Voice Vantage

Is your Company doing everything it can to verify the identity of its Customers?

Until recently, the primary means of confirming identities, securing information, protecting physical access, and confirming transactions, has been through the use of PIN numbers, passwords, identity badges, and issued documentation such as passports, birth certificates, and social security numbers. Such traditional identification methods have become antiquated, as new technology solutions have surpassed them in their effectiveness.

Security and identity confirmation can now be tied to intrinsic, personal physical characteristics known as Biometrics. Biometric identities are infinitely more difficult to loose, steal, copy, forge, borrow or falsely issue.

THC Technologies Corporation, owners and developer of VoiceVantage technologies, designs, develops and manufactures Biometric voice verification software. Voice verification is also known as speaker identity authentication software. THC develops applications designed to accurately verify a person's

claimed identity. Since each person's voiceprint is unique, individuals can use their voice as their password to confirm transactions, gain access to networks, Internet sites, telephony systems, and physical access to restricted areas.

Voice "verification" technology is different from voice "recognition" technology in that voice recognition technology understands what you are saying, while voice verification technology under-stands who is saying it.

VoiceVantage technology either "accepts" or "denies" a user's "claimed identity" by comparing a live voice sample to a previously enrolled sample, a "voiceprint algorithm" which has been stored in a database.

VoiceVantage is an "identity solution provider" that delivers solutions that positively identifies users accessing voice-based business applications. In addition, VoiceVantage can integrate a solution that ensures the correct identity of the individual prior to authorizing and storing the initial voice enrollment.

Implementation of VoiceVantage speaker authentication technology encourages customers to return and complete further transactions due to an increased sense of security in remote telephony and Internet applications. In addition, increased security in remote environments reduces the risk of fraud and identity theft.

Further, by implementing an automated password-reset application such as VoiceVantage **SPEAKNSET ™** into call center environments, live agent interaction is minimized and call wait times are dramatically reduced thereby decreasing overall operator costs as well as providing a better overall customer experience. VoiceVantage's technology delivers a "win-win" for both users of the system and those who deploy it,

After all, when isn't the bottom line and customer satisfaction important to your business?

Why is THC Technologies Corporation's VoiceVantage Technology the Right Security Solution Choice?

THC Technologies Corporation's VoiceVantage unique voice verification technology is *language independent.* As a result, it maximizes opportunities on a global basis and seamlessly integrates into various platforms and systems due to its open architecture design.

VoiceVantage technology offers a *non-intrusive and non-invasive* identity authentication solution. Other biometric solutions can intimidate users because of the somewhat invasive connotations associated with fingerprint and or laser retinal scanning technologies.

Voice authentication is also the only completely *mobile* biometric technology solution offering secure identity confirmation - *anytime, anywhere.*

VoiceVantage technology is very convenient. Speaking one's name is the most natural form of communication.

VoiceVantage's technology is cost-effective; it is a "software only" solution, eliminating the costly hardware expenses that other biometric solutions often require.

VoiceVantage's technology is designed for use on multiple platforms, such as telephony devices, Internet, physical access systems, handheld devices, and various other enterprise platforms.

THC Technologies Corporation's VoiceVantage technology will continue to evolve as our research and development teams implement further advancements.

Specifications

Phrase Length and Speech Print Size:
1-2 seconds
8-10K

Verification Data/Time:
1 phrase, 200 verifications per second
(depending on simultaneous use; based
on a single processor 600MHz Pentium III,
192 MB RAM)

Sample Types:
16-bit signed and unsigned linear
8-bit signed and unsigned linear
8-bit mu-law and a-law

Sample Rate:
8, 11.025 or 16 KHz

Interfaces:
Direct C++ API calls, ActiveX, .NET

Database Access:
ODBC: Microsoft SQL Server, Oracle 8 and IBM DB/2

Supported Languages:
C++, C#, Visual Basic .NET, VB Script

Sample Code:
Demo application is provided as usage examples to streamline integration

Supported Development Environments:
MS Visual Studio 7.0,
Unix-based GNU development tools (gcc, make)

Minimum System Requirements:
Pentium, 128MB RAM, standard, microphone and sound card
Windows 2000 or Higher (up through Windows 7)

For more information contact: THC Technologies Corporation
Phone 540-443-9209
www.voicevantage.com