

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

MAPS[™] CAS Application Verification

For functional verification, **MAPSTM CAS** application is configured on Card #1 and Card #2 in loopback mode on a single PC. The following steps explain MAPSTM 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.

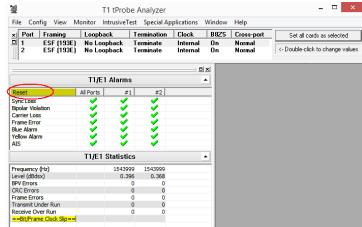


RJ48c Loopback Cable

• 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.

- 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
 - \blacktriangleright Version = 4
 - Click on **Start GL Server** button.

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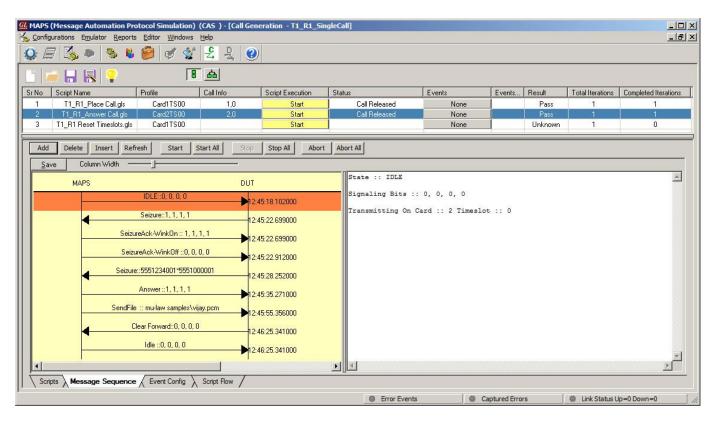
818 West Diamond Avenue - Third Floor Gaithersburg, MD 20878 (V) 301-670-4784 (F) 301-670-9187 Web Page: http://www.gl.com/ E-Mail Address: info@gl.com



- From T1/E1 Analyzer main window, select Special Applications menu > select Protocol Emulation > invoke MAPS CAS Emulator
- In the MAPS[™] CAS window, on the default <u>Testbed Setup</u> window, click *m* and select **R1_TestBedSetup** and check for the following settings:
 - $\blacktriangleright \quad Interface = T1$
 - **WCS Listener Port** = 17080 (for T1)
 - **Server IP Address** = 127.0.0.1
- From MAPS[™] CAS main window, select "Editor" menu -> invoke Profile Editor window and verify the following parameter settings:
 - Click 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** button.
 - 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 *main and load* **"TrafficProfile"** file,
 - Select the **Card1TS00** profiles from the left pane,
 - > Set Enable Traffic to AutoTraffic-File and Traffic Direction for Auto Traffic to Tx-Rx.
 - Click Save button.
 - Similarly, scroll down the left pane and select the Card2TS00 profile, and set the same traffic settings as above. Click
 Save button.
- Click **Start** and initialize the Testbed setup.
- From the MAPS[™] CAS window, select **Emulator** menu > invoke **Call Generation** window
- Click Open Configuration icon available on the Call Generation window, select T1_R1_SingleCall pre-saved configuration file.
- This configuration loads 3 call instances with T1_R1_Place Call.gls, and T1_R1_Answer Call.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 Total Iterations column is set to 1.
- 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 <u>Start</u> 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.



• From the MAPS[™] CAS main window, select **Report** menu -> invoke **Events** and observe the occurring call events in the log

ate/Time	Captured Events	Call Trace Id	Script Name	Script Id
016-6-15 12:45:35.271000	Loaded Traffic Profile: Card2TS00	2,0	T1_R1_Answer Call.gls	CGProtScriptId_7_183360757-6872-6952
016-6-15 12:45:35.322000	Task Started		- 576 Th	CGProtScriptId_7_183360757-6872-6952
016-6-15 12:45:35.322000	Task Started			CGProtScriptId_7_183360757-6872-6952
016-6-15 12:45:35.323000	P: CASDetectedSignals at 2016-06-15 12:45:35.323000 = 1, 1, 1, 1	1,0	T1_R1_Place Call.gls	CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:35.323000	P: Remote User Answered Call	1,0	T1_R1_Place Call.gls	CGProtScriptId 6 183360343-6871-6952
016-6-15 12:45:35.323000	Card and Timeslot = Card1TS00	1,0	T1_R1_Place Call.gls	CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:35.323000	Loaded Traffic Profile: Card1TS00	1,0	T1_R1_Place Call.gls	CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:35.373000	Task Started			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:35.373000	Task Started			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:55.355000	Tx File: #2: 160000 bytes			CGProtScriptId_7_183360757-6872-6952
016-6-15 12:45:55.355000	Task 27 Terminated			CGProtScriptId_7_183360757-6872-6952
016-6-15 12:45:55.356000	File Sending Complete	2,0	T1_R1_Answer Call.gls	CGProtScriptId_7_183360757-6872-6952
016-6-15 12:45:55.413000	Tx File: #1: 160000 bytes			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:55.413000	Task 29 Terminated			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:45:55.414000	File Sending Complete	1,0	T1_R1_Place Call.gls	CGProtScriptId_6_183360343-6871-6952
016-6-15 12:46:25.328000	P: Call Released	1,0	T1_R1_Place Call.gls	CGProtScriptId_6_183360343-6871-6952
016-6-15 12:46:25.330000	Task 21 Terminated			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:46:25.330000	399648 bytes written to file 'MAPS\Recv Files/CAS/0-0-Jun15-001000.pcm'			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:46:25.330000	Task 28 Terminated			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:46:25.330000	Task 22 Terminated			CGProtScriptId_6_183360343-6871-6952
016-6-15 12:46:25.341000	P: CASD etected Signals at 2016-06-15 12:46:25.341000 = 0, 0, 0, 0	2,0	T1_R1_Answer Call.gls	CGProtScriptId_7_183360757-6872-6952
016-6-15 12:46:25.350000	400248 bytes written to file 'MAPS\Recv Files/CAS/0-0-Jun15-002000.pcm'			
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