Frictionless Biometrics Win Again...

By Gary Jones, VP Global Channel & Marketing at IDEMIA, Biometric Access & Time Solutions

ACCESS CONTROL

POSTED ON 06.19.18

At the recent ISCW show in Las Vegas, the MorphoWave Compact by IDEMIA won the Security Industry Association, New Product Showcase (SIA NPS) award for User Authentication, Identification, Credentialing & Management.

This is the most recent of multiple awards won by IDEMIA's growing range of **MorphoWave** products, starting with the SIA NPS Award for the MorphoWave Tower in 2015, beating over 110 other product entries.

Why frictionless?

One might ask why there is so much hype around frictionless biometrics. After all, biometric technology has been around for almost two decades in the access control world, and over four decades in the law enforcement and government space.

A changing market.

There are several important changes occurring worldwide that have created a growing demand for biometric systems to provide maximum throughput and convenience, with even higher levels of security.

The profile of the typical security decision maker is more IT oriented than ever, and is often someone who grew up with technology and convenience at their fingertips. Similarly the typical employee or user of any access control system also has a different mindset about technology than the type that existed 10 or 20 years ago. In general, the world has come to understand the benefits of using biometrics on a day-to-day basis as something that provides both security and convenience, whether by unlocking their phone with a fingerprint or face capture, or getting through a passenger fast-track system at an airport. As this comfort and familiarity grows, so do the expectations around biometrics.

A tall order.

Anyone in the security industry knows that convenience and security are typically considered to be inversely related; in

other words, a tradeoff has to be made somewhere.

So how do we then double or triple the throughput of a biometric access control system without any compromise in security?

The answer is in our hands...

We have five fingerprints on each of our hands, and each one is completely unique. In the past, it was difficult to scan more than one finger in an access control environment due to cost, time and usability, but several major innovations by IDEMIA have changed the game completely.

MorphoWave technology **scans all four fingers in 3D with a simple wave of the hand**. This touchless technology also ensures that approximately 30% more data per finger is captured than with traditional systems. The high-speed acquisition technology of MorphoWave also captures multiple samples of each finger as the hand passes through the capture volume. All of this translates into a system which has roughly 50 times more data to match against for every transaction, when compared to traditional systems.

In biometrics, the more data you have to compare against, the more accurate the system will be, and the lower the rejection rates will be.

Of equal importance, the touchless 3D imaging does away with concerns of wet or dry hands, and variations in skin condition that can adversely affect many contact-based systems.

The major breakthrough with MorphoWave is that all this extra, higher quality data, is even easier for the user to provide than with a single finger contact fingerprint sensor. All that is needed, is a simple wave of the hand.

Frictionless is more than just contactless

To have a truly frictionless biometric access system, users need to genuinely be able to keep moving, and have minimum inconvenience in the process. Systems that require pausing, stopping or changes in natural behavior are not frictionless. **MorphoWave** Technology is truly frictionless, and allows users to walk as fast as they like.

MorphoWave is capable of throughput exceeding **45 people per minute** even with very large databases.

Immune to external factors

Many non-contact biometric systems are highly susceptible to external factors. Nature is tough to compete with, and many face and iris systems have limitations about where they can be deployed, due to the large fluctuations in natural and artificial light that can occur from site to site, or from day to day.

MorphoWave has been designed to operate in any conditions, from complete darkness to full sunlight, and anything in between.

Completely field proven

The overwhelming success of **MorphoWave Tower** deployments in major Fortune 500 companies across the globe, not only proves the technology delivers on its promise, but also confirms the potential to use it everywhere. The new MorphoWave Compact is designed specifically with this in mind; to allow customers to leverage the technology beyond

the lobby, at every door.

The latest SIA NPS Award is further confirmation from industry experts that the MorphoWave compact is a winning solution to frictionless security.

MorphoWave Compact integrates into 27 of the industry's leading physical access control systems, and is designed to work seamlessly with MorphoWave Tower and Morpho Sigma Series readers.

The MorphoWave Compact is 86% smaller and 93% lighter than the MorphoWave Tower, while retaining the same large scanning volume. The MorphoWave Compact's reduced size combined with an IP65 rating, embedded Prox, iClass & Mifare/DESfire reader and large format touchscreen, ensure customers can now experience frictionless access everywhere...with a simple wave of the hand.