

Embedded Voice Biometrics For Mobile & Consumer Electronics

Voice Biometrics Conference May 2013



Topics

- Why Embedded Voice Biometrics?
- The TrulyHandsfree Approach
- Uses of Speaker Verification and ID in CE
- Improving Accuracy and What the Future Holds





Why Embedded Biometrics?

Smaller footprint

- Lower cost consumer devices
- Works more efficiently in the cloud too!

Lower power

- Green
- Less battery replacement/longer lasting devices
- Saves \$\$ to consumer

No cloud/connection needed

- Always works
- Faster responses
- Lower cost

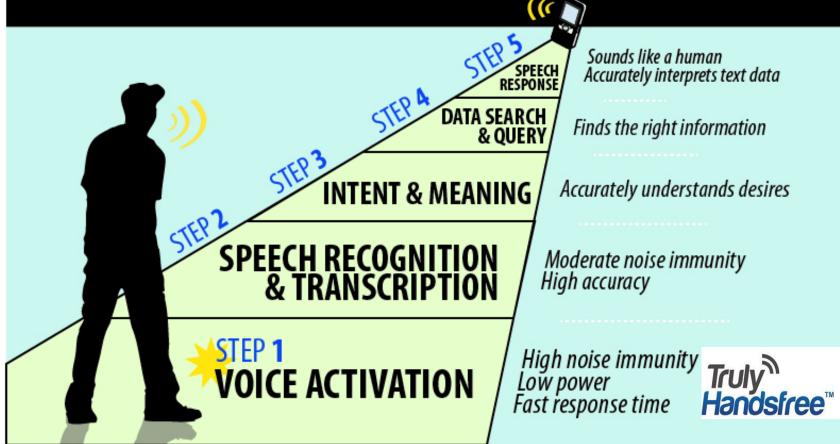
Can improve accuracy-independent approaches

- Comparison between client and cloud biometrics
- Spot checks if/when needed

Truly Handsfree & VUI Components

THE MOST NATURAL USER INTERFACE: SPEECH

ENSORY®





Speaker Verification & ID in Consumer Electronics

- Speaker Verification to NOT Respond
- Speaker Verification for Security
 - Lets right user in keeps others out
 - Examples:
 - Keep children from turning on stove/burners
 - Backdoor lock for joggers
 - Mobile phone easy access/entrance
- Speaker ID for shared products
 - Remembers presets, favorites, history, etc.
 - Adds security and convenience
- User defined speaker verification
- Training/Adaptation



Diverse and Growing Customer Base In Consumer Electronics



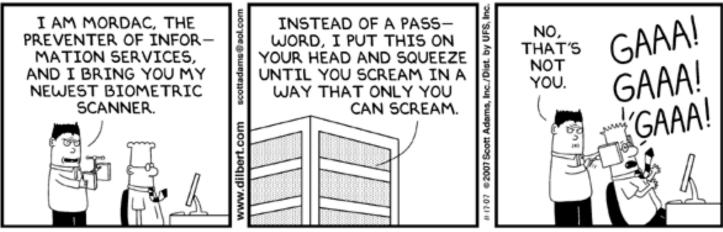
More Customers, More Products, More Experience



A few demo's

THF Speaker Verification

http://www.youtube.com/watch?v=9Ib0WR5YgSM



© Scott Adams, Inc./Dist. by UFS, Inc.

THF Speaker ID http://www.youtube.com/watch?v=OypENHHrDfk



Future courses For Embedded Biometrics

- Improve accuracy by combining 2 different independent approaches
 - Combine Platforms Client & Cloud
 - Combine sensors Voice & Vision
 - Combined Tech Sensory's Hybrid SV

Increasing Client/Cloud Interactions

- FIDO Alliance
- Security for transactions
- Transactions through mobile devices and CE
- "I want to buy that song"



THANKS!!! Tmozer@Sensoryinc.com

THF 3.0 with USER DEFINED SV and SID

http://www.youtube.com/watch?v=Kjp2QpgkIT4&feature=player_embedded

