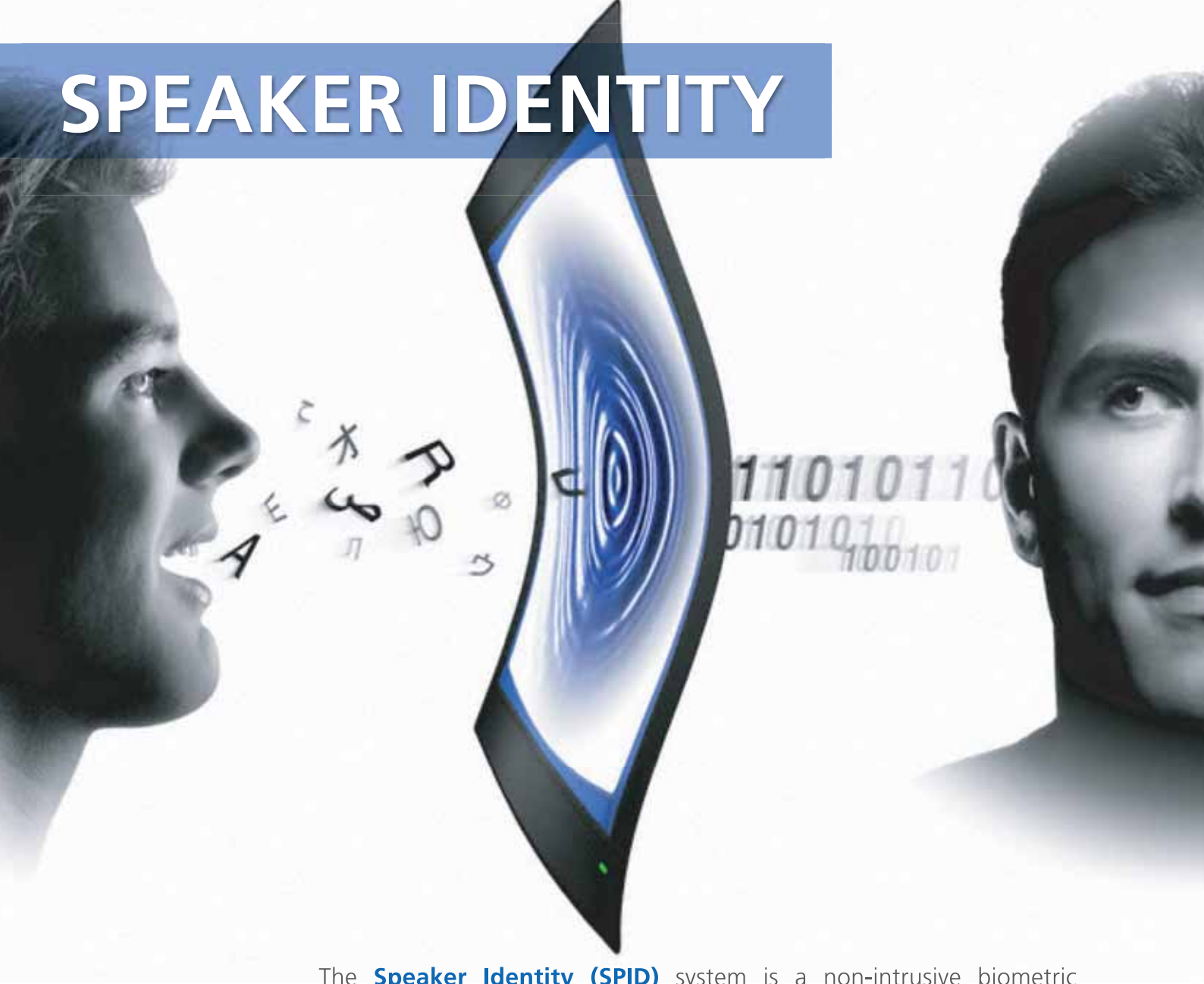


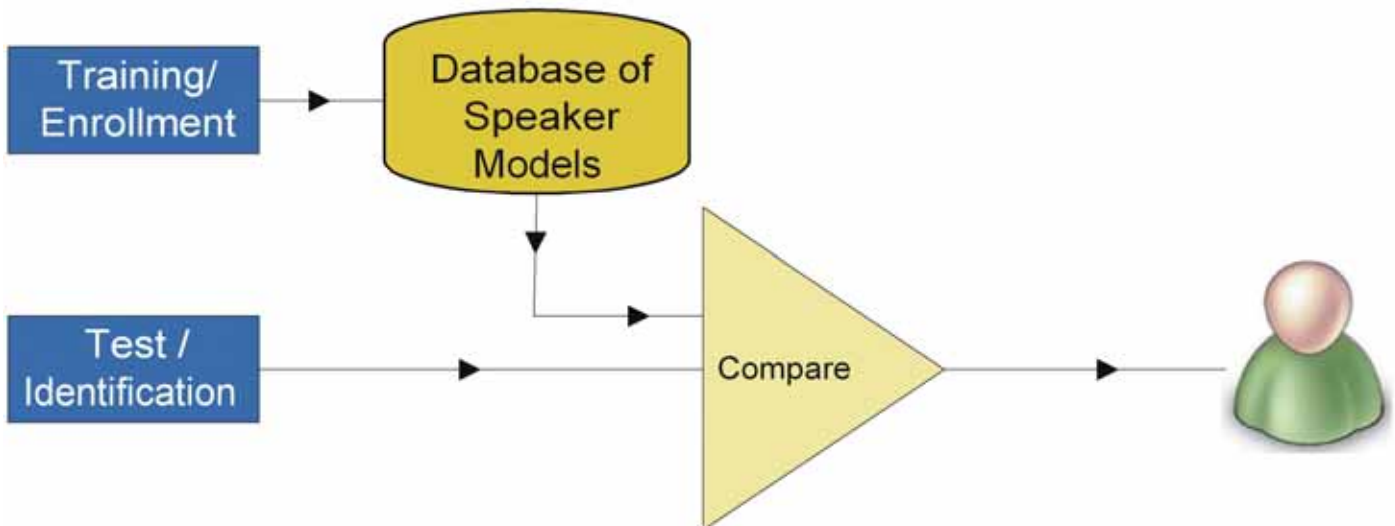
# SPEAKER IDENTITY



The **Speaker Identity (SPID)** system is a non-intrusive biometric technology to provide an additional prong of attack in the fight against crime and terror. Criminal elements and terror operatives will change their telephony mode of communication all the time to avoid detection by security and law enforcement agencies. With the SPID system, voice fragments obtained from any speech channel can provide substantial leads immediately and automatically as to the speaker's identity. The SPID system can be of immense help to security and law enforcement agencies in their efforts to detect planned criminal and terror acts. The SPID system has been successfully deployed in surveillance and security screening applications.

## Technology of the SPID system

The SPID system recognizes the speaker through the unique characteristics of the speaker's voice. The system uses the reference models created from the cepstral features extracted from the enrolled samples to conduct the identification. The system comprises of state-of-the-art sub-systems for performing audio pre-processing, spectral analysis, feature extraction, voice parameterization, discriminative classification through the use of support vectors machines (SVM), high-speed kernel computation and system administration. It is also text and language independent.



This system is designed for the large-scale identification and verification applications required for the enforcement of homeland security worldwide. It supports parallel and cluster processing for “real-time” applications and monitoring. The scalability of the system lies in the ability to be configured to run in a standalone or server-client mode. It is also optimized for voice recognition in real-world environments with noise and communication link distortions.

### Application

The SPID system is able to perform passive inline security verification or authentication during a telephone conversation without the need for any user intervention/knowledge. It can be used to locate targets in target specific applications. It can also be used for verification of callers during telephone conversation

### System Requirements

- X86 (32-bit) or x64 (64 bit) platforms
- Processor speed: 2.8Ghz or faster
- Multiple processor support
- Memory: 2GB or more
- Windows Server Enterprise or Data Center Eds