Business Environment

Nowadays, immigration, border guards & airport/port authorities serve as the main control point between our international border crossings. With the latest technology advances and increasing terrorism threats, governments need to make checkpoints safe and secure but quickly accessible at the same time. As passengers travel through land, sea and air borders, the need to reduce queuing time while adhering to the highest security measures for a clearance system is the main border control criteria. NEC Automated Border Control System consisting of Automatic Passenger Clearance and Automatic Vehicle Clearance systems leveraging its own biometric technologies such as fingerprint and facial recognition can tighten security and automate clearance processes to less than 10 seconds per person/vehicle.

The Solution

NEC automated passenger and vehicle gates for self-service immigration clearance are convenient and easy to use while reducing overall border control manpower and cost. Passengers are only required to place their identity card or passport on the clearance gate document reader and the system will extract the biometric or Machine Readable Zone (MRZ) data from the travel document. The imbedded LCD screen on the NEC gate will then instruct the user to take the document and enter the gate for 1:1 or 1:N matching (i.e. blacklist check) via fingerprint or facial verification. Upon successful verification, a label with conditions of stay will be printed. After collecting the label, the display will indicate that the visitor can leave the self service immigration clearance gate. The visitor then places the label into his/her passport for a fully automated process.

NEC automatic passenger control gate system have automatic detection mechanisms in place to identify tailgating, invasion and evasion by criminals and intruders.

Key Benefits

- Able to support all travel documents (traditional passport, e-passport, ID card, smartcard & etc)
- Face and Fingerprint verification (Iris & other biometrics feasible upon customization)
- Verify passenger is the rightful owner of the document via biometric authentication (1:1 passport & live face/fingerprint matching)
- Integrate with NEC anti-terrorist system (1:N facial blacklist check)
- Gate housing can be modified to accommodate various government workflow, design & components (i.e. document reader, fingerprint reader, smartcard reader & etc)
- Reduce manpower for border guards
- Increase security by preventing fraudulent activities (internal/external breaches)
- Increase clearance times at border checkpoints (within 10 seconds!)

Automatic Passenger Clearance*

*Indicative Image

Automatic Vehicle Clearance*

*Indicative Image

NEC – The leader of Biometrics Solution

NEC Corporation is one of the world’s largest manufacturer in IT and telecom technology: its solutions for IT, networks and electronic components are in the vanguard. NEC has developed biometric security solutions for more than 30 years and has installed huge number of AFIS systems worldwide, making it one of the most renowned biometric specialists.

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