

IDENTIFICATION

# MORPHOWAY™

AUTOMATED BORDER CONTROL SOLUTION

THE GATEWAY TO MODERN TRAVEL



## A NEED FOR FLAWLESS, YET FASTER CONTROL AT BORDERS

The massive increase in the number of travelers going in and out of countries, along with the acute awareness of the risks related to terrorism and illegal immigration, have led governments and airport authorities to encourage changes in their border control procedures, with the help of new technologies: biometric credentials, such as e-passports, e-visas and e-IDs along with the automated e-gates capable of checking them.

## THE ANSWER FROM THE N°1 PROVIDER OF BIOMETRIC SYSTEMS

MorphoWay™ automated e-gates are specifically designed for modern border control. They help reconcile two inherently contradictory objectives: **security** and **facilitation**. Based on the latest biometric recognition technologies (fingerprint, iris(\*), face), MorphoWay™ speeds up passengers screening, greatly reducing queuing time at borders, whilst guaranteeing optimum security. MorphoWay is sized to fit in environments with space constraints.

### Morpho, a Pioneer of Automated Border Control

Morpho is committed to developing pioneering technology solutions based on biometrics. The company can boast several worldwide premieres in the field of automated border control: SmartGate Australia: 1st e-gate using ICAO e-passports; IRIS UK, 1st registered traveler program using iris recognition and PARAFE France, 1st solution with extended access control (EAC).

### MorphoWay, for Which Types of Passengers?

- Nationals
- Foreigners with visa waivers
- Foreigners with visa
- Frequent travelers

### MorphoWay Helps Authorities Fight Against Multiple Forms of Fraud

- Document authenticity check
- Biometric authentication: best algorithms available on the market, liveness detection
- Uniqueness and left item detection
- Thorough monitoring: the e-gates are transparent and thus visually supervised by border control officers; they are also equipped with CCTV cameras that transmit real time images to the monitoring station.
- Real-time searching and matching against watch-lists

As a result, MorphoWay's many features have a dissuasive effect: they deter fraudsters from attempting passage with fake, forged and tampered passports (chip and booklet).

### MorphoWay Benefits All

- To airport authorities, it brings facilitation and improved passenger experience
- To government authorities, it guarantees a better security screening
- It allows police and border control authorities to better manage their manpower resources by focusing border guards on people of interest
- To passengers, it brings comfort and peace of mind. Travelers have the assurance that their specific needs are taken into account.

(\*) Iris new generation available in 2012

# THE GATEWAY TO MODERN TRAVEL

## MorphoWay Focuses on Security

MorphoWay is designed to:

- Verify the authenticity of the travel document
- Verify that the document holder is the document owner
- Verify that the person is allowed to cross the border

## Key Features

- On-the-Fly Facial Recognition
  - Faster, easier, with less constraints for the user
- Liveness detection
- Modularity:
  - E-document reader inside the e-gate or at its entrance
  - Contact/contactless card reader
- ICAO document reading
- Management of banks of e-gates
- Monitoring Station

## Optimal System Management

To get the best value and user satisfaction out of their MorphoWay network, customers have at their disposal a number of tools:

- **Monitoring stations** allow border control officers to supervise a number of e-gates
- **Computation of statistics and reports:** number of persons having crossed the gates, clearance rate, average crossing time, availability rate of the system, etc.
- **Technical monitoring** of the system: depending on the requirements, MorphoWay can be interfaced with other existing monitoring systems or offer its own monitoring equipment, including the management of the software versions.

## Small Footprint

2.5m<sup>2</sup> (1.058m x 2.410m)

Or 27.445 sq ft (3.471ft x 7.907ft)

The width inside the e-gate is 0.65m (2.13f)

Or 0.9m (2.923ft) as an option to accommodate people with reduced mobility



Compatible with all ICAO recommended biometrics:  
Fingerprint, facial and iris recognition.

**Fastest e-Gates on the Market**  
Independently from the chosen biometric method  
(facial, iris or fingerprint),  
MorphoWay delivers the fastest border crossing time:  
7sec in optimal conditions of use.  
Furthermore, our e-gates have the fastest response time  
(opening and closing): under 0.5sec.

**Enhanced Safety for Travellers**  
Equipped with sensors, the doors  
cannot hurt a passenger when closing.

**Guaranteed Interoperability**  
Designed in compliance with the ICAO (International Civil  
Aviation Organization) recommendation on biometrics,  
the MorphoWay solution is compatible with all  
BAC and EAC standard (Basic Access Control,  
Extended Access Control)  
e-passports and travel documents.

Left item detection



# MORPHO, THE TRUE SENSE OF SERVICE

## MorphoWay, Tailored for a Perfect Fit

Our solution is a complete system, not just an e-gate. It brings real value to customers wishing to receive support and expertise throughout their project.



### Project Definition

- Solution architecture definition
- Project sizing (study of travelers flows, simulation)
- Coordination with all partners involved: government authorities, sea-port/airport authorities, airlines, etc.
- Business model development
- Selection of best deployment locations
- Etc.



### Operation

- Project planning
- Project coordination
- Roll out
- Tests
- Operators training
- Training of trainers
- Change management



### Services

- Performance analysis
- Customer support – Hotline
- On-site intervention
- Customer's maintenance personnel training

## MORPHO, CLOSE TO OUR CUSTOMERS' NEEDS

Morpho has more than 6,300 employees worldwide serving its customers. Our local presence, through our subsidiaries and premier partners, allows us to be attentive to the specificities of our customers and support them throughout their projects.

### The Australian SmartGate Program, when Close Collaboration With the Customer Leads to Success

Faced with a constant increase in air passenger traffic number since 2001, the Australian Customs and Border Protection Services decided to develop automated border control in their airports (SmartGate concept). During the definition phase (2002-2004), Morpho and the customer's various entities worked together to fully clarify the border control business processes and define the most adequate solution for Australia. Roll-out started in 2007.

SmartGate encompasses a two-step process: traveler identification at a self-service kiosk and biometric verification (facial) when walking through the e-gate

SmartGate is deployed in the 7 major international airports at Adelaide, Brisbane, Cairns, Gold Coast, Melbourne, Perth and Sydney.

### The New Zealand Program, a Success With Travelers

Further to the successful implementation of SmartGate in Australia in 2007, New Zealand Customs adopted the SmartGate technology in 2009, with kiosks and e-gates deployed at Auckland, Wellington and Christchurch airports. The program was acclaimed by the public: more than 50% of eligible travelers used SmartGate within the first four months of implementation. The program was awarded "Project of the Year" in 2010 by the Project Management Institute of New Zealand (PMINZ).

### The French PARAFE Program

The PARAFE program automates passport controls at French borders. It is compatible with European machine-readable passports (with preregistration), e-passports (with pre-registration), and shortly with biometric passports (will not require pre-registration). The control e-gates in airports are connected to a national supervision center. Both Charles-de-Gaulle and Orly airports, near Paris, are equipped with PARAFE e-gates. A survey conducted by Aéroports de Paris, among passengers and airline employees has established a satisfaction rate of 98% from users.

## KEY MISSIONS, KEY TECHNOLOGIES

### **Morpho**

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