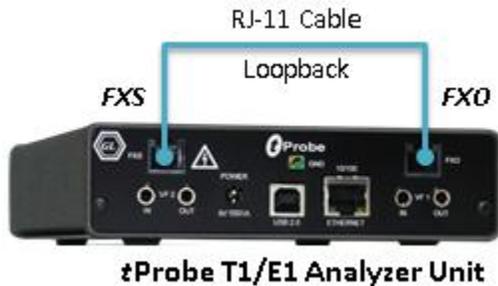


It is assumed that the T1/E1 Analyzer Hardware, Software and License installations are already performed referring to the purchased Hardware Installation Guide.

MAPS™ FXO FXS Application Verification

For functional verification, single instance of MAPS™ FXO FXS application is configured in loopback mode to simulate Fax traffic scenario from FXO to FXS terminal and vice versa.

Cross-connect FXO and FXS ports on the Hardware unit back-to-back with RJ-11 cable.



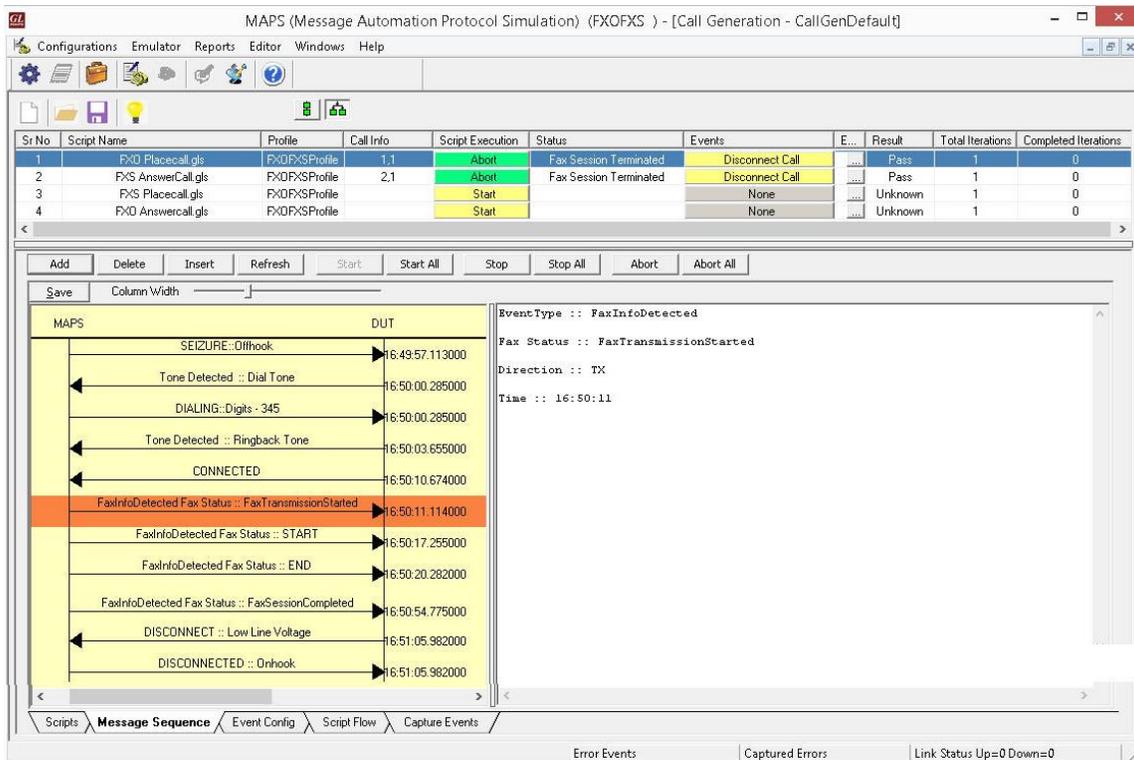
- Click on the **T1/E1 Analyzer** icon created on the desktop (or) from the installation directory, click on **UsbNGT1.exe** and launch T1/E1 Analyzer application.

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

- 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.
- 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 'USA TestBed' and verify the following parameters default values::
 - FXO → Termination = **USA**
 - Start Protocol = **Loop**
 - FXO Multi Tone Detection File = **northamerica.mtd**
 - End User Configuration = **usa.xml**
- From MAPS FXOFXS main window, select “**Editor**” menu → invoke **Profile Editor** window:
 - Click  and select **USA** profile. Verify the following parameter default values:
 - FXO Card Number = 1
 - FXS Card Number = 2
 - Rx Timeslots = 1
 - Tx Timeslots = 5
 - Click  **Save** button.

- In the same Profile Editor window, again click  and select **TrafficProfile**. From the LHS list, select **FXOProfile**. Set **Enable Traffic** to **AutoTraffic-Fax** and **Traffic Direction for AutoTraffic** to **Tx-Rx**. Click  **Save** button.
- Similarly, in the same Profile Editor window, from the LHS list, select **FXSProfile**. Set **Enable Traffic** to **AutoTraffic-Fax** and **Traffic Direction for AutoTraffic** to **Tx-Rx**. Click  **Save** button. Exit from the Profile Editor window.

- **Start** the test bed setup
- From MAPS™ main GUI, click  **Call Generation** icon and invoke the call generation window
- By default, you will observe multiple call instances loaded with **FXOPlacecall.gls**, **FXSAnswerCall.gls** scripts and **FXSPlacecall.gls**, **FXOAnswerCall.gls** scripts with **FXOFXSProfile** profiles.
- Verify that **Parallel Execution**  is enabled in the Call Generation window to execute the scripts simultaneously
- Click yellow **Start** button to initiate the call sessions. **Note:** Initiate the **FXS AnswerCall.gls** script first followed by the **FXO Placecall.gls** script.
- Wait till the calls are completed and terminated, and verify the **Message Sequence** flow for both the call instances in the GUI.
- Select any message in the ladder diagram and observe the respective decode message on the right pane for the respective message.



| Sr No | Script Name | Profile | Call Info | Script Execution | Status | Events | E... | Result | Total Iterations | Completed Iterations |
|-------|--------------------|----------------|-----------|------------------|------------------------|-----------------|---------|---------|------------------|----------------------|
| 1 | FXO Placecall.gls | FXO/FXSProfile | 1,1 | Abort | Fax Session Terminated | Disconnect Call | Pass | Pass | 1 | 0 |
| 2 | FXS AnswerCall.gls | FXO/FXSProfile | 2,1 | Abort | Fax Session Terminated | Disconnect Call | Pass | Pass | 1 | 0 |
| 3 | FXS Placecall.gls | FXO/FXSProfile | | Start | | None | Unknown | Unknown | 1 | 0 |
| 4 | FXO Answercall.gls | FXO/FXSProfile | | Start | | None | Unknown | Unknown | 1 | 0 |

| Time | Event |
|-----------------|--|
| 16:49:57.113000 | SEIZURE::Onhook |
| 16:50:00.285000 | Tone Detected :: Dial Tone |
| 16:50:00.285000 | DIALING::Digits - 345 |
| 16:50:03.655000 | Tone Detected :: Ringback Tone |
| 16:50:10.674000 | CONNECTED |
| 16:50:11.114000 | FaxInfoDetected Fax Status :: FaxTransmissionStarted |
| 16:50:17.255000 | FaxInfoDetected Fax Status :: START |
| 16:50:20.282000 | FaxInfoDetected Fax Status :: END |
| 16:50:54.775000 | FaxInfoDetected Fax Status :: FaxSessionCompleted |
| 16:51:05.982000 | DISCONNECT :: Low Line Voltage |
| 16:51:05.982000 | DISCONNECTED :: Onhook |

- Also, verify the received FAX (*.tif) file saved in the installation directory.