



Secure Check-in and Boarding

Passenger Identification – Safe on Board

Civil aviation today is facing increasing challenges regarding the security of passengers. Airlines and airports are forced to take adequate measures in order to control the identity of passengers and to fulfill their share in respect of fighting terrorism and fraud.

The EU mandatory regulation, setting standards in aviation security at all EU airports (Regulation 2320/2002), and the US government's demand for passenger data to be provided in advance are just two examples in this context. The requirement of increased security standards is complemented by the need to simplify the process of air travel, in order to save costs and offer convenient, simple and fast processes for air passenger.

Biometric identification and verification methods are appropriate measures to bring both together, security and convenience.

Your requirements

In order to simplify passenger processes and to increase the level of security, a number of issues are being discussed within the aviation and homeland security community:

- The worldwide acceptance of machine-readable travel documents with biometrics will improve the ability to perform secure passenger authentication.
- Technologies and processes that read the travelers' biometrics and compare it with available risk assessment background data would enhance the border clearance integrity.
- Automatic gates based on biometric verification of passengers will improve the management of passenger flow through security check points.
- Registered travel programs applying biometrics would offer the opportunity for passengers to be pre-registered in an automated identification system. They could check in, board or clear arrivals processes at self-service kiosks, using biometrics to replace routine manual checks.
- Advanced passenger information could be collected away from the airport in the period before travel.

Passengers could provide the data through online booking such as internet reservations. Inadmissible passengers would be kept off the airline by performing an advanced risk analysis.

Your benefits

Biometric Passenger Identification safeguards secure and efficient check-in and boarding procedures. It prevents passengers from boarding without requested valid identification documents, such as an ID card, passport or visa.

Passenger processes, applying Biometric Identification, are offering considerable advantages to passengers, airlines and airports.

- **Faster**
 - Travel documents are only checked once
 - e-gates for automatic boarding
 - Automatic or mobile check-in for registered travelers
- **Convenient**
 - Equal technology at all service points
 - Similar procedures for all flights
 - Easy to handle, self-explanatory
- **Secure**
 - Boarding only with valid travel documents
 - Ensure identity of traveler after check-in
- **Economical**
 - Reduce boarding time
 - Reduce personnel

The Solution Offered

The Siemens solution offered is based on the secure identification and verification of passengers using biometric features.

After checking the validity of the travel documents, fingerprints will be scanned. This is performed at the check-in counter for just one flight or, for status passengers, in a single separate enrolment procedure for all future flights.

The biometric fingerprint characteristics are stored on a 2-dimensional barcode, either on the boarding pass only or in a database.

Based on the biometric information captured, automated and secure handling of the passenger flow will be feasible.

The passengers enter the secure areas of the airport and board the airplane just by touching a fingerprint scanner.

The fingerprint is scanned and compared with the print captured before. In addition, registered status passengers can use the internet or kiosks for check-in and baggage drop-off. They can also perform a mobile check-in, as their ID is verified automatically by the system.

The Siemens Competence

For more than 3 decades Siemens has actively supported the aviation industries, with the focus on technology and process improvement.

Siemens can refer to a broad experience in Information Technology for aviation business process support and biometric solutions for identity control and secure access to locations or information. The successfully completed projects in the areas of border control, ID cards with digital fingerprints and access control are demonstrating the competence and the commitment of Siemens.

The Service Offerings

Siemens offers a comprehensive variety of services, solutions and products to the security market.

- Business Consulting
- Business Process Design
- Provision and integration of turnkey solutions for Biometric Passenger Identification to airlines and airports
- Provision and integration of turnkey solutions for Border Control to Homeland Security Agencies
- ePassport and eID-Card Systems
- Access & Entry Control solutions

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