Top Mobile Multifactor Voice Biometrics Strategies and Ramifications of the Cloud

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Agenda

• Why Multifactor Voice Biometrics?
• Multifactor Solution Model
• Top Voice Biometrics Mobile Strategies
• Ramifications of Voice Biometrics in the Cloud
• Summary
Many Authentication Use Cases

- Many Devices
- Many Channels
- Many Locations
- Many Applications

Passwords Reached Limits

Automated and Targeted Attacks

Top Multi-factor Mobile Voice Biometrics Strategies and Ramifications of the Cloud
User Authentication

• Something you know
  – ID and Password/PIN
  – Knowledge based Q&A

• Something you have
  – Token (becoming phone based), Card, Cert

• Something you are
  – Biometrics (Voice, Face, Iris, Finger......)
Biometric Authentication
Value as a Multi-factor Option

- Can’t Share
- Legal Signature
- Convenient
- Personalization

Top Multi-factor Mobile Voice Biometrics Strategies and Ramifications of the Cloud
Building an Authentication Solution

- Deployment
- Design and Develop
- Use Cases
- Requirements

- Enrollment
- Verification
- Management

Top Multi-factor Mobile Voice Biometrics
Strategies and Ramifications of the Cloud
Process to Build a Multifactor Authentication Solution

Risk Assessments

Authentication Landscape

Use Cases Requirements

Design and Develop

Deploy

Risk based Authentication

Layered Security
Top Voice Biometric Multifactor Mobile Strategies Today

- Call Center/CRM applications
- Emerging Countries applications (Cellular Networks)
- Smartphone applications

Smart devices have a growing number of biometric and other sensors for monitoring options that play into security trends for risk based authentication and layered security.
Ramifications of the Cloud

• Two Reasons Why ‘Biometrics in the Cloud’ Makes Sense Today
  – Big Data
  – More Access

• National Research Council Report, ‘Biometrics Recognition: Challenges and Opportunities’
  – Challenges
    • Complex and inherently Probabilistic
  – Opportunities and Recommendations
    • Pragmatic Deployments
    • More Research to understand population effects over time
Summary

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• Ramifications of Voice Biometrics in the Cloud

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