



Keflavik International Airport

Keflavik International Airport lies on the Reykjanes peninsula, seven minutes from the town of Reykjanesbaer (Keflavik) and 50km southwest of Iceland's capital Reykjavik.

Keflavik is the main international airport for Iceland and features modern passenger and commercial facilities as well as extensive aircraft operation areas. Sitting astride the North Atlantic route linking Europe and North America, the airport is of major importance for technical stops and as an alternate airport on the North Atlantic.

CEM's AC2000 access control system and hardware solutions provide Keflavik International Airport with a highly reliable and flexible security solution.

CASE SUMMARY

Location:

Keflavik, Iceland

Systems Installed:

AC2000 access control system

Lift control

CCTV Integration

Dual Redundant Server

Hardware Installed:

xProx MiFare Readers

S610e intelligent IP card readers

S600 series fingerprint readers

Customisation:

Panic Mode and Schengen Mode

Online ID Card application customisation

Introduction

In July 2005, expansion works began at Keflavik Airport and operating 24 hours a day, 7 days a week, the airport required a highly reliable security solution that could be customised to meet their specific environment, as well as help secure the 2.3million passengers they service per year.

Solution

The CEM AC2000 security management solution was installed by CEM Reseller, Securitas HF, and proved the ideal choice for Keflavik Airport. Featuring advanced hardware and sophisticated software, CEM was able to customise the AC2000 system to meet the airport's unique requirements.

“As the only airport-tailored access control system, the CEM AC2000 system was the best solution for Keflavik International Airport,” commented Einar Gudlaugsson, Product Development Manager of Securitas HF.

“Working in consultation with CEM we designed a highly secure and flexible access control system to meet all of the requests of Keflavik Airport. The advanced security system design incorporates a dual redundant server, integrated CCTV, elevator control, and door level intelligence using CEM S600e fingerprint card readers and the CEM xProx MiFare smart card range of readers,” Gudlaugsson continued.

To further strengthen the system design, Keflavik Airport also installed a failover dual redundant server to ensure zero operational downtime and the highest level of system resilience.

xProx card readers

The xProx MiFare reader range controls over 300 airside/landside doors at the airport. To utilise existing cabling, Keflavik Airport opted to use a combination of InfoProx™ serial card readers and EtherProx™ IP card readers, with the Ethernet readers installed at new door locations throughout the Airport. The supplied xProx readers support MiFare smart cards and come equipped with an LCD display, keypad and internal database for card validation at the door. With readers continuing to validate ID cards even if offline from the host controller, Keflavik Airport is ensured a high level of system stability.

Ethernet fingerprint readers

As an added security measure at airport police locations, Keflavik also selected the CEM fingerprint readers. Fingerprint templates are captured on the CEM AC2000 enrolment station at the same time as cardholders' personnel details and image, and then saved to the AC2000 Server. The templates are then distributed via the access control system over Ethernet to the fingerprint reader eliminating the need for an additional biometric network. This provided Keflavik Airport with a flexible, single solution for biometric template management.

Flexible solution

"With our ability to customise the system hardware and software, our solutions have added flexibility to the design of the security system at Keflavik Airport," commented Andrew Fulton, Global Sales Director, CEM Systems. "To help operations at the airport run more efficiently we developed a web interface for airport contractors to apply online for temporary passes. We additionally made a number of customisations to the xProx card reader firmware to provide client-specific door modes."

Customised door modes

Customisation for this particular project involved a Panic Mode for emergency situations and a Schengen Mode which help the airport manage the segregation of passengers according to their country status in the European Schengen Federation. This is an agreement among European states that allows for the abolition of systematic border controls between participating countries, such as Iceland.

Airline staff at Keflavik Airport can use the xProx card reader, remotely or via card swipe, to select the Schengen Mode and subsequently interlocking groups of doors to route passengers from non-Schengen countries to customs for passenger identity checks and border controls.

Online pass application

To enhance operational efficiency and add flexibility to the ID Pass unit at Keflavik Airport, CEM designed a customised Online ID Card Application for users such as temporary contractors to request a permanent or temporary ID card via the web. Users can request an ID card in advance of visiting the pass office by submitting personal details and specifying access requests such as required airport zone(s), time zone and card validity period. Upon submission of the online form, ID unit staff then review and determine application status accordingly. If accepted, the data is transferred permanently to the access system (via the AC2000 Personnel screen) where a pass is printed, validated and issued as normal.

With future expansion plans and passenger traffic at the airport expected to reach 3.2 million by 2015, the flexible AC2000 access control system can easily continue to grow to meet ongoing security requirements at Keflavik International Airport.

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