INNOVATRICS

ABIS   **DOT**

ThaiD

Case Study | Control Data (Thailand) Limited | Digital National ID

Remote Identity Verification Opens Access to Thai eGovernment Services

21,000 identity verifications daily | **75M** users

In 2019, the Ministry of Interior of Thailand deployed Innovatrics ABIS for national ID issuance.

In 2022, the government decided to build a secure and unsupervised identity verification platform using a mobile application in order to provide more efficient public and private services.

Challenge

- Reliable remote identity verification from smartphones
- Accurate reading of the Thai National ID (NID) card
- Identity verification against national identity registry

As an alternative to the physical ID card, the resulting digital identity token will enable citizens to access the remote services of any government or private organization.

The main objective is to provide technology that makes digital IDs safer and more secure to use. It should make it extremely difficult to steal personal data while being accessible from a mobile app.

The new solution presented a few challenges: passive liveness detection and OCR of the Thai NID card. Another challenge was how to increase the face verification throughput on the ABIS side to meet the demand for digital IDs.

Solution

- Integrate remote identity verification components with ABIS API
- Make remote identity verification easy for everyone

As an extension of the existing NID ecosystem powered by Innovatrics ABIS, Digital Onboarding Toolkit (DOT) was deployed to enable unsupervised identity verification from a smartphone. The DOT components have been integrated into the government's ThaID mobile app.

A citizen uses the ThaID mobile app to establish digital identity on their smartphone. For that,

DOT is used for remote onboarding with all the critical identity checks being performed in the government data center (Innovatrics ABIS).

This ensures that the data can be trusted, resulting in a secure and government-endorsed digital identity token created on the citizen's smartphone.

Results

- Verification of at least 21,000 unique users daily
- Seamless access to secure eGovernment and private services
- Elimination of fake ID cards

Once a trusted identity token is activated on the citizen's smartphone, government or enterprise services can be easily and securely provided. By automating the process of accessing public and private services for citizens, the Thai government has eliminated the need for physical visits and strengthened national identity.

The government authority provides both the reference identity and verification method, eradicating fake cards and the need for document validity checks. This streamlines the process and enhances security significantly.

Security as a Priority

Innovatrics facial recognition and liveness detection technology eliminate the risks associated with fraudulent identities online by accurately identifying the user behind a smartphone.

Easy Scalability and High Availability

ABIS components will be orchestrated by the Nomad/Consul cluster providing process management, scalability, and high availability to the solution.

Reliable OCR Technology

Innovatrics document capture components, including OCR data extraction and authenticity verification on the server, can accurately read the Thai national ID. Together with its photo extraction feature, the selfies captured and sent for verification are powerful tools against identity fraud.

Before

0 remote identity verifications

OCR Throughput: 1,000 per minute
1:1 Throughput: 4,500 per minute

54 ABIS Servers

After

21,000 remote identity verifications a day

Throughput of transactions: 1,800 per minute

8 ABIS Servers

> " Prime Minister Prayut Chan-o-cha, who presided over the launch of the "ThaID" mobile application, said it was designed to make it more convenient for people to access state-run services. Gen Prayut expressed hopes that more state agencies and private agencies would make use of the digital ID system to streamline their services and urged media outlets to promote wider use.

Traisuree Taisaranakul,
Thai Deputy Government Spokeswoman

About Us

We are an independent EU-based provider of multimodal biometric solutions. Our algorithms consistently rank among the fastest and most accurate in fingerprint and face recognition. Since 2004, we have partnered with all types of organizations to build trusted and flexible biometric identification solutions. Our products are being used in more than 80 countries, benefiting more than a billion people worldwide.

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