

Zhuhai City, Jinwan District People's Procuratorate



Sihucheng District, Zhuhai

HID Global physical access solutions safeguarded the personnel, law enforcement areas and important properties of Jinwan Procuratorate.

“Security is the top concern when choosing products. The HID iCLASS® cards and readers offered enhanced security through encryption and mutual authentication. We fully recognized this function and it was also one of the critical factors in choosing HID Global’s physical access solutions.”

Mr. Yang, Engineer
Zhuhai City
Jinwan District Procuratorate

Zhuhai City Jinwan District People’s Procuratorate is located in Sihucheng District, Zhuhai city. Built in 2009, it houses of the Anti-Corruption Bureau, Code of Conduct Bureau, Policy Department, General Office, Inspection and Supervision Department, Public Complaints Department, Commercial Crime Prevention Department, Civil Administrative Procurator Department, and Prosecution, Claims and Procurator Department. As an important judiciary and law enforcement authority in China, Jinwan District People’s Procuratorate is responsible for criminal investigation, prosecution and appeal. In 2009, it handled over 200 cases and was named “the most efficient Procuratorate” by the local residents.

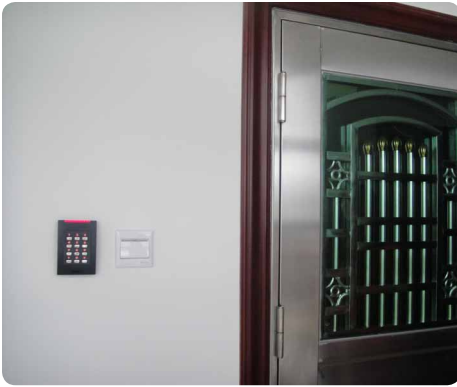
Challenges

Jinwan Procuratorate stored a number of important and confidential documents and related exhibits such as guns and weapons in Jinwan Procuratorate. Any data leakage or loss of weapons would threaten lives and property of the judiciary personnel and general public. To ensure the implementation of judicial procedures and safeguard confidential data, exhibits and judiciary personnel, Jinwan Procuratorate has imposed strict brand and technology requirements on the access control security system and below criteria was taken into account.

Products / technologies:

- VertX® series including V1000 network controller and V100 door / reader interfaces
- iCLASS® series including R30/RK 40 readers, RKL57 – 6180 bioCLASS readers and contactless smart cards

- Strong anti-decryption capability: This was particularly important since the MIFARE® technology has been decoded.
- Flexibility and scalability for future upgrades: To couple with the enhancements being made to its premises, the Procuratorate wanted a scalable solution that could eventually be integrated other applications, such as time and attendance management and cashless payment.
- Strong access authority control: The physical security system needed to facilitate strict access management in key areas and control the entry time zones and access levels of specific areas.
- Prompt and timely technical support and maintenance services.



Solutions

After comparing several local and international brands, Jinwan People's Procuratorate selected HID Global's solutions for its leading technology, comprehensive after-sales support and lifetime warranty. VertX® V1000 network controller, VertX V100 reader interfaces and different models of iCLASS readers and smart cards were installed according to security requirements.

The highest security level area was their gun cellar, which required the most stringent access management where using cards and readers alone was not the most effective way to control access. Whenever any cards were lost, that meant access could potentially have been granted to unauthorized persons. To address this issue, RKL57 - 6180 bioCLASS® readers have been installed in this area and fingerprint templates of individual personnel are stored on iCLASS contactless smart cards; users had to perform dual authentication by card presentation plus biometric fingerprint for identity verification.

In high security level zones, such as the server room housing the network controller, iCLASS RK40 card readers were installed to prevent loss of confidential files, where RK40 requires dual authentication by card and PIN verification to tighten the security levels in these areas. For other low-risk areas such as the general office, iCLASS R30 contactless smart card readers were used to restrict access.

At the same time, central access management was achieved by connecting VertX V1000 controller with their host PC and network through TCP/IP protocol. The administrator now can perform all execution commands including tracking and changing access card data and access authority, time/attendance management and report generation. Additionally, VertX V1000 controller supports offline operation, which controls and communicates with V100 door/reader interfaces via RS-485 connection when offline with the host. And after the communications were restored, all buffered transactions are uploaded to the host. The modular structure of VertX controllers guaranteed the system stability and venue security.

Seamlessly integrated with the central station software, VertX network access system can be easily upgraded to accommodate the expansion plan of Jinwan Procuratorate. The system can also eventually integrate with other s, such as cashless payment, book borrowing and more to optimize the use of a "single card" solution.

Results

Having operated for one year, the system solved the access management issues for Jinwan Procuratorate. Mr. Yang, Engineer of the Procuratorate said, "In the past, we could hardly monitor the personnel's access in key zones. When articles were lost, we had no clues on how to find them, which resulted in a loss and this also posed a security threat. However, after using HID Global's physical access solutions, key zone management has been easy. By using iCLASS cards and readers, we enforced stringent access authority management. We can now set access levels to restrict the entry to designated personnel or specific time. For the public areas, the VertX network system automatically records all the activities for tracking and monitoring. In addition to access authority management, the strong anti-decryption capability of iCLASS was particular important to us, especially after MIFARE technology has been decoded. With iCLASS requiring mutual authentication and encrypted data transfer through the use of secure algorithms, it offers enhanced security to the Procuratorate."