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## Voice Biometric Solutions:

# VoiceGrid™

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### Automated voice biometric system

VoiceGrid™ 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 al system deployments.

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

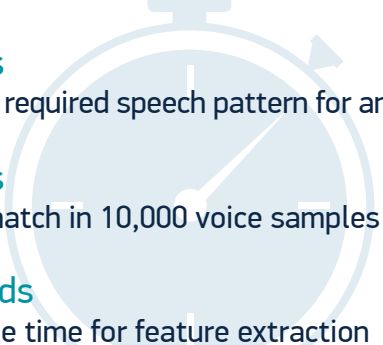
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As with the entire VoiceGrid™ product line, voice matching is accomplished through the utilization of the STC exclusive methods of processing, segmentation, feature extraction and identification of voice samples. This ensures the highest levels of 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

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## 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

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## 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.

## Voice sample quality:

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

## Scalability:

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

It can be scaled on multiple levels:

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

## Technical support:

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

- STC development headquarters
- Local STC service centers

## Data security:

Data storage and transmission are secured by:

- HTTPS protocol
- Access rights assigned according to operator group, rank and/or function
- Tracking and recording of all operator actions
- Measures to eliminate password theft in the workplace

## Web-based access:

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

## Integration:

Easily integrated with STC expert forensic systems, as well as with other biometric and non-biometric systems.

## Platform independence:

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

## Customer training:

STC specialists provide comprehensive, hands-on training.

## The VoiceGrid™ Product Line

**VoiceGrid™** – 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 al system deployments.

**VoiceGrid™ Local** – single server network solution for 1:N searches, supports a database of up to 50 000 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 1000 target speakers in up to 100 000 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.

## 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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