AC2000
AIRPORT

IN THE FAST MOVING WORLD
OF AVIATION YOU CAN RELY ON
AC2000 AIRPORT; A POWERFUL
ACCESS CONTROL AND SECURITY
MANAGEMENT SYSTEM

CEM SYSTEMS
From Tyco Security Products

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HEATHROW AIRPORT, UK

VANCOUVER AIRPORT, CANADA

BUDAPEST AIRPORT, EUROPE

XIAMEN AIRPORT, CHINA

DUBAI INTL. AIRPORT, UAE

INDIRA GANDHI INTL. AIRPORT, INDIA

HONG KONG INTL. AIRPORT, CHINA

AUCKLAND AIRPORT, NEW ZEALAND

SECURING THE GATEWAYS OF THE WORLD

USED BY MANY OF THE WORLD'S LEADING AIRPORTS FOR OVER 25 YEARS, AC2000 AIRPORT IS AN AVIATION-SPECIFIC SECURITY MANAGEMENT SYSTEM THAT HAS A PROVEN RECORD AS ONE OF THE MOST RELIABLE AND RESILIENT SECURITY SOLUTIONS AVAILABLE. THE FLEXIBILITY AND HIGH QUALITY OFFERED BY AC2000 AIRPORT IS A KEY FACTOR IN ITS SUITABILITY FOR THE AVIATION ENVIRONMENT.

WHAT CAN AC2000 AIRPORT OFFER YOU?

Airport access control
AC2000 Airport encompasses all the core software features of the powerful AC2000 system with a host of additional functions that have been specifically designed for airports including card charging, authorizers, airport utilities and IATA code.

Flexible, customized solution
CEM Systems understands that airport security needs and legislation requirements change over time. As such, AC2000 Airport software and hardware is highly flexible to meet project needs for integration or customization. AC2000 software also incorporates built-in user definable fields that enable airports to build a self-configured, customized system.

Integration
Acting as the Security Management System (SMS), AC2000 Airport provides high levels of integration and one powerful command and control front-end for alarm management of multiple airport security systems; including access control, video, intrusion, fire, perimeter detection and much more.

Scalability
AC2000 Airport supports unlimited cardholders and doors, featuring virtually unlimited expansion capabilities. This is ideal for airports that are sizable and subject to continuous growth over time.

System resilience
AC2000 system architecture features layers of resilience. The AC2000 server is built on a highly stable operating system that can be further enhanced with a failover/redundant server. The use of distributed intelligence at all levels of the system is also achieved using CEM intelligent card readers with an LCD screen and a large internal database for offline card validation; a critical requirement for airports.

KEY SYSTEM FEATURES

- Highly stable Linux operating system
- Windows® based operator workstations
- Virtually unlimited system expansion
- Intelligent, multi-technology CEM card readers
- Seamless integration with external systems; CCTV, intrusion, fire, perimeter detection and more
- Multi-language support
- Extensive web-based AC2000 applications
- Redundant server

And much more

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TYPICAL SYSTEM ARCHITECTURE

Airport Link to remote sites

AC2000 main server (CDC)

Hot standby (redundant CDC)

Camera

CCTV integration

ID card printer

AC2000

AC2000 enrollment workstation (VIPPS)

AC2000

Intruder detection integration

AC2000 Alarm Event Display (AED) workstation

Validation readers

Fire detection integration

And many more

TCP/IP NETWORK
ETHERNET OPTIONS

Input/output controllers. Up to 16 inputs & 8 outputs

(Optional) PoE Midspan

S3040 Handheld Portable Reader

RTC Ethernet Controller (Max. 256 Ethernet Readers)

(Optional) PoE+ Door Interface Unit

emerald access terminal

S610e card reader/ controller

S610f fingerprint card reader/ controller

eDCM 300 intelligent two-door controller

3rd party Wiegand readers

Wireless locks

- ● Wiegand
- ● TCP/IP Comms
- ● RS485 Comms
- ↕ WIFI or USB connectivity

INNOVATIVE ACCESS SOLUTIONS FOR MISSION CRITICAL AIRPORTS
CEM AC2000 HARDWARE IS HIGHLY INNOVATIVE AND REFLECTS THE LATEST IN SECURITY TECHNOLOGY.

Intelligent card readers
CEM card readers offer multiple layers of security throughout airports, controlling airside and landside boundaries, gates, Air Traffic Control Towers and associated remote buildings. With an internal database, readers can validate cards and store transactions offline, ensuring zero system downtime and a 24/7 operational airport environment. With a keypad feature for additional PIN security and an LCD, messages such as Access Denied and Card Expiring are easily displayed. This prevents operational delays as ID cardholders can quickly communicate reasons for denied entry to the airport ID unit.

Touch screen card reader / terminal
CEM emerald access terminal is a revolutionary edge device. Featuring a touch screen reader and controller in one, with built in Voice over IP (VoIP) intercom functionality, emerald uniquely enables data normally only available on the AC2000 client PC to be accessed securely at the door for functions including reader maintenance, aviation check-lists, display of airport advertisements and much more.

Integrated biometrics
Featuring a controller, card reader and fingerprint solution in one, the CEM S610f fingerprint reader is a fully integrated biometric and access control reader that is used to control access where an additional biometric layer of security is required. It provides a fully integrated fingerprint biometric solution without the need to use a door controller or third party biometric equipment and software.
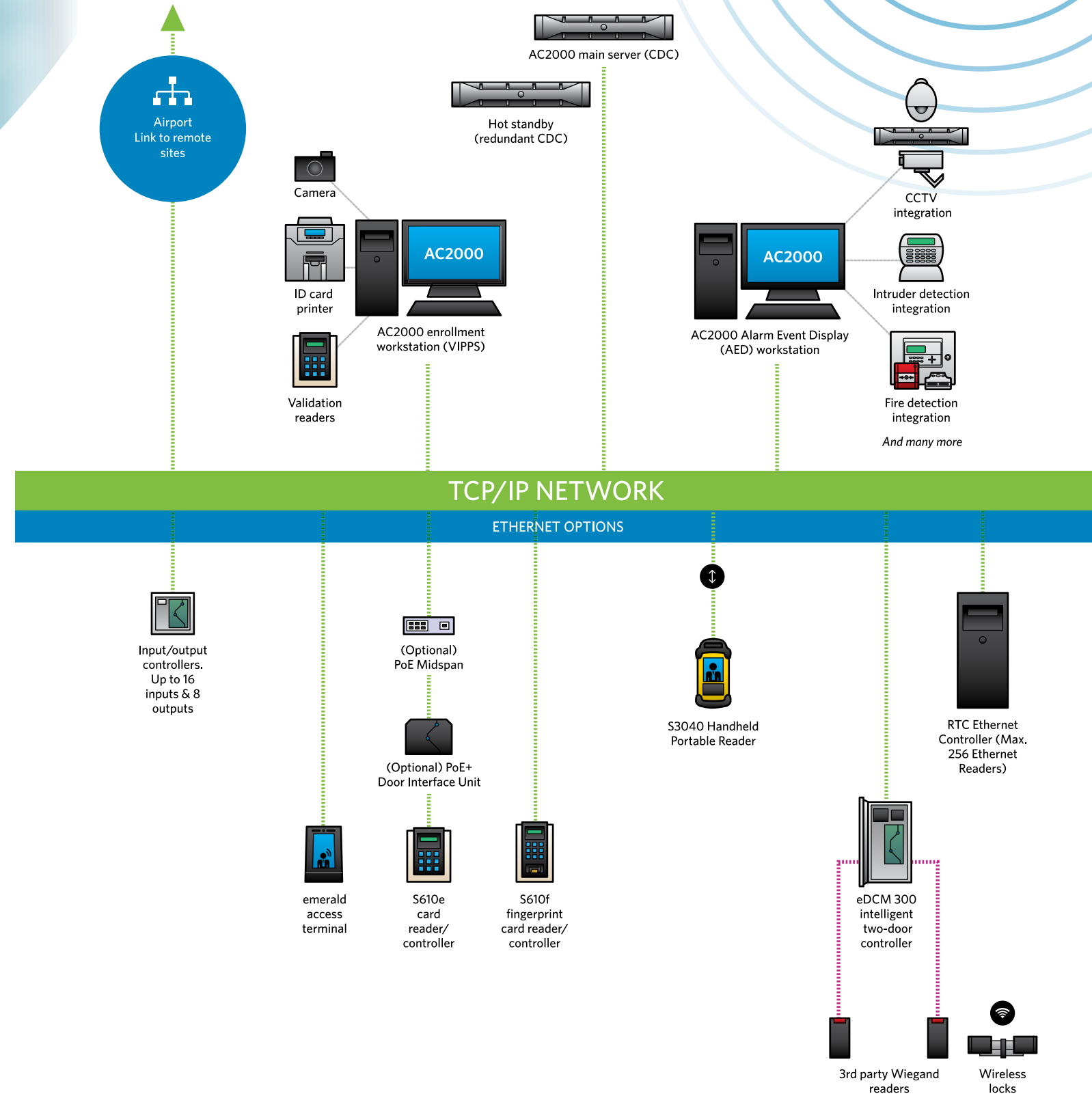
Portable card readers
CEM portable handheld card readers offer airports a quick way of providing temporary guard check points for random security spot checks around the airport or can be used for external areas inaccessible for cables.

Typical AC2000 Airport system architecture only.
For the full range of CEM products please visit **www.cemsys.com**

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AN OPERATIONAL SOLUTION FOR AIRPORTS

AC2000 AIRPORT IS MORE THAN AN ACCESS CONTROL SYSTEM. IT HELPS AIRPORTS TO RUN MORE EFFECTIVELY IN TERMS OF BOTH COST AND OPERATIONS.

Passenger segregation
AC2000 Airport allows airports/airlines to segregate arriving and departing passengers by using CEM card readers. The readers are interlocked so that if one reader is in Passenger mode (for multiple throughput) the other can only be put in Staff mode (for individual entry). This enables the free flow of passengers through departure and arrival gates without compromising security and creating security airlocks across the RZ 'Restricted Zone' line.

Check-in desk enabling
CEM card readers can be used to enable/disable shared check-in desks or luggage carousels. The system provides a report on check-in desk usage which can then be sent to the finance system for invoicing airlines for their appropriate use.

Air-bridge monitoring
CEM card readers installed at each air-bridge ensure that only authorized and trained personnel can operate them. A valid card and/or PIN must be presented before activation. The system provides data for advanced reporting which enables airports to reduce air-bridge maintenance costs and charge airlines for faults and usage.

Temporary cardholder management
AC2000 Airport provides a powerful tool to monitor and control access of temporary cardholders (visitors), recording information such as reason for temporary card and the name of the airport sponsor. The powerful AC2000 WEB Visitor Management application also enables temporary cardholders to be requested and managed from any location via a standard web browser.

Vehicle management
AC2000 Vehicle Management ensures that only authorized passengers within a vehicle can pass a control point. It also provides the ability to monitor and report on vehicle usage within an area such as a car park, identifying when maximum occupancy levels are reached.

Green initiatives
Using Equipment Enable feature on CEM card readers, all equipment throughout the airport can be controlled and monitored for cost efficiency purposes. For example, escalators, heat curtains and fixed electrical equipment can be enabled when required and automatically shut down for energy conservation.

Airport link
Airports that are owned by the same operator can be linked and networked upon request, allowing valid cardholders to go from one airport to another and use the same ID card at each airport.

Advanced reporting
Using AC2000 Airport system data for sophisticated reporting purposes, airports can reduce costs without compromising security.

Data clear down
Very often legislation dictates that an airport must not hold cardholder personal data for more than a set number of years. AC2000 Airport meets these legal requirements by enabling airports to automatically remove inactive cards/stored images from the system that have not be used within the given time period.

Integration
The AC2000 Security Hub application provides one powerful platform for the control and monitoring of access control and integrated systems. Airports have access to one graphical command and control center, with CCTV, fire and access control alarms / devices highlighted. This enables airport operators to monitor multiple systems and instigate corrective action in real time from one central source.

OPERATIONAL APPLICATIONS

- Check-in desk enabling
- Luggage carousel enabling
- Passenger segregation
- Air-bridge monitoring
- Green initiatives
- Panic button facility
- Temporary cardholder (visitor) management
- Vehicles management
- Direct link to airport invoicing
- Card parking facility
- Airport link
- Equipment enable
- Threat levels

And much more

AC2000 Airport is used by leading airports around the world, including over 80% of UK airports to:

- Manage access throughout the airport and prevent unauthorized access to secure areas
- Manage the flow of passengers, temporary cardholders and baggage through access points inside the airport
- Provide command and control for airport security, law enforcement and airport management personnel

- Provide one fully integrated graphical user interface for all electronic systems within the airport
- Enable shared check-in desk usage by airlines
- More efficiently use and control air bridges
- Manage vehicle flow and control of vehicle access
- Manage lift control of common use passenger lifts
- Enhance overall safety
- Manage the staff ID pass production system with an interface for invoicing

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