REPLY
FRANK

Partner: Frank Reply

Solution: Car unlocked by voice

Industry: Conversational technologies

Requirement: Voice biometric authentication

Introduction:

In a rapidly changing landscape of vehicle technology, it is increasingly important that the user experience should be frictionless and effective while maintaining high-security standards.

One area where the balance between security and convenience is essential is the control of vehicle access.

This case study explores how Frank Reply, a leader in technology solutions, and Brose, an automotive innovator, joined forces with Aculab to address this challenge and integrate voice biometrics into their vehicle unlocking system.

The Customer Story:

Developers at Frank Reply recognised the difficulty of unlocking vehicles with both hands full. They wanted to find an enhanced security system that gave a personalised driving experience as well as the potential to unlock a vehicle hands-free. Using the owner's voice biometrics during a voice command was ideal for this purpose.

The Challenge:

Frank Reply developed a voice interface and collaborated with Brose who developed a prototype vehicle that could be controlled by their interface.

Having connected their system, Frank Reply still required a highly secure user authentication system that would make the unlocking process a seamless experience.

The Solution:

Frank Reply and Brose chose to integrate the Aculab voice biometric system, VoiSentry. VoiSentry analyses thousands of distinct voice features present in the vehicle owner's spoken command. This would authenticate the owner of the vehicle from the same voice command they used to unlock the door while denying access to unauthorised users.

"We chose VoiSentry from Aculab as the voice biometric solution due to their unrivalled support in and out of the pipeline, its accessible APIs, their thorough

The Outcome:

The access to the vehicle is securely controlled using VoiSentry, voice biometric technology from Aculab. VoiSentry is effective even in noisy environments. The system allows the vehicle door to be unlocked and the lights turned on via the user's voice. This provides a frictionless and efficient user experience while ensuring high security against unauthorised use or theft.

Conclusion:

The complete system has received recognition in corporate structures. In cooperation with a car manufacturer, plans are already underway to connect the project to the electronics of further vehicles.

What makes this so unique is the voice biometrics technology and the seamless integration within the electronics of the vehicle.

Contact Aculab to explore VoiSentry and other biometric solutions:

VoiSentry: www.aculab.com/voisentry

Email: info@aculab.com

About Frank Reply:

Frank Reply, a subsidiary of the Reply Group, is a German company specialising in advanced conversational technologies. Their expertise spans across various areas including voice technology, chatbots, conversational AI, and generative AI.

About Brose:

Brose is a German automotive supplier and manufacturer renowned for its expertise in manufacturing a wide range of components and systems for the automotive sector. Since founded in 1908, the company has grown to become a global participant in the automotive industry.

About VoiSentry:

VoiSentry is a voice biometrics product from Aculab, a leading provider of advanced speech technology systems. It is part of a suite of biometric technologies developed by Aculab which includes the FaiSentry face identification system, as well as SentryFusion, a multimodal biometric system combining voice and face biometrics from live video samples to give increased security and resistance to video spoofing attacks. The Aculab biometric systems are available on-premise, data centre-hosted, or cloud-based, across a wide variety of markets and business-critical services and solutions.

About Aculab:

Established in 1978, Aculab is at the forefront of AI and Biometric technologies, with thousands of customers in over 80 countries worldwide. Aculab offers a wide range of solutions including a cloud-based CPaaS platform and industry-leading Voice Authentication system. VoiSentry has facilitated an enhanced operational security and a frictionless user experience.