tascent ®

Border Control

Deployment Type
Immigration and Border Checkpoint

Industry
Citizen Identification and Border Management

Products
Tascent InSight One

Summary

During the summer of 2021, Tascent successfully deployed a biometric verification system at a South-East Asian country's immigration and border checkpoints. Approximately 1,200 Tascent endpoint devices were installed to provide biometric images of travelers to the existing system, at both enrollment and identification stages of the identity workflow.

Context

A key economic and logistical hub in South-East Asia needed accurate, secure, and efficient iris and face enrollment for national ID and passport holders, along with immigration clearance for a border authority.

Challenges

Border officers face a unique set of challenges amidst very demanding circumstances while handling large and diverse groups of international travelers, maintaining secure borders, and presenting the welcoming face of the country. In addition, external factors such as economic migration continue to exert immense pressure on border officers as travel volumes rise and operating budgets stay level. One billion people cross international borders annually, and lines continue to grow, fueling the search for ways to make border crossing interactions smarter, more secure, and more efficient.

Project Scope and Objectives

Tascent's InSight One face and iris device was integrated with the full border management system to implement secure and efficient enrollment for national ID and passport holders, along with immigration clearance for a border authority. Objectives included operational flexibility, improved accuracy, better watchlist matching, and the ability to have multiple biometrics captured with one device.

Results Achieved

The system enhances the existing face and fingerprint enrollment and authentication systems in place by adding iris as a means of identification. This helps border authorities and travelers avoid common issues related to fingerprint verification, including an inability to capture or match due to scarring, aging, or dryness. The system has been rolled out at all country immigration points, including air transportation hubs and passport and national ID card enrollment facilities.

Notable Outcomes:

Intuitive Experience

The system's simultaneous capture of high-quality ISO-compliant face and iris biometric images provides a non-invasive, intuitive, and fast process.

Rapid Biometric Acquisition

InSight One is fully automatic and captures high quality dual iris and face images in about two seconds at a standoff distance of 0.5 to 1.0 meter. The images meet or exceed ISO / ICAO standards for format and quality.

Benefits to Stakeholders

- A seamless and low-touch immigration experience for travelers.
- Improved throughput, high success rates, and strengthened security for government agencies.

Key Takeaways

This project demonstrates that iris and face biometrics can bring a new level of performance to national ID and immigration systems, contributing to further safeguarding the country's national borders while offering a more efficient, convenient, and hygienic immigration process.

Other Border Control Projects

Tascent devices serve tens of millions of people annually as demonstrated by a number of successful project deployments in the Middle East, Asia, and Europe.

Multimodal Biometrics

Biometric technologies enable the recognition of individuals based on their physical and/or behavioral characteristics. "Multimodal" biometrics refers to making use of multiple biometric traits within a system: for example, matching against fingerprint, face, and iris.

Using multiple biometrics delivers greater accuracy for identity verification, more flexibility to account for user preference or identity infrastructure, and an enhanced basis for Presentation Attack Detection.

Tascent, Inc.
475 Alberto Way
Los Gatos, CA 95032

Get in touch with us to discuss how Tascent's biometric technologies can support your organization

sales@tascent.com

tascent.com