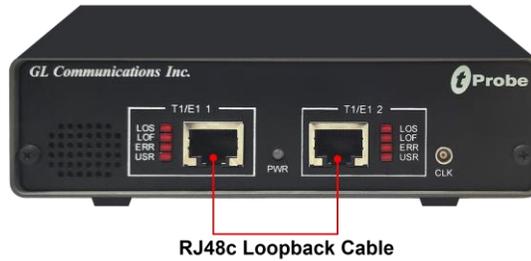


Before you proceed with the instructions below, ensure that you have performed the purchased T1 E1 Analyzer Hardware, Software, License and Warranty License installations referring to the respective Hardware Installation Guide.

Quick Verification

For functional verification, MAPS™ CAS application is configured on Card #1 and Card #2 in loopback mode on a single PC. The following steps explain MAPS™ CAS configuration to simulate CAS R1 Wink call scenario using T1 Analyzer.

Cross-connect T1 E1 Port #1 and Port #2 of the Hardware unit back-to-back using RJ48c loopback cable.



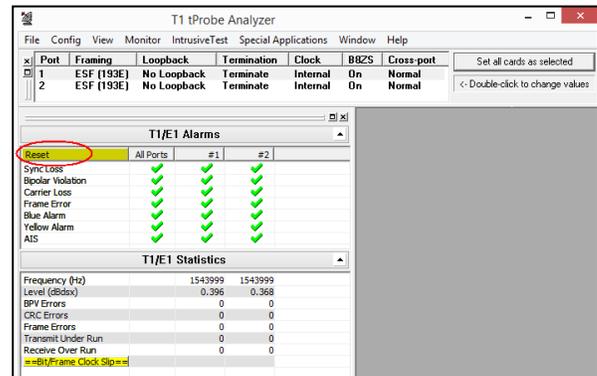
- Click on the **T1 E1 Analyzer** icon created on the desktop (or) from the installation directory, click on **UsbNGT1.exe** and launch T1 E1 Analyzer application.

Note:

- The application may take some time to get started due to hardware and software initializations.
- The "Warranty Error" as shown in the figure may be prompted, when the user tries to start the application, then you may not have installed the Warranty licenses, or the license has been expired. Refer to T1 E1 tProbe Hardware Quick Install Guide for installation of Warranty Licenses.



- Verify the following **Interface** settings in the T1 E1 main GUI
 - For **T1 Analyzer**, configure Port #1 and Port #2 with the following Framing = ESF, Loopback = No Loopback, Termination = Terminate, Clock = Internal, Cross Port = Normal
 - For **E1 Analyzer**, configure Port #1 and Port #2 with the following Framing = CAS, Loopback = No Loopback, Termination = Terminate, Clock = Internal, Cross Port = Normal
- Verify the **Sync and Alarm Status** between the ports are indicated in **Green** ✓ in **T1/E1 Alarms** pane. Click **Yellow Reset** button to reset the alarms.

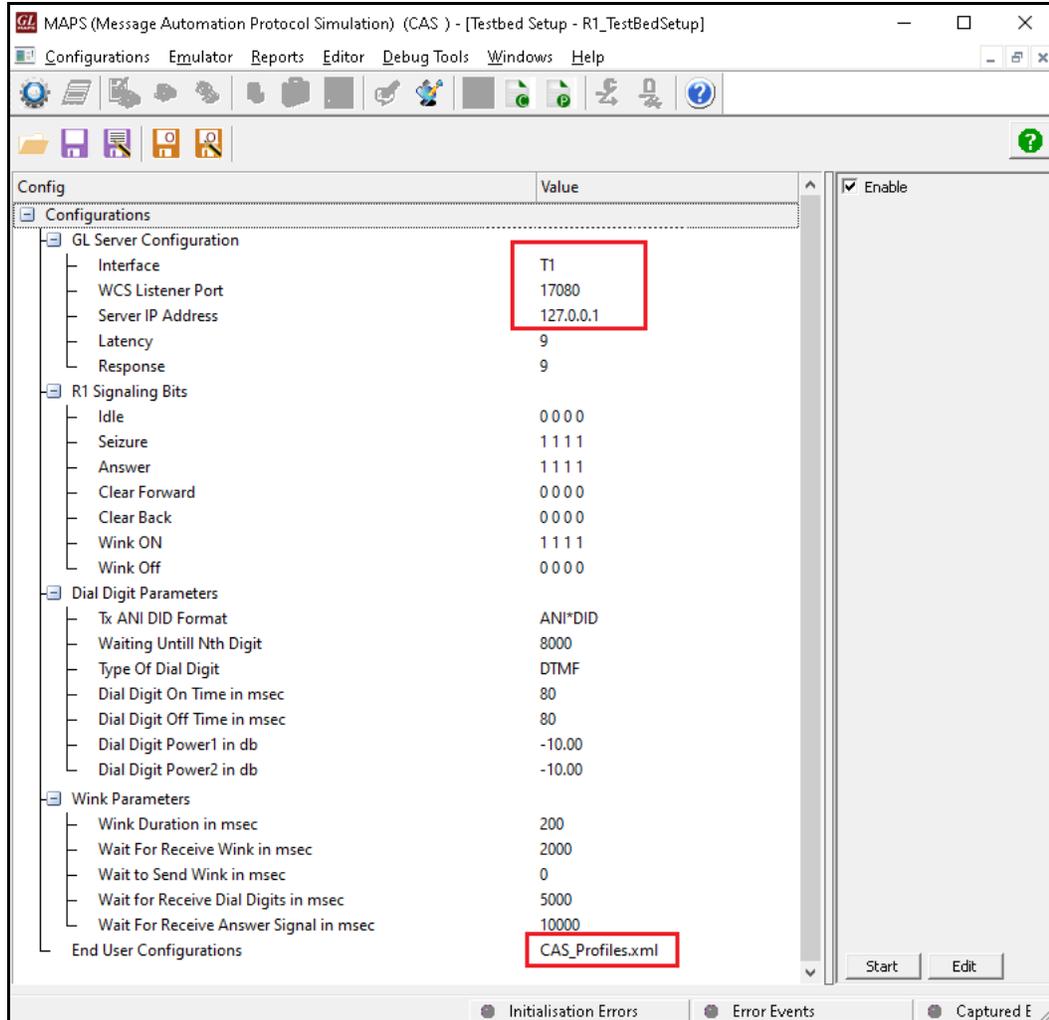


- From T1 E1 Analyzer main window, invoke the **WCS Server [Special Applications → Windows Client Server (WCS) → WCS Server]**.
- Configure WCS as follows:-
 - Listen Port = 17080 (for T1 systems); 17090 (for E1 systems)
 - Messaging = Binary
 - Version = 4
 - Click on **Start GL Server** button

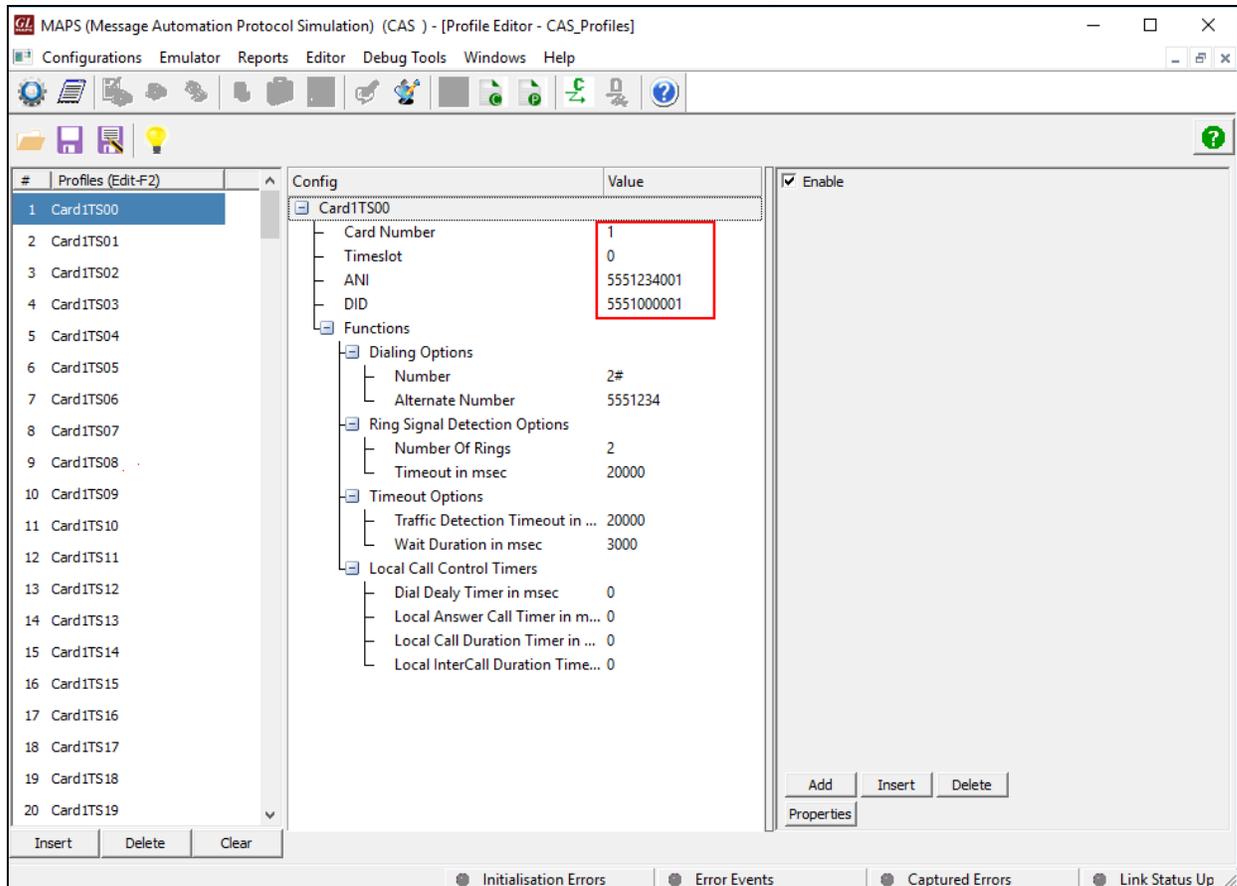


- From T1 E1 Analyzer main window, select **Special Applications → Protocol Emulation** to invoke MAPS CAS emulator.

- In the MAPS™ CAS window, on the default **Testbed Setup** window, click **Open Configuration**  and select **R1_TestBedSetup** and check for the following settings:
 - **Interface** = T1
 - **WCS Listener Port** = 17080 (for T1)
 - **Server IP Address** = 127.0.0.1

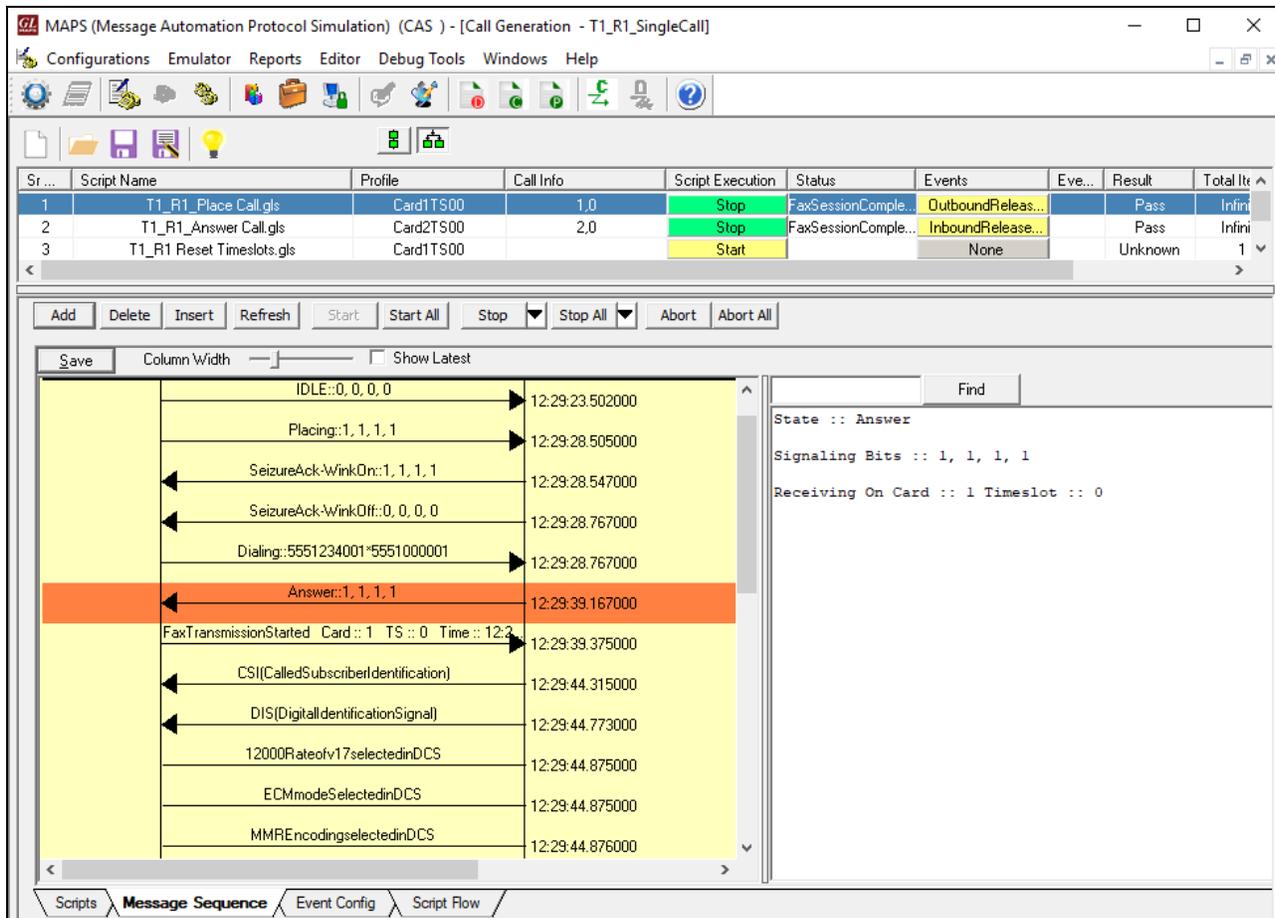


- In MAPS™ CAS main window, select **Editor** → **Profile Editor** to invoke profile editor window and verify the following parameter settings:
 - Click **Open Configuration** icon  and load “CAS_Profiles” file.
 - Select the **Card1TS00** profiles from the left pane.
 - Verify the **Card number = 1, Timeslot = 0**, and the default **ANI, DID** parameter values already set in the window.



- Click **Save**  to save the changes.
- Similarly, scroll down the left pane and select the **Card2TS00** profile, and repeat the above steps verifying the settings for the profile.
- In the same Profile Editor window, click **Open Configuration** icon  and load “TrafficProfile” file,
- Select the **Card1TS00** profiles from the left pane,
- Set **Enable Traffic** to **AutoTraffic-Fax** and **Traffic Direction for Auto Traffic** to **Tx-Rx**.
- Click **Save** .
- Similarly, scroll down the left pane and select the **Card2TS00** profile, and set the same traffic settings as above. Click **Save** .

- Click **Start** and initialize the Testbed setup.
- In the MAPS™ CAS window, select **Emulator** → **Call Generation** to invoke call generation window.
- Click **Open Configuration** icon  available on the **Call Generation** window, select **Default-R1** pre-saved configuration file.
- This configuration loads three call instances with **T1_R1_Place Call.gls**, and **T1_R1_AnswerCall.gls** scripts with **Card1TS00** and **Card2TS00** profiles respectively. The third call instance is loaded with **T1_R1_Reset Timeslots.gls** script.
- Verify that **Sequential Execution**  button is enabled in the Call Generation window. Also verify if the **Total Iterations** column is set to **1**.
- Select the third call instance loaded with **T1_R1_Reset Timeslots.gls** script and click the area in the Profile column. From the drop-down list select **Card1TS00** profile. Click the yellow **Start** button and run the **T1_R1_Reset Timeslots.gls** script.
- Once **T1_R1_Reset Timeslots.gls** script is terminated, select the call instance loaded with **T1_R1_Answer Call.gls** script and click the yellow **Start** button. Similarly, select and execute the place call script.
- Observe the script **Status and Events** in the respective columns. Wait for the call to terminate and verify the **Message Sequence** flow.
- Select any message in the ladder diagram and observe the respective decode message on the right pane for the respective message.



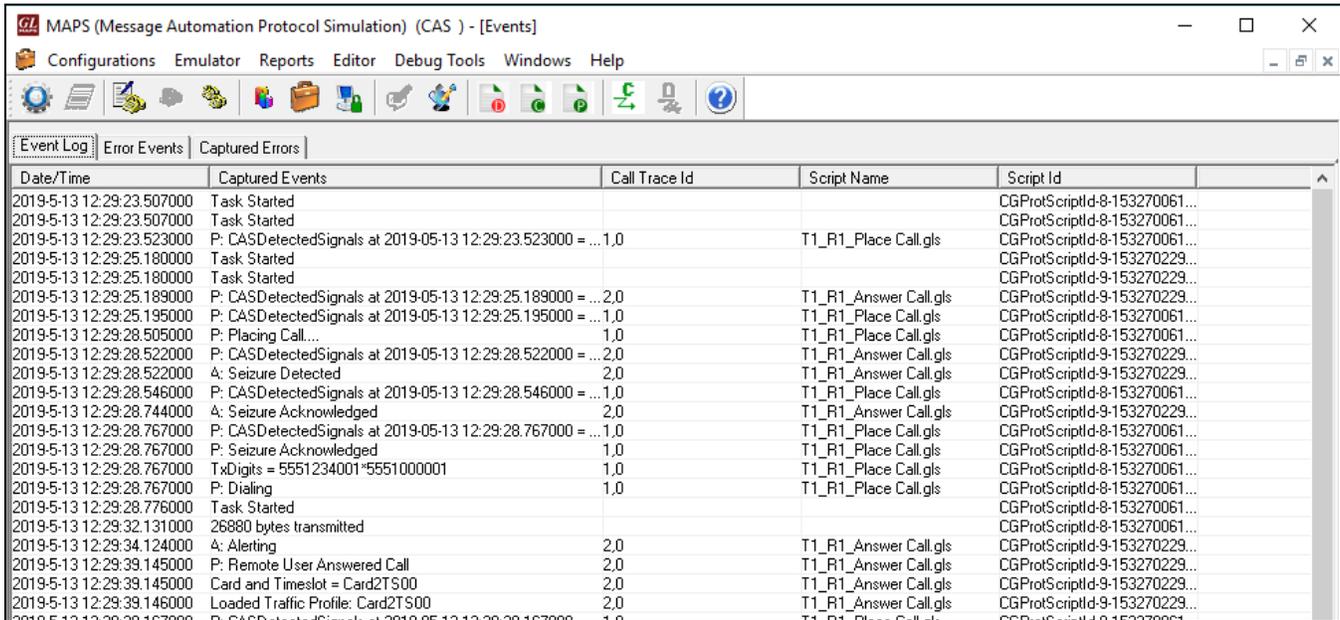
Sr...	Script Name	Profile	Call Info	Script Execution	Status	Events	Eve...	Result	Total It...
1	T1_R1_Place Call.gls	Card1TS00	1.0	Stop	FaxSessionComple...	OutboundReleas...		Pass	Infini...
2	T1_R1_Answer Call.gls	Card2TS00	2.0	Stop	FaxSessionComple...	InboundRelease...		Pass	Infini...
3	T1_R1_Reset Timeslots.gls	Card1TS00		Start		None		Unknown	1

Time	Event	Direction
12:29:23.502000	IDLE::0, 0, 0, 0	→
12:29:28.505000	Placing:1, 1, 1, 1	→
12:29:28.547000	SeizureAck-WinkOn:1, 1, 1, 1	←
12:29:28.767000	SeizureAck-WinkOff:0, 0, 0, 0	←
12:29:28.767000	Dialing:5551234001*5551000001	→
12:29:39.167000	Answer:1, 1, 1, 1	←
12:29:39.375000	FaxTransmissionStarted Card::1 TS::0 Time::12:29:39.375000	→
12:29:44.315000	CSI(CalledSubscriberIdentification)	←
12:29:44.773000	DIS(DigitalIdentificationSignal)	←
12:29:44.875000	12000Rateofv17selectedinDCS	
12:29:44.875000	ECMmodeSelectedinDCS	
12:29:44.876000	MMREncodingsselectedinDCS	


```

State :: Answer
Signaling Bits :: 1, 1, 1, 1
Receiving On Card :: 1 Timeslot :: 0
    
```

- In the MAPS™ CAS main window, select **Report** → **Events** to invoke statistics and observe the occurring call events in the log.



Date/Time	Captured Events	Call Trace Id	Script Name	Script Id
2019-5-13 12:29:23.507000	Task Started			CGProtScriptId-8-153270061...
2019-5-13 12:29:23.507000	Task Started			CGProtScriptId-8-153270061...
2019-5-13 12:29:23.523000	P: CASDetectedSignals at 2019-05-13 12:29:23.523000 = ...	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:25.180000	Task Started			CGProtScriptId-9-153270229...
2019-5-13 12:29:25.180000	Task Started			CGProtScriptId-9-153270229...
2019-5-13 12:29:25.189000	P: CASDetectedSignals at 2019-05-13 12:29:25.189000 = ...	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:25.195000	P: CASDetectedSignals at 2019-05-13 12:29:25.195000 = ...	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.505000	P: Placing Call...	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.522000	P: CASDetectedSignals at 2019-05-13 12:29:28.522000 = ...	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:28.522000	A: Seizure Detected	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:28.546000	P: CASDetectedSignals at 2019-05-13 12:29:28.546000 = ...	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.744000	A: Seizure Acknowledged	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:28.767000	P: CASDetectedSignals at 2019-05-13 12:29:28.767000 = ...	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.767000	P: Seizure Acknowledged	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.767000	TxDigits = 5551234001*5551000001	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.767000	P: Dialing	1,0	T1_R1_Place Call.gls	CGProtScriptId-8-153270061...
2019-5-13 12:29:28.776000	Task Started			CGProtScriptId-8-153270061...
2019-5-13 12:29:32.131000	26880 bytes transmitted			CGProtScriptId-8-153270061...
2019-5-13 12:29:34.124000	A: Alerting	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:39.145000	P: Remote User Answered Call	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:39.145000	Card and Timeslot = Card2TS00	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...
2019-5-13 12:29:39.146000	Loaded Traffic Profile: Card2TS00	2,0	T1_R1_Answer Call.gls	CGProtScriptId-9-153270229...

- This completes the functional verification of MAPS™ CAS application. For any technical issues contact [GL Communications Inc.](mailto:info@gl.com)