

AUGMENTED BORDERSTM LAND AND SEA

Modernizing and digitalizing
land and sea borders



Trusted by border agencies worldwide

With vast experience in border control, IDEMIA serves more than 30 government agencies worldwide, and has developed operational solutions that comply with both national and international regulations. Our solutions are currently helping government agencies at many land and sea borders around the world, for example in Iceland, Netherlands and the USA.

In order to meet the specific requirements of the varied border-crossing points, we provide a fully scalable suite of products and services. This suite is modular and interoperable and enables governments to optimize the design of their unique border control solution. To ensure that you are opting for the most efficient solution, our UX experts are able to conduct ad-hoc studies and analysis to assess your border control environment.

We strongly believe that biometrics are a key enabler that help secure borders while ensuring a pleasant border-crossing experience for travelers. Our algorithms regularly rank in the top tier across many modalities and multibiometric solutions in NIST evaluations. They are often called the most accurate, fair and consistent algorithms in the market, and are able to process the varying traveler profiles with the highest level of security.

Contents

1. Understanding the specific context of land and sea borders	4
› Managing the complexity	4
› A holistic view to address challenges at land and sea borders is key	7
2. One-stop-shop for modern and digital land and sea borders	8
› A comprehensive set of user-friendly solutions	8
› An integrated border control system	12
› A powerful risk assessment system	12
› A complete set of services	13
3. Trusted worldwide to protect land and sea borders	14

1 > Understanding the specific context of land and sea borders

Managing the complexity

Land and sea borders are particularly at risks to be used by human and wildlife traffickers as well as fraudsters as main entry/exit points to a country. Hence, government agencies are continuously working to enhance the quality of checks at land and sea borders, while not impacting the legal entry of, for example, cross-country commuters. The use of high-performance equipment and processes is vital to increase the identification of ill-intentioned individuals while improving the experience for bona fide travelers.

When securing land and sea borders, a large variety of use cases have to be managed. Land and sea borders are highly dependent on heterogeneous local infrastructures such as highways, secondary roads, ferry ports, cruise terminals, cargo docks, train stations, etc. The space and geographical configuration of the site usually generates unmodifiable constraints.



Border agents have to check and clear:

- › Incidental travelers, that can lead to a seasonal peak during high touristic season
- › Professionals (international lorry drivers, cargo vessel crews, etc.) who need to cross the border regularly and who can sometimes represent the majority of the flow
- › Border residents that cross the border regularly, sometimes on a daily basis

Some of these travelers are nationals, some are visa holders, and others are visa exempt—each category has a specific border clearance process.

Travelers use diverse transportation, for example, cars, lorries, buses, ferries,

cruise ships, etc. How do border guards check the identity of travelers with such a variety of transportation methods? Should they venture inside the carriage or should travelers disembark to be checked in a dedicated zone? And what is safer and more efficient for border guards; should they use a fixed system or should they have mobile tools?

Given the variety of situations, a one-size-fits-all solution is not a sustainable option. To support government agencies in their efforts to secure local borders, IDEMIA tailored its Augmented Borders products and services to help tackle the challenges of land and sea borders.



A holistic view to address challenges at land and sea borders is key



A holistic view to address challenges at land and sea borders is key

A complete concept of operations should be implemented in order to cope with some of the challenges that were presented previously.

PRE-CLEARANCE

To reduce the time needed at the borders themselves, border clearance—if possible and relevant—should start before the effective border crossing.

Pre-clearance prepares travelers for their border crossing. Answering security questions, providing information such as personal details on a travel document / vehicle license plate, or even capturing a selfie/fingerprints before the trip, can save valuable time.

RISK ASSESSMENT

The data collected in advance also allows border authorities to conduct risk assessments on travelers before they arrive at the border-crossing point. Analyzing the pattern/profile of each traveler enables border authorities to obtain a list of travelers who require more thorough checks, which streamlines operations onsite and allows better allocation of border resources to travelers that represent a higher risk.

REGISTERED TRAVELER PROGRAM

Another element that helps optimize checks onsite is the implementation of a biometrics-based registered traveler program. Frequent travelers would enroll once—this would entail capturing their data including biometrics and conducting background checks—and then benefit from a fast lane service, which is advantageous for all stakeholders as these travelers are low-risk profiles.

ON-SITE CLEARANCE EQUIPMENT

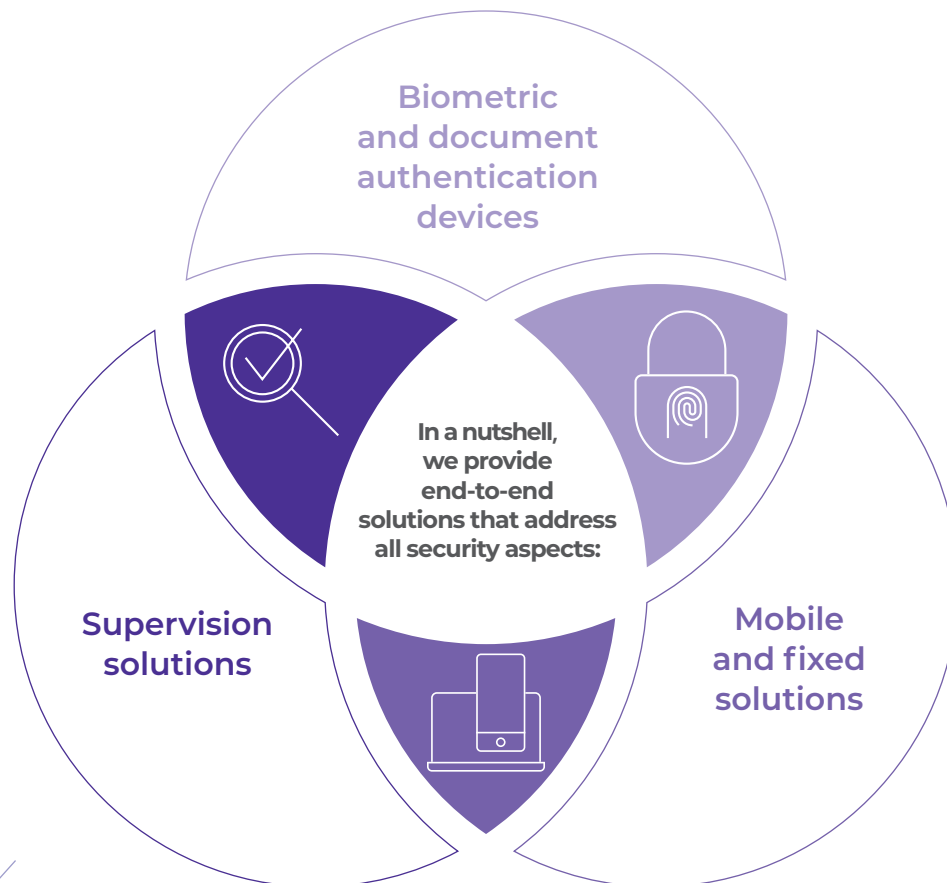
Whatever the border-crossing point, border agencies must facilitate the flow of travelers and streamline the border clearance process in order to maximize efficiency without compromising security. To enable border guards to focus on their core mission instead of performing time consuming and repetitive tasks, adapted equipment should be deployed at the border: indoor or outdoor, fixed or mobile, operated or self-service. To this end, we recommend the use of mobile equipment to provide border guards with greater agility in their daily tasks. The technology deployed at the border should also address specific use cases such as processing entire families, among others.

2 One-stop-shop for modern and digital land and sea borders

A comprehensive set of user-friendly solutions

IDEMIA's high-tech, multibiometric solutions are ideal for use at land and sea borders, and suitable for varied traveler profiles.

All of IDEMIA's best-in-class biometric capture solutions integrate Presentation Attack Detection (PAD) and biometric quality assessments. Our equipment and systems are developed in accordance with the Privacy by Design principle.



1. Easy-to-integrate biometric and document authentication devices, developed and produced by IDEMIA



MFACE™

Walk-through, multi-face capture with high matching accuracy and anti-spoofing capabilities. Uses ambient light and does not require height adjustment.



MorphoWave™

On-the-move, touchless four-fingerprint capture with a simple wave of the hand, integrated with highly accurate PAD capabilities.



TravelTotem

Fast and accurate face capture to speed up the border clearance process at immigration counters.



MTop Slim

The smallest sensor of its kind for simultaneous four-fingerprint capture and matching, with highly accurate, integrated fake-finger detection.



Desktop Document Authentication solution

Advanced travel document reader verifying the authenticity of a comprehensive range of travel documents (over 4,000 document types that are currently in use)

OneLook™

Contactless iris and face capture, with high matching accuracy and anti-spoofing capabilities. The fastest multi-biometric solution of its kind, offering walk-through face and iris capture capabilities.

2. Mobile solutions

ID Screen 60 for Travel

All-in-one, multi-biometric tablet allowing border guards to enroll travelers and verify their identity anytime, anywhere, without compromising data security.



MobileCheck

Multibiometric, ruggedized suitcase enabling border guards to conduct a complete border clearance check, and providing all the flexibility needed to move from one site to another with ease.

Capture SDK for Travel

Upgrades border guards' smartphones with biometric and travel document capture capabilities to seamlessly verify the identity of travelers.

3. Fixed solutions



TravelKiosk™

Multibiometric self-service kiosk allowing travelers to pre-process their data autonomously before their effective border crossing (at a counter or through an electronic door (eGates)) in order to optimize the flow of passengers.

TravelCounter

Comprehensive and modular manual border counter solution, helping border guards with their daily tasks to ensure a fast and secure traveler clearance process.

TravelLane™

Multibiometric, versatile, and fully automated border crossing solution, speeding up passenger flow and improving traveler convenience while offering a high level of security.



4. Supervision solutions

MorphoMaestro™

Real-time operational supervision enabling border guards to simultaneously monitor various eGates and react to any events on the field.

IDAP

A single portal that provides a technical monitoring solution to manage and control a fleet of field equipment and IT infrastructure used at borders, such as kiosks, eGates and operating systems.

An integrated border control system

An efficient border control solution needs a stable and reliable backend to ensure the continuous management of borders. An Entry/Exit System (EES) is at the heart of it and typically relies on external sources of data such as national and international watchlists, visa databases, population registers, etc. Interoperability is key to interconnect the different information sources and to expedite the clearance process. Powering the EES with a biometric search engine can enhance its efficiency.

IDEMIA's Augmented Borders Central System helps governments move from a document-centric approach to a person-centric approach. This EES backed by our state-of-the-art biometric engine, permits a better understanding of travelers' movements and enables border guards to make insightful decisions based on the traveler's complete profile.

Augmented Borders™ Central System key features:



- › Comprehensive history: records and analyzes all entry and exit movements
- › Customizable business processes adapted to the specific category of travelers
- › Integrated and real-time management of all border-crossing points
- › Flexible architecture to meet country-specific needs (e.g. local infrastructure vs. fully centralized system)
- › Can be provided as an entire solution or as an add-on for existing systems
- › Future-proof, highly modular and easily scalable
- › Designed for high availability and data security

A powerful risk assessment system

An efficient risk assessment system is a real game-changer in the decision-making process at borders. It enables governments to anticipate risks by processing and analyzing passenger data ahead of the traveler journey. This data can be collected from carriers, but it can also come from pre-clearance questionnaires and forms filled out by travelers. This allows border guards to focus on travelers that pose a real risk without interrupting the journey of bona fide travelers.

IDEMIA Traveler Analytics Suite (IDEMIA TAS) addresses all critical steps of an effective passenger data management project. It helps government agencies understand, detect and identify suspicious travel patterns of individuals presenting themselves at the border.

IDEMIA TAS key features:



- › Reliable collection and real-time processing of large data
- › 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 and highly available architecture
- › Interoperable and easy to interface with existing border control systems

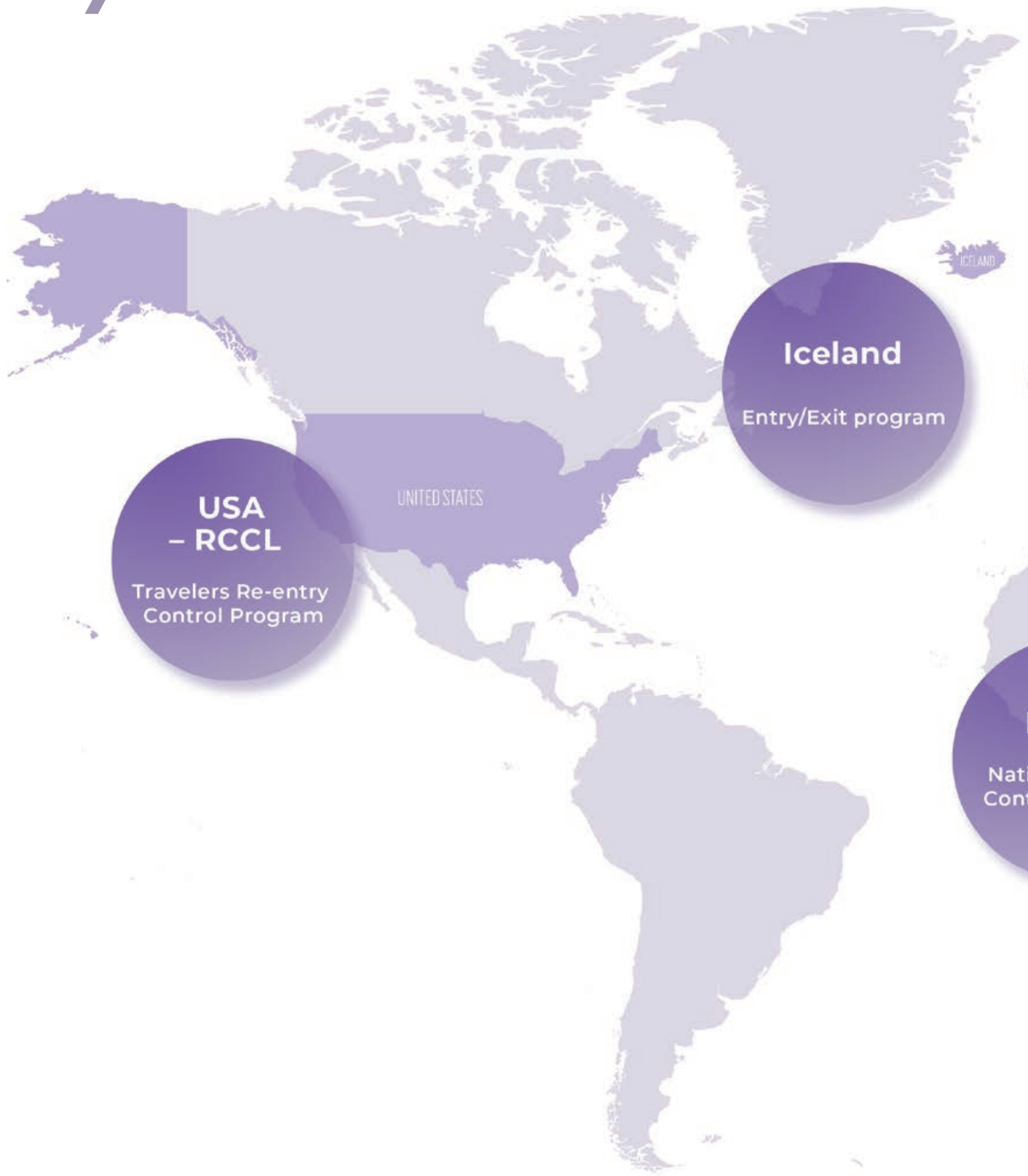


A complete set of services

IDEMIA accompanies you every step of the way with a complete range of services:

- › Consultation, assessment of requirements and project management advice from the beginning to the end
- › Implementation of proof of concept or real-life testing to assess the solution in your environment to ensure it delivers the expected results
- › Onsite support of IDEMIA's UX design experts to increase the solution's convenience and ease of use
- › Installation and maintenance of the system
- › Training of local operators
- › 24/7 helpdesk and support

3 Trusted worldwide to protect land and sea borders





And many more... along with several innovative pilots around the world to better meet border guard expectations and test proof of concepts in real conditions, notably in the Middle East and APAC regions.

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idemia.com/augmented-borders