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VoiceNet ID

Large-Scale Speaker Identification and Voice Database Management

Homeland security speaker identification and voice database management system

VoiceNet ID

VoiceNet ID is a new voice identification solution that is capable of operating speaker search in all kinds of environments from a forensic lab to a large nation-wide database.
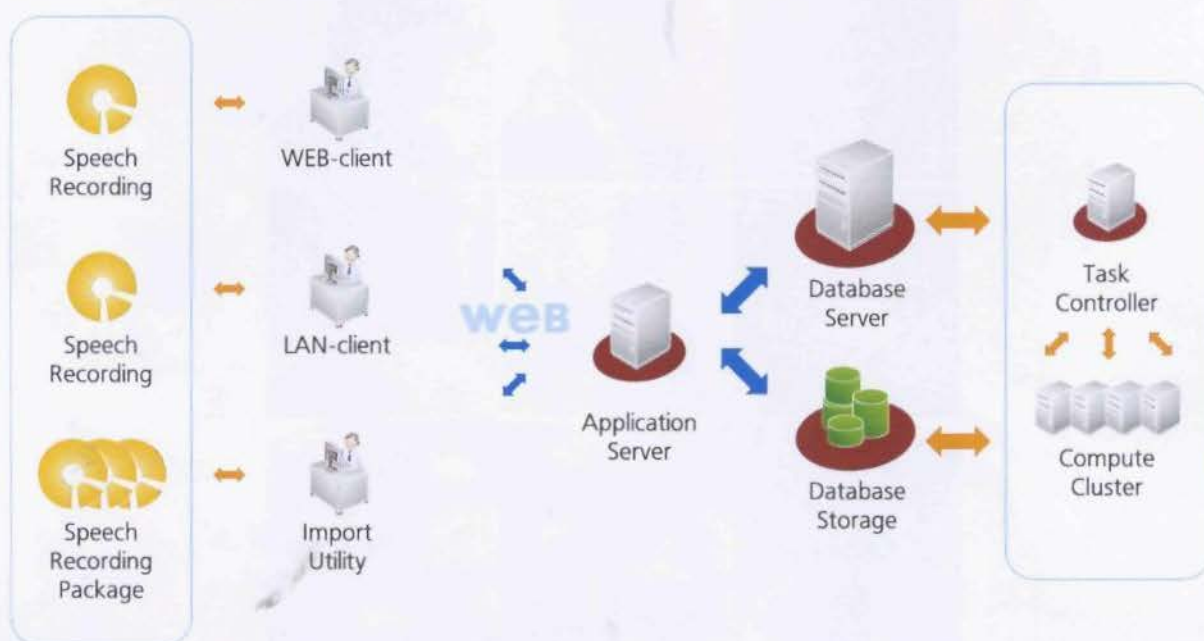
VoiceNet ID is a fully scalable solution where the size of a database is limited only by hardware computing power, thus providing an unparalleled opportunity to create nation/state-wide search-enabled voice-print archives. VoiceNet ID is a cross-platform solution, based on the state-of-the-art proprietary clustered computing technology.

Automatic biometric voice identification

➡ Three independent speaker identification methods
➡ Patented fusion decision
➡ Automatic noise cancellation and distortion compensation
➡ Robust to low quality sound files

Large distributed system with WEB-interface

➡ Nation-wide solution
➡ Distributed system architecture
➡ Data exchange via Ethernet, protected VPN (Virtual Private Network), etc
➡ Access control, administration and inspection tools
➡ Innovative dispatching scheme

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Features

→ National voice databases
→ Platform-independent
→ Scalability: no engineering constraints to increase the number of users and data volume
→ Data protection: sophisticated encryption techniques, secure data transfer, digital signature, etc
→ Hardware and software redundancy and database routine restoration in case of breakdown
→ Data structuring: profiles and form templates modeling to provide data input and visualization
→ Speaker profiles management and storage. Full personal data coverage: photos, passport data, private data, criminal records, etc.
→ Integrated solution: expert forensic investigation of the obtained results with "IKAR Lab" systems
→ Convenient scheduling
→ Customized reporting schemes
→ Support of various data formats: *.wav, *.mp3, etc

Training

→ We provide high-quality educational courses
→ Tutors are prominent forensic audio experts

STC is a leading manufacturer of forensic audio products

STC Audio Forensic Achievements Include:

➡ 2001-2002 Submarine "Kursk" tapes investigation, restoration of more than 120 hours of information
➡ 2003 Participation in the investigation of the terrorist acts at the Moscow Trade Center at Dubrovka
➡ Over 100 voice identification cases for different languages
➡ Forensic audio examinations worldwide USA, Great Britain, Belgium, India, Columbia, Philippines

STC experts are members of Scientific Methodological Board of the Federal Forensic Expert Center of Russia, Russian Federation Justice Department Expert Group, Audio Engineering Society (AES), International Society of Air Safety Investigators (ISASI), International Speech Communication Association (ISCA), Institute of Electrical and Electronics Engineers (IEEE).

STC representative is the co-editor of ISO standard on voice biometrics.