



Beijing Sport University (BSU) Athletes Village and Training Site for Beijing Olympics 2008

Customer case study

- Scalable, secure and convenient solution for sporting venues and events
- One card solution for multiple applications

TECHNOLOGY/PRODUCTS

HID VertX™ V1000 - Network Controller
HID VertX V100 - Door / Reader Interface
HID VertX V200 - Input Monitor Interface
HID VertX V300 - Output Control Interface
HID ProxPoint® Plus – 125 kHz proximity card reader

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*- Huang Jun-Tao
Manager, Project Engineering*



State-of-the-Art Access Control System Delivers High Level of Security and Protection in a Single Card Solution

As supporting venues for the 2008 Beijing Olympic Games, the Beijing Sport University (BSU) Track and Field Training Center and BSU Integrated Training Facility, as well as the athlete's apartments, cafeteria and auxiliary training facilities require a high level of security to ensure that the athletes are able to carry out their daily activities in preparation for competition without the risk of potential security breaches. Combining aesthetically pleasing design and intelligent architectural details, these ideals were incorporated into the overall plan in order to not only enhance the Olympic facilities operation level, but significantly improve upon the property management efficiency, while reducing the overall operational costs of the buildings. All of which provide a comfortable, convenient and safe working environment for not only the athletes, but for the organizers of the 2008 Beijing Olympic and the staff, who operate and oversee the buildings.

The Challenge

The organizers of the 2008 Beijing Olympics imposed strict brand and technology requirements on the access control security system used to secure the various venues, including the need to employ an access control security system manufacturer that is both nationally and internationally recognized for its reliability and technology. The organizers also had several areas of concern regarding technology, including requiring that the system be multi-functional and allow for more than physical security. Several areas of functionality that needed to be incorporated included entrance and exit management, identity verification and authority control management, as well as the ability to enable the use of a TCP/IP network connection for primary control of management and systems development. Additionally, the organizers wanted a scalable solution that could eventually be integrated into a business point of sale (POS) settlement system, along with an interface and retail management software so as to realize the need for a "One Card Solution" that utilizes a single IC card to allow users with access to facilities, pay for parking and manage retail purchases.

In addition to technological parameters, the application needed to meet several software systems requirements, including the ability to develop interfaces with an integrated management platform, the use of database versions of SQL SERVER 2000 or higher, as well as support for the B/S and C/S structure for linking 20 or more workstations. The system also needed to support intuitive electronic map functions that could be combined with various functions of personnel management, access control, security alarms and video linkage on a single server.

The Solution

To comply with the strict security requirements imposed on Olympic venues, and at the same time, guarantee durability of the secure facilities and provide convenient after-sales services so that the facilities can continue to be used after the Olympic Games, the HID Global office in China collaborated closely with Beijing Skyrity Technology Development Company Limited (thereafter Skyrity), one of its VertX™ partners for controllers. Skyrity, a high technology corporation specializing in the development of "One Card Solution" systems software for the security industry sector, worked with HID



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*-Mr. Wang Wei
Project Manager,
Skyrity.*

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Global to develop the "HID Security System" application management software.

In this project, Skyrity was responsible for the implementation of the software platform, as well as for combining the HID VertX™ Controllers, HID ProxPoint® Plus Readers and electronic locks, exit buttons, door lock openers and other equipment within the access control system infrastructure. Based on various pre-installed linkage functions, various types of alarm equipment were able to receive or send information through the alarm input and output controller to achieve multiple system linkage. The use of Skyrity's integrated management software platform, SKY2004, which was developed independently by Skyrity, resulted in a unified integrated management of access control including, alarm linkage, video linkage and fire-prevention linkage.

"HID Global's products have been used for setting up the entire access control system. Our clients are satisfied with HID Global's products in terms of its brand awareness, system stability and product functionality," explained Mr. Wang Wei, project manager for Skyrity.

Mr. Wei added, "The modular structure of HID Global's VertX controllers, its TCP/IP network connection and self-contained LINUX operations system are suitable for the requirements of most large scale system framework and multi-function integration projects. It is especially suitable for clients operating sports venues, airports, modern factories and financial / manufacturing industries facilities."

The HID Global VertX series products used in the 2008 Beijing Olympic venues made entrance and exit management, identity verification, payment settlement and other management functions possible. The project also utilized a business POS settlement system interface and retail management software, as well as made use of the products integrated modular design to create a "One Card Solution" for the management of door access control, car park and retail functions.

Huang Jun-Tao, who was in charge of the engineering project, mentioned that the organizers chose to integrate HID Global's VertX products with Skyrity's software system because it utilized an open standard design and offered an integrated module for both hardware and software. "The scope of usage and compatibility of the entire system is outstanding, and we are able to expand the system capacity and arrange hardware exchange conveniently. The scale and type of system configuration is also flexible to change," said Jun-Tao. The new system is able to support single door independent systems, two door live controllers, 16 area alarm input modules and 12 path alarm output modules. Not to mention, the system also supports card reader controller modules with direct TCP/IP connection.

"Through effective communication with the property owners and suppliers, mutual assistance has resulted in smooth implementation of the entire project," said Jun-Tao. "As an internationally famous brand, HID Global's high quality hardware and software products, combined with its power to provide project solutions, were the key elements to the final success of this project."

All HID Global's cards meet the ISO/IEC 14443 standard of triple DES encryption. Every card is delivered with a unique unchangeable serial number. For first time users, a unique code can also be encrypted onto the card and its corresponding read/write equipment so that the encrypted code cannot be copied from neither the card nor the read/write equipment. This enhances the security and reliability of the system and guarantees the security levels of the 2008 Beijing Olympic venues.

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