



Orchestrating a brighter world



NEC ID

Leverage biometric technology
to transform your organisation

nec.com.au

Address governance, risk & compliance and re-engineer customer journeys

Overview

NEC ID is a cloud-based biometrics authentication solution, built on NEC's world leading biometrics matching engine. The solution uses the same algorithm as many of the world's leading identity management and security programs in law enforcement, criminal justice, border control, civil identification and defence personnel safety.

The solution provides access to biometrics enrolment and verification API's so our customers can quickly, easily and cost effectively access our biometrics engine for various needs:

- Identity theft / fraud
- Risk & compliance
- Customer experience
- Operational efficiencies

Being cloud-based and not device-based, various channels can be used - laptop, mobile devices, kiosk, interactive displays, etc.



Create an engaging customer experience with targeted advertising

Business Problems Solved

- Cost to manage current authentication methods is high and labour intensive
- Identity theft and identity fraud is very costly to organisations and erodes end-customer trust
- Compliance and regulation – sectors are under increasing scrutiny to ensure they comply with internal governance and regulation
- Improve customer experience and meet customer expectations
- Current authentication method is failing digital transformation
- Operational efficiencies
- Create new revenue streams

Use Cases

Healthcare

- Staff access management
- Compliance - staff access to systems and patient records
- Patient identification for access to records

Education

- Staff access to systems, student records and facilities
- Compliance - student verification for on-premise and online assessments
- Student access, systems, licensed software and rooms / facilities

Retail

- Personalised service for VIP customers
- Customer membership verification
- Access to point of sale counters
- Authentication for online e-Commerce sites

Public Service

- Claims validation
- Multi-factor authentication for transactions
- Employees accessing spaces / systems in office

Financial Services

- Multi-factor authentication for transactions
- Mobile app and internet service access
- Personalised services
- Employees accessing spaces / systems in office

Hospitality

- Customers greeted personally by staff
- Check-in or entry without physical pass / tickets
- Patient identification for access to records
- Employees accessing spaces / systems in office

Features & Benefits

Best of breed technology

Powered by NEC's NeoFace facial recognition software, which is independently recognised as the global market leader according to the National Institute of Standards and Technology (NIST) - exceeding all vendors in both accuracy and speed.

Cloud-based

Cloud-based (as opposed to device-based) biometric systems allow consumers to enrol multiple biometrics from a single device, and offer dynamic, universal, cross-channel access to digital services across applications and devices.

Cost effective

Consumption based pricing means you only pay for what you use no significant up front licence and implementation costs. Customers do not need to invest in building and hosting their own biometrics engine and domain capability.

Scalable

NEC ID can scale to manage millions of identities and performs to meet very high throughput demands.

Easy to implement

Easy access to APIs that allows customers to easily integrate into their legacy systems. This allows a customer to innovate with biometrics in a time and cost effective manner.

Easy to manage

Biometrics authentication replaces passwords, tokens, passes etc. - these can be costly, arduous, and easily forgotten, lost, stolen or hacked.



Secure and private

Biometrics is much safer and more secure than traditional authentication methods. You cannot steal, forget or have stolen your face, voice or fingerprint and hacking is difficult as biometrics hashed templates are created - NEC don't actually store the customer's image at all.



NEC ID can enable more efficient, personalised service

Biometrics in the Cloud versus On-Device

Deployment type	 Cloud-based	 Device-based
Level of identity assurance	Cloud-based always distinguish individuals. It creates a direct link between an individual and their Unique Verifiable Identity (UVI), providing a secure and reliable level of identity assurance	May diminish identity assurance. A single device may have multiple legitimate users - the device does not distinguish among these users
Foundational security	Secure, cloud-based biometrics systems do not allow password or PIN workarounds	For mobile devices, biometric authentication is a password or PIN <i>overlay</i> , not the foundational device security. If biometrics fails, a PIN can be used to access, complete a transaction, or enrol additional biometrics
Cross-platform authentication capabilities	Allows users to enrol from a single device and offer universal, cross-channel access to digital services across applications and devices	Do not provide cross-platform on-boarding or authentication and requires enrolment for each device, increasing the cost and friction

Why partner with NEC?

NEC has deployed its identification systems to over 1,000 customers in more than 30 countries. NEC leads the world in number of patents on sensor and matching technologies, and delivers unsurpassed facial recognition technology accuracy and speed.

Independent testing carried out by the National Institute of Standards and Technology (NIST) validates our status as a market leader. NEC ID matches both the subject’s biometric data with their metadata, allowing greater performance with 1:N matching. This is especially important for customers with large subject gallery sizes e.g. <1 million.

¹URL - <https://www.nist.gov/programs-projects/face-recognition-vendor-test-frvt> , Report - <https://nvlpubs.nist.gov/nistpubs/ir/2014/NIST.IR.8009.pdf>