Benefits of Biometrics for Border Control

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"Your biometric data are your identity"

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Gemalto: world leader in digital security





What are the drivers for using Biometrics at Border?

PASSENGER FACILITATION:

Air Travelers rising from 3,8 to 7,2 Billion

Source: IATA – Period: 2016 and 2035
Passenger demand to double over 20 years

1BIL EPASSPORTS ON THE FIELD

From 500 Mil in 2013 to 1Bil in 2017: 57% of total are ePassports

Large ePassport footprint for wide scale usage of systematic, automated controls

COUNTRY SECURITY:

Detection of ID Fraud or wanted persons

Interpol reports **68 Mil Stolen or Lost Passports** that can be used to enter a country under a false identity

PROCESS OPTIMIZATION:

Self-service & process automation

Automation is the first response to increasing traveler flows, limited space & limited manpower

DIGITAL PROOF OF IDENTITY:

Biometric Recognition Technology

Biometric recognition offers precise and fast identification at the airports

MOBILE SUPREMACY:

Airline & Airport mobile applications

Check-in is moving out of the Terminal. Mobile check-in is on the rise



Why Biometric identification enhance Borders Control?

- Improve traveler verification & clearance
 - **XEnhance Security**:
 - 💢 before the border: eVisa, ETA, consular, pre-screening, PNR ...
 - x at border: biometric enrolment / verification /identification
 - inside the country: interoperability, control checks, mobility
 - **XFraud**: protect against identity theft and detection of Visa fraud
 - **XFacilitation**: facilitate legitimate traveler with fast border clearance for trusted travelers



Biometrics is recommended by the UN the use of biometrics as part of their target of zero statelessness for all global citizens by 2024 and legal identity for all by 2030



Biometrics to allow Trusted Traveler Facilitation

- Biometric enrollment at 1st entry for TCN (third country national)
- Facilitated Exit with automated Biometric authentication
- Facilitated re-Entry once registered to the system

Biometric enrollment



Creation of a Biometric record

Expedited
Biometric Exit





ARRIVAL



Quality Assurance



Biometric verification and/or identification

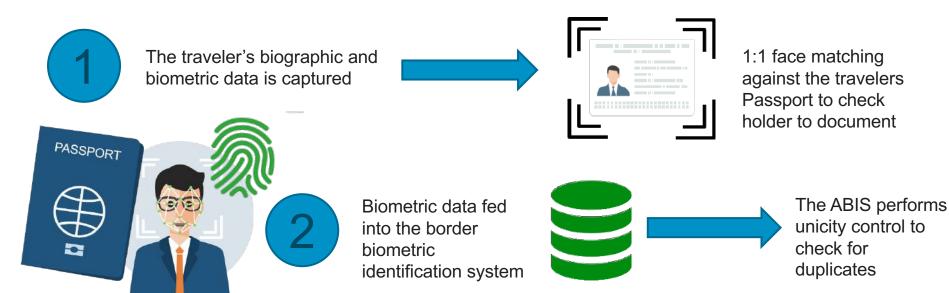








Biometric data: principles



/

Checks against criminal, Visa & tax registries, control list



No hits are reported:



Create or enhance a Travelers' Registry

- Nation: territory + population + "foreign population"
- Foreign population: rights and duties. Requires Identity!
- X ID Convergence: National vs Foreign, Public vs Private
- X Border, Visa, and Permits as front-end for enrolment
- Biometrics to secure traveler register (unique ID)
- ➤ Biometrics before border, at border, and inside the country
- Quality Assurance, Interoperability and System Integration



Passenger Registration

- X Biometrics capture: Environment and Quality Assurance
- X Biometrics for RTP and ABC: controlled environment
- Interoperability (National and International biometric systems)
- X System integration with existing biometrics systems
- Strong document verification for strong identity validation
 - X ICAO verifications
 - X Security features verifications under 3 lights
 - X Electronic verification: BAC, SAC-PACE, TA, AA, PA, EAC
 - Certificates handling and distribution
 - X Biometrics QA and matching
- X Biometrics verification to match traveler with his/her document



Automated Border Control Gate



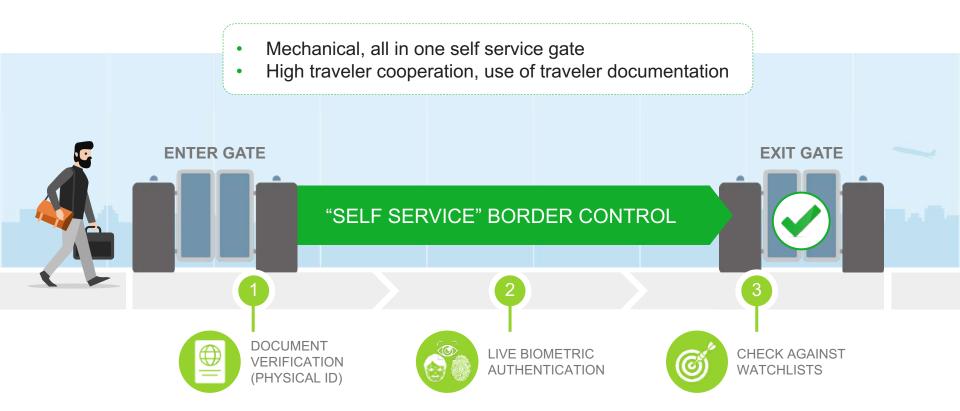
2 step integrated





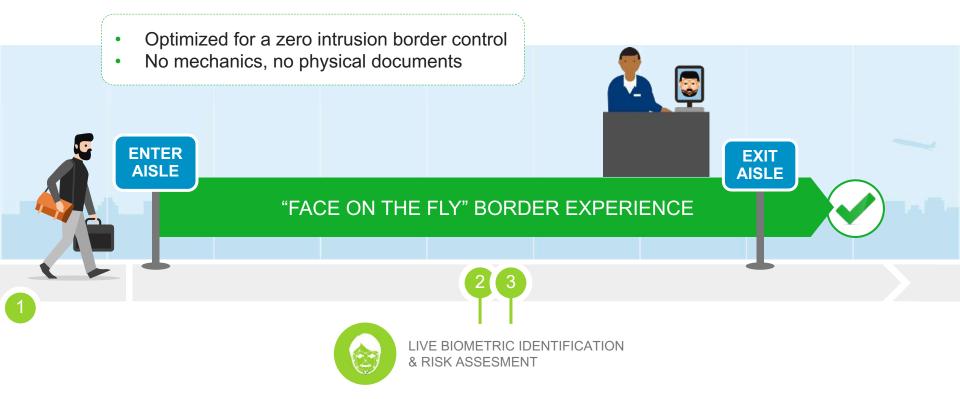


From a physical Gate



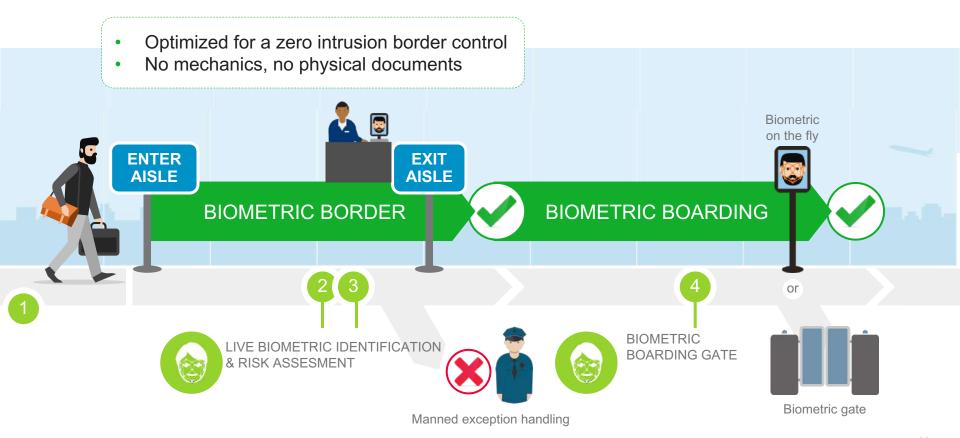


... to a Hands-free, Gateless Face Recognition Aisle



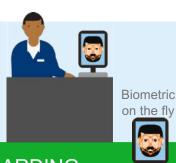


...border and boarding: 2 separate processes



... and more: all processes into 1

- Optimized for a zero intrusion border control
- No mechanics, no physical documents









LIVE BIOMETRIC IDENTIFICATION & RISK ASSESMENT



Fly to Gate Solution – Your Face is you ID!

Biometric enabled self-service to speed up & streamline traveler processes, from check-in to boarding



Biometric Boarding with Mobile Enrolment

- *** * * * *
- Customer: Passenger Processing System Provider for an airport in a European capital
- Opportunity/issue to address: Speed up boarding time and propose a breakthrough in the passenger experience.
- Solution scope: facial enrolment with LFIS technology on mobile and passenger identification at the boarding gate with Face Recognition Pod capturing passenger and displaying match result. LFIS at the backend for 1:n matching on the cloud.

175
passenge
rs taking
part in the
trial







Conclusions

Using Biometrics and related tools

- X Strong document verification for strong identity validation
- X Biometrics capture: Environmental conditions and Quality Assurance
- Assure Interoperability (raw images and standard templates)

A consultancy approach

- X Identify your needs and challenges and define the objectives
- Decide and plan how to use biometrics to achieve the objectives (using metrics)
- Manage Security + Passenger Facilitation + Traveler Registry
- X Adapt to the reality of the country and future proof



