



## Belfast Harbour

Belfast Harbour is spread out over a 2000 acre estate stretching either side of Belfast Lough. Under the responsibility of Belfast Harbour Commissioners, the Harbour Estate encompasses a multitude of business tenants along with Port of Belfast.

With over 1.3 million passengers and 5,000 vessels passing through each year, the Port of Belfast is Northern Ireland's principal maritime gateway.

To secure the day-to-day operations at the Harbour estate, the Harbour Commissioners selected CEM's AC2000 system to provide a totally integrated security management solution with ID badging and advanced access control.

## CASE SUMMARY

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### **Location:**

Belfast, Northern Ireland

### **Systems Installed:**

AC2000 access control

AC2000 VIPPS (Visual Imaging and Pass Production System)

AC2000 AED (Alarm Event Display)

Integration with third party vehicle management application

### **Hardware Installed:**

CEM Portable Readers

CEM Etherprox Readers

## Introduction

Investing £270m over the last 15 years and having already engaged in a major overhaul of its CCTV system, the Harbour Commissioners next step was to invest in access control security. This investment decision was two-fold. It facilitated requirements under the International Ship and Port Facility (ISPS) code which was drawn up as a result of the September 11th terrorist attacks, as well as aiding the harbour's existing "Safety Management System" drawn up for the security of port customers, the public and the surrounding environment.

## Solution

### Security Pass System

To meet requirements under the ISPS code, Belfast Harbour introduced a security pass system to record details of all those entering and leaving a controlled building. Rather than just introduce a basic ID badge system, the Harbour decided upon CEM's AC2000 access control system with integrated ID badging software.

The integrated AC2000 VIPPS (Visual Imaging and Pass Production System) allows security officers to capture images and personnel data for the creation of professionally designed harbour ID cards. Card holders, such as staff, are only able to gain access to designated areas by presenting their card at CEM proximity-based card readers that have been installed at various buildings and checkpoints.



Using CEM card readers, movement around the site is constantly controlled and monitored including the main harbour and port operations buildings, the engineer's workshop and the harbour master's office. The need for security at the harbour office was of greater relevance given the fact that it is heavily ornate with impressive fine art collections and sculptures dating back to the seventeenth century. Due to the remote nature of the estate, the harbour decided to use CEM's advanced range of Ethernet enabled card

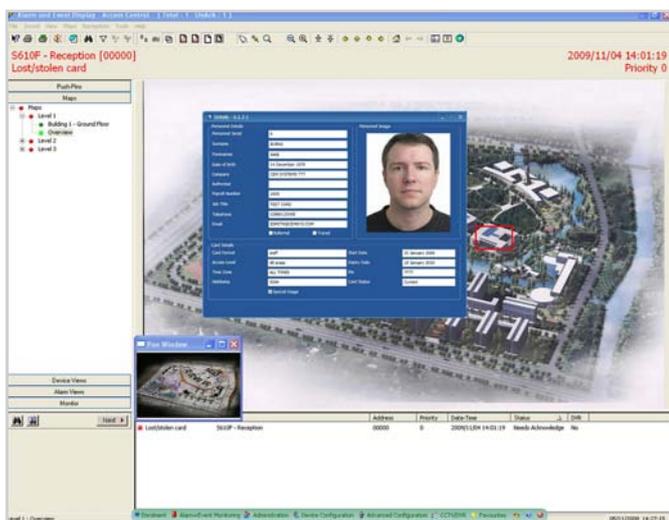
readers. Connecting directly over Ethernet without the need to run dedicated serial cable, the CEM EtherProx reader provided an economical way to connect remote buildings. Making use of existing IT infrastructure, the requirement for additional cabling costs was eradicated, particularly relevant given the vast size of the Belfast Harbour estate.

### Roaming checks

Belfast Harbour Police Officers and security staff are also using CEM's S3010 portable card readers which allow random checks to be carried out throughout the estate. Ideal for the port environment, Harbour Police officers are using the readers to set up temporary checkpoints within areas that are not constantly monitored via access control and have no fixed connection points in place. With an LCD backlight feature all messages on the readers such as "valid card" are easily read, especially when lighting conditions are poor during late evening patrols.

### Alarm Monitoring

The Harbour is also availing of a range of AC2000 software modules including AC2000 Alarm Event Display (AED) for alarm monitoring and visitor/vehicle applications.



The AC2000 AED module allows the Harbour to centrally control and monitor the entire AC2000 system. System operators can view system alarms/events either by advanced graphical maps of the Harbour estate, via text alarms or a combination of both. With a real time event display, AED instantly alerts Harbour security on the occurrence of all system incidents, allowing rapid action and thus ensuring the safety of employees, visitors and port users.

### Visitor & Traffic Management

Using a vehicle application Belfast Harbour can control and monitor vehicles that pass through the 30 Kilometres of roads that cover the estate. Information identifying the vehicle (make, model, registration etc) is recorded in the AC2000 system database with individual passes produced for display on vehicles, which are then verified in the same manner as a normal ID card. ID cards are also issued to visitors allowing the AC2000 system to record and track visitor flow throughout the Harbour sites.

*“Widely recommended by UK airports, the AC2000 system provides critical tools to help the Harbour meet security level requirements necessary under the ISPS code. AC2000 provides the platform, flexibility and integration possibilities we need to ensure we also meet any future changes in security legislation.”*

Sam Burke

Chief Police Officer at Belfast Harbour

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