

Voice Biometrics 100m+ Successful Authentications

Brett Beranek, Solutions Marketing Manager

Nuance Leadership

\$1.7 billion

in FY12 revenue with 28% CAGR FY 06-12

7.5+ billion

conversational interactions handled per year

30m+

Voiceprints in use by our customers

1st

in virtual agent deployments

4.5 billion

mobile transactions annually

100m+

Successful voice biometric verifications in 2012

1st

and only virtual assistant that spans IVR, Mobile, Web and more

600 million

Web conversations and growing

800

solution experts worldwide

One Credential for Multiple Applications

Secure **employee to employee** ID validation





Secure **mobile app** authentication

Secure web payments







Secure contact center authentication

Secure high-risk credit card transaction





Automated password reset

Highlighted Voice Biometric Deployments Financial Institutions



http://www.computerweekly.com/news/ 2240179218/Barclays-streamlines-phonebanking-with-voice-biometrics



http://security-today.com/articles/2010/05/12/israeli-banks-voice-biometrics.aspx



http://www.zdnet.com/au/nab-touts-voice-assuperior-biometrics-overfingerprints-7000007637/



http://www.bloomberg.com/apps/news?pid=newsarchive&sid=aF9oH5v36.Mo



http://www.cio.com/article/ 686441/2011_CIO_100_How_Three_Compa nies_Are_Using_IT_to_Rethink_Consumer_ Services



http://security.networksasia.net/content/ indonesias-bni-deploys-mfa-password-resetease



http://voicebiocon.com/2013/03/12/nuance-targets-password-reset-technology-for-small-and-mid-sized-businesses/



http://www.businesswire.com/news/home/ 20100415005768/en/Top-3-Israeli-Banks-Roll-Customer-Facing



Highlighted Voice Biometric Deployments Telcom



http://voicebiocon.com/2012/07/13/making-inroads-into-eastern-europe/



http://www.turkcell.com.tr/c/docs/announcements/announcements_20120302_GlobalBilgi_Voice_bio_and_satisfaction.pdf



http://enterprise.alcatel-lucent.com/private/ active_docs/customer_references/ SS_NA_MTS_Allstream_Consulting_screen. pdf



http://www.speechtechmag.com/Articles/? ArticleID=67963



http://www.computerworld.com.au/article/ 186527/ austar_outfoxes_its_rival_biometrics_solution/

POLSKA TELEFONIA CYFROWA S.A.

http://www.algotech.eu/news/news.html/8_170-t-mobile-as-the-first-in-poland-has-launched-a-voice-biometrics-based-service/2



IVR Authentication Example





- Over 97% successful authentication rate
- 70% of their customer base enrolled within 6 months of launch
- Reduced AHT by over 22 seconds
- Reduced call center fraud over PIN-based authentication

KEY DEPLOYMENT STRATEGIES

Opt-Out Enrollment all callers are sent through second authentication the authentication process factor, in this case a

All callers are asked for a secret date with a hint

Agent incentives were provided incentives to enroll callers.



TD ID&V Process



Speak Phone Number

Provide Secret Date



Two-Factor authentication process compliant with FFIEC Guidelines



Voice Print System



Secure, convenient telephone access

Welcome to the Voice Print System*.

Your voice is your password to security and convenience

The **Voice Print System** is our telephone voice identification system that uses leading-edge biometric voice verification technology. Our system provides the enhanced security you need in today's world, along with the speed and convenience you've come to expect when calling us.

Now when you call us and use the Voice Print System, instead of being asked questions for verification by an Investment Representative, your voice will act as your instant access.

Benefits of using the Voice Print System include:

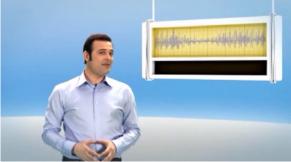
- Enhanced Security: Enjoy peace of mind knowing that your personal information and assets are always safe and secure - whenever and wherever you transact.
- Easy to Enroll: Our one-time only enrollment process takes as little as 2-3 minutes. Learn how to enroll.
- Easy to Use: After you're enrolled, the verification is quick and easy. Simply follow the prompts the next time you call in.

Marketing voice biometrics to their customers, TD Waterhouse differentiates their services from their competitors and gains a competitive advantage.



Use of Voice Biometrics in Advertising by Telcos









Call Center Authentication Example



"Our people love it, our Customers love it and it is delivering improved cost to serve."

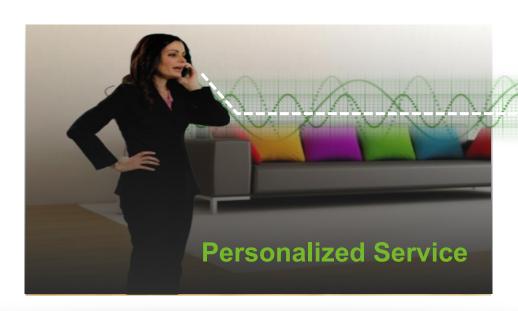
Pete Mileham Vice President, Barclays

 Improved Customer Experience: 93% of customers scored system at least 9 out of 10 for speed, ease of use and security



Agent Authentication









Fraudster Detection









"For the employee, FastReset eliminates the frustration of forgotten passwords and security questions, which we've all experienced. And for the organization it cuts costs by automating the process, allowing the help desk team to focus on more complex call types. It's really a win-win for all of us."

Don Westermann, CTO, Eastern Bank



Why VB for the Mobile App?

 Increase self-serve usage by reducing authentication failure rates

- Add self-serve high-risk transaction capabilities
- Enroll customer voiceprints for use within other channels







VB for the Web - illustrated



Username + Password = 1st Factor of authentication



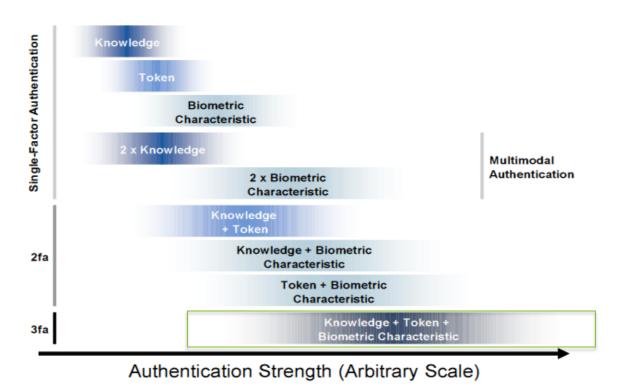
Out-of-band Phone = 2nd Factor of Authentication

"Yes, I authorize this transaction"

Voice Biometrics = 3rd Factor of Authentication



More Secure than Alternatives







Why are Enterprises Deploying Voice Biometrics?

- Customers Love It!
 - Improved customer retention
 - New customer acquisition
- VB security benefits are proven
 - Consistently reduces fraud over PIN, password or Q&A
- VB financial benefits are compelling
 - Improved self-service, reducing call center costs
 - Increased revenue (with agent handled calls)







prefer voice
biometrics over
alternative
authentication
methods 2012 Nuance Communications, Inc. All rights reserved.



More Secure than Alternatives

Security Vulnerability	PIN	Security Questions	Voice Biometrics
Brute Force Attack	Medium 10%+ success rate	N/A	Low 0.1% to 0.5% success rate
Credential Sharing	High 100% success rate	N/A	Low 0.5% to 2% success rate
Hacking	Low	Low	None 0% Success rate
Phishing	High 72% success rate	High 72% success rate	N/A
Vhishing	Medium	Medium	Low 0.5% to 2% success rate
Credential Reset	High	N/A	Low
Internet Search	N/A	High	N/A
Social Engineering	N/A	High 67% success rate	N/A



Key Benefits for the Enterprise



Reduced Calls to the Call Center

Reduced Average Handle Time (AHT)

Increased Revenue Through Higher Upsell Close Ratio

Increased Customer Satisfaction – Improved Customer Retention and New Customer Acquisition

Increased Agent Satisfaction – Reduced Employee Turnover

Reduced Fraud



Voice Biometrics

Easy - Secure - Cross-Channel Authentication

