

**Non-Intrusive Monitoring and Classification of T1/E1 Traffic**

**Sixteen Categories of Traffic Including Voice, Fax, Data, Tones and DTMF Digits**

**Monitor one or more Timeslots from Multiple T1/E1 Lines**

**Graphically Displays the Results as a Strip-chart**

**View History of Playback of Classified Data**

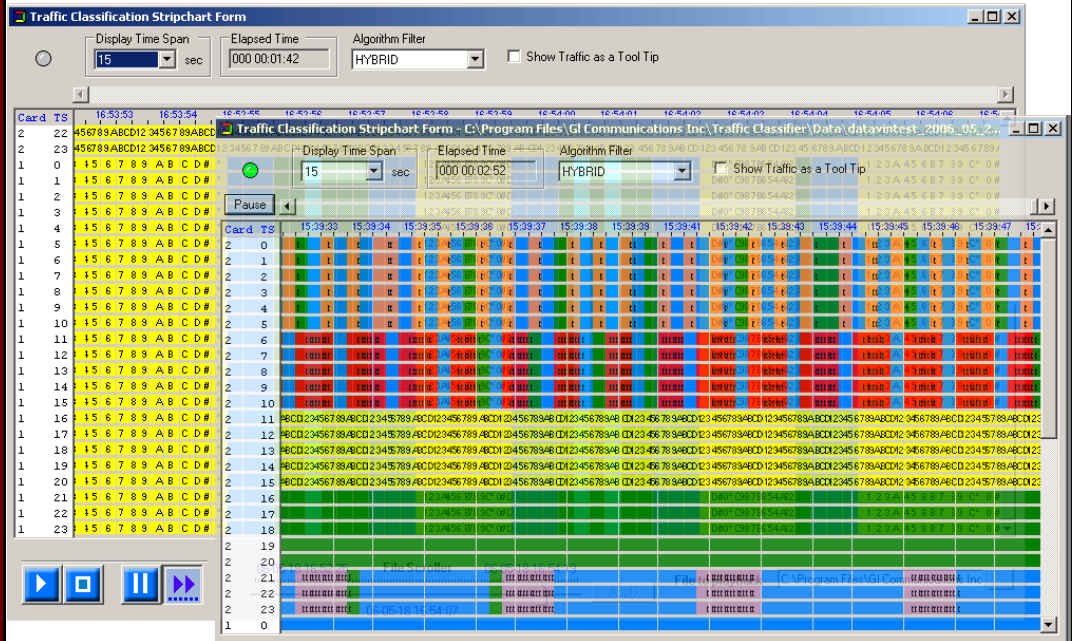
**Classifies the Traffic based on the Dialing Tones Stipulated for Various Countries**

**Codecs Supported -  $\mu$ -law, a-law, and linear**

**Remote Analysis Capability**

**Four Algorithm Options - to Fine-tune the Classification Results**

## Traffic Classifier



### Overview

Traffic Classifier is an application that can analyze the traffic on a T1 or E1 line. It can analyze and classify various traffics such as voice, fax, data, tones (dial tone, ring-back tone, busy tone etc) as well as identify dialing digits and other events happening on a T1/E1 network. It uses various identifying schemes depending on the country of your selection and classifies the traffic, based on the dialing tones stipulated for that country.

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

### Main Features

- Ability to non-intrusively monitor the traffic on a T1 or E1 line in real-time and offline modes.
- Connects to a T1 or E1 line through a monitor or bridge jack.
- Classifies the type of traffic on the T1 / E1 trunk.
- Traffic types classified include Tones (dial, ring, busy), Voice/Speech, Data and Fax Signaling, Dialing digits (DTMF, MFR1, MFR2F, MFR2B) etc.
- Data and fax modulations such as V.22, V.34, V.29, V.32, and V.27 are supported as traffic types.
- Provides real-time display of the traffic types for each DS0 on the T1 / E1 trunk.
- Traffic view for a particular span of time.
- Result options allow the results to be either displayed on the screen, and/or save to a file.
- Off-line (playback) feature can playback or fast forward previously recorded results.
- Four algorithm options (Linear, quadratic, hybrid and hybrid filtered) to fine-tune the classification results.
- Analyzes the T1/E1 traffic and graphically displays the results as a strip-chart.
- Records the analysis results for extended periods.
- Codecs supported -  $\mu$ -law, a-law, and linear.
- Provides easy to use point-and-click interface.
- Remote analysis capability.



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## Types of Traffic Classified

The following are the types of traffic classified by the Traffic Classifier. Users can customize the color coding used by the Traffic Classifier when displaying the various types of traffic.

- Unknown (Silence) - Channel handling a call but no signal is detected (eg: pause in speech)
- V22FOR (V.22 Forward) - Slow modem (forward channels) – typically Point of Sale terminals like VISA- 2400 bps
- V22REV (V.22 Reverse) - Slow modem (reverse channels)- 2400 bps
- V34V90UP (V.34) - Fast modem- 33600 bps
- V29- Common fax - All speeds
- V32V17GT24 (V.32) - Fast fax and modem- >2400 bps
- V27AT48 (V.27) - Slow fax- 4800 bps
- V27AT24 (V.27) - Slowest fax – when V.29 has transmission problems, this mode is used as fall back.- 2400 bps
- Voice- Speech
- BINV90DOWN (Binary) - Native binary – ISDN Basic Rate Interface- 64000 bps
- FSK- Fax signaling – page break, end of page, end of transmission- 300 bps
- Digits- DTMF/MFR1/MFR2F/MFR2B Digits- 40 bps
- Dial Tone
- Ring back Tone
- Busy Tone
- Idle- channel is on line but not in use (digital silence)

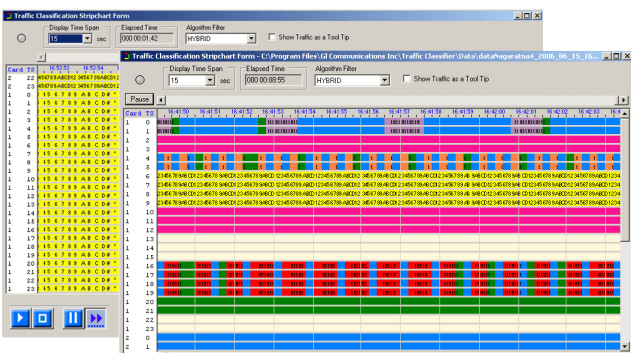


Figure: Types of Traffic Classified

## Buyer's guide

- [XX680](#) – T1/E1 Traffic Classifier

## Related Software

- [XX610](#) – w/ Transmit and Receive File Capability
- [XX020](#) – Record / Playback File Software
- [VBA038](#) – FaxDD™
- [XXFT0](#) – WCS Fax Emulation Software (Requires one of the licenses below)
- [XX153](#) – T1/E1 Real-time TRAU Protocol Analyzer
- [XX636](#) – MC-MLPPP Emulation

## Result Storage Options

Result Storage options allow the results to be either displayed on the screen, and/or save the results into a file. The file can be later opened in offline mode. The application also provides the following features:

- Create a new file based on duration or size, where the user can set either the duration up to 168 hours or the size up to 1 GB.
- New file names are created automatically using either Sequentially numbered or Date + Time based schemes. Also have the option to cyclically overwrite the older files and add a prefix to the file name.

## Real-time and Playback (Off-line) modes

In Real-time mode, the user can capture the live traffic on a T1/E1 line and classify the information transmitted on that line. In this mode the Traffic Classifier runs in a Client-Server setup.

In offline mode, user can load and display previously recorded classification results. Starting the server is not necessary in this mode. The recorded result file (\*.rec file) can be played back using the playback window.

It is also possible to view the traffic for a particular span of time in the recorded file.

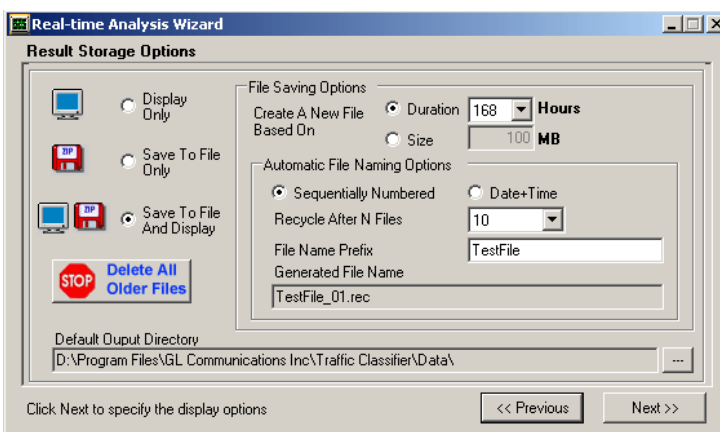


Figure: Real-time Analysis Wizard

## Related Hardware

- [UTE001](#) – Portable USB based Dual T1 or E1 Laptop Analyzer
- [HTE001](#) – Universal HD T1 or E1 PCI Cards
- [PTE001](#) – tProbe™ Dual T1 E1 Laptop Analyzer
- [FTE001, ETE001](#) – Quad and Octal T1 E1 Analyzer Boards

\*Specifications and features subject to change without notice.



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