

ACCESS NEWS



CEM SYSTEMS

High Security System for US\$13 Billion Chemical Hub

CEM has supplied an integrated security management system for the recently opened US\$17 million Security Checkpoint at Jurong Island in Singapore.

Jurong Island is a major chemical hub holding multi-billion dollars worth of investments in the chemical industry.

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. "CEM was chosen because we can deliver a system that offers performance and system integrity along with the ability to develop the many software and hardware features required to meet the clients operational needs."

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 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.

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 high-speed turnstiles at the checkpoint.

With proximity tags being mandatory for all vehicles in Singapore the Checkpoint uses long-range AVI readers installed at the ten 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.



Singapore's Deputy Prime Minister Tony Tan looks on as a card swipe at a mock CEM reader marks the official opening of the Jurong Island checkpoint

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CEM Extends Security Solution at Norwich Airport



Norwich Airport has strengthened its security operations with the installation of CEM's Passenger Reconciliation system, allowing the airport authorities to verify that only authorized passengers can board the aircraft.



Management at Norwich Airport were looking for a cost-effective way to upgrade the existing passenger verification system. They identified the need for a system that could use the Airport's existing cameras and scanners and that could be changed over with minimum disruption to the passenger check process. They found the solution in the CEM Passenger Reconciliation system.



The system is an extension of CEM's security solutions at Norwich Airport with the AC2000 Airport Edition system (AC2000 AE) already used for access control throughout the airport.

The Passenger Reconciliation software allows handling agents/airline staff at Norwich to verify that the passenger who presented the ticket on entrance to the departure lounge is the same passenger who is boarding the aircraft.

It uniquely identifies each passenger as they move into the common user departure lounges and reconciles their image immediately prior to boarding.

"The system is designed to integrate effortlessly into the airport security team's routine with operators able to perform security checks in two simple stages through the capture and display of passenger images", explained Maggi Chesney, Director of AC2000. "The first stage involves capturing the passengers' image at the check-in desk or lounge entrance. This image is stored on the system for verification by handling agents/airline staff when the passenger arrives at a control post such as a boarding gate."



Remote Airport Building Secured

For over ten years, the CEM AC2000 Airport Edition system (AC2000 AE) has been successfully controlling authorised entry to secure areas of East Midlands Airport.

With changing legislation in the airport industry, the airport realised it needed to extend the system to control remote buildings and CEM's technology assisted in developing a cost-effective solution.

In response to the Department for Transport requirements, East Midlands Airport had the task of ensuring the AC2000 AE system was extended to cover buildings remotely located from the Main Terminal. This project presented a challenge to the Airport for a number of reasons.

One of the main difficulties and costs associated with monitoring access to a remote restricted zone is the connection and cabling required to link access readers to a main access control and monitoring system. In East Midland Airport's case this traditionally would have meant a great deal of grounds work both in terms of soft and hard dig and disruption to the smooth operation of the Airport.

CEM worked closely with its local installer, SDA Protec, to investigate various options of providing a suitable link with minimal disruption to airport operations and the use of radio modems was decided as the most viable solution.

To guarantee this link remained reliable, intelligent CEM S600 readers were linked to the Central Control & Monitoring System located in the Main Terminal control room via radio modems. The S600's onboard database ensures that access control is always provided at the remote site, even if it is unable to communicate with the central system.

Dundee Airport

Dundee Airport has placed an order for an AC2000 Airport Edition system. The Airport joins a growing list of airports, including 80% of all UK airports already using CEM for their access control.

Located in the heart of Scotland, the airport is the most convenient fly-in destination for the cities and scenic tourist areas of Central Scotland. Awarded through SDA Protec, this site further strengthens CEM's position as the leading access control supplier in the UK airport market.

Low cost access control using DCM 150

CEM has released a low cost, two-door controller suitable for use with the CEM webEntry™ and AC2000 SE systems.

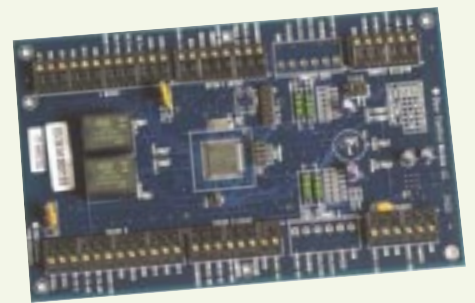
The DCM 150 (Door Control Module) supports third-party access control reader heads conforming to the physical Wiegand/Mag Stripe (data/data, clock/data) interfaces covering a range of technologies from RF Proximity to Biometric devices.

The DCM 150 interfaces non-CEM reader technology to the CEM range of intelligent Controllers and is ideal for installations where customers want to upgrade their existing access control system to webEntry or AC2000 SE without having to change their existing card readers or cards.

"We are delighted to be introducing the low cost DCM 150 controller into our product range", said Donna McDonnell, Director of Marketing at CEM Systems. "The DCM 150 simplifies customer migration to CEM's systems by supporting two third-party read heads. In addition, building installation costs are significantly reduced over other systems by using a single two-pair cable between the door and host controller."



Acting as a wiring concentrator for up to two doors it allows local door furniture and read heads to be wired to a single point near the door and remotely connected, via CAT5 or Belden 8723 cable, to a CEM intelligent controller. Up to sixteen DCM 150 units can be multi-dropped from a single RS485 cable run, up to a distance of 1,200 Meters from the host controller.



The device has been designed to offer flexibility for the user with two optional door configurations available. It can either be configured for two read heads on two separate doors with optional Exit push buttons, or can be configured to support an Entry/Exit configuration for bi-directional control on a single door.

Introducing webEntry™ TimeManager...

webEntry™ TimeManager is the latest enhancement to the webEntry™ system, providing users with a cost effective time and attendance function using their existing access control card readers and ID cards.



The optional software allows the office manager/system administrator to produce reports on the In and Out movements of staff to quickly and easily provide an overview of hours worked.

Reporting can be conducted from remote sites with the webEntry controller emailing the necessary information at regular intervals to a remote PC where webEntry™ TimeManager is installed allowing the user to run reports locally.

Benefits

- **Easy to configure reports**
- **Reduces time-consuming administrative tasks**
- **Remotely monitors timekeeping activity**
- **Provides accurate employee attendance data**



webEntry™ at a glance

- Access control via your web browser
- Low cost, easy to use
- Available in 8, 16 or 32 door configurations
- Remote real-time viewing of transaction & alarm events
- Real-time alarm notification to email, pagers, cell phones
- Capacity for 10,000 card records

Biometric security for Government Site

CEM is no stranger to providing innovative security solutions to meet a customer's unique requirements. So it was no surprise that when the UK government required a cost-effective system with advanced features to protect a highly sensitive site, CEM's expertise was called upon to offer that bit more.

The 2-stage project includes the installation of CEM's webEntry™ system as a short-term solution to secure the site during major refurbishment work, after which CEM's advanced AC2000 SE system will be installed.

"The client wanted a cost-effective solution to restrict the movement of construction workers during the refurbishment phase, however, they had a requirement for high-level security at a selection of locations within the site" said Philip Verner, Marketing Manager at CEM Systems. "Working closely with system integrators SDA Protec, CEM offered an ideal solution using the low-cost webEntry system with biometric technology, an option that is normally only available with high-end access systems."



webEntry is being used to control access throughout the construction site with fingerprint biometric devices integrated at locations where increased security is required. Access to these high-security areas will only be allowed if the person's proximity card is validated by the CEM S600 reader and the fingerprint presented at the biometric device matches the card used. This extra level of security ensures that only the cardholder with permission to enter the secure area can do so.

The webEntry system provides an additional benefit in that it is totally web-based allowing the client to administer the system and view alarms and transactions remotely.

The full upgrade path available with CEM products ensures the client can upgrade the webEntry system, complete with biometric integration, to the advanced AC2000 SE system to monitor employee activity when the refurbishment has been completed.



Please note some photographs used in this newsletter are for illustration purposes only.

Export Award for CEM

CEM has received a Language for Exports Award through UK Trade & Investment in recognition of overcoming language and cultural barriers in its export strategy.

The company was congratulated on its export achievements with particular attention given to success in Asia where CEM works closely with Tyco Fire & Security Asia to market its product range to meet local cultural and language differences.

Congratulations to all **CEM and Tyco** colleagues who have contributed to this success.



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