

# Phonexia Language Identification

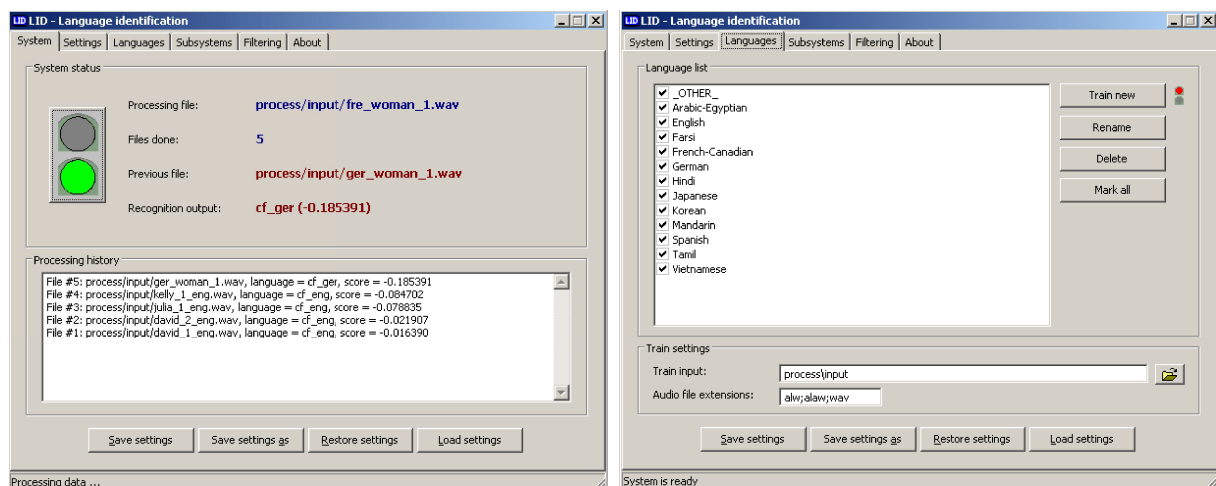
Phonexia Language Identification (LID) routes your records directly to an operator who understands the particular language.

- The software will save time of your operators.
- You can focus only on languages of your interest.
- More records can be processed.

Our technology will help you to distinguish the language spoken. This technology can be used to automatically route calls to someone in your company who speaks the language or to the software that can analyze it. Our software is fast and easy to integrate with call center software. If you are in the security/defense sector, our language identification system can allow you to select telephone calls from a particular language.

## Use cases:

- Security/defense domain
  - Monitoring of telephone services
  - Routing of particular languages to a human operators or to other software (Keyword spotting, speech to text)
- Analysis of network traffic media
  - statistics about content
  - statistics about which nationalities are using your infrastructure
- Call centers (commercial, emergency)
  - Routing calls to operators speaking the caller's language
  - Analysis of speech archives
- News agencies, mass media
  - Monitoring of multilingual sources, routing of multilingual content for processing/analysis
  - Statistics about languages in multilingual mass media
- Web search servers working with speech
  - Allows to index, or indexing by language



### Technology:

- The preselection of audio files combines information from acoustic and phonetic characteristics of sounds.
- **Acoustic** – speech is converted to frequency spectra and is modeled by statistical methods with state-of-the-art channel compensation
- **Phonetic** – speech is transcribed to phoneme strings using a highly accurate phoneme recognizer and the strings are modeled by statistical language models

### Features:

- Languages available in the system: Arabic, English, Farsi, French, German, Hindi, Japanese, Korean, Mandarin, Spanish, Tamil, Vietnamese.
- The user can add new languages to the system.
- Input for training: language model is created from recordings in a specified directory.
- Input format: MS Wave or RAW with linear coding (8 or 16 bits), A-law, Mu-law
- Input for test: directory with audio files or list of files.
- Sampling frequency: 8000Hz.
- Output: Speech file moved to a directory according to language name; log file with processing information or a file with scores from all language models is generated.

### Processing speed:

- 120 times faster than real-time on 3GHz Intel CPU, 64 bit Linux, 12 languages

What does it mean? One instance of the program is able to process 120 minutes of speech in one minute of computer time.

### Use:

- This software can classify speech files by language.
- Phonexia offers a Software Development Kit for easy and fast integration with your systems.

### Consultation:

- We can train your system with enhanced techniques to guarantee the best performance.
- We can advise you how best to combine this system with your application.

**Download trial version:** [www.phonexia.com/download](http://www.phonexia.com/download)