

# IDEMIA Traveler Analytics Suite



Smart analytics for efficient  
risk assessment at borders



Government agencies today face conflicting objectives: securing borders while facilitating travelers' crossing those same borders.

Threat assessment has become the cornerstone of border management. As soon as a journey is booked, passenger data can be cross-checked against external reference databases and analyzed via a risk assessment procedure for security clearance purposes. This complex process must be performed swiftly and efficiently.

To meet this challenge, IDEMIA has designed IDEMIA Traveler Analytics Suite, a comprehensive traveler data collection and risk assessment solution. It offers a unique and modular risk analysis approach to improve border management, in compliance with law and respecting privacy.



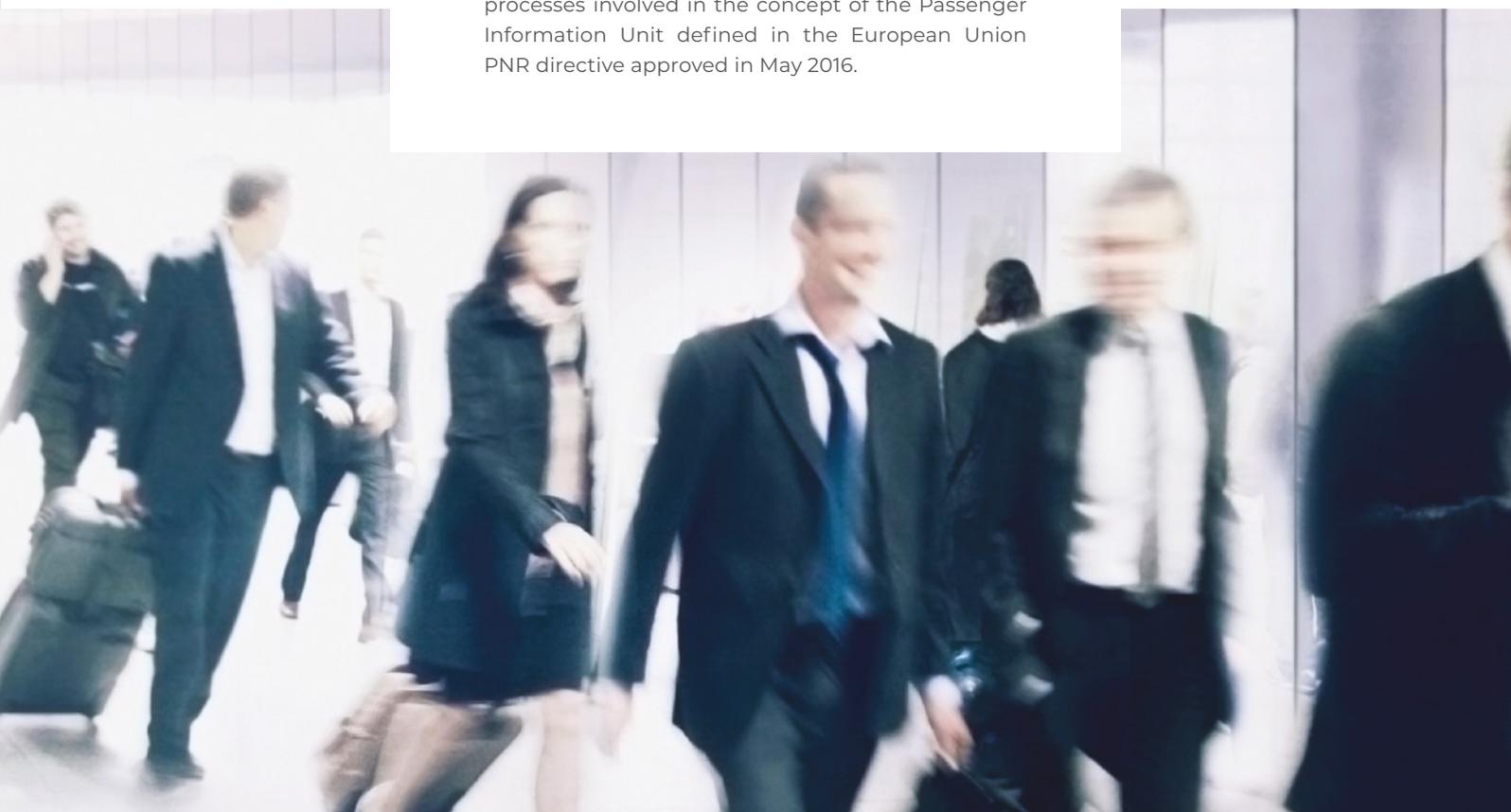
## For an effective passenger data analysis solution

IDEMIA Traveler Analytics Suite addresses all the critical steps of an effective passenger data management project. It helps government agencies detect persons of interest and identify suspicious patterns through:

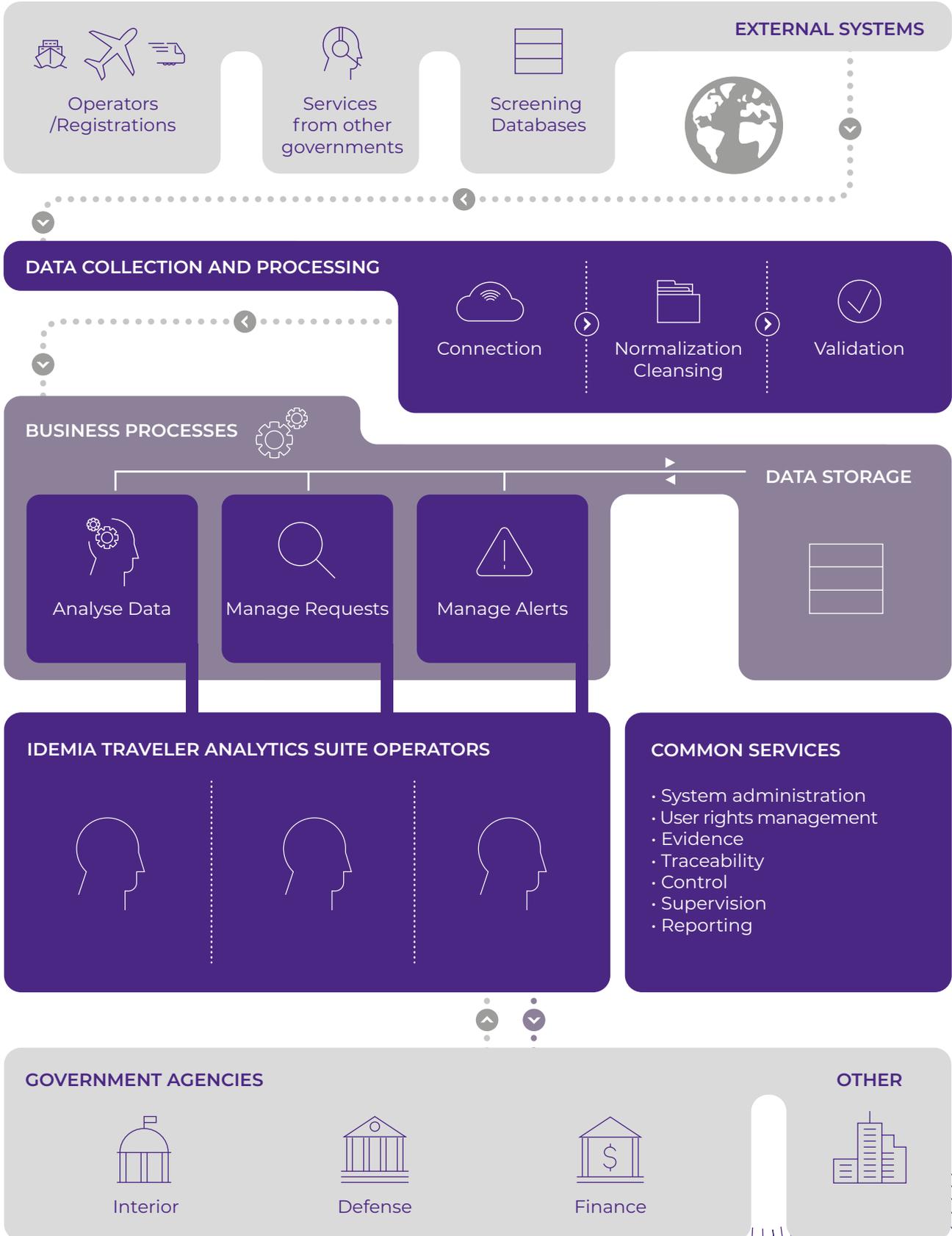
- › **Passenger Name Record (PNR) data collection and processing**
- › **Batch and interactive Advanced Passenger Information (API - iAPI) data collection and processing**
- › **Smart data analysis**
- › **Alert management**

These functions are delivered by IDEMIA Traveler Analytics Suite as a set of Commercial Off-The-Shelf modules. Each project can include one, two or all modules, for integration into existing processes and systems. IDEMIA is committed to giving you all the support you need throughout your project.

The suite is designed to be compatible with a wide range of open source components, short-term deployment and regulatory scenarios – including processes involved in the concept of the Passenger Information Unit defined in the European Union PNR directive approved in May 2016.



## A smart and comprehensive solution



## Data collection and processing

Through flexible and standard connectors, the data collection and processing features offer easy and reliable recovery of passengers' API-PNR data, through existing networks, for multiple data sources and formats. In addition, the data is filtered according to both local regulations and privacy rules. It also standardizes controls and consolidates data to optimize the analysis.

IDEMIA Traveler Analytics Suite architecture (data storage, security features) allows for a rigorous auditing of compliance with data privacy rules.

## Interactive API (iAPI)

Interactive API (iAPI) is an additional way to enhance border security. One of the main characteristics of iAPI is the ability to exchange electronic messages in real-time, individually for each passenger, between the border control authority and the carrier in the country of departure and destination.

When a traveler registers to board a flight, his / her data flows from the control system at the departure point of the carrier to the border control authority at destination. This data is processed with predefined business rules and cross-checked with watchlists. The authority in turn, returns an electronic message to the carrier which allows or forbids the traveler to board. This is a real-time, unambiguous "OK to Board/Not OK to Board" message.

## Smart data analysis

This is at the core of any passenger API-PNR data management project. It involves two key steps:

### Traveler data screening

To detect persons or data of interest, passenger information is compared with external databases (wanted persons or information of interest). To maximize the chances of relevant matching, the searches can be coupled with a fuzzy logic engine.

### Traveler data targeting

Besides traditional multi-criteria search functionalities, more elaborate risk-based analysis can be performed on passenger data to detect suspicious behavior and patterns of interest requiring particular attention. This is managed and controlled by operators according to predefined business rules. It can also detect atypical behaviors and anomalies.

These advanced search and data analysis functions are carried out using a simple and intuitive operator interface offering:

- › Powerful functionalities for complex risk analysis, easy to set up and build upon
- › Data sharing and restriction between different sets of users through strict management of access rights
- › A single window function enabling a control team to check the requests and validate the results before sending it to the final user
- › Advanced reporting tools to constantly measure the effectiveness of cross-checks and risk analysis performed on the platform

## Alert management

In case of a positive match with a wanted person or following a positive risk-based analysis outcome, an alert management process is carried out for the passenger in question.

This process is matched to each customer's business rules. It implements levels of alert qualification and validation in accordance with the customer's procedures.

Based on an effective workflow engine, associated with a user friendly operator interface, IDEMIA Traveler Analytics Suite offers an efficient alert management process, in a fully monitored and auditable way for continuous improvement.

## Key benefits

- › An end-to-end and modular solution
- › Seamless interfacing with existing border control systems
- › Supports all airline protocols
- › Unique analytics capabilities
- › Easy-to-use, advanced operator interface
- › Open source technologies, adaptable to the customer's needs and processes
- › High availability architecture
- › Privacy by design
- › Real-time processing of large data flows

## IDEMIA, a trusted partner

IDEMIA builds trustful and lasting relationships with national and international organizations.

These partnerships are part of a global approach where stakeholders work together to achieve shared goals:



### INTERPOL

IDEMIA provides INTERPOL with secured Travel Documents (VIP passports and ID cards) and a centralized criminal AFIS (Automatic Fingerprint Identification System) for all the partner governments, based on IDEMIA's unrivaled biometrics technologies.



### IATA

IDEMIA is a strategic member of IATA, attending the Facilitation and Passenger Experience & Smart Security Workgroups as well as the PADIS (Passenger and Airport Data Interchange Standards) board.



### ICAO

IDEMIA, as convener of the ISO/IEC JTC1/SC17/ Working Group 3 (Machine readable travel Documents standardization body), is part of the Technical Advisory Group (TAG-TRIP), the New Technology Working Group (NTWG) and the Implementation and Capacity Building Working Group (ICBWG). As such, IDEMIA is also an advisor to the PKD Board and a member of its Executive Body.

Moreover, as chair of the ICCAIA Aviation Security committee, IDEMIA observes and represents the aerospace industry at ICAO.

## Meeting the challenges of your project

IDEMIA gives you all the support you need throughout the project, such as:

- › Definition of certificates and protocols
- › Definition of standards and standardization of processes
- › Analysis of legal framework (law and privacy)
- › Interfacing with external systems (SIS, Interpol...)
- › Establishment of a standardized communication platform between airlines and government agencies
- › Compliance upgrade of airlines interfaces to the standardized communication platform
- › Support and guidance for airlines throughout the transition phase



## IDEMIA's references, focus on:



### ARGENTINA:

API-PNR to prevent & combat cross-border crime

**IDEMIA provides the government of Argentina, represented by “Dirección Nacional de Migraciones” with an innovative & modern API-PNR solution, paving the way for improved security for both air and sea borders.**

Argentina is known as a country in the region seeking innovative and effective solutions to bolster homeland security and optimize resources deployment in its fight against cross-border crime.

The “Dirección Nacional de Migraciones” selected IDEMIA in September 2016 to provide, deploy, support and maintain its Advanced Passenger Information solution for a duration of 3 years. In 2018, The “Dirección Nacional de Migraciones” renewed its confidence in IDEMIA by extending the solution to Passenger Name Record data. IDEMIA offered a customized solution to help the government collect and process API-PNR data from international airlines and maritime agencies, in compliance with legal and privacy requirements.

All booking information for all flights and cruises to and from Argentina has been collected since the service went live on March 1<sup>st</sup>, 2017.

### Key facts

- › Solution-as-a-Service
- › Support and guidance to airlines throughout the transition phase
- › API data collection & processing from 32 airline companies and 13 maritime agencies
- › PNR data collection & processing from 5 international airlines
- › Short lead time: system development and deployment in less than 6 months
- › Throughput:
  - API: 6 million passengers per year
  - PNR: 2 million passengers per year



### FRANCE:

Boosting law enforcement agencies efforts in fighting organized crime & illegal immigration

**IDEMIA supports the French Government by modernizing passenger data management processes and targeting techniques.**

Within French anti-terrorism laws and the European Union's API-PNR directive, the French government has set up a joint ministerial committee to implement an API-PNR system. Its objectives are to prevent, detect and investigate terrorist threats and serious crimes.

The joint committee required an effective and modern tool to automate existing techniques, identify sensitive or suspicious patterns and enhance passenger controls.

In early 2014, the French government selected IDEMIA to design and roll out the API-PNR system, in compliance with law, EU recommendations and privacy requirements.

IDEMIA offered a smart and comprehensive solution which addresses all the critical steps of an effective passenger data management project.

The solution supports government agencies with the following actions:

- › Obtain information from the passengers database by cross-referencing criteria
- › Identify suspects based on pre-tested standard profiles
- › Compare collected passenger data with data from national, European or international processing systems
- › Tag/identify and manage risky profiles

### Key facts

- › End-to-end API-PNR solution
- › GDPR compliant
- › High level of security: compliant with ANSSI guidelines
- › Connection to 10 government agencies
- › API-PNR data collection from more than 200 airlines
- › Management of up to 100 million passengers annually
- › Processing of one billion records over 5 years

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