

Biometrics The One ID Journey



Biometric Solutions - the IPS approach

One of the common goals of airlines and airports is to provide their passengers with a pleasant experience and smoothly running services before their departure. Today, however, the increasing number of passengers and stricter security requirements as well as the effort to minimize the risk of infections, create major challenges.

Materna IPS takes these challenges as an opportunity to further establish biometric solutions on the market and follows the vision of IATA of creating a passenger experience that meets all the above-mentioned requirements.

As outlined by the IATA One ID concept, a collaborative identity management with all necessary parties involved such as airlines, border controls, customs and screening authorities combined with biometric recognition at all key touchpoints (Check-in, Bag Drop, Access Gates) allows passengers a truly document-free journey. In addition, airports and airlines benefit from increased security, as advanced biometric recognition algorithms make traveling with false identities nearly impossible, while fewer personnel are involved in time-consuming manual ID checks, increasing overall capacity.



The One ID Journey

As a strategic partner of the IATA our solution is closely aligned with the One ID concept, which enables secure and seamless travel with a single biometric token. This token can be reused for biometric identification throughout the journey, significantly reducing the number of repeated identity checks.

Main Benefits:



Increase efficiency by higher passenger throughput



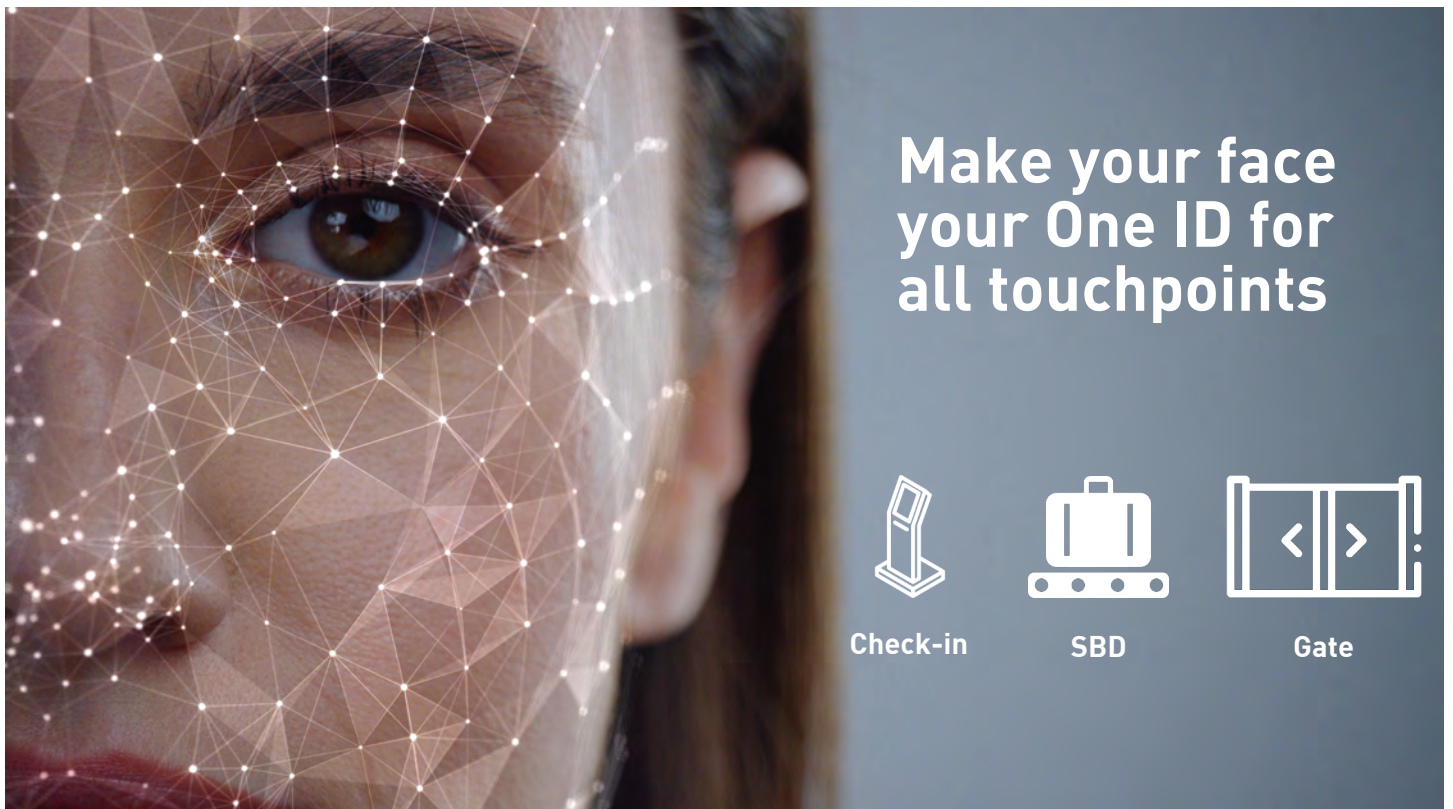
Nearly document-free journey improves passenger experience



Increased security thanks to advanced biometric recognition algorithms



Saves money due to less personnel involved in manual ID checks



Make your face your One ID for all touchpoints



Check-in



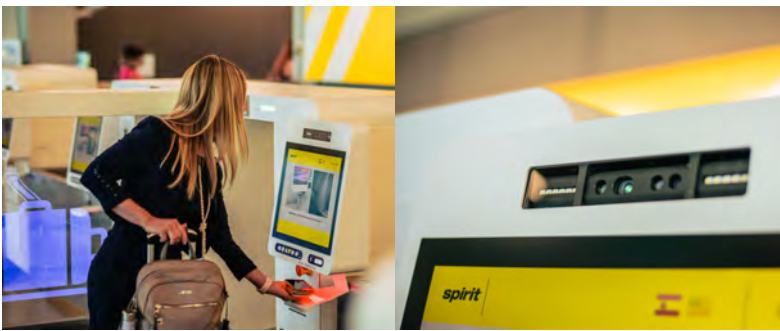
SBD



Gate



Biometric Use Cases



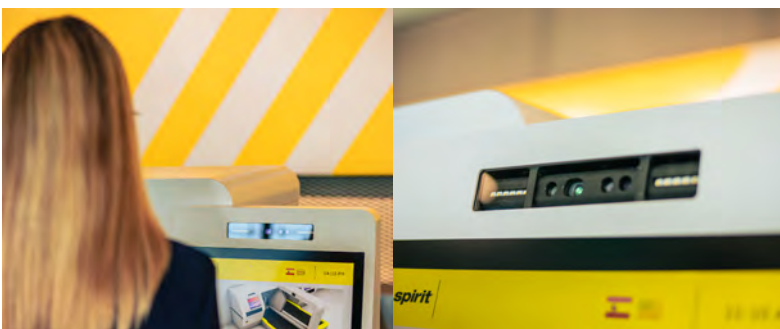
Enrollment

- Present a current travel document such as a boarding pass
- Boarding pass data & captured image are temporarily stored in dedicated database
- Data becomes available for any other biometric touchpoint later on



ID Check [1:1]

- Verifies the passengers' identity
- Present a valid boarding pass & a government issued ID
- A 1:1 comparison is then made between captured camera image and the image on the ID document

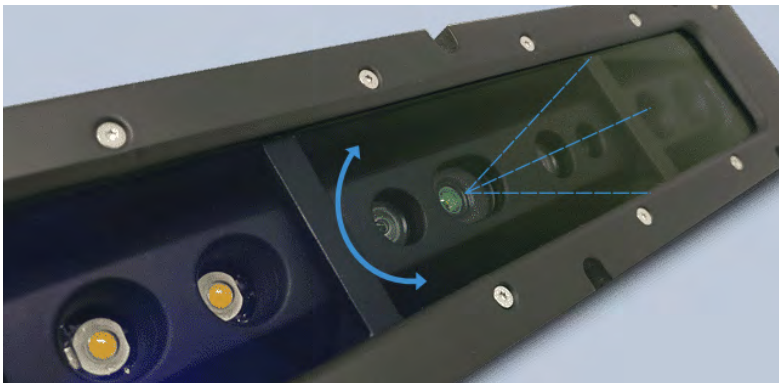


Identify [1:n]

- Enrollment & ID Check completed
- Document-free journey experience
- Capturing the passenger's face & comparing it to previously stored data
- Matching process is referred to as 1:n whereas "n" represents a large set of biometric data in a database (incl. 3rd party databases)



It is the details that make us stand out



Automatic Camera Tilting

- Reliable recognition, regardless of the height of the passenger
- No more bending over in front of the camera



State-of-the-Art Backend

- Privacy by design
- All relevant information visualized in a dashboard
- Always in control of processed data
- Customizable infrastructure due to multi hosting options



Advanced Gallery Management

- Pre-sorting of database records, e.g. by flight data
- Quick 1:n matching process
- Identify passengers even on-the-move resulting in no queues at gates



References



Tokyo Int. Airport (HANEDA)

- Installed 104 SBD units at HND in 2020
- Face Express system w/ 1:1 matching was added in 2021



Spirit Airlines (LGA, ORD, LAX, DFW)

- Started our journey with Spirit in 2019
- Installed several self-service stations across the U.S. w/ integrated biometric identification



Barcelona-El Prat Airport (BCN)

- Biometric pilot project at BCN started in 2021 in cooperation with AENA
- First time in Europe, that biometric identification enables passengers to experience a document-free journey, using SBD's & automated security / boarding gates after real-time authentication

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For more information:
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