Speech Technology Center

Voice Biometric Solutions:

VoiceGrid™ X

VoiceGrid™ X is a speaker identification application aimed at finding audio files containing the target speakers' voices in a stream of audio data.

Description

The VoiceGrid™ X application is designed for speaker identification. The system allows sorting all the records in accordance with target speakers' voice samples. The standard configuration allows investigators to process up to 10,000 incoming recordings per day against a list of up to 1000 targets.
VoiceGrid™ X voice matching, along with the entire VoiceGrid™ product line, uses STC exclusive analysis tools, including processing, segmentation, feature extraction and identification of voice samples.

Applications

VoiceGrid™ X is an important supplement to investigative or forensic analysis. It is ideal for the lawful and unlawful interception of audio communications to quickly identify suspect voices and subsequently isolate the conversations of interest in a wide range of critical areas including:

- Terrorist threats
- Drug trafficking
- Gang & organized crime
- Kidnapping
- Extortion
- Corruption
- Domestic violence
- Abuse of emergency or 911 communication channels
- Prank or false report calls

VoiceGrid™ X can be used as a stand-alone tool to enhance future voice identification capabilities or serve as the foundation for a larger voice recognition system infrastructure.
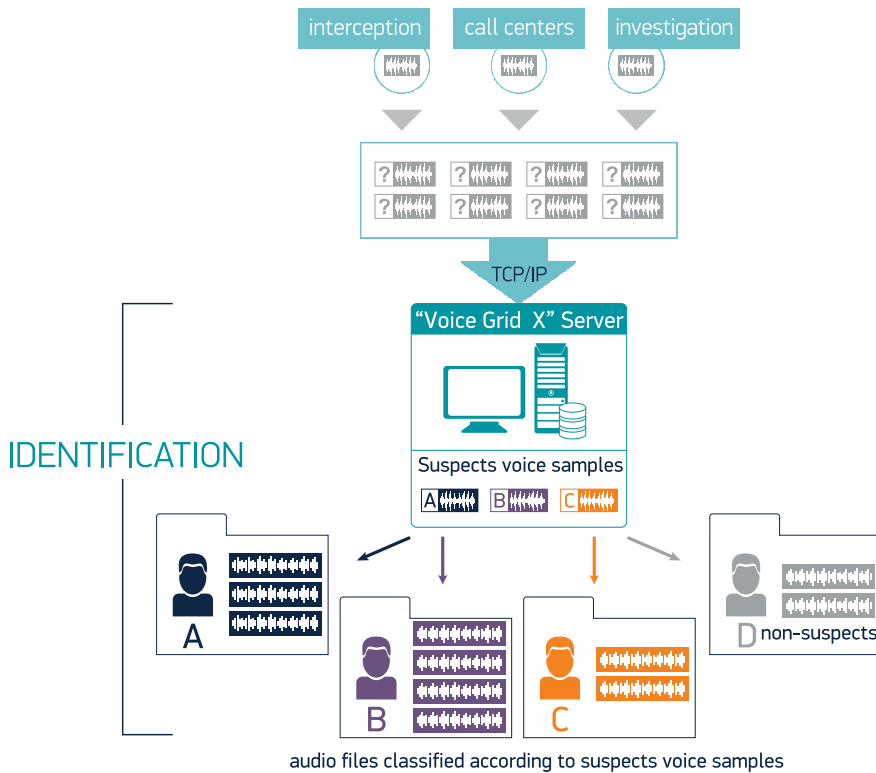
Features & Functionality

- Matching incoming records to target speaker samples
- Automatic 1:N or N:N voice sample matching
- Monitoring or speaker surveillance in near real-time mode
- Automatic 2-speaker dialogue separation
- Full report generation
- Adjustable processing options to expedite throughput
- Adjustable thresholds to filter results
- Text-independent and language-independent
- All types of the recording channels supported: CDMA, GSM, landline, microphones

Benefits:

- High-speed performance
- Speaker identification in near real-time
- Detects two speakers within one audio file (in mono or stereo channels)
- Meets the needs of law enforcement community
- Can be used as a stand-alone solution and/or integrated with other intelligence systems

IDENTIFICATION

Suspects voice samples

audio files classified according to suspects voice samples

Managing voice ID results:

- Selected files are transferred to folders created for each of the target speakers
- Reports in CSV and HTML
- ID results available for all files
- Results sent in XML over TCP (the network)
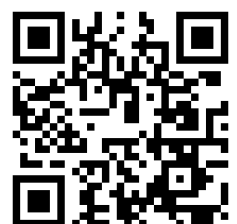- Message sent to specialized client for real-time pop-up at operator workstation

Recommended hardware:

Operating System	Windows XP, Windows 7/ Windows Server 2003/ Windows Server 2008
Processor	CPU Intel Core i7
RAM	4 GB
HDD	100 GB

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