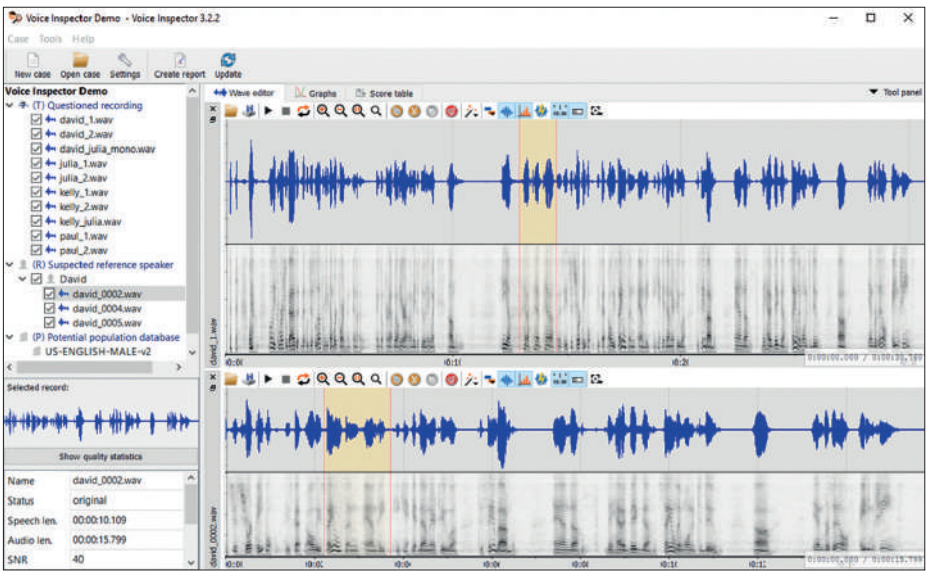
PHONEXIA
SPEECH PLATFORM

# Phonexia Voice Inspector

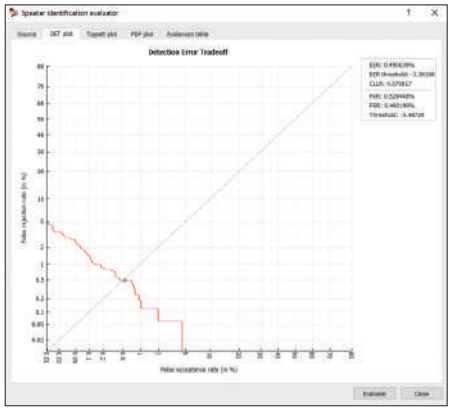
*Phonexia Voice Inspector (VIN) provides police forces and forensic experts with a highly accurate speaker identification tool that supports criminal investigations. It uses the latest voice biometry algorithms to recognize a speaker automatically.*

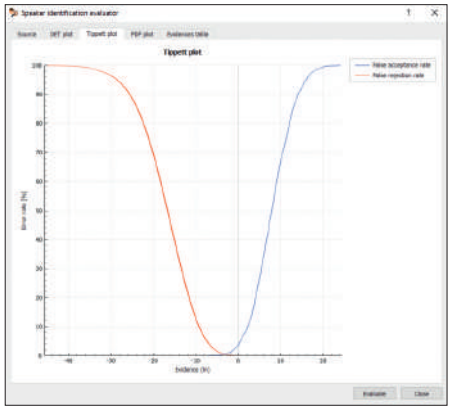
## Selected Features

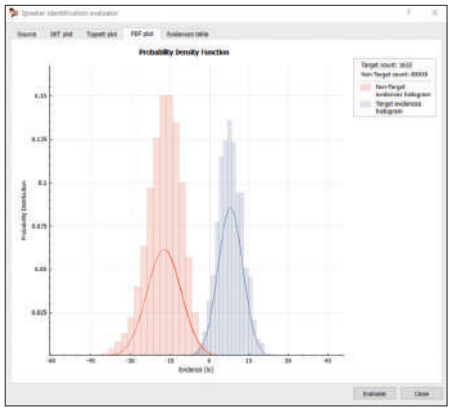
- **1:1 identification** and **1:n identification**
- **Automatic speaker identification** tool to strengthen the results of standard phonetic-based approaches
- **Phoneme recognizer** for the searching and visualization of the same phoneme sequences across audio files
- **Evaluation tool** for the measurement of accuracy in users' data sets
- **Waveform editor** with tools such as a spectrum panel, voice activity detection, and more
- **Simple management** of investigation cases



# Automatic Forensic Analysis







## Technology

- **Phonexia Voice Inspector** is independent of language, accent, text, and channel
- Uses a **Gaussian Mixture Model (GMM)** with powerful techniques (an iVector based system, etc.) to generate small but highly representative voiceprints
- Applies state-of-the-art **channel compensation techniques**, verified by NIST evaluation
- **Compatible** with the widest range of audio sources possible (applies channel compensation techniques): GSM/CDMA, 3G, VoIP, landlines, etc.

## Input

- **Input format for processing:** WAV or RAW (8 or 16 bit linear coding), A-law or Mu-law, PCM, 8 kHz+ sampling
- **Minimum speech signal for enrollment:** recommended 45+ seconds
- **Minimum speech signal for identification:** recommended 10+ seconds

## Output

- **Scoring** to likelihood ratio (LR), log-likelihood ratio (LLR), and verbal presentation of results
- **Graphic presentation** of likelihood ratio (LR)
- **Detailed report output** (expert opinion template automatically generated) for presentation of results (to court or an investigation team)

Chaloupkova 3002/1a, 612 00 Brno
Czech Republic, European Union
info@phonexia.com
+420 511 205 265

PHONEXIA