

---

## Voice Biometric Solutions:

# VoiceGrid™ RT

---

VoiceGrid RT is a sophisticated distributed solution for real-time speaker identification in communication channels, phone calls, files from mobile devices and other sources. The solution can be integrated with voice database up to 10,000 target speakers which can be scaled up to millions of processed records per day.

---

## Description

The VoiceGrid™ RT application is designed for speaker identification. The system allows sorting all the records in accordance with target speakers' voice samples. The minimal configuration allows investigators to process up to 10,000 incoming recordings per day against a list of up to 100 targets.

The VoiceGrid™ RT 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

The VoiceGrid™ RT is an important supplement to investigative or forensic analysis. It is ideal for the lawful 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

The VoiceGrid™ RT 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.

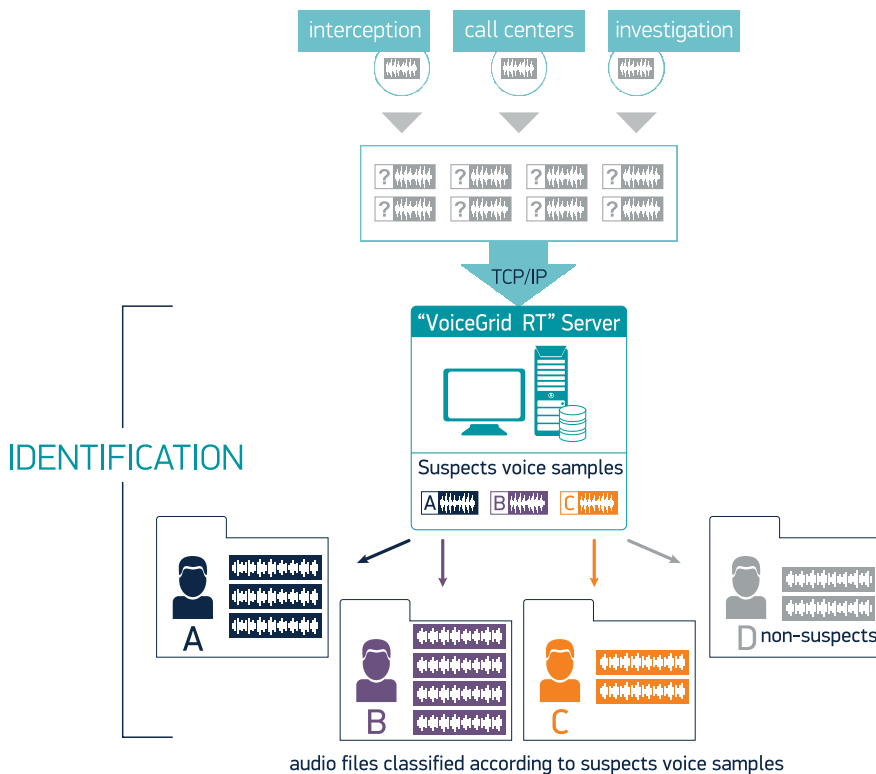
---

## 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
- 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
- Web-based interface with role-based security policy
- Scalable distributed architecture

## 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
  - Can be deeply integrated with the system of legal interception.
  - "Early" identification results can be received before the end of a conversation
  - Mobile solution on Android platform as an option
  - The system can be expanded to multimodal by means of face recognition technology
-



## Managing voice ID results:

- Flexible and configurable speaker card templates
- "Hotlists" and "Cases" for voice samples classification and sharing
- Automated workflow management for multi-user processing of automatic search results, forensic software integration
- Manual and automatic biometric search
- All the results are stored in a database and can be accessed via web-based interface any time
- APIs to integrate VoiceGrid™ RT solution into the existing IT-infrastructure.

## Minimal hardware:

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

can be installed on a laptop

## The VoiceGrid™ Product Line

**VoiceGrid™ Nation** – networked 1:N search and voice data management solution with unlimited database size and unlimited web client workstation connectivity. Distributed processing and WAN architecture designed for large city, county, state or national system deployments.

**VoiceGrid™ Local** – single server network solution for 1:N searches, supports a database of up to 10,000 records and up to 10 workstations.

**VoiceGrid™ X** – a stand-alone application for speaker identification in multiple files. Performs a N:N search of up to 100 target speakers in up to 10,000 records per day.

**VoiceGrid™ RT** – a sophisticated distributed solution for real-time speaker identification in communication channels, phone calls, files from mobile devices and other sources. Integrates with voice database up to 10,000 target speakers which can be scaled up to millions of processed records per day.

**VoiceGrid™ Mobile** – portable stand-alone voice identification solution for Android platform. Allows synchronization with VoiceGrid™ voice database over IP network.



Speech  
Technology  
Center

### Russia

4 Krasutskogo street  
St. Petersburg, 196084  
Tel.: +7 812 325 8848  
Fax: +7 812 327 9297  
Email: stc-spb@speechpro.com

### Germany

13 Hellwigstrasse  
Saarbrueken, 66121  
Tel.: +49 (0) 681 8590565  
Email: sales@speech-tek.de



WWW.SPEECHPRO.COM