Jurong Island Checkpoint

Jurong Island is a major chemical hub holding multi-billion dollars worth of investments in the chemical industry. CEM has supplied an integrated security management system for Jurong Island's recently opened US$17 million Security Checkpoint.

The new vehicle and pedestrian checkpoint is part of the on-going island security strategy and provides an effective barrier to vehicles using the Jurong Island Highway, the road link between the island and mainland Singapore.

"One of the clients' primary requirements for this high security system was quick clearance of legitimate vehicles and pedestrians onto the island without compromising security," said Ian Schofield New Products Manager at CEM Systems.

An integrated solution…

The CEM AC2000 SE system, installed by the local integrators TJ Systems, provides an easy to use graphical display for central monitoring and control of all activities within the Checkpoint and

CASE SUMMARY

Location:
  Singapore

System:
  CEM:
    AC2000 SE (Standard Edition)
    S600 Card Reader

Jurong Island. The system provides seamless integration with CCTV using American Dynamics video-based security products that offer the client a single integrated graphic display for access control monitoring, operation of security cameras and handling intercom requests.

"With thousands of people and vehicles entering the island each day, the system needs to be able to process a large volume of traffic very quickly," said Schofield. "With potentially thousands of daily visitors, an efficient card issuing process is also vital."

Online visitor applications…

To reduce card issue times for the island's workers and the thousands of visitors to the island each day, CEM developed an electronic form for pass applications. This reduced the time to issue cards for arriving visitors to under a minute.

The system includes CEM S600 readers with contactless Smart Card technology to provide pedestrian access control on the many highspeed turnstiles at the checkpoint.

With proximity tags being mandatory for all vehicles in Singapore the Checkpoint uses long-range AVI readers installed at the 10 inbound checking lanes to control vehicular access to the island. Despite the high throughput of daily traffic, the system has helped to reduce vehicle clearance times at the checkpoint gantry from ten minutes to one minute per vehicle.

A key feature of the CEM S600 card reader is its internal database, which enables the reader to provide card validation even when off-line from the central system.

The integrity of the system was further enhanced using 5 synchronised back-up Servers to ensure continuous operation of the central system.