

CASE STUDY

Access Control and T&A Solution for 30,000 Workers



→ Location :

Chinese Shipbuilding Company

→ Products Used :

IP20 125KHz Proximity Reader

iTDC Access Control Panel

STARWATCH iTDC PRO II Management S/W

→ Application :

Access Control and T&A System for 30,000 Workers

Chinese Shipbuilding Company

B**** Shipbuilding Heavy Industry Company (B ****) is one of the largest shipbuilding conglomerates in China. B ****'s primary industry includes design, manufacture, and trade of military and civil ships, marine engineering and marine equipment. With a total of 3,400,000 square meters of land and over 30,000 workers employed, the company has contributed in developing Huludao (the city where the company is based on) into a leading industrial city in China.

The Challenges

Due to the distinctively outsized scale of this shipbuilding site, they required access control and time & attendance solution that is capable of sufficiently accommodating large number of users. Over thirty thousand workers came in and out of the site on the daily basis, which meant that thirty thousand signing in event occurrences when they showed up to work and another thirty thousand signing out event occurrences when they left work. In other words, they required a large capacity solution that could facilitate minimum of sixty thousand events on single work day without system overloading.



[iTDC – Multi Door Access Control System]

- 2~4 Door Access Control Panel
- Holds Up to 50,000 Card Users
- Standalone / Network Communication via RS232 / RS422 / RS485 (Max. 255ch) / TCP/IP
- Independent 7 Inputs and 7 Outputs
- Supports 26bit Wiegand / 34bit Wiegand
- Enhanced Stability due to the Automatic System Reset Function



The Solution

The main entry gate, where the workers checked in and out of work, is equipped with 40 units of automated speed gates with IDTECK's IP20 125KHz proximity readers embedded inside. Since the IP20 reader boasts up to 4 inches of reading range, it was integrated with the speed gate to open when it recognizes the registered user card. Since the speed gate allows the users to enter the premises one at a time, it surely decreased the likelihood of tailgating and vulnerability of unauthorized access into the building. As for controlling the readers, total of 37 units of iTDC multi door access control panel were deployed to control the IP20 readers inside the speed gate. This system provided the much needed regulation to the entry area where thousands of workers rushed in and out.

Additionally, IDTECK's STARWATCH iTDC PRO II management software provided an ideal solution in managing a large workforce such as this shipbuilding company. The management software not only delivered the management of access control, but also offered great efficiency in tracking and monitoring employee attendance, including tardiness, missed punches, overtime and other work rules.

After the Successful Implementation

The decision makers of the B**** were extremely satisfied with the performance of the newly deployed system. After all, they were able to obtain access control along with time & attendance management in single integrated system solution. Unlike other systems that are incapable of handling large amount of data and users, IDTECK systems flawlessly accommodated their needs, which came with various benefits. Overall, their biggest satisfaction came from the decline in workers' complains or disputes regarding the work time hours and salary issues. As the management software provides precise attendance data reports and automated payroll options, there is no room for any mistakes.

They are currently in touch with IDTECK Hong Kong for system expansion for their subsidiary shipbuilding company in Dalian.

★ *The name of the company is not revealed in the case study since the company wished to stay anonymous for security purposes.*



[STARWATCH iTDC PRO II Management S/W]

- Access Control and T&A Management S/W
- Alarm Event Mapping and Routing
- Intelligent Access Control of Individual Cardholders, Groups and Time Schedules
- TCP/IP, Serial and Dial-Up Communication
- Remote Server and Client Support
- Multi language support : Korean, English, Spanish, Chinese, French, Italian and more



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E-mail webmaster@idteck.com TEL 02.2659.0055 FAX 02.2659.0086