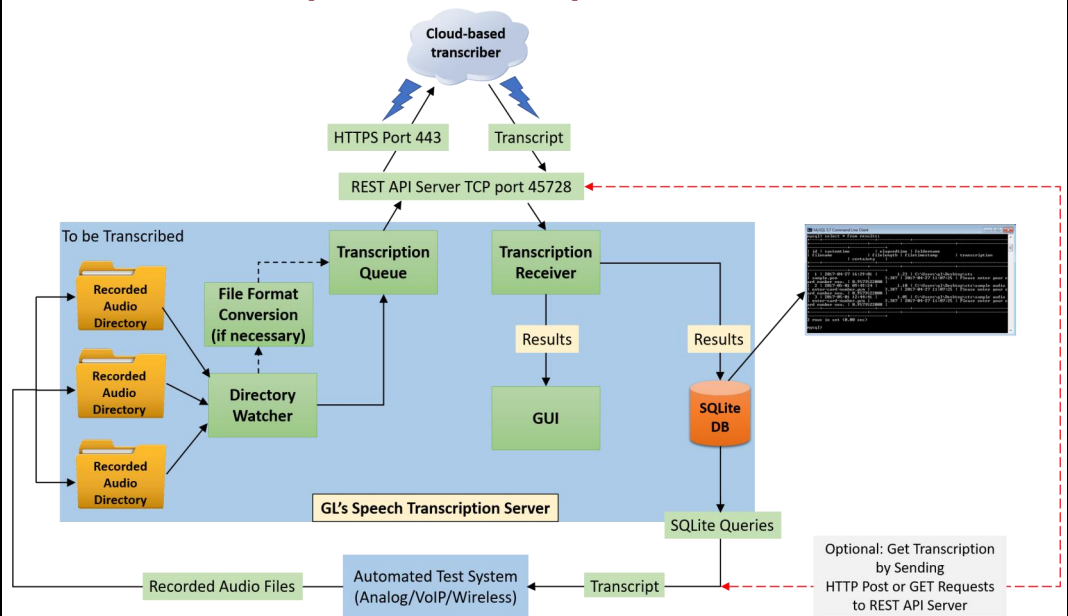


Speech Transcription Server



Overview

GL's **Speech Transcription Server** is a PC-based automated speech-to-text conversion application. Among numerous applications, the Speech Transcription Server can be used for confirming voice prompts (announcements) and aid in **testing Interactive Voice Response (IVR)** systems as well as voice transportation over any network. Network providers use the application to record the voice prompts associated with the IVR, perform a Speech to Text conversion on the recording to confirm the prompt was proper (based on what the prompt should be), and thus confirming their IVR functioning. The application can be used to verify network quality as well as effect of different codecs on the speech quality.

This application works with GL's File Conversion Utility which supports various industry standard codecs. This application can be good companion for GL's [MAPS™](#), and [VQuad™](#) applications that allow transmission and recording of voice to/from audio files over many industry standards telecommunication network interfaces like FXO/FXS/4-Wire/ISDN/SS7/GSM/UMTS/VoLTE etc.

By incorporating GL's Speech Transcription Server, **MAPS IVR** allows users to automate precise IVR tree traversal configurations through MAPS™ profiles and test for pass/fail conditions. IVR menus are divided into configurable prompts where certain keywords are expected. MAPS record each prompt for speech-to-text transcription and analyzes the transcribed text.

For more information on Speech Transcription Server, refer to [Speech Transcription Server](#).

Main Features

- Transcribe up-to 30 seconds of speech files into text
- Transcribe recorded short speech files into text; there is a maximum limit of 30 seconds for any single utterance.
- Cloud-based processing provides accurate translations (Requires internet connectivity).
- Concurrent transcription of up to 30 voice files.
- Supports multi-languages such as U.S/U.K. English, French, German, Italian, Japanese and more.
- Easy to access transcribed text via file, API or database
- Base software includes 100,000 files transcriptions per year, validity can be extended with annual support contract.
- REST API support for transcription request and transcript retrieval

Converts PCM or WAV Files into Text Format

PC Based Speech to Text Conversion Utility

Supports US English, French, German, Italian, and more

Results can be Stored in MySQL Database

Multiple Folders having Speech Files can be Converted to Text Easily

Enable / Disable Database



GL Communications Inc.

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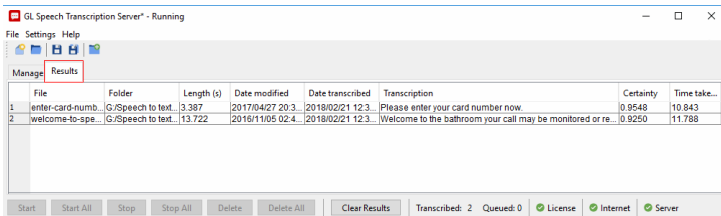
(Web) <http://www.gl.com/> - (V) +1-301-670-4784 (F) +1-301-670-9187 - (E-Mail) gl-info@gl.com

Working Principle

The **Speech Transcription Server** can convert recorded audio (*.PCM or *.WAV) files into text format. Single or Multiple folders are monitored continuously for short audio files and once the files are detected, they are placed in the speech transcription queue for transcription. These files are sent to the cloud-based transcription service and are accurately converted to text.

Transcription Results

Results are listed in the order they are transcribed and includes source file information (such as File Name, Directory path, Length of the file, Modified Date and Time) along with the transcribed file information such as Transcribed Date and Time, Transcription output text, Certainty score, and the Time taken in seconds to transcribe the file. The certainty ranges from 0-1 where 0 indicating the lowest confidence score and 1 indicating the highest confidence score for the transcribed text. Anything above or equal to 0.8 is considered as good confidence score.



File	Folder	Length (s)	Date modified	Date transcribed	Transcription	Certainty	Time take...
1 enter-card-numb...	G:\Speech to text...	3.387	2017/04/27 20:3...	2018/02/21 12:3...	Please enter your card number now.	0.9548	10.843
2 welcome-to-spe...	G:\Speech to text...	13.722	2018/11/05 02:4...	2018/02/21 12:3...	Welcome to the bathroom your call may be monitored or re...	0.9250	11.788

Figure: Transcription Results

REST API Server

REST API Server helps to transcribe and get the transcribed results on the Remote PC using HTTP request on the configured REST API port number. REST API server allows one Speech Transcription Server instance to serve multiple clients. It allows the utility to be used with other GL's intrusive test tools such as [MAPS™](#) and [VQuad™](#). One can send and receive transcription requests, as well as retrieve transcription results from database. Supports fast and easy integration with third party testing platforms.

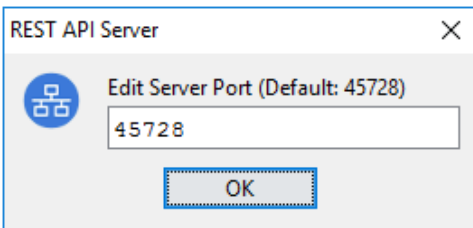


Figure: Rest API Server Port Configuration Window

Buyer's guide

VQT009 — Speech-to-Text Conversion

Related Hardware

- **MAPS™ APS 24 Port** – DP005B - Rackmount PC, 1U 19", Xeon – Standard
APSCB-24 - 24 Port Analog Phone Simulator (APS), 115V HTE001 - [HD Universal Dual T1/E1 Card](#)
- **MAPS™ APS 48 Port** – DP005B - Rackmount PC, 1U 19", Xeon – Standard
APSCB-48- 48 Port Analog Phone Simulator (APS), 115V HTE001 - [HD Universal Dual T1/E1 Card](#)
- **MAPS™ APS 96 Port** – SA005r - Rackmount PC, 2U 19", Xeon – Standard
2x APSCB-48- 48 Port Analog Phone Simulator (APS), 115V FTE001 - [QuadXpress T1 E1 \(Main Board\)](#)
ETA004 - Four Port License for T1
- **MAPS™ APS 192 Port** – SA005r - Rackmount PC, 2U 19", Xeon – Standard 2x APSCB-48- 48 Port Analog Phone Simulator (APS), 115V
FTE001 - [QuadXpress T1 E1 \(Main Board\)](#)
ETE001 - QuadXpress T1 E1 (Daughter Board)
ETA008 - Eight Port License for T1
- **MAPS™ ALS 48 Port (ALS048)** – SA005r - Rackmount PC, 2U 19", Xeon – Standard
APSCB-48- 48 Port Analog Phone Simulator (APS), 115V DS011 - 24-Port Telco Breakout Box
SA004c - Accessory Kit (Rackmount)
HTE001 - [HD Universal Dual T1/E1 Card](#)

Related Software

- [VQT002](#) – Voice Quality Testing (PESQ only)
- [VQT010](#) – VQuad™ Software (Stand Alone)
- [VQT013](#) – VQuad™ with SIP (VoIP) Call Control
- [VQT252](#) – VQuad™ with SIP (VoIP) Call Control
- [PKS118](#) – MAPS™ ED137 Radio (Includes PKS107, & PKS102)
- [PKS119](#) – MAPS™ ED137 Telephone (Includes PKS102)
- [PKS102](#) – RTP Soft Core for RTP Traffic Generation
- [PKS120](#) – MAPS™ SIP
- [PKS121](#) – MAPS™ SIP Conformance Test Suite (Test Scripts)
- [PKS108](#) – RTP Voice Quality Measurements
- [PKS106](#) – RTP Video Traffic Generation



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