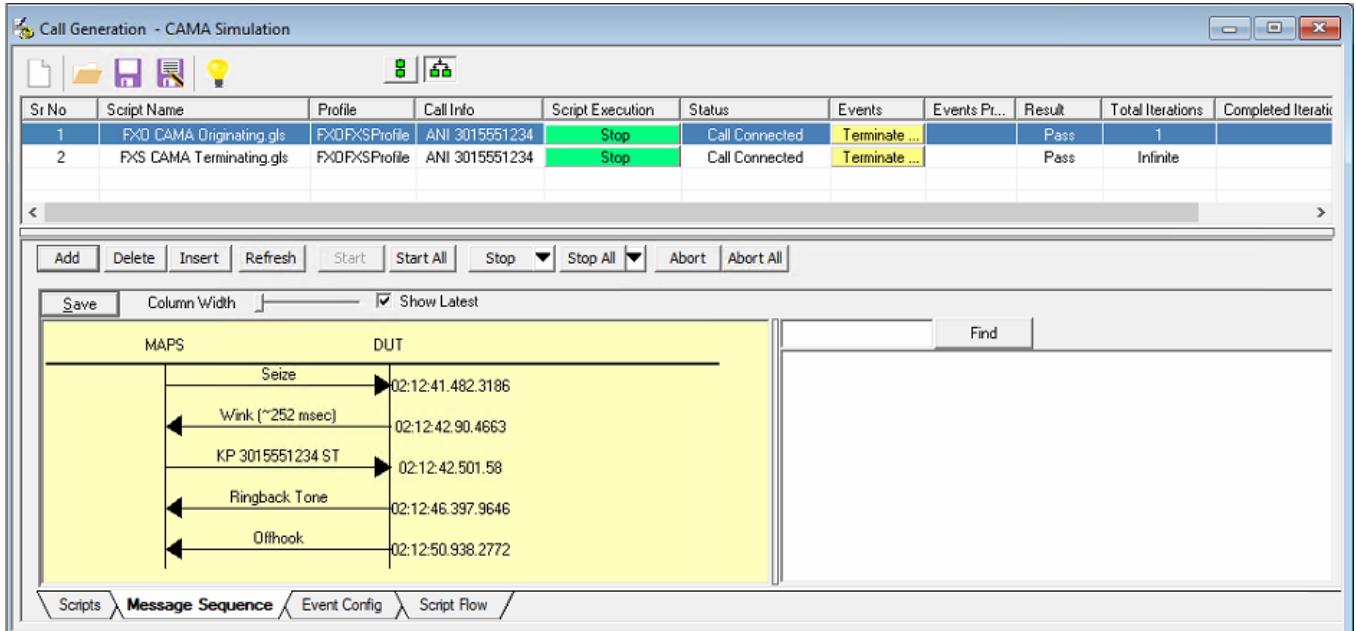


**CAMA Call Simulation (PC#2)**

- From T1 E1 Analyzer main window, from **Special Applications menu** → select **Protocol Emulation** → **MAPS™ FXOFXS Emulator**.
- By default, Testbed Setup widow is displayed. Click  and select 'CAMATestBed' and verify the highlighted values.
- **Start** the test bed setup
- From MAPS FXOFXS main window, select “**Editor**” menu → invoke **Profile Editor** window:
  - Click  and select **CAMA** profile. Verify the following parameter default values:
    - FXO Card Number = 1
    - FXS Card Number = 2
    - Rx Timeslots = 1
    - Tx Timeslots = 5
    - Termination = PSAP/Selective Router as required. In this example, we have selected “PSAP”.
- Click  **Save** button.
- From MAPS™ main GUI, click  **Call Generation** icon and invoke the call generation window.
- Click  and select **CAMA Simulation** file in the **Open Configuration** window. Click **OK**.
- On FXO CAMA Terminating.gls row, double-click under Total Iterations and enter “\*” to make iterations infinite.
- Click yellow  button on FXO CAMA Terminating.gls file to initiate the Terminating call sessions first.
- Once the Status is displayed as “FXS Session Started” on FXO CAMA Terminating.gls file. Click on **Start** the yellow  button on FXO CAMA Originating.gls file.



- Wait till the calls are completed and verify the **Message Sequence** flow for on the 'FXO CAMA Terminating.gls' call instance in the GUI.



- Observe the **User Defined Graph** on PC #1 (CAMA FXO Call Monitoring). Refer to the below figure.

