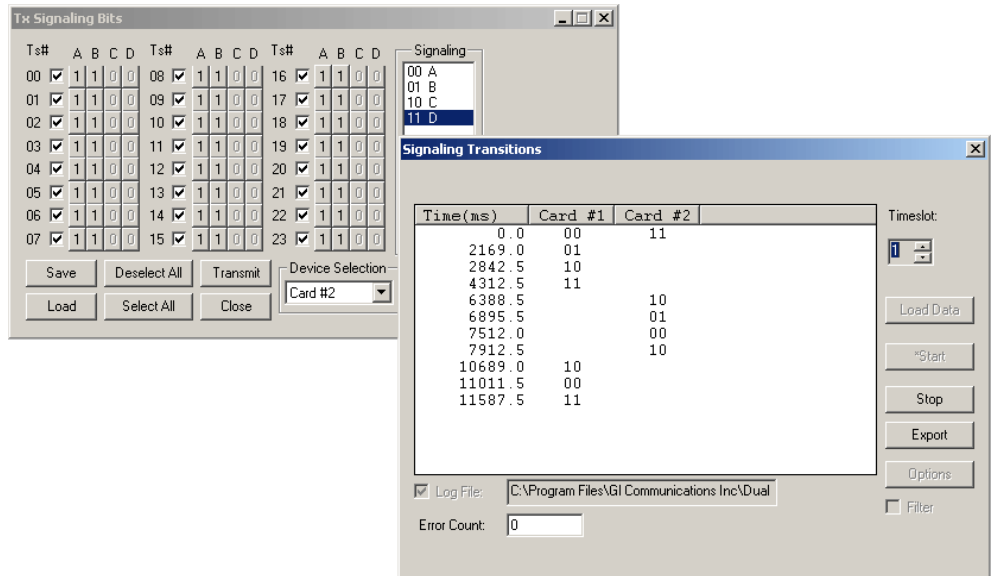


Signaling Bits Recorder /Analyzer



Absolute and Differential time stamping

Continuous full-duplex recording

Recording with extended periods of time

Capturing of signaling and extra bit transitions

Non-Intrusive recording of signaling bits

Manual record termination at any time

Provides filtering of spurious signals

No-Scroll and Scroll display features

Log and Export file option to record transitions

The **Signaling Transitions** application records all signaling bit changes along with the time-stamped indications for each bit. The time-stamp clock starts from zero and then continues by displaying the elapsed time-period for each bit in 'ms'. The same application can also provide time stamped indications of all extra bit changes for E1 systems in Data Display. The signaling transitions may be transmitted using **Transmit Signaling Bits, Transmit Multiframe, Transmit Gaussian Noise, Transmit Tone, or Playback from File** applications (available under Intrusive Test and Special Applications menu options).

Features of Signaling Transitions application

- Available for Windows® 2000/XP /Vista operating system with user-friendly GUI.
- Uses GL's HD Universal T1E1 PCI cards or Portable USB T1/E1 units.
- Permits viewing and analysis of recorded signaling bits in ".sig" or ".ext" file for any channel using 'Load Data' control.
- Allows recording of data on selected or multiple channels simultaneously.
- Recording can continue for extended periods of time.
- Recording can be terminated at any time manually using 'Stop' control.
- Allows capturing of signaling and extra bit transitions.
- Application includes call duration, wink analysis, abnormal terminations and call setup etc.
- Displays information if any received data was skipped using 'Error Count' control.
- Provides time stamped indications of all extra bit changes for E1 systems.
- Allows recording of all transitions to a binary file using 'Log File' option.
- These transitions can be exported into an ASCII file using the 'Export' feature.
- The Device and Timeslots can be selected or deselected at once by the user.
- Non-Intrusive recording of signaling bits.
- Continuous Full-duplex recording.
- Absolute and Differential time stamping for the signaling bits recorded.
- Filtering option can avoid recording unwanted transitions.
- Allows user to choose the Data Display pattern in the form of Signaling Bits or Extra bits.
- Provides "No Scroll" display feature to view transitions of any time period.
- Provides "Scroll to Bottom" display feature that allows the display of latest real-time transitions.

For more details, please visit our web page <http://www.gl.com/sigrec1.html>.



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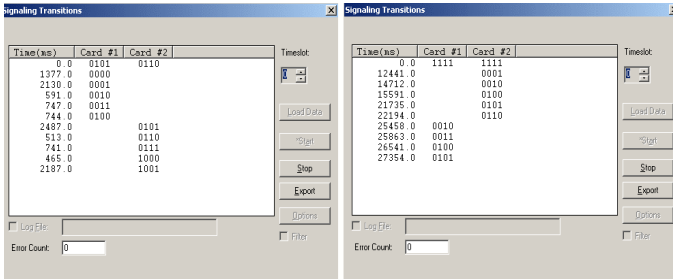
818 West Diamond Avenue - Third Floor. Gaithersburg, MD 20878 • (V) 301-670-4784 (F) 301-670-9187

Web Page Address: <http://www.gl.com/> • E-Mail Address: gl-info@gl.com

Absolute and Differential Time Stamping

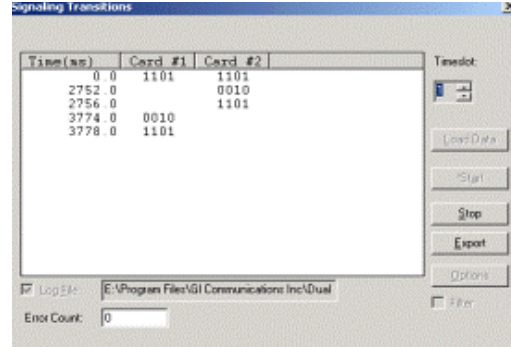
The Display page allows the user to select the type of timestamp that is displayed - Absolute or Differential.

By default, Absolute time stamping is enabled and Differential time stamping is disabled. In case of Differential time stamping, the time elapsed since the last transition is displayed. In Absolute time stamping, the application displays the time elapsed since it started scanning for transitions.



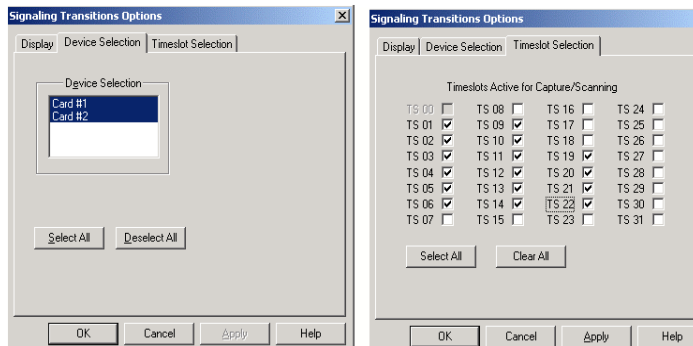
Filter and No Filter Option

Filtering adds new versatility to the Signaling Transitions application. In many cases, noise interference can cause volatility and introduce extra transitions, which may cause miscomprehension. When filtering option is checked, the intermediate transitions and the spurious signaling changes can be avoided from being recorded. When Filter option is not used, the application records all the signaling transitions and provides detailed analysis of the signaling bits transition.



Selection of Devices and Timeslots

The user has the option to select Device and Timeslots using Device and Timeslot selection options respectively. These features can be accessed using the 'Options' control as shown in the screenshot to the below. Users can select one or more devices with 1-31 timeslots for E1 and 0-23 timeslots for T1.

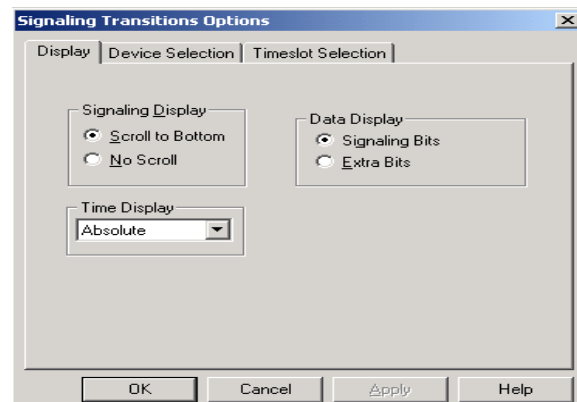


Data Display (Only for E1)

This provides two types of data display options, namely **Signaling Bits** and **Extra Bits**.

Extra Bits- displays 3 bits, which are defined as bit positions 5, 7, and 8 of timeslot 16 of frame -0 in the CAS framing format only. The E1 software can configure these bits.

Signaling Bits- The signaling bits associated with each timeslot are displayed in real-time. This application should be used in CAS mode only. The signaling bits A, B, C, and D are displayed for all channels. These bits are demultiplexed from timeslot 16.



Buyer's Guide

[XX050](#) - Signaling Bits Recorder Software

Related Software

[XX020](#) - Record/Playback File software

[XX022](#) - DTMF/MF/MFC-R2 Detector & Generator Software

[XX030](#) - T1/E1 Call Capture & Analysis Software

Related Hardware

[UTE001](#) - USB based Dual T1 or E1 Laptop Analyzer

[UTA001/UEA001](#) - Basic USB based Dual T1 or E1 Laptop Analyzer Software

[HTE001](#) - Universal HD T1 or E1 PCI Cards

[HUT001/HUE001](#) - Basic Universal HD T1/E1 Software

* Specifications and features subject to change without notice.