

SPEECH ENABLED SOFTWARE TECHNOLOGIES

Biometric Authentication with Integrated Speech Technologies

Outline

- Growing need for online security
- Traditional authentication system
- Proposed authentication system
- Details of the proposed authentication system
- Scheme for the proposed system
- Comparison of traditional and proposed authentication systems
- Advantages of the proposed authentication system
- List of SESTEK Voice Biometrics Solutions
- Video: SESTEK Voice Biometrics Solutions

Increased Need for Online Security

- Growing adoption of smartphones and mobile devices let users make transactions anytime, anywhere.
- As use of electronic identities has grown, organizations depend more and more on the accuracy of the information those identities provide.
- Online identity theft and fraud arise as important issues of concern.

That's why;

MORE SECURE AUTHENTICATION IS A GROWING NEED



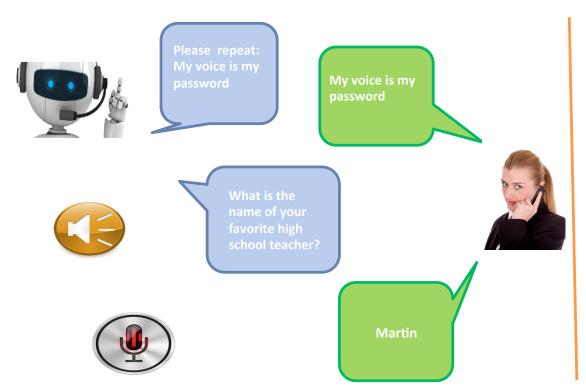


Traditional Authentication System



- Manual identity verification with agents
- Fixed challenge questions with personal info easily found on the Internet
- Additional security layer:
 SMS

Proposed Authentication System

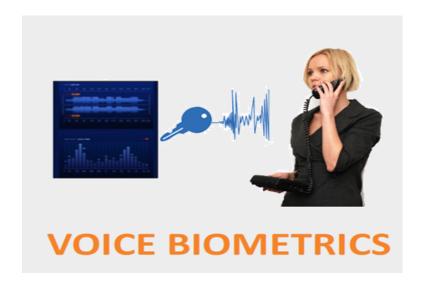


- Identity verification with voice biometrics
- Personalized challenge questions set by users
- Additional security layer: Outbound Call with TTS & SR integration

Details of the Proposed Authentication System

Identity Verification via Voice Biometrics

- Accurate identity verification via voice biometrics technology
- Biometric security measure which is impossible to impersonate
- ✓ Elimination of the need for live agents
- ✓ Higher security



Details of the Proposed Authentication System

Personalized Challenge Questions & Answers

 Users can set their own challenge questions and answers

E.g. What is the last name of your favorite high school teacher?

- Personal information can not be found on the Internet
- ✓ Easy to remember
- ✓ Higher security

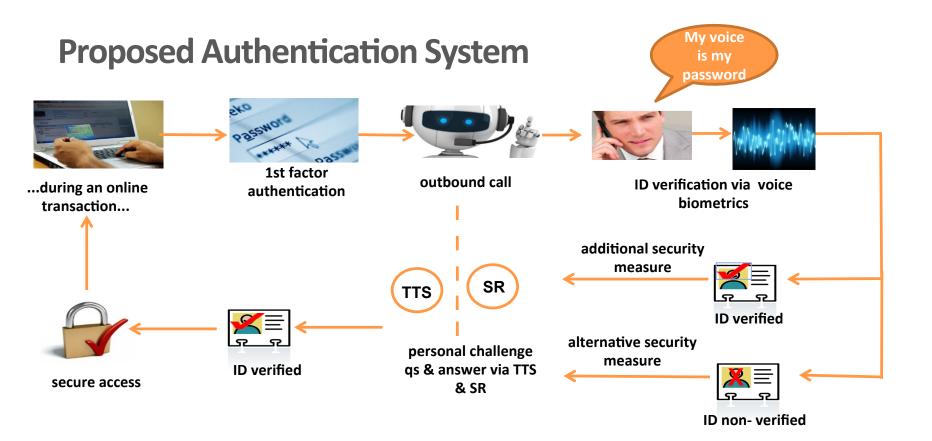


Details of the Proposed Authentication System

Speech Integrated Outbound Call

- Additional security layer with TTS and SR integrated outbound call
- ✓ Powerful alternative to SMS
- ✓ Ability to ask challenge questions via Text-to-Speech technology
- Ability to get answers via Speech Recognition technology
- ✓ Increased automation





Comparison

Traditional Authentication Systems	Proposed Authentication System
Higher risk of fraud & identity theft	Higher security
Manual (agent-based) security	Voice biometric security with TTS & SR integrated outbound call
Time consuming authentication	Fast and automized authentication
Less effective security solution	Effective security solution
Average customer service Average	Improved customer service
Poor corporate image	Better corporate image

Why Proposed Authentication System?

- ✓ Multilayered authentication which combines voice biometrics with SR & TTS
- ✓ Strong alternative to traditional authentication systems
- ✓ Higher automation
- ✓ Increased efficiency
- ✓ Faster & safer transactions
- ✓ Enhanced customer experience
- ✓ Improved corporate image







SESTEK Voice Biometrics Solutions

Vocal Passphrase

Speech Enabled Password Reset

Speech Enabled Second Factor Authentication

Verification On-the-Go

Blacklist Identification

Mobile Device Authentication

VIDEO: SESTEK Voice Biometrics



THANKS FOR LISTENING...