
Aculab and Nomidio



Nomidio is a modern identity as a Service provider (IDaaS).

They use VoiSentry as part of their biometric offering, to empower individuals with a single 'Unified Identity' that's secure, unique and can be used to identify themselves across multiple organisations.

Transforming Identification as a Service (IDaaS)

Nomidio are changing the way data is collected and stored.

Instead of a digital world where users give the same personally identifiable information (PII) to a diverse array of services, Nomidio offers a different approach. They give businesses the ability to delegate the storage of PII into one, cloud-based, cross platform service, which locks PII in an extremely secure, quantum-ready and cloud-based identity vault.

We all have digital relationships with businesses and services, which are crucially dependent on the acquisition of PII from the user. This is often harvested from multiple sources and via multiple channels, whether it is email addresses, passwords, physical addresses, IP addresses, or biometric data.

Common practice is that this data ends up being collected piecemeal across multiple different services, with implicit, and often rubber-stamped legal consent to collect PII at the start of the digital relationship. All of this relies on the user granting trust in the service's ability to maintain security and privacy surrounding PII.

The conversation around the cybersecurity of businesses, especially in terms of how PII is stored and used has never been as important, leading to groundbreaking political shifts in data policy around the world.

Services need to collect data to continue to operate, they need to verify their users' identities, and use data they collect for marketing and other operational purposes, all while maintaining legal and statutory requirements around data use and protection, such as GDPR.

Nomidio offers a service that affords both parties in the digital relationship the transparency, utility, and high level of security needed to move how we operate in our digital relationships to the next level.

The vision is to give a choice about what PII is stored, and, at the same time, raise the bar for businesses and services, by offering a cutting edge cybersecurity and privacy management system fit for purpose in our modern, hyper-connected digital world.

Transforming Identification as a Service (IDaaS) contd.

This is a step up from unintentionally creating multiple collection points for confidential PII, which can be exploited through data breaches to commit online fraud and abuse data privacy.

On top of this, Nomidio enables businesses to verify their users with simple multi factor authentication, by using their voice and face-print, quickly and easily, to maintain this highly efficient pattern of PII data storage and use.



Nomidio IDP - Passwordless authentication, accessible through AWS Marketplace and Azure Marketplace.



Nomidio IDC - Multi-factor biometric identity service for contact centres' voice and chat channels. 100% SaaS, it can be deployed in minutes.



Nomidio IDV - Cloud-based, smartphone-centric identity verification service used to verify the identity of customers.

VoiSentry: the underlying Voice Biometric Engine.

Nomidio's Voice Biometric requirements

In order to offer their advanced service, Nomidio were looking for a Voice Biometric system that not only offered the best performance in handling verification and identification requests, but the integration of the system to fit their specific needs - cloud based, and with functionality that is adaptable across Nomidio's customer base.

Integration&Implementation: Containerised Deployment

Aculab's Implementation Team worked with Nomidio to make sure that [VoiSentry](#) could be tailored to Nomidio's preferred deployment option. This meant providing VoiSentry as a Docker container platform.

VoiSentry sits within Nomidio's systems with a bespoke REST interface for sending enrolment and verification requests, with a custom-built web interface to configure it.

Instead of requiring multiple Virtual Machines to run each instance of VoiSentry, deploying within a containerised environment allows for seamless interfacing. All of VoiSentry's dependencies can be encapsulated - isolated from both the underlying operating system, and from other containers.

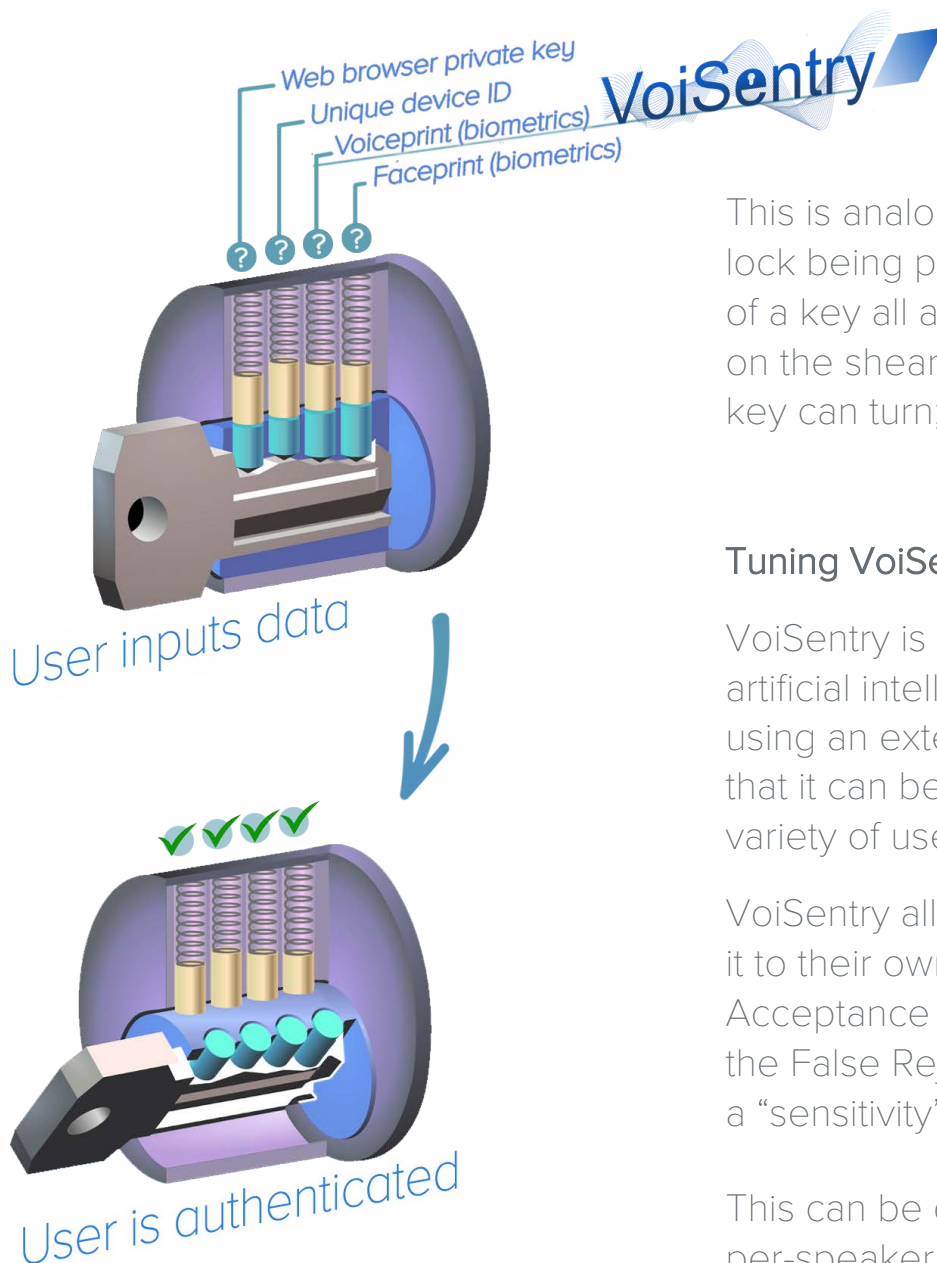
This maximises efficient uses of resources, speeds up delivery cycles for enrolment and verification requests, and enables a high degree of in-built freedom, flexibility and scalability for Nomidio.



VoiSentry's Performance

Nomidio's user identification and verification service is multi-factor, meaning that users logging on with Nomidio benefit from multiple layers of security. This includes a private key held within a web browser, a unique device ID as well as the user's biometric face and voice-prints.

This means that the Voice Biometric aspect of this process needs to be able to work in harmony with the other processes - multi-factor authentication works because each layer of security is synchronised.



This is analogous to each pin in a lock being pushed up by the notches of a key all at once, to their right level on the shear line, so only the correct key can turn; and unlock.

Tuning VoiSentry for Nomidio's needs

VoiSentry is inherently adaptive, its artificial intelligence has been trained using an extensive data library, such that it can be deployed for a wide variety of use cases.

VoiSentry allows for Nomidio to tailor it to their own needs, with the False Acceptance Rate traded off against the False Rejection Rate by adjusting a "sensitivity" parameter.

This can be done globally, or on a per-speaker basis, to achieve a near-perfect level of accuracy.

Aculab has been able to tailor VoiSentry to meet Nomidio's needs, using VoiSentry's flexible and powerful API.

About Aculab

Aculab is an innovative company that offers deployment proven technology for any telecoms related application. Its enabling technology serves the evolving needs of automated and interactive systems, whether on-premise, data centre hosted, or cloud-based.

Over 1000 customers in more than 80 countries worldwide, including developers, integrators, and solutions and service providers, have adopted Aculab's technology for a wide variety of business critical services and solutions.

Aculab offers development APIs for voice, data, fax and SMS, on hardware, software and cloud-based platforms, giving a choice between capital investment and cost-effective, 'pay as you go' alternatives.

For more information

To learn more about VoiSentry and Aculab's extensive telephony solutions visit:

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