

# NeoFace® Smart ID

## Positive, Multimodal Biometric Identification Using Smartphones and Tablets



### At a Glance

- Multimodal biometric capturing face, finger, and voice
- Capture driver's license information by swiping the card
- Local watch list capability on the device
- Local and remote biometric search
- Ability to fleet and device management from central site
- Available third party biometric attachments for fingerprint and latent capture
- Available Credential Reading, including Driver's License, Barcode, and Magnetic Stripe
- Operating system agnostic, including iOS, Android, and Windows
- Flexible application software licensing

### Overview

NEC's NeoFace® Smart ID mobile, biometric identification solution is designed to assist law enforcement, public-safety and security agencies working in the field. As part of the NEC NeoFace® application suite, NeoFace Smart ID solution is the most accurate mobile fingerprint and facial recognition application available today as independently tested by the U.S. National Institute of Standards and Technology (NIST). Recent NIST facial evaluation demonstrated that NEC's NeoFace solution provides the fastest matching capability while remaining tolerant to variants in angle, age, gender, and race.\*

NEC's NeoFace Smart ID solution enables officers to capture and access critical data from a smartphone or tablet, improving response times, efficiency and safety during field operations. The solution can be used to rapidly identify suspects and victims in the field as well as collect crime scene evidence to help investigators solve crimes.

### Solution

The NEC NeoFace Smart ID solution is a mobile application for commercial-off-the-shelf (COTS) smartphones and tablets. The solution enables users to capture multimodal biometric data, including fingerprint, facial images and voice. The solution also allows users in the field to rapidly identify possible suspects and victims without ID credentials using a fingerprint or facial recognition search.

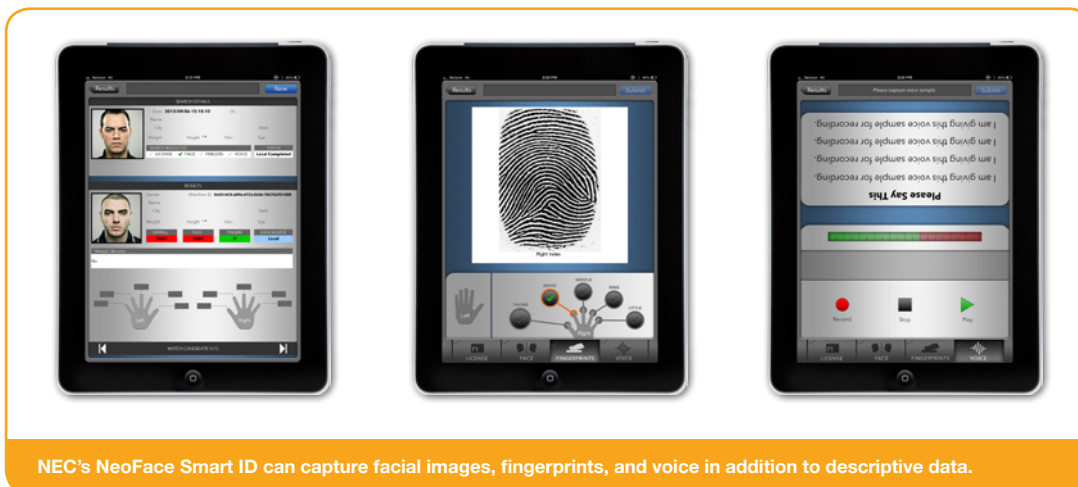
NeoFace Smart ID solution can be employed in existing AFIS or MBIS solutions, or selectively in ANSI/NIST ITL or NIST WS-BD environments. When integrated with an NEC system, the added value includes advanced authentication, device management, and watch list creation.

NEC's NeoFace Smart ID solution can capture, acquire and support the entry of the following types of data:

- Facial images
- Fingerprints - both flat and rolled, depending on the biometric capture device
- Credential scanning from magnetic stripes
- Voice from the phone/tablet's microphone

#### Key Features & Benefits

- Ability to enroll faces to a local watchlist
- Search a face against local watchlist or against an MBIS
- Search fingerprints against an MBIS
- Archive voice on the MBIS
- View fusion results when multimodal search is performed



NEC's NeoFace Smart ID can capture facial images, fingerprints, and voice in addition to descriptive data.

## Unsurpassed Accuracy & Matching Speed

The strength of NEC's NeoFace technology lies in its ability to accurately process low quality videos and photos. Highly compressed surveillance videos and images that were previously considered of little or no value to an investigation may now usable evidence and leading to higher rates of crime solving.

With its ability to match low resolution facial images with a resolution as low as 24 pixels between the eyes, NEC's NeoFace technology outperforms all other facial-recognition systems in matching accuracy.\* While searching of latent fingerprints at crime scenes is standard, NeoFace facial recognition technology can now confidently identify latent photos with a high degree of accuracy.

\* From NIST tests results: NIST Multi Biometric Evaluation 2010 ([www.nist.gov/itl/iad/ig/mbe.cfm](http://www.nist.gov/itl/iad/ig/mbe.cfm)); NIST MBE-STILL Report 2010 ([www.nist.gov/customcf/get\\_pdf.cfm?pub\\_id=905968](http://www.nist.gov/customcf/get_pdf.cfm?pub_id=905968)) and NIST Performance of Face Recognition on Compressed Images Report 2011 ([www.nist.gov/customcf/get\\_pdf.cfm?pub\\_id=908515](http://www.nist.gov/customcf/get_pdf.cfm?pub_id=908515)).

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