



## NEC IDentiBoard

### Reengineering Airline Boarding Security

#### Introduction

Safety and security of passengers are of paramount concern in the airline industry. In operation of a flight, every personnel involved is responsible to ensure that the passenger who checked into the flight earlier will also be the same person that will board and arrive in the chosen destination. Current workflow in such airport operation relies heavily upon manual labor assistance. Airline staff are tasked to visual inspect for suspicious characters on top of verifying each passenger's passport and boarding pass to ensure correct passengers for the corresponding flights. These tedious processes could result in errors and thus compromising the safety and security of passengers.

#### NEC IDentiBoard

NEC's Airline Identity Boarding (NEC IDentiBoard) is a system designed to provide more effective means of processing

passenger's information and improving the overall process of boarding passengers into plane for flight. With the system, airline could be sure that the same passengers that cleared the immigration will be the ones that will board for the flights. Besides heightening the security in airports, it will also increase operational efficiency in flight boarding with automation of a single or multi-modal biometrics recognition technology. With such state of the art system in place, airline could have peace of mind in terms of security and operation efficiency and concentrate resources on other areas that matter most to passengers.

#### Design

At the check-in counter, passengers present their passport to the airline staff and a boarding pass will be generated. At this point, passenger information will be loaded to the Airline Ticket Information Database.

#### AT A GLANCE

- Personalized boarding ID
- Increase operational efficiency in flight boarding
- Speed up clearance and improve security at the airport
- Savings on labor intensive manual verification job
- Improve customer relationship by effective identification of frequent travelers

During the immigration clearance stage, using automated border control gate or manual immigration border control counter, upon presentation of passport, each passenger will have their fingerprint and/or facial image taken to be stored into existing Immigration Database System.

At the departure gate before flight, the same passenger will show passport at an automated biometric kiosk. Here the same passenger will have their fingerprint and/or facial image taken again for verification. The system will cross examine the information with both the Immigration Database System and the Airline Ticket Information Database to ensure that the correct passenger will be one that will be boarding the plane for flight. After the successful verification process, the passenger is allowed to board the plane.

In place of the automated biometric kiosk, the above operation can also be implemented at the departure gate counter operated by airline staff with passport, camera and fingerprint scanner.

## Features

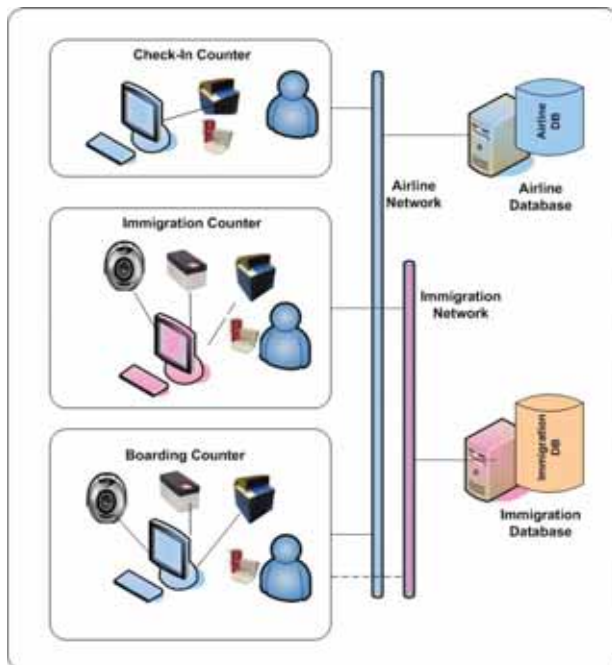
- Multi-modal biometrics to provide optional biometrics usage for passengers at the automatic kiosk
- Integrates with Immigration System to

retrieve facial and fingerprint of passengers for verification

- Generates further details with photograph and biometric features for Advanced Passenger Information (API)

## Benefits of System

- Processes are automated to speed up clearance. Heightened security measures are in place with self automated operation for passport verification and attendance taking of each flight.
- Huge savings on manpower by redeploying labor for more critical functions such as terrorism detection and crowd control.
- Biometric database allows quick raids on flight should there be a suspect. The system reduces time lost due to such delays.
- Eliminates possible mistake or overlook that happens in manual verification processes.
- Improves customer relationship management of the airline by identifying frequent traveler in which a photograph database will be utilized.
- When passport is lost during the course of travelling, identity of passengers could be verified at the destination with the biometric information captured by IDentiBoard



“We strive to understand customers' requirements especially in a dynamic industry such as security applications. NEC IDentiBoard reengineers the way we travel by making the whole experience pleasant and perhaps more importantly, achieving greater peace of mind in terms of security for travelers”.

Mr. Tan Boon Chin,  
Senior Vice President,  
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