VAST Patron Access Control System for Bangladesh Cricket Board

The Customer:

The **Bangladesh Cricket Board** (BCB) is the main governing body for Cricket in Bangladesh. The Board has its headquarters in Dhaka and it governs the maintenance of cricket venues in Bangladesh as well as selection for the National Team, "The Tigers".

The Requirement:

In preparation for the International Cricket Council Cricket World Cup 2011 matches to be held in Bangladesh, the Bangladesh Cricket Board extensively refurbished their national cricket stadia in Dhaka and Chittagong. In parallel to these developments, the BCB put out an international tender for the supply, installation, testing and commissioning on a turnkey basis of a patron access control system that consisted of turnstiles integrated with bar code and RFID/NFC readers, access control software, computers, network cabling and civil works for the Sher-e-Bangla National Cricket Stadium, Dhaka and Zahur Ahmed Chowdhury Stadium, Chittagong.

The Consortium:

The tender was won by a consortium, lead by Honeywell.

- Honeywell Building Automation – lead contractor, Singapore

- Honeycomb – Honeywell solution partner based in Bangladesh

- Elid Technology International – Singapore based security systems supplier, manufacturer of the half- and full-height turnstiles

- Unique Micro Design – UMD-VAST access entry control software, turnstile electronics, mobile turnstile computers and professional services, Australia

The UMD Solution:

UMD-VAST™ Patron Access Control System

UMD-VAST™ is a modern, scalable software system that provides large venues such as entertainment complexes, football grounds, racecourses and other sporting venues with a flexible patron access control platform which is independent of turnstile hardware and ticketing systems.

The solution handles access to areas and venues, voiding and re-issuing of tickets, integration to ticketing systems, real time reporting, turnstile management and more.

UMD-*VAST*™ runs under the Linux operating system. All management, operation and administration functions are performed through web interfaces.

Unique Micro Design Pty Ltd (A.B.N. 29-007-419-490)
200 Wellington Road, Clayton VIC 3168 Australia
www.umd.com.au

Tel: +61-3-9582-7000
Fax: +61-3-9582-7001
sales@umd.com.au

PS-BCB-VAST

Rev 1.01 – 08/11

Ticketing information is generated from external systems and is up loaded into **UMD-VAST™**, which focuses on patron access control, but can also manage on-the-day (ie real-time), replacement and cancellation of tickets.

The system can be fully customised to meet with a venue's exacting requirements.

<u>UMD-VAST™ Turnstile Controller (UMD-VTC™)</u>

UMD-VAST Turnstile Controllers (UMD-VTC) are part of the UMD-VAST solution. The electronics was fitted into the turnstile hardware by ELID at the point of manufacture.

The UMD-VTC is a platform product that consists of optional modules which can be assembled in a number of ways. For this application, the following were used:

- **UMD-VTC Embedded Microcontroller**

- **UMD-VTC Graphic Controller Module** and matching 5.7" (145mm) 1/4VGA 320 x 240 color LCD

- **UMD-VTC I/O module**

- **UMD-VTC Barcode Scan Engine Module**

- **RFID/NFC Module Reader**

Casio IT-800 Mobile Computer (Mobile Turnstile)

The Casio IT-800 was chosen for the mobile turnstile computers for its integrated NFC RFID reader.

The Casio IT-800 is a hand held computer that has been designed to combine toughness and durability into a compact and elegant design, suitable for use in a wide variety of environments.

The IT-800 is supplied standard with Windows Mobile 6.5, a high impact resistant display, WiFi, Bluetooth and a Smart Card Reader/Writer. Options include 1D or 2D scanning, Camera, 3G connectivity and GPS.

Professional Services

UMD Professional services included:

- Extensive consultancy
- Project management
- Software customisation
- Remote monitoring and support
- On-Site Commissioning
- Training