

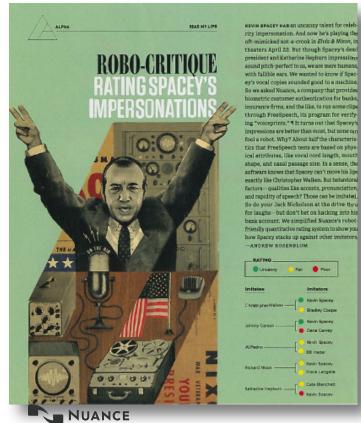
Case Studies Voice Biometrics in Customer Care

November 2016



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BBC

HSBC offers voice and fingerprint ID system to customers

O 19 February 2016 Susiness



HSBC is launching voice recognition and touch security services in the UK in a big leap towards the introduction of biometric banking.

The bank says its phone and mobile banking customers will no longer have to remember a password or memorable places and dates to access accounts.

Barclays has already introduced voice recognition software, but it is only available to certain clients.

RBS and NatWest have offered finger print technology for the last year.

The move comes weeks ahead of the launch of Atom Bank, which will allow its customers to log on via a face recognition system.

HSBC says its service will be offered to up to 15 million banking customers.

First Direct's customers will be offered the voice and fingerprint recognition system over the next few weeks, followed by HSBC's In the summer.

Francesca McDonagh, HSBC UK's head of retail banking and wealth management, described the change as "the largest planned rollout of voice biometric security technology in the UK".

She said: "The launch of voice and touch ID makes it even guicker and easier for customers to access their bank account, using the most secure form of password technology - the body."

Touch ID is available on all Apple mobile devices for both HSBC and First Direct. Customers must download the mobile banking app and follow the instructions to link their fingerprint to it.

The future

Tair.

Imitators Kevin Spaces

Kevin Spacey

Dana Carvey

Nevh Specey

Keyly Spaces

Frank Langella

Cate Diarchett

Kaula Rearing

DE Hader

Bradley Cooper



Biometric Banking Security Hits High Street

Technology which recognises impossible to mimic biological characteristics could signal an end to forgetting your password or PIN.



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Touch ID and voice recognition technology similar to that used on iPhones is to be introduced for bank customers.

The biometric banking system will allow First Direct customers to access their accounts using their voice and fingerprints.

Customers who opt in will have to enrol their "voice print" and will no longer need to remember or recite their current telephone security password letters or PIN.

A similar voice-activated payment system was launched last year on the ING Netherlands mobile banking app, offering an alternative to entering a pin or password.

Users say a short phrase, and the app will match up the sound recording to a file stored on the phone





Voice Biometrics Adoption Landscape



Voiceprints in use by our customers



Verifications worldwide





- 96% enrollment rate
- 48% of all calls authenticated by voice biometrics within 3 months
- 42 seconds in AHT savings
- Authentication performed on 3 seconds of net-audio
- 8.8 / 10 customer sat rating

RBC voice biometrics technology rolls out

1st Canadian company to implement technology to identify client's 'voiceprint'

The Canadian Press Posted: Oct 05, 2015 10:57 AM ET | Last Updated: Oct 05, 2015 11:01 AM ET



RBC says it is the first Canadian company to implement technology that can create and identify a client's 'voiceprint,' which consists of more than 100 different characteristics such as the client's pitch and accent, in the course of a regular conversation. (Mark Blinch/Reuters)



Increased Agent Satisfaction

🖉 Eastern Bank

94% Agents reported Voice Biometrics makes it easier to deliver quality service

60% Agents reported job satisfaction has improved since deploying voice biometrics



6%

reduction in agents absenteeism + increase in retention rate





You Retweeted Rick Lunny @Rick_Lunny · 1 Dec 2015 Proud that @Manulife Bank 1st Bank in Canada to introduce voice biometrics to enhance customer service.



32% increase in containment rate

Natural Language Understanding and Voice Biometrics Manulife Self-Service Interaction via Phone I'm having At Manulife. Thank you for calling Voice Biometrics I see you are having Please repeat after trouble accessing my voice is Manulife. In a few me, "At Manulife, Behavioral Traits a problem accessing my account my password. Pronunciation and emphasis words, please tell my voice is my vour account online. online... Speed of speech and accents me what you're Spoken I can help you with password." Phrase calling about today. that. Access Grante Analyzed Physical Traits - Vocal tract traits Mouth shape and size - Nasal passages III Manulife Manulife III Manulife John calls Manulife and is greeted by a new Since John has already enrolled in Manulife's new Voice biometrics analyzes over 100 of John's 3. Τ. Ζ. voice biometrics system from Nuance, he's asked Interactive Voice Response (IVR) system with unique voice characteristics. Once his identity is to state some basic information about his account, Natural Language Understanding (NLU) powered verified, Manulife's new system routes John by Nuance. John uses his own words to state the as well as speak a simple passphrase to confirm guickly and easily where he needs to be. reason for his call. his identity.



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Manulife

Voice Biometrics Financial Impact Assessment – North American FI

Key Financial Metrics				
5 Year Net Benefit	\$107,686,258			
5 Year Net Present Value (NPV) @ a Hurdle Rate of 10%	\$82,809,347			
5 Year Return on Investment	3060%			
Payback in Months	8			
Increased Agent FTE Capacity	229.2			

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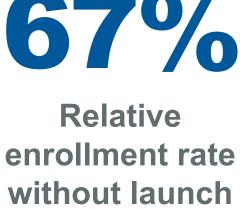
Benefits	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Benefits	Teal I	Teal Z	Tear J	rear 4	Teal J	Total
Increased IVR containment through increased authentication in the IVR	\$8,872,393	\$18,632,685	\$21,472,854	\$22,856,411	\$23,762,381	\$95,596,724
Reduced AHT through reduced agent handled verifications	\$621,015	\$1,304,177	\$1,502,972	\$1,599,813	\$1,663,225	\$6,691,203
Increased revenue via more productive agent handle time	\$0	\$0	\$0	\$0	\$0	\$0
Increased customer satisfaction: reduced customer churn	\$355,249	\$746,050	\$859,770	\$915,167	\$951,442	\$3,827,677
Increased agent satisfaction: reduced agent attrition	\$59,948	\$125,896	\$145,086	\$154,434	\$160,556	\$645,921
Cost avoidance related to fraudulent activity	\$412,444	\$866,164	\$998,193	\$1,062,509	\$1,104,624	\$4,443,934
Total annual benefits	\$10,321,049	\$21,674,972	\$24,978,875	\$26,588,334	\$27,642,228	\$111,205,458



Three VB Enrollment Examples



Relative enrollment rate with proper launch plan





plan

Relative enrollment rate with complex enrollment process







http://youtu.be/-1kjidIDk8o







WATCH THIS HACKER BREAK INTO MY CELL PHONE ACCOUNT IN 2 MINUTES



Sentenced to 21/2 years

Name: Lee Chisholm

Age: 44

Chisholm repeatedly made call pretending to be the customer gathering personal information to allow him to take control of accounts. He then used the cards to make a variety of purchases which he would sell on. He specialised in garden furniture, Christmas hampers and hairdressing products.

Using voice biometrics, we managed to track his exploits preventing £370,000 of financial loss



Sentenced to 7 years

Name: Maxwell Parsons

Age: 49

Defrauded the banking industry of £2.5m Parsons devised computer software to reverse bank transactions enabling him to spend money repeatedly from a number of Banks. At the peak of their activities, police said the gang had "laundered" up to £50,000 a day.





Australian Government

Australian Taxation Office





Join 1.5 million Australians now using their voice to confirm their identity with us! Info @ ato.gov.au/app





Nuance Voice Biometrics, replacing PINs, passwords, and security questions.

Delivering improved CX

Customer		Reported Result
Tatra Bank	TATRA BANKA Menher of EL Group	51% increase in NPS
iiNET	connect better	8 point increase in NPS
T-Mobile	T ··Mobile·	20% increase in Customer Sat. Score
Eastern Bank	ØEastern Bank	90% of customers prefer VB 85% of customer think it is more secure
Barclays Wealth	WEALTH	93% of customers rate authentication 9 or 10 out of 10
Royal Bank of Canada	RBC Royal Bank	8.8 / 10 customer sat



Our interactions with technology and organizations will become **seamlessly personalized**.

Explicit identification and verification will disappear.

It will feel like the devices, applications and organizations we interact with know who we are, **like a friend** does when they hear our voice or see our face.

Our identities will be known and validated passively through **biometrics**, **device identifiers** and **contextual factors**.

