

# SUPREMA

## case study



Industry	Transportation
Client	Civil Aviation Authority Jinnah Airport, Karachi
Application	Access Control & Time Attendance
Solution	Biometric IP Access Control
Year	2009
Country	Pakistan
Release	Nov 2009

## Biometric Access Control System to Pakistan's Karachi Airport



Multi-modal IP access control to enhance its level of security and user convenience.

### Customer Background

CAA is a public sector autonomous organization works under the Ministry of Defense of the Federal Government of Pakistan. CAA handles all kinds of civil aviation related activities including regulatory, air traffic services, infrastructure and commercial development of the airports. In response to recent international regulation and security requirements on transportation and aviation industry, Jinnah Airport, the busiest airport in Pakistan, planned to enhance its RF-card based access control to more sophisticated and convenient

biometric system.

Jinnah airport is the nation's largest airport with annual capacity of 12 million passengers and 50 thousand flights. With its fast-growing traffic, the Pakistan Civil Aviation Authority (hereafter 'CAA') required a more efficient & scalable solution that could meet the airport's growing operation while develop the highest level of security and safety for the staffs and travelers.

As CAA also involves commercial development and management of the airport, improving airport employees' management was

another issue at their airports. As airport service is typical labor-intensive industry, CAA required highly efficient & invulnerable biometric time attendance management system.

### The Challenges

High level of security and safety were the highest priorities at Jinnah Airport. The access control system at Jinnah handles considerable size of facilities including 60 check-in counters, 12 gates, 12 air-bridges, two terminals with restricted back office areas.

The access control & time



attendance system should be well integrated to the airport's existing surveillance and alarm systems and also to be inter-connected to enable real-time monitoring and staff management.

As for the access control, the system should feature fingerprint identification for high-level security area and also support RF card feature for contractors and special occasions. And it needed be flexible and open solution to keep pace with the airport's growing needs.

## SUPREMA Solution

For Jinnah Airport's biometric access control system, Suprema provided over 120 units of BioStation and BioEntry Plus fingerprint systems for the implementation.

Suprema's BioStation™ fingerprint time attendance terminal can verify,

record and transfer the sign-in/out records simultaneously over IP connection. The device also features user-friendly GUI hence operation managers and employees can easily adopt the device as their timesheet with simple instruction only. Then the work hour records from the BioStation™ can be directly transferred over IP connection to the payroll system at back office.

BioEntry Plus is a simpler biometrics access controller featuring multiple RF card option and IP connectivity. The device can directly control door and 3<sup>rd</sup> party devices to give customers significant benefits in cost and flexibility in system design.

Jinnah Airport's benefit were not only limited to enhanced level of security and safety. The solution also improved its operational efficiency in staffing by reducing its labor cost and internal processes.



### suprema BioStation

- Wireless LAN, TCP/IP, RS485 & Wiegand interfaces
- Easy to use GUI with color LCD and keypads
- Supports 125KHz EM, HID Prox. Or 13.56MHz Mifare cards
- Identifies 3,000 templates in less than one second
- Stores up to 400,000 fingerprint templates
- High-speed USB2.0 memory slot for data transfer



### suprema BioEntry Plus

- TCP/IP, RS485 & Wiegand interfaces
- Sleek and slim design
- Supports 125KHz EM, HID Prox. Or 13.56MHz Mifare cards
- Identifies 2,000 templates in less than one second
- Stores up to 10,000 fingerprint templates

## About Suprema

Suprema Inc. is a leading global provider of biometric recognition and identity management solutions and systems. The company's range of products includes fingerprint modules, fingerprint systems, e-passport readers and live-scanners. Suprema has worldwide sales network over 100 countries and its customers include multi-national companies like Samsung, Hitachi, Siemens, and Assa Abloy.

Suprema's fingerprint algorithm was proven to be world's most reliable solution by ranking No. 1 in the international Fingerprint Verification Competition (FVC) in a row in 2004 and 2006 with the unrivalled outstanding performance. The company's fingerprint matching and extracting algorithms also ranked top in the Minutiae Interoperability Exchange (MINEX) test by the NIST (National Institute of Standards & Technology) in 2008.

For more information, please visit [www.supremainc.com](http://www.supremainc.com)



Suprema Inc.  
16F Parkview Tower  
Jeongja, Seongnam, Gyeonggi  
South Korea 463-863  
Tel +82 31 783 4502  
Email [sales@supremainc.com](mailto:sales@supremainc.com)