

Identifies HDLC based, ATM, TRAU and Frame Relay Protocols over T1/E1



Graphically Displays the Protocols on Tx/Rx Channels



Statistical View for Individual Channel & Protocol Info



Stream Statistics View for Overall Channel & Protocol Information



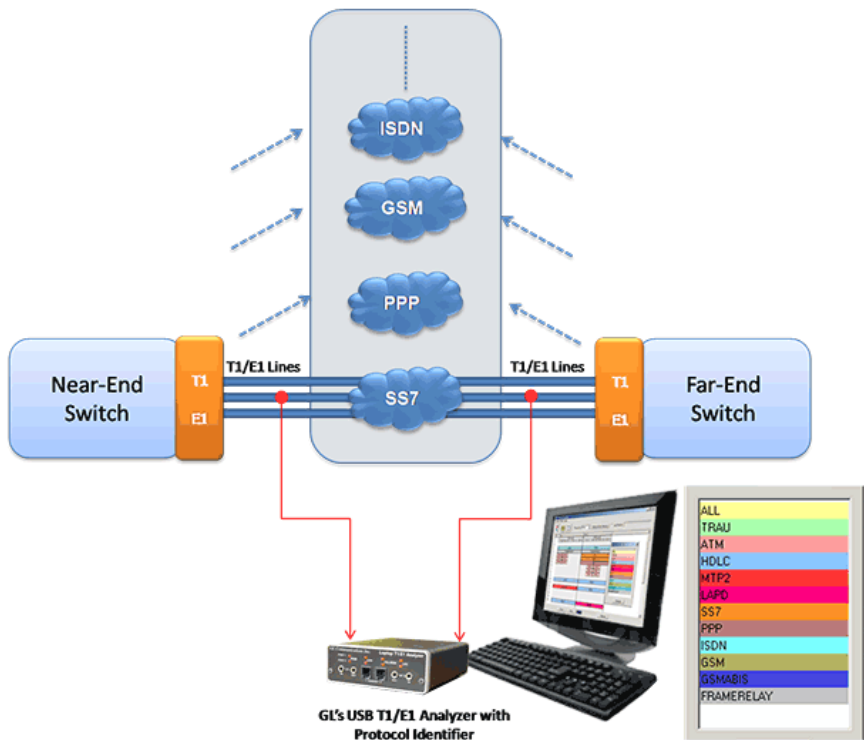
Logging Information into a Text File with Protocol, Device & Channel Information



Filtering to Display the Unique Selected Protocol



Protocol Identifier



The Protocol Identifier application can identify various protocols carried on T1 or E1 lines. It is capable of detecting protocols such as ISDN, ATM, HDLC, MTP2, LAPD, SS7, PPP, GSM, GSM Abis, TRAU and Frame Relay. The timeslots and the subchannels within timeslots are also identified. Once identified, detailed analysis can be carried out by individual Protocol Analyzers. This application is helpful in identifying traffic types at a concentrated point, DSX patch panel, or multiplexed facility.

Main Features

- Capable of identifying and classifying traffic over T1E1 lines based on HDLC, ATM, and TRAU protocols.
- Classification of HDLC based protocols such as ISDN, SS7, PPP, Frame Relay, and GSM.
- Graphical view displays the timeslots and subchannels of the identified protocols.
- Statistical view displays the different protocols with the details of port, timeslots and subchannels
- Stream Statistics view shows the count of total number of timeslots, sub-channels, and hyper-channels used by each protocol
- Provides an option to log the protocol detected with device and channel information into a text file
- Supports filtering to display the unique selected protocol
- Supports custom configuration of the colors to easily distinguish protocols

Applications

- **Snapshot:** Obtain a real-time snapshot of protocol traffic on T1E1 lines.
- **Surveillance:** Identify protocol traffic on all the timeslots/sub channels simultaneously on multiple T1E1 lines.
- **Maintenance:** Helps technicians to quickly identify the content of any T1 or E1.
- **Troubleshooting:** Signaling (SS7, ISDN,...) can be detected on any T1/E1 timeslots; this helps technicians to quickly identify the timeslot of signaling links for further protocol analysis

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



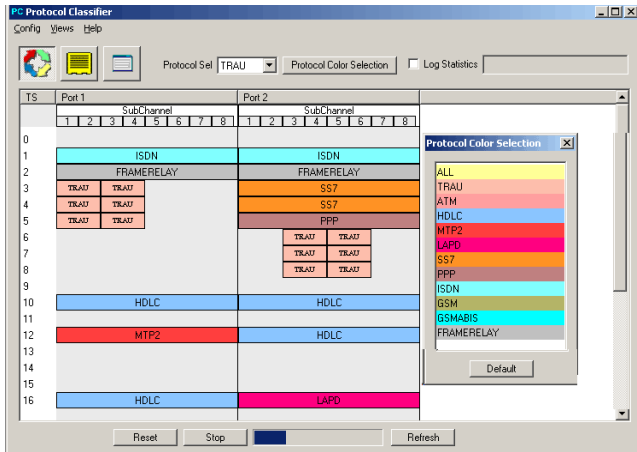
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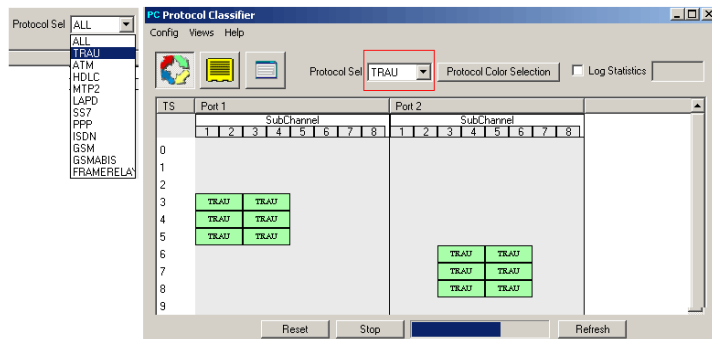
Graphical View

The Graphical View identifies the protocols on each timeslot and sub channel of T1/E1 ports being monitored, and indicates using different colors. The colors can be customized for different protocols as per user requirement. The colors can be customized for different protocols.



Protocol Filtering

From the identified protocols, it is possible to select and filter out the protocol of interest using the Protocol Sel feature. For example, TRAU protocol is selected to view only its traffic flow over the streams.



Buyer's Guide

[XX089](#) - Protocol Identifier

Related Software

[XX153](#) - TRAU Capture and Playback Software

[XX130](#) - Frame Relay Protocol Analyzer

[XX160](#) - ATM Analyzer

[XX090](#) - HDLC Capture and Playback Software

[XX120](#) - SS7 Analyzer

[XX100](#) - ISDN Analyzer

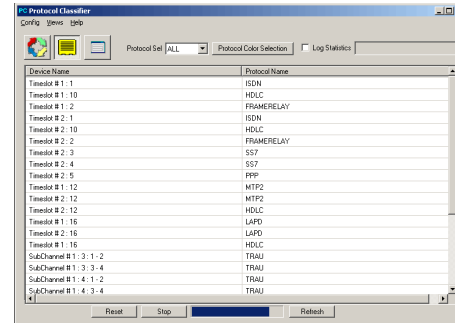
Related Hardware

[UTE001](#) - USB Based T1 or E1 Analyzer Unit

[HTE001](#) - Universal T1/E1 Card

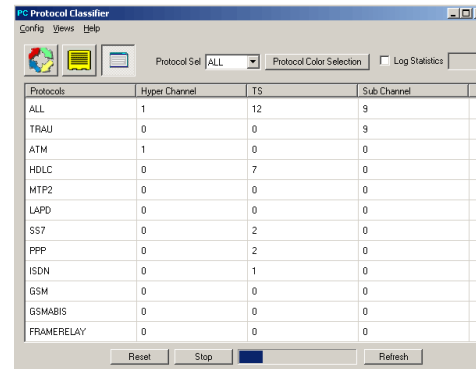
Statistical View

This reports the protocols identified on each timeslot and sub channels row-wise. For example, the screen below shows that the TRAU frames are identified on Port 1, timeslots 3 – sub channel 1-2, timeslot 3 – sub channels 3-4, timeslot 4 – sub channel 1-2, and timeslot 4 – sub channel 3-4.



Traffic Flow View (Stream Stats View)

This displays the stream statistics such as the total count of hyper channels, timeslots, and sub channels used by individual protocols in a tabular format. It is an indication of the overall bandwidth consumption by the monitored traffic.



Log Statistics

The details of the protocols identified, time, timeslots, sub-channels, hyper-channels, and device name can be logged into a text file in the desired location for further analysis.

