



Success Story

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Industry: Transportation Management

Customer: Hong Kong Marine Department Kowloon, China



Hong Kong Harbor



Harbormaster at Controls

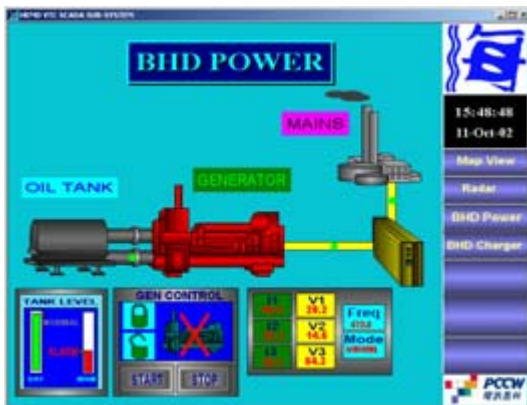
The Vessel Traffic Centre of Hong Kong Marine Department monitors and regulates all ship movements within Hong Kong waters. Over one thousand big and small ships entered into or sail from the port of Hong Kong daily. The volume of traffic transited Hong Kong waters to and from the ports at the Pearl River Delta has increased yearly. At any one time there are over three hundred ships moored within the harbor. The Maritime Rescue Co-ordination Centre, which is also under Hong Kong Marine Department, is responsible for coordinating all search and rescue operations within the Hong Kong maritime rescue responsible area, which is about the entire northern part of the South China Sea, up to the west coast of the Philippines on the east and up to the 10 degree Latitude on the south. The traffic monitoring equipment and the telecommunications equipment of both centers have recently upgraded. ICONICS GENESIS monitoring software is being installed to control and monitor the performance and conditions of the newly installed radars and telecommunications equipment which are situated on remote islands and locations.

ICONICS Software Deployed

Hong Kong Marine Department currently has ICONIC'S GENESIS32 SCADA Software suite with AlarmWorX32, TrendWorX32, and GraphicWorX32 modules, along with Gen32-Browser, WebHMI and OPC-server products. Communication and data collection was a very important factor in working with the vast network of Communication Towers, Radar units and Remote Terminal Units which ICONICS Web enabled software solved.

Key Features

The complete turnkey solution that included microwave link, VHF communication equipment, Radar Unit, RTU and ICONICS SCADA Software, was installed by PCCW Ltd. The geography of Hong Kong required the installation of 18 remote sites spread over 7 islands. ICONICS GENESIS32 Software enabled rapid development and easy deployment using its modular architecture, Aliases, ActiveX controls and direct publishing feature of HTML pages over the internet. The communication towers are built on the various remote islands and locations to collect data about the presence and ship movement within the Hong Kong waters. Communication to these remote sites is critical in terms of keeping the port safe.



Generator System Display



Harbor Radar Control

Tip From the Customer

“The critical requirements of monitoring and guiding the vessels in the harbor was causing immense pressure on the operators, 24 hours a day, along with the increasing traffic, we needed an accurate and reliable system to assist the operators. The implementation of the ICONICS GENESIS32 Software with its Web capabilities enabled us to install the communication system with ease and offers us the ability to use and maintain the system with a high degree of reliability, with our qualified staff. The enhanced graphics, data logging and automatic report generation were essential requirements that met our design criteria fully.”

- Hong Kong Marine Department

Project Summary

The project was to monitor the status of the Communication Towers. It was also required to maintain constant communication with all the remote towers, monitor the temperatures of all the communication equipment and immediately notify technical staff of any alarm indications to deploy an immediate fix. Live CCTV cameras are also linked within the ICONICS GENESIS32 Software, which are located at all the various sites. Product stability and reliability were emphasized in the design and implementation of the project. The ICONICS GENESIS32 Software connects 21 OmniFlex 1000 RTU's spread out over 6 islands of Hong Kong. There is one GENESIS32 System with a Web server, seven WebHMI clients and one GENESIS32 Browser node used with over 750 Tags monitored.



Harbor Overview Map

Reporting and System Benefits

The senior management of Hong Kong Marine Department can now monitor and control the status of the complete communication system from any remote site. The ICONICS GENESIS32 System proved to be a very cost effective solution, which met every aspect of the end users design requirements.

Conclusion

ICONICS has worked closely with Hong Kong Marine Department to make the newly installed vessel traffic management system successful in every aspect. Hong Kong Marine Department has also participated in the ICONICS End-user Support and Maintenance program so that it can access technical support personnel and receive software updates as needed.



Harbor Controls