

# IDEMIA's MorphoWave technology demonstrates full interoperability and surpasses all other contactless devices in NIST's latest Contactless-to-Contact fingerprint capture ranking

# ACCESS CONTROL

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- MorphoWave™ is practically just as accurate as touch-based devices
- Quick and easy hygienic contactless capture to match against existing contact fingerprint databases

IDEMIA today announced that its MorphoWave™ contactless fingerprint technology outperformed all other devices in the National Institute of Standards and Technology (NIST)'s latest Accuracy and Interoperability Test on all criteria involved.

The primary reason for carrying out the “**Interoperability Assessment 2019: Contactless-to-Contact Fingerprint Capture**” study was to test how well touchless systems work with legacy databases. **NIST tested six sold contactless fingerprint scanning technologies by comparing how they fared with conventional touch-based fingerprint devices.** The results show that contactless devices that scanned multiple fingers consistently achieved better accuracy than single finger scanning and made less “false positive” errors that incorrectly matched a person's print with someone else's.

MorphoWave™ is a stand-out IDEMIA-developed technology that scans and checks four fingerprints in under a second by just waving your hand within the reader. **Shown as Dev03 in the report, MorphoWave™ consistently performs better than other contactless devices in terms of matching rate, image capture sample rate, areas of overlap between probe and exemplar fingerprints, finger ridges and minutiae similarity.** Further testing was conducted with both contact and contactless probes matched to the MorphoWave™ exemplar contactless fingerprints.

This testing confirms MorphoWave™, which already underpins the currently sold **MorphoWave™ Compact**, works well with legacy touch fingerprint scanners and other contactless solutions alike. It also highlights that this technology enables extremely efficient contactless fingerprint capture and matching against existing contact-based fingerprint databases. This latter feature is very beneficial for some government programs, border checks and minimizing passenger lines whenever user fingerprints are already held in a database. So MorphoWave™ gives passengers a smoother and more hygienic user experience.

*The recent COVID19 pandemic has ushered in growing demand for contactless and hygienic solutions. We are delighted to see contactless fingerprint capture that we pioneered is on the cusp of matching contact-based accuracy, and of course that our MorphoWave™ technology has emerged from this NIST interoperability test as the best in*

*the industry. Given its outstanding capacity as borne out by this NIST test, our MorphoWave™ Compact is a game changer and will seamlessly raise hygiene standards in a vast array of environments including corporate offices, stores, airports, theme parks and leisure and entertainment venues.*

IDEMIA CTO Jean-Christophe Fondeur

**About us** - IDEMIA, the global leader in Augmented Identity, provides a trusted environment enabling citizens and consumers alike to perform their daily critical activities (such as pay, connect and travel), in the physical as well as digital space.

Securing our identity has become mission critical in the world we live in today. By standing for Augmented Identity, an identity that ensures privacy and trust and guarantees secure, authenticated and verifiable transactions, we reinvent the way we think, produce, use and protect one of our greatest assets – our identity – whether for individuals or for objects, whenever and wherever security matters. We provide Augmented Identity for international clients from Financial, Telecom, Identity, Public Security and IoT sectors.

With close to 15,000 employees around the world, IDEMIA serves clients in 180 countries.

For more information, visit [www.idemia.com](http://www.idemia.com) / Follow @IdemiaGroup on Twitter

**About NIST**- Founded in 1901, NIST is a non-regulatory federal agency within the U.S. Department of Commerce. NIST's mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.

From smart electric power grid and electronic health records to atomic clocks, advanced nanomaterials and computer chips, innumerable products and services rely in some way on technology, measurement, and standards provided by the National Institute of Standards and Technology.

Link to Interoperability Assessment 2019: Contactless-to-Contact Fingerprint Capture study:  
<https://nvlpubs.nist.gov/nistpubs/ir/2020/NIST.IR.8307.pdf>



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