



Phone 540-443-9209

[www.voicevantage.com](http://www.voicevantage.com)



## ***VoiceCheck™ Technical Specifications and Applications***

By creating technology that understands the complexities of the human voice, we have revolutionized the way information resources are accessed, protected, and stored. *THC's VoiceVantage VoiceCheck™* technology delivers security and convenience, all by the sound of your voice.

We recognize people rely on convenient ways to stay securely connected to their lives such as; *E-Commerce, M-Commerce, Calling Card, Voice Mail, Email, Telephone Banking, Remote Network Access, and Desktop Security*. Whether you need to add security to an application, control access to your confidential information, or customize your own products, VoiceCheck™ is the preferred solution.

By using your voice for access, you can protect yourself, your company, your identity. With *VoiceCheck™* you are guaranteed the most versatile, convenient, accurate, secure products and applications that are *as easy to use as saying your name*.



# **Features and Benefits**

## **Multi-Layered Security**

Voice is an exceptional 2-factor authentication.

## **Convenience**

Voice has been ranked as the least intrusive biometric technology.

## **Cost-Effective**

VoiceCheck™ technology works with most existing infrastructures and uses existing communication devices.

## **Language Independent**

VoiceCheck™ captures the voice characteristics necessary for future voiceprint comparison, regardless of the language, gender, or accent of the user.

## **Multiple Platforms**

By using one centralized database of voiceprints for all platforms, you can leverage your investment across many communication channels.

## **Real-Time Enrollment**

The entire enrollment procedure takes less than a minute to complete. Users can securely access your business' applications immediately.

## **Low Storage Requirements**

For a typical application, which uses an enrollment consisting of multiple renditions of a phrase, the storage requirement is only about 20-30 Kbytes.

## **Flexible Security Models**

VoiceVantage's software supports "Or," "And," or "Sequential" decision making rules, allowing the application to meet unique security needs. As well, the security threshold can be adjusted and controlled to meet the requirements of enterprise standards and priorities.

## **Highly Scalable Server Platform**

VoiceVantage's software is highly scalable via conventional industry standard relational databases. The technology is currently available in C++ and Java.

## **Advanced R&D**

VoiceVantage is committed to continually advancing voice technology to remain in an industry-leading position. VoiceVantage combines the knowledge from dedicated R & D efforts, joint university-based research and leading speech technologists to create the industry's most dedicated research program.



# **VoiceCheck™ Is a Software Development Kit for Every Environment**

## **VoiceCheck™ Telephony**

Your company's call center costs are out of control. By the looks of it, customer service representatives spend almost all of their time simply verifying a caller's identity. If only you could come up with an innovative and easy way to expedite caller identification and increase agent productivity and reduce costs. You can with VoiceCheck™ Telephony. You can improve security and reduce costs by integrating VoiceCheck™ Telephony into your Interactive Voice Response (IVR) system. Just think – your callers can then bank-by-phone or access confidential information simply by saying their name. No more lengthy verification questions. Password reset for network logon and applications will never soak up call center time again. Callers can say their name and a new password is issued. VoiceCheck™ Telephony provides you with peace of mind and lowered call center costs.

## **VoiceCheck™ Web**

Your customer wants to buy shares via your online trading website. But, they can't remember their password. If only they could log on quickly and easily. They can - with VoiceCheck™ Web. Whether its Intranet or Internet, VoiceVantage's VoiceCheck™ Web technology ensures trusted relationships with your customer base. Not only does it protect unauthorized access to online content, but it also decreases the amount of fraudulent e-commerce transactions, by simply attaching a user's voiceprint to their credit card making online transactions safe.

## **VoiceCheck™ Enterprise**

You have 100 employees on the network. Four of them are working with extremely confidential client information. No one else should have access to it. If only you could be sure it was secure. You can with VoiceCheck™ Enterprise. Secure any program or file from unwanted access with VoiceVantage's speaker authentication technology. Whether operating from within the office or remotely, VoiceCheck™ ensures that the information you want kept confidential stays that way. Whether it's a wireless device, a portable laptop, desktop PC, or the entire network, VoiceCheck™ is there to protect.

### **Enhance security and convenience for:**

- ✓ E-commerce transactions
- ✓ Internet / Intranet content access
- ✓ Internet/Telephony Applications
- ✓ IVR or switch-based computer/ telephony platforms
- ✓ Call centers
- ✓ Voice portals
- ✓ Mobile Commerce
- ✓ Remote and Internal Network Access
- ✓ PC Logon
- ✓ File and Application Access



# VoiceCheck<sup>TM</sup> 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)  
Solaris 8, RedHat Linux 7.1 (kernel 2.4.2 or higher)

**For more information contact THC Technologies Corp**  
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