Why Thales ?

- A World Leader in Defence and Security markets
- Unique ability to mix expertise in Border control, biometrics and airport global security
- Recognized expertise in secure identity document and biometrics
- More than 300 million of secure Identity documents produced by Thales systems to date
- Unique track record, with over 30 years of experience in integrated identity management programs worldwide
- Thales ID document production and control systems in operation over 25 countries
- Extensive experience in document design to fight counterfeiting and falsification
- Full understanding and compliance with International standards
- Capacity to integrate off the shelf products and/or proprietary solutions

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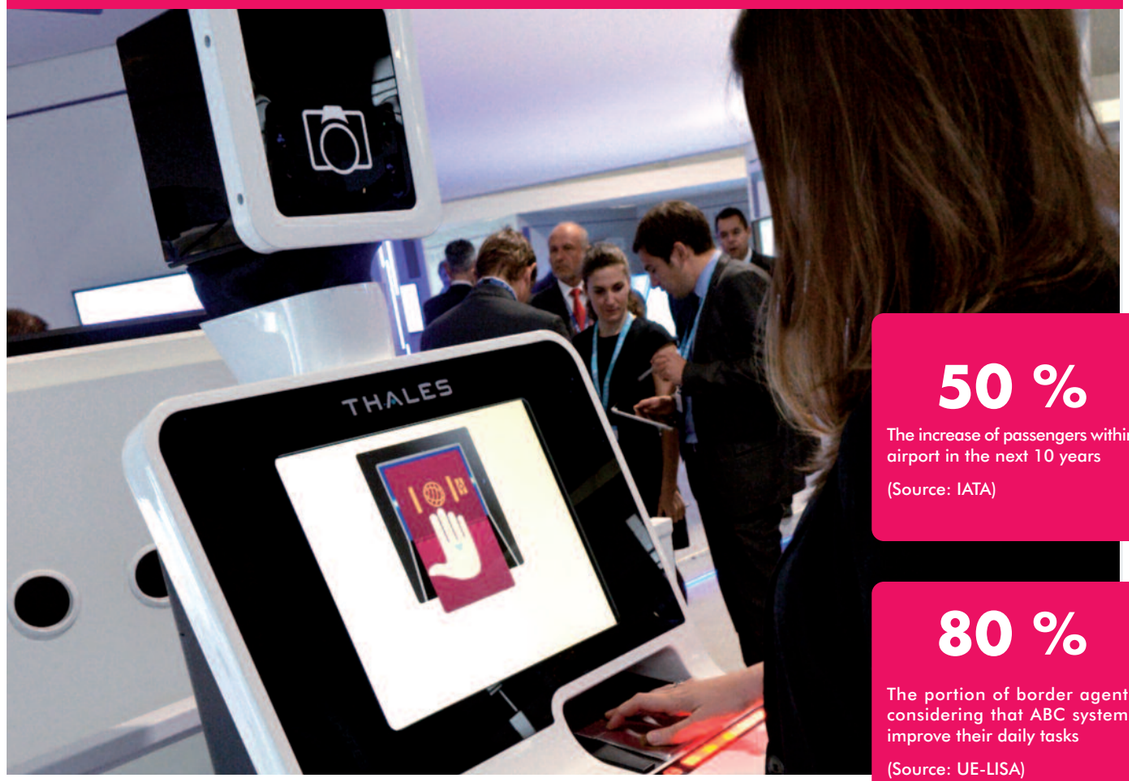
INNOVATIVE CONCEPT

SMART BORDER CONTROL

Making no compromise between passenger flow and security



Border control and management is a worldwide challenge for border agencies since decades. The increasing volume of people crossing borders everyday through airport, land or sea points, coupled with stricter security/safety regulations and new types of threats increase the challenge faced by border control agencies.

Based on its strong experience and unique combination of capabilities, Thales is already committed to support the current and future challenge of border control with the development of an innovative Automatic Border Control (ABC) solution which will drastically improve performances compared to the current solutions, and for the benefit of all stakeholders (citizens, border agencies and/or airport operators or transport organizations)

50 %

The increase of passengers within airport in the next 10 years

(Source: IATA)

80 %

The portion of border agents considering that ABC systems improve their daily tasks

(Source: UE-LISA)

89 %

The level of satisfaction of travelers having used ABC systems in an airport

(Source: UE-LISA)

OPTIMISED PASSENGER EXPERIENCE

Thales has developed an innovative ABC gate with the objective to improve the passenger experience by drastically decrease the time needed to cross border.

To achieve this, Thales' innovative ABC proposes 2 steps:
- a biometrics kiosk to perform all security checks and enrolment.
- Then an "on the move" biometric gate used at the immigration

STEP 1 Passenger & Document Authentication

Self Biometric Clearance Kiosk

Touch Screen
- User guidance

Full page passport reader
- Biographic data
- Passport & ePassport reading, authentication and control

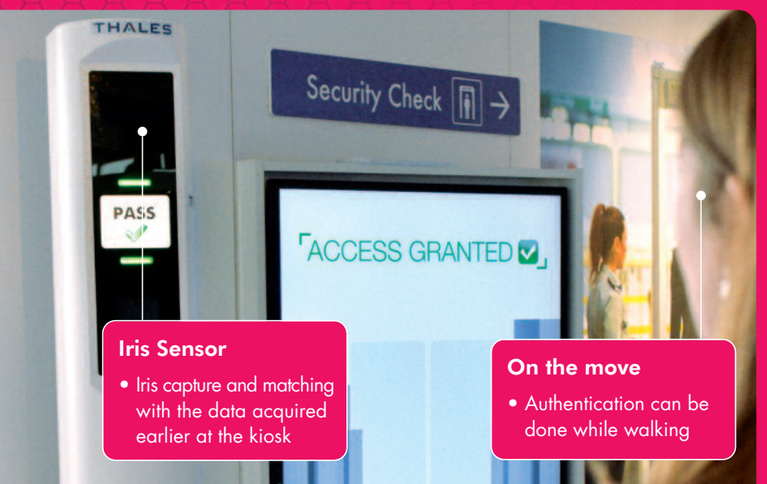
Face and Iris Sensor
- Facial comparison with photo included in the passport to authenticate holder
- Iris capture of the traveler to be used later at the immigration

Boarding Pass issuance
- Biometric boarding pass issuance including a high definition QR code integrating captured biometrics and biographic information

Fingerprint Sensor
- Capturing and controling up to 10 fingerprints

STEP 2 Fast and secure border crossing

On the move border crossing



Iris Sensor
- Iris capture and matching with the data acquired earlier at the kiosk

On the move
- Authentication can be done while walking

BENEFITS

- Perform all security controls and authentication at step 1 and before step 2
- Control more passenger with limited human resources
- Improve passenger journey
- Increase population eligible for such eGates programs
- Secure storage and exchange of biometric data

BENEFITS

- Fast and simple authentication based on previous controls performed on the kiosk
- On the move control to improve throughput
- Focus the border officer on added value tasks
- Secure connection with the biometric kiosk

Drastically improve border crossing time

Such an approach will only keep the authentication phase (iris match 1:N) at the immigration. By having done all security checks before, the passing time will be drastically reduced, increasing both passenger throughput and level of satisfaction.

Shortening queuing at critical points inside the airport maximize the experience offered to passengers but also increases airport revenues as passenger can spend more time in the duty free area.

Focus security officer on value added tasks

All organizations need to cope with limited resources that need to be properly allocated to optimize their efficiency. The solution developed by Thales intends to automatize as much as possible the security checks and authentication that can be done by the traveler at the kiosk. However, this type of system will not replace security officers. Border officers will be able to focus on the portion of populations presenting a profile at risk by using all its expertise instead of performing repetitive controls on the entire population.

Iris to boost Passenger border crossing

As an expert in biometrics deployment and usage, Thales has developped its own sensors and algorithms for iris matching.
Iris is the only biometric modality that enables an efficient and accurate on the move matching with a low false alarm rate compared to facial recognition for instance. As, the capture and matching is contactless, all issues related to hygiene or sensors' cleanness are excluded.

Improving the complete process for all stakeholders

If applied in an airport environment, Thales innovative Automatic Border Control can be coupled with additional components.

- Secure Boarding Pass: the kiosk can issue a boarding pass with a secure QR code that includes the traveler photo "of the day" that have been taken for the facial recognition. This will facilitate the control before take-off by airline staffs with immediate recognition of the passenger's recent portrait.
- Boarding Pass Control System (BPCS): simple devices connected to the airport system enabling airport agents to control and guide passengers. By presenting their boarding pass, passengers can make sure they are on the right direction; operator can quickly control the passenger, airport knows the exact occupancy by area.

This solution can also be extended to other types of border having similar constraints such as ferries, cruise ships, trains station.

INCREASED PASSENGER THROUGHPUT