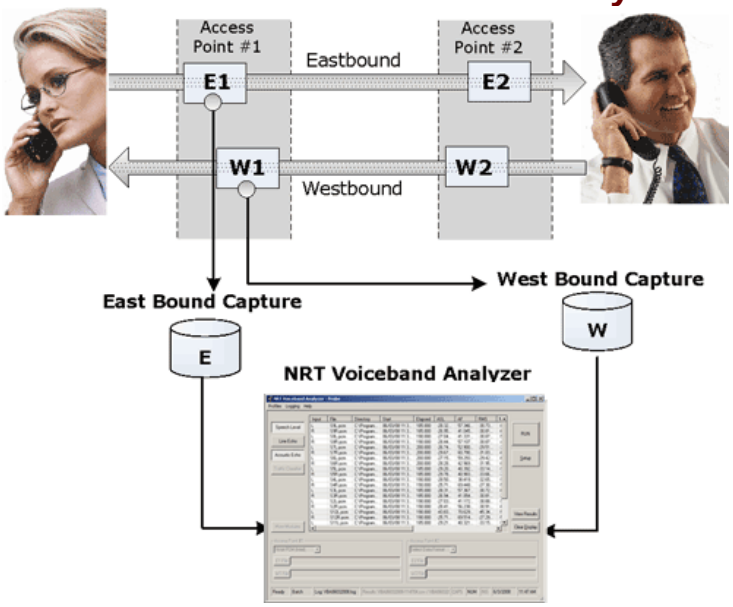
Near Real-time Voice-band Analyzer



Near Real-Time Non-Intrusive Voice Band Analysis

Monitors Speech And Noise Level, Line And Acoustic Echo

Accepts A-Law, µ-Law, 16-bit Linear PCM and Wave Files

Manual , Batch and Auto Processing Modes

Recorded Results are Stored in *.CSV Format

Customized File Naming Conventions

Archive Data Files

Supports 1-, 2-, 3-, and 4-Port Signal Data Analysis

Works with TDM , VoIP , and Wireless Captured Files

Overview

The Near Real-time Voice-band Analyzer (VBA) is an analysis tool for monitoring the quality of voice band traffic over VoIP, TDM and wireless networks. It can host an arbitrary number of analysis algorithms. Built-in algorithms include ITU-T P.56 Active Voice Level analysis, Line Echo (Hybrid) analysis, and Acoustic Echo analysis. Other analysis modules such as ITU-T P.561, P.562, and P.563 can be hosted as plug-ins.

The VBA application can operate on previously captured files, making it a near-real time (as opposed to a strictly real-time) tool. It supports on A-Law, µ-Law, 16-bit PCM (Intel), 16-bit PCM (Motorola), and MS Wave file formats.

VBA works in conjunction with GL's TDM, Packet, and Wireless non-intrusive capture products:

- VBA with GL's TDM T1 E1 Call Capture and Analysis, or
- VBA with GL's VoIP PacketScan™
- VBA with GL's GSM, CDMA, and 3G Call Capture Products

Main Features

- Near real-time (NRT) non-intrusive analysis platform
- Supports 1-, 2-, 3-, and 4-port signal data analysis
- Manual, batch, and automatic processing modes
- Accepts A-Law, µ-Law, 16-bit linear PCM, and WAV input data from files
- Hosts built-in P.56 Active Voice Level analysis, Hybrid Echo analysis, and Acoustic Echo Analysis and optional analysis algorithms as plug-ins
- Allows to grouping files together into file sets and routes file data to appropriate inputs using user-specified file naming conventions. GL Call Capture and Analysis (CCA) rules are built-in
- User-selectable analysis output fields
- Native analysis output mode directly compatible with Microsoft® Excel and other readily available analysis tools
- Directly compatible with many GL data capture products, including Call Capture and Analysis (T1/E1 lines), 2-Wire Voice/Data Capture (Analog), and PacketScan™ (VoIP)
- Compatible with products of other vendors provided only that their file-naming conventions could be used to group files into sets and associate files with algorithm inputs

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

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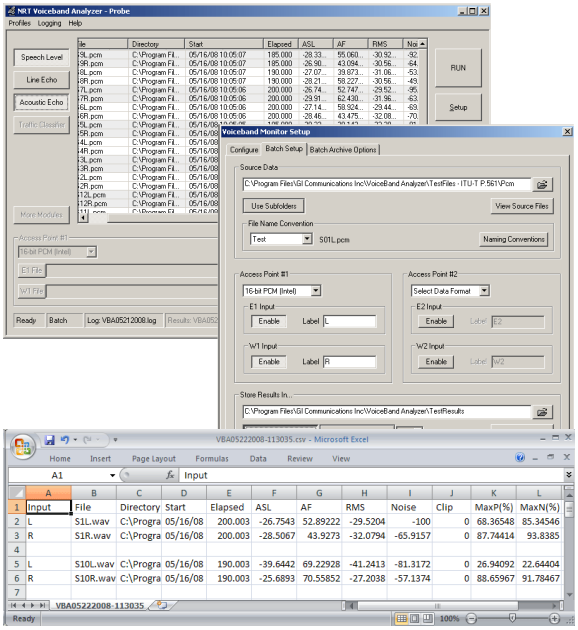
Modes of Processing

The VBA operates in three fundamental modes: **Manual, Batch** and **Automatic**.

In **manual** mode, the user specifies the files to be analyzed and two sets of files can be analyzed manually at the same time with the appropriate data format selected.

The **batch** mode allows users to analyze an entire set of data in a folder or in subfolders at once. In **automatic** mode, the process continues indefinitely until the user manually stops the execution.

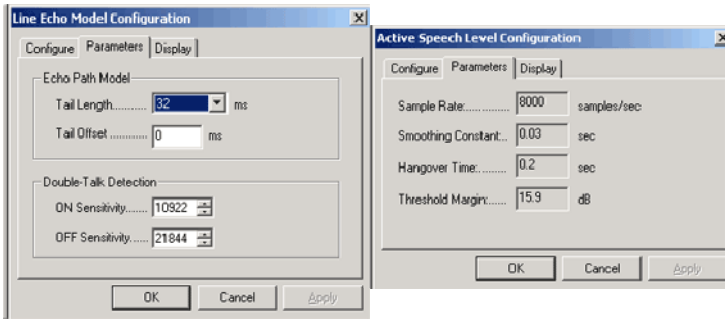
The results are recorded and stored in *.CSV file formats, so that they may be viewed with spreadsheet applications such as Microsoft® Excel in batch and automatic modes.



User Interface

VBA monitors voice band for the standard modules, which includes **P.56 Active Speech Level**, **Line echo** and **Acoustic echo.**

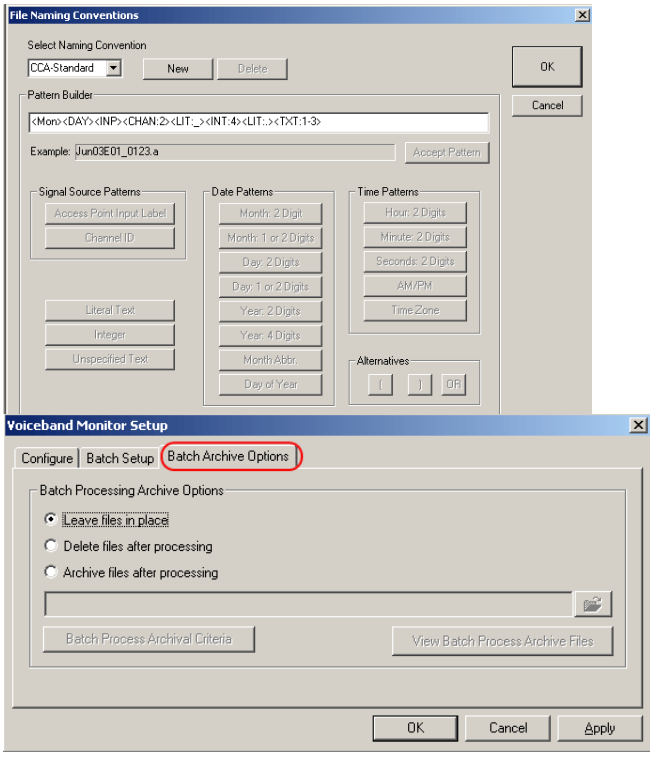
The Active speech level is reported either in units of dBm (P.56 standard) or as dB relative to a full-scale sine wave (PCM standard) and the parameters have fixed values. Line echo model consists of two classes of variable parameters, which includes **Echo Path Model** and **Double Talk Detection**. Acoustic echo has two variable parameters: "**Tail Length**" and "**Tail Offset**".



File Naming Conventions

The file name convention allows users to identify source data files and to group them into data sets in Batch or Auto Mode operations. The standard naming conventions used are **CCA – Standard**, **CCA-MFCR2**, and **CCA-ISDN**, which are compatible with GL's. Call Capture and Analysis application. The application also allows users to customize the naming convention according to their requirements and create a corresponding pattern.

Archive options in VBA allows to manage the analyzed data files using various options such as Leave files in place, Delete files after processing, and Archive files after processing



Buyers Guide:

VBA032 - Voice-band Analyzer

Related Software

XX030 - Call Capture and Analysis Software (T1 or E1)
XX062 - Echo Path Delay/Loss Simulation Software
XX063 - Echo Path Delay/Loss Measurement Software

Related Software (Contd)

XX066 - Digital Echo Canceller (T1 or E1)
PKV100 - PacketScan™ (Real-time and Offline)
PKV101 - PacketScan™ - Offline
PKS100 - PacketGen™ (includes PacketScan™)
PKB070 – Audio Processing Utility
VQT035– 2-Wire Voice/Data Capture

Related Hardware

UTE001 - Portable 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 are subject to change without notice.

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