

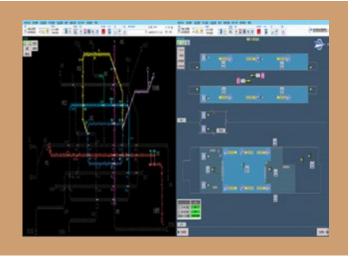




# **Customer Success Story**

# **Beijing Traffic Control Center**Beijing, People's Republic of China

# 北京



Integrated View of Beijing Rail Line Network

## **About Beijing Traffic Control Center**

Beijing, the capital of China and its second largest city, has a population of over 18 million people. The host city for the 2008 Summer Olympics, Beijing is also a major transportation hub, with dozens of railways, roads and motorways within its limits. The Beijing Traffic Control Center (BTCC) was established to monitor a network of Operational Control Centers for the various rail lines operating in the country.

## **ICONICS Software Deployed**

BTCC is using ICONICS GraphWorX<sup>TM</sup>32, part of ICONICS GENESIS32<sup>TM</sup> HMI/SCADA suite to provide a unified user interface within the monitoring and control center. A total of 50 operator stations are networked together to help monitor the traffic network.

"The ease of use, speed of deployment and project management capabilities of ICONICS' GENESIS32 HMI/SCADA suite resulted in a 30% savings on engineering-related costs. This was a major benefit, and enabled us to meet critical deadlines prior to the 2008 Summer Olympics."

#### Ng Liang Chin Project Manager ST Engineering

#### **Project Summary**

The project was mainly developed and deployed under the supervision of Singapore Technologies Engineering Ltd. (ST Engineering). ST Engineering is one of the largest listed companies on the Singapore Stock Exchange, with a presence in 35 countries around the world.

The project requirement was to integrate various systems, with emphasis on having a unified user interface linked to real-time information. These systems include SCADA, operator information, CCTV, passenger information, decision support and incident evaluation.

The completed system is linked to receive real-time information from various Operational Control Centers of various rail network lines, while the operators at BTCC are able to share the rail line data, rail line videos and reports. The completed system provides a link to an Incident Evaluation System that triggers automatic or semi-automatic plans based on certain incidents.

The operators generate various reports by following workflow guidance by the system and forward the reports to the BTCC Database. A Decision Support Database system is also available to the operators, to quickly search and retrieve supporting documents for operational work. A connected CCTV system channels live images from train stations to the Operational Control Centers as well as to BTCC operators. Since the Passenger Information System is also integrated, any emergency information can be quickly relayed to affected line passengers and to other lines for general updates.

ST Engineering has also deployed GraphWorX32 at various other projects including Singapore Circular Rail and Kaohsiung Rail in Taiwan.



Monitor/Control Room within the Beijing Traffic Control Center



Integrated View of Multiple Rail Lines at the BTCC

#### **Key Features**

With the hybrid nature of various traffic control and monitoring systems, ST Engineering looked for an application that is flexible enough to provide customization, yet has enough built-in features to start with. GraphWorX32 passed all the tests (stability, flexibility, robustness, longer shelf life) for what the company required. Some of BTCC's systems were running on a non-Microsoft platform. With OPC and XML technology, those applications were seamlessly integrated into GraphWorX32. Powerful automation controls have enabled the system integrator to take their customer's application to the next level.

#### **Conclusion**

GraphWorX32 provides an easy way to integrate multiple applications and systems together. With its capacity for large amounts of data, the system can handle a virtually unlimited number of data points within a screen. The native features of GraphWorX32, such as templates, layers, OPC interface, and VBA controls, fully satisfy the integration needs at the programming level.

ST Engineering has saved a great deal on costs and man hours, and was able to meet the deadline of completing the project before the 2008 Summer Olympics in Beijing.

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