

# Augmented Borders™

**Changing perspective for  
an efficient, intelligence-led  
border control**





Alaska  
Alaska  
Alaska  
Southwest  
United  
Air France  
Virgin America  
Alaska  
United  
Alaska  
Delta  
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American

# A challenging context

**T**oday's increase in cross-border traveling means that border security agencies have to intensify their efforts to enable smooth, legitimate border crossing, while efficiently identifying and acting upon possible threats.

With budgets being cut or frozen and border agencies being understaffed, ever more verifications need to be performed in record time.

In parallel, the lack of real-time data exchange between countries – due to poor interoperability between national systems and limited supra-national initiatives – leads to a silo approach where border guards cannot make educated decisions to anticipate threats.

In light of these challenges, governments and agencies in charge of immigration should rethink the border control process in its entirety.

IDEMIA designed Augmented Borders™ in support of initiatives to modernize border control.

**This end-to-end border control suite is based on three main pillars:**



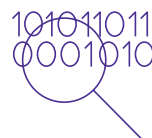
## 1.

Secure, digitalize and automate border crossing equipment



## 2.

Focus on a person-centric approach instead of a document-centric border management system



## 3.

Anticipate threats and assess risks for an intelligence-led decision-making process

# AUGMENTED BORDERS™

IDEMIA's suite of products and services to help you design your border control solutions

1

Mr. Smith has been planning his dream journey for six months. He organized everything in the smallest details and obtained all the necessary authorizations for his trip.

eTA<sup>1</sup>

## Threat and risk assessment

As soon as Mr. Smith boards the plane, his data is sent to the country of arrival. Upon reception, his data is cross-checked against reference databases and analyzed via a risk assessment procedure, in compliance with law and privacy principles.

2

Your eLanding card is ready

3

## Pre-border processing anytime, anywhere

On his way to the country of arrival, Mr. Smith can fill in all the information requested by the border agency.

API-PNR<sup>2</sup>

1: Electronic Travel Authorization  
2: Advanced Passenger Information - Passenger Name Record  
3: Automated Border Control

## A secure and fast border crossing experience

Upon his arrival, Mr. Smith breezes through the ABC<sup>3</sup> gate. He is securely identified with his biometrics.

After visiting the country of arrival Mr. Smith is travelling by bus to discover the landscape and visit a neighboring country.

5



**eGate**  
Operational  
supervision and  
exception  
management  
services

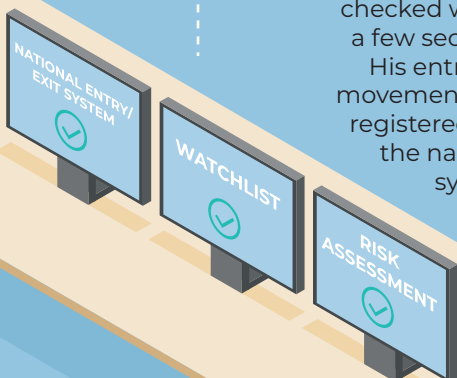
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## Smooth land border crossing

To speed up the border crossing process, Mr. Smith performs a simple, fast immigration pre-check. Now he can enjoy a quicker and more pleasant border crossing experience.

## 4 An efficient Entry/Exit System for a smart border clearance process

Mr. Smith's risk profile and eligibility to cross the border are checked within a few seconds. His entry/exit movements are registered into the national system.



**BORDER  
CHECK POINT**

NEIGHBORING COUNTRY



**eKiosk**  
Multi-biometric,  
self-service kiosk  
for immigration  
pre-checks



# Secure, digitalize and automate border crossing equipment

**F**acilitating the flow of travelers and streamlining the border control process are key to maximizing efficiency at borders. IDEMIA's border crossing equipment solutions maximize throughput while keeping the highest level of security without having to expand resources.

Designed as a combination of equipment – eGate, self-service kiosk, mobile handheld devices or smartphone-based solutions, as well as eCounter – and the supporting operational supervision systems, these solutions address all border environments (air, land, sea) and traveler profiles.

Based on accurate, multi-biometric technologies, IDEMIA's combination of hardware and software solutions helps border guards focus on their core mission rather than performing cumbersome and repetitive tasks.

## Key features



**Best-in-class, multi-biometric capture and matching**



**Walk-through, touchless, non-intrusive technologies**



**Embedded anti-spoofing capabilities**



**Fast, reliable identity checks**



**User-centric and ergonomic for both the traveler and the border guard**



**Easy access for children and persons with reduced mobility**



**Family/group processing**



**Centralized and mobile operational supervision solutions**



**Effective business reporting**



## A long-lasting partnership with the Australian Department of Home Affairs

In 2004, the Australian Department of Home Affairs entrusted IDEMIA with the deployment of its cutting-edge automated border control system at eight international airports.

Fifteen years later, Australia confirms this confidence with the replacement of existing kiosks by the next generation ready technology. In addition to the new kiosks there will be a refurbishment of the existing eGates. IDEMIA continues to support its client in thriving towards further innovation.

Through biometrics, this contract allows for the sustainment of the existing capability and includes upgrades and technology trials enabling the Australian Border Force to stay at the leading edge of technology, border security and passenger experience.

## A speedy debarkation process for Royal Caribbean Cruise Lines

The Royal Caribbean Cruise Line (RCCL) turned to IDEMIA to provide them with a fast, reliable and accurate way to identify ticketed passengers in order to speed up the debarkation process. The solution was deployed as part of the “Sea re-entry” program, an ocean-going version of the Biometric Exit program of the U.S. Customs and Border Protection. RCCL was provided with MFACE, IDEMIA's groundbreaking facial recognition device, which they used to identify passengers upon leaving the ship.

Sixty-nine MFACE systems were used in seven seaports and nine terminals, leading to a debarkation time two to three times faster than before.

Travelers enjoy reduced waiting times and a faster debarkation process, while RCCL can reliably verify the identity of millions of passengers annually and better allocate manpower.



# An integrated border management system

**B**ehind the visible part of any border control solution, there is a need for a strong back-end in order to manage a national system centrally.

The Entry/Exit system is at the heart of border management systems, more specialized systems like eVisa, asylum, electronic travel authorization, etc. are important building blocks that add value to the whole system. These systems ought to be powered by a biometric search engine that is fast and accurate. On top of that, they cannot work in a silo mode. This is why interoperability is key in order to interconnect them with each other and with all relevant national and external systems. IDEMIA's comprehensive suite of border management systems covers all the solutions needed to process all types of travelers while allowing authorities to have a real-time view on all movements in and out of the country.

With this integrated border management system powered by biometrics, governments can move from a document-centric to a person-centric approach. This leads to a better understanding of travelers' movements and enables border guards to make insightful decisions on the travelers' complete profile.

## Key features



**Comprehensive history: records and analyzes all entry and exit movements**



**Customizable business processes adapted to each category of travelers**



**Integrated and real-time management of all border crossing points**



**Privacy by design: GDPR compliant**



**Modular, flexible architecture**



**Scalable, fully interoperable and easy to integrate into existing IT environments**



**Can be provided as a whole or as an add-on to existing systems**



## UAE's multi-biometric Entry/Exit program

With one of the fastest growing economies in the Middle East and a population that is extremely mobile, effective and efficient border control is a matter of both national security and economic growth in the United Arab Emirates. The country turned to IDEMIA to launch its eBorders program, a comprehensive border management solution with a multi-biometric Entry/Exit system.

With a long history of implementing innovative solutions, the UAE's Ministry of Interior (MOI) wished to include face, iris and fingerprint biometrics in its eBorders program. With an integrated traveler database, the program's back-end system interfaces with the MOI's systems for background checks in national law enforcement databases. This ensures maximum security at the border while offering a seamless experience to bona fide travelers.

Today, airports in the UAE can process more than 15,000 passengers per hour at multi-biometric ABC<sup>1</sup> Gates, thus reducing waiting time and allowing staff to focus on their core tasks.

## A secure visa system for the Schengen area

Europe is the most visited region in the world with 710 million travelers in 2018.

Since the creation of the Schengen Area in 1995, there has been free circulation of people and goods, eliminating border control at internal borders between member states. One major benefit is that a short-term visa granted by any Schengen country is valid throughout the Schengen Area.

The biggest challenge for the EU visa management system is to ensure that a non-EU visitor is properly granted a visa by one member state, and is not trying to request visas from several countries of the Schengen area after a first refusal.

That is why the Directorate-General for Migration and Home Affairs of the European Commission turned to IDEMIA in 2011 to implement a Biometric Matching System (BMS). Five years later, a new consortium composed of IDEMIA, Accenture and Atos was awarded the renewal of the maintenance contract for the duration of four years. IDEMIA's BMS ensures secure visa applications by confirming that each person is issued one single visa for the Schengen Area. The BMS embeds IDEMIA's state-of-the-art multi-biometric search engine, MBSS, which is designed to provide high accuracy and availability. IDEMIA is proud to participate in Europe's initiative to make the continent more secure by leveraging on the power of biometrics.

<sup>1</sup> Automated Border Control



# A powerful risk assessment system

**R**isk assessment is a real game-changer in the decision-making process. Governments can now anticipate risks by processing and analyzing passenger data (API-PNR) issued by air, land and sea carriers. Thus, border guards can focus on travelers that really present a risk without interrupting the journey of bona fide travelers.

IDEMIA Traveler Analytics Suite (IDEMIA TAS) addresses all the critical steps of an effective passenger data management project. It helps government agencies better understand, detect and identify suspicious patterns of travelers presenting themselves at the border. This end-to-end, customizable suite is designed to be compatible with open source systems, short-term deployment and regulatory scenarios.

## Key features



**Reliable collection and real-time processing of large data flows**



**Already connected to more than 200 airlines**



**Customizable business rules**



**Smart data analytics and alert management**



**Simple and intuitive operator interface**



**Real-time adjustment to new threat patterns, minimizing false alerts**



**Modular, highly available architecture**



**Interoperable and easy to interface with existing border control systems**



## A modern API-PNR data collection and analytics solution in Chile

The increase in international security threats led Chile to put in place a comprehensive API-PNR solution to strengthen its borders and increase national security.

The Chilean government turned to IDEMIA to deploy a state-of-the-art solution in record time. IDEMIA TAS was up and running in less than four months.

Thanks to the high quality of the airline data gathered and processed by IDEMIA TAS, the Chilean government now benefits from a risk assessment solution with enhanced capabilities. By implementing this project, Chile aims to securely process up to 15 million passengers a year and collect API-PNR data from 32 different airlines.

The Chilean authorities are now better equipped to fight terrorism, drug trafficking and organized crime.

## An end-to-end API-PNR solution for France

France is the world's most popular tourist destination. With 90 million foreign visitors in 2018 and 100 million expected by 2020, border control represents a major security challenge. Not only does the French government need to know who is entering and exiting at all times, but French law enforcement agencies aim to prevent, detect, and investigate criminal activity and terrorist threats, while maintaining efficient passenger flow facilitation systems.

To this end, the French government chose IDEMIA TAS – a sophisticated and automated risk assessment solution designed to detect persons of interest and identify suspicious patterns, all in full compliance with legal requirements as well as EU PNR directive and privacy regulations.

Using flexible and standardized connectors, IDEMIA TAS collects data simultaneously from up to 230 airlines and allows secure real-time data sharing between ten French government agencies. They represent 70 passenger information units and more than 200 secured workspaces. Overall, up to 3,500 end-users and operators will process some 1 billion records over five years.

With IDEMIA TAS, French law enforcement agents now have the advanced, automated crime-fighting tool they need to detect risks and threat patterns in real time from a huge and growing volume of passenger data.



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