

# Voice Biometric Solutions: VoiceGrid™ ID

## Automated voice biometric system

VoiceGrid™ ID is 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™ ID implements, maintains and automates a universal voice database system at local, regional and/or national levels
- Integrated SpeechPro voice biometric capabilities perform 1:N search and automatic voice identification
- Forensic investigation of voice biometric data provides admissible evidence in court proceedings

As with the entire VoiceGrid™ product line, voice matching is accomplished through the utilization of the SpeechPro/STC exclusive methods of processing, segmentation, feature extraction and identification of voice samples. This ensures the highest levels of accuracy and provides an additional and valuable tool in assisting in investigations where voice evidence may be present such as:

- Kidnapping
- Extortion
- Domestic Violence
- Terroristic Threats
- Prank or False Report Calls
- Corruption
- Drug Trafficking
- Gang & Organized Crime
- Abuse of Emergency or 911 Communication Channels

## Key figures:

**3** seconds  
Minimum required speech pattern for analysis

**5** seconds  
Search/match in 10,000 voice samples

**10** seconds  
Average time for feature extraction

Executes up to **100** simultaneous searches

Accommodates up to **1,000** active users

Stores up to **2,000,000** samples

## Algorithm accuracy:

Uses 3 exclusive methods to automatically compare “voice models” against voice recordings obtained from different sources such as cell phones, land lines, covert recordings and recorded investigative interviews.

- Tracking and recording of all operator actions
- Measures to eliminate password theft in the workplace

## Voice sample quality:

Handles speech patterns from various sources, delivering high-quality results with low-quality samples.

## Web-based access:

- User-friendly software interface
- Works on any web browser

## Integration:

Easily integrated with SpeechPro’s expert forensic systems, as well as with other biometric and non-biometric systems.

## Scalability:

VoiceGrid™ ID is a universal platform for voice data management, operating directly on data in the lab and networked to regional, state or national databases.

It can be scaled on multiple levels:

- Database size
- Number of operators
- Number of computational servers

## Platform independence:

- Compatible with any operating system
- Easily integrated with existing IT infrastructure.

## Technical support:

Two-level technical support, available 24/7, from:

- SpeechPro development headquarters
- Local SpeechPro service centers

## Data security:

Data storage and transmission are secured by:

- HTTPS protocol
- Access rights assigned according to operator group, rank and/or function

## Customer training:

SpeechPro specialists provide comprehensive, hands-on training.

## The VoiceGrid™ Product Line

**VoiceGrid™ Lab** – stand-alone application for 1:N searches of up to 100 records per individual investigation.

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

**VoiceGrid™ ID** – 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™ 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™ SDK** provides the same tools and algorithms available within the VoiceGrid™ line but with the ability for business partners with development resources to integrate the technology into their own platforms.

## Voice biometrics

The human voice is a unique feature that is useful in biometric identification over a wide range of both government and commercial applications. It has proven value within law enforcement as an investigative tool and within the telecommunications industry for both identification and verification uses. Voice recording is recognized as a non-invasive technology and therefore can be easy to introduce in both passive and active modes across multiple markets and applications.



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