



# AC2000

IN A FAST MOVING WORLD YOU  
CAN RELY ON **AC2000**; A POWERFUL  
ACCESS CONTROL AND SECURITY  
MANAGEMENT SYSTEM





**CEM SYSTEMS**

*From Tyco Security Products*

## **WHEN SECURITY IS PARAMOUNT**

AC2000 ACCESS CONTROL AND SECURITY MANAGEMENT SYSTEM HAS BEEN SUCCESSFULLY INSTALLED AT SOME OF THE LARGEST FACILITIES AROUND THE WORLD INCLUDING OIL REFINERIES, PORTS, AIRPORTS, HOSPITALS, CASINOS, UNIVERSITIES, CORPORATE PREMISES AND MORE. CONTINUOUSLY DEVELOPED TO MEET THE MOST COMPLEX OF SECURITY NEEDS, AC2000 PROVIDES A HIGHLY STABLE, PROVEN SOLUTION FOR INSTALLATIONS WHERE SECURITY IS OF PARAMOUNT IMPORTANCE.

## WHAT CAN AC2000 OFFER YOU?

CEM MANUFACTURER BOTH THE AC2000 HARDWARE AND SOFTWARE, OFFERING ONE OF THE MOST COMPREHENSIVE, RESILIENT AND FLEXIBLE SECURITY SYSTEMS AVAILABLE.



### 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/controllers with their own database for offline card validation. Typical client system applications are also available at the door using the revolutionary CEM emerald™ touch screen terminal, which provides users with distributed system intelligence right at the edge.



### Flexible, customised solution

CEM Systems understands that the IT and security needs of all sites are different. As such the AC2000 software and hardware is highly flexible to meet unique project needs. AC2000 software also incorporates built-in user definable fields that enable customers to build a self-configured, customised system.



### Integration

AC2000 provides high levels of integration by using industry standard interfaces to link with third party security systems. Acting as the Security Management System (SMS), AC2000 provides one powerful command and control front-end for alarm management of multiple systems, including access control, video, intrusion, fire, perimeter detection and much more.



### Central/Remote configuration

With an internal database offering built-in intelligence, CEM readers have been designed with ease of installation in mind and can be programmed and managed remotely to receive updates within minutes. AC2000 can also broadcast messages to card readers to open doors in emergency situations or to control lighting, PIR burglar alarms, heating or similar external systems at pre-defined times.



### Future proof

AC2000 has virtually unlimited system expansion capabilities. Built with the flexibility to grow as user requirements change, software licensing and readers/controllers can be easily expanded to support an unlimited number of doors.

## KEY SYSTEM FEATURES

- Highly stable Linux operating system
- Windows® based operator workstations
- Hot standby/ redundant server
- Seamless integration with external systems; CCTV, Intrusion, Perimeter

- Detection, Fire and more
- Intelligent CEM card readers and two-door controllers
- Supports third party read heads and multiple card technologies
- Supports wireless locks
- Virtually unlimited system expansion

- Sophisticated software suite
- User definable software fields
- Multi-language support
- Extensive web-based AC2000 applications
- Highly customisable

**And much more**



## INDUSTRY LEADING HARDWARE

CEM AC2000 HARDWARE IS HIGHLY INNOVATIVE AND REFLECTS THE LATEST IN SECURITY TECHNOLOGY.



### Intelligent card readers & controllers

The CEM range of readers feature a keypad for card plus PIN control and have an on-board database to store transactions and operate offline, ensuring zero system downtime and no loss of security or transaction information. The readers also feature an LCD screen to display meaningful outcome messages and have multiple door operating modes including Turnstile, Interlock and Equipment Enable mode. Using CEM intelligent two-door controllers, AC2000 also supports third party read heads, including support for third party biometric readers and wireless locks.



### 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 locally at the door for functions including reader maintenance, room bookings, display of company advertisements, visitor information and much more.



### Fingerprint card reader

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 reader

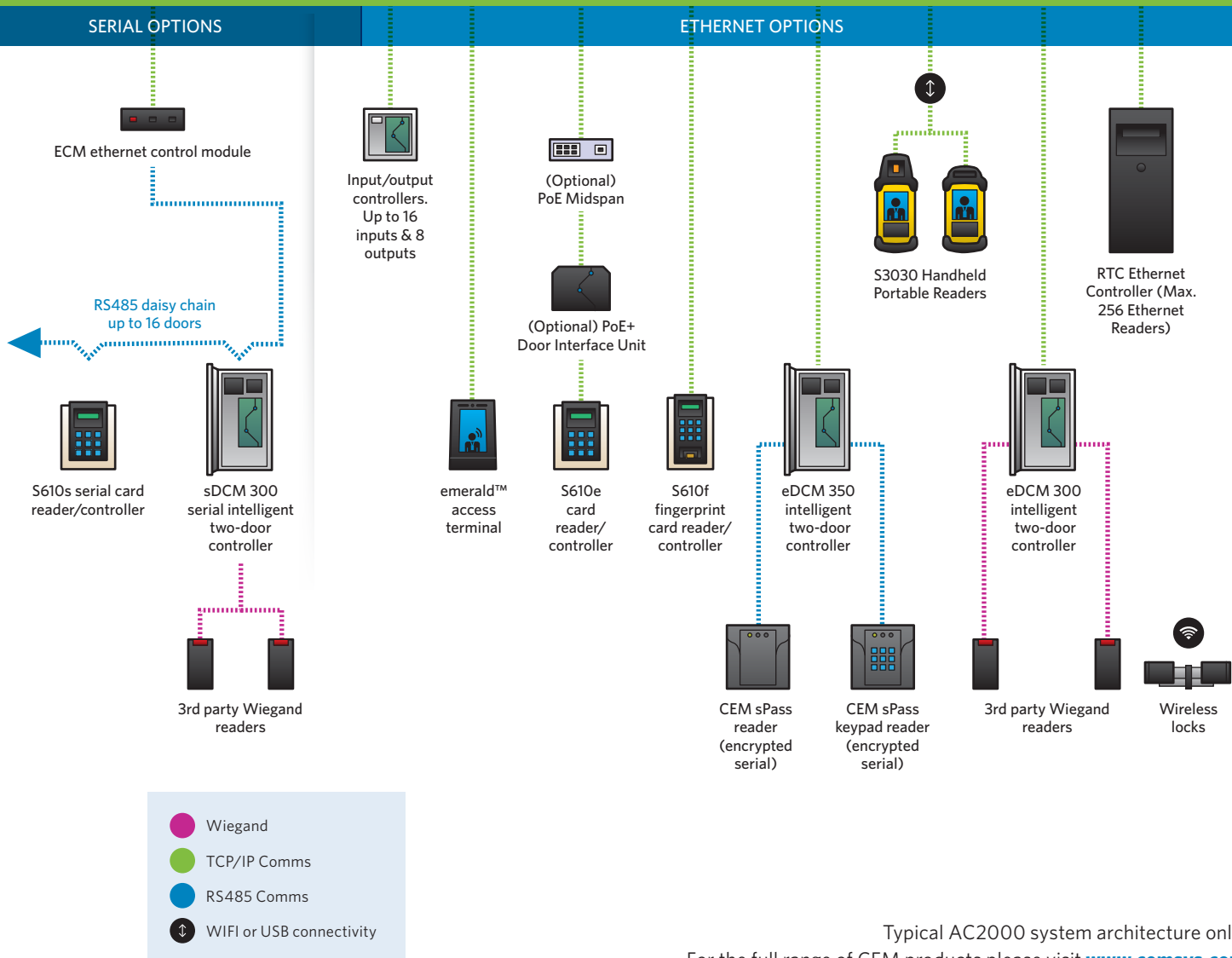
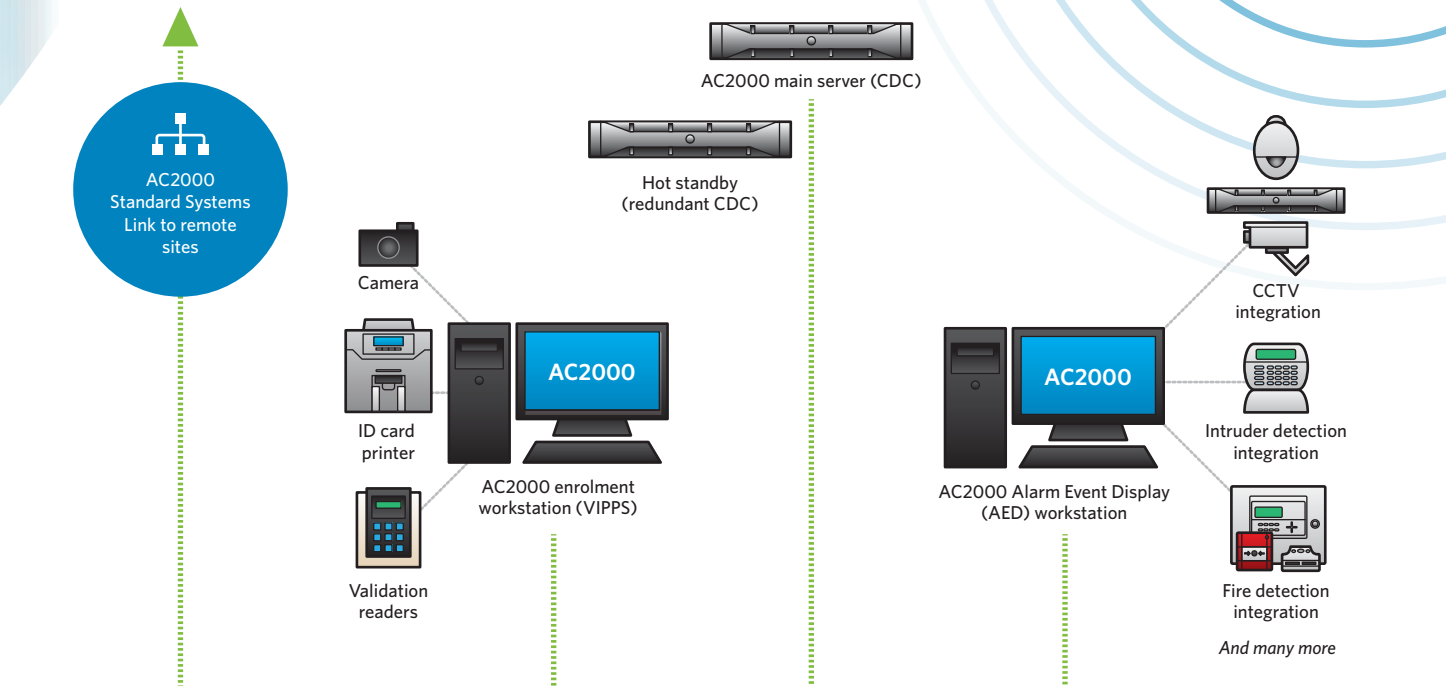
CEM S3030 portable handheld readers can be used for cardholder validation at remote sites or temporary entrances that have no power and can be used as a mobile device for random checks within pre-defined zones.



### Power over Ethernet access control

The CEM Power over Ethernet Plus (PoE+) solution (used in conjunction with the CEM range of IP card readers and controllers), provides power to the door via the same CAT 5/6 Ethernet cable as used for communications. This offers significant savings on infrastructure cost by removing the necessity to provide a local mains power supply for each access controlled door.

## TYPICAL SYSTEM ARCHITECTURE







AC2000 OFFERS A POWERFUL SUITE OF CLIENT AND BROWSER BASED APPLICATIONS INCLUDING CENTRAL ALARM MONITORING, INTEGRATED COMMAND AND CONTROL, SOPHISTICATED ID BADGING, VISITOR MANAGEMENT, WEB REPORTS AND MUCH MORE.



#### **Central alarm monitoring**

AC2000 Alarm Event Display (AED) provides a complete graphical and textual representation of the status of the entire access control system and integrated sub systems. AC2000 AED responds to all alarm situations in real time providing a dynamic on-screen interface to systems with advanced graphical maps, live video pop-up and remote door broadcasting.



#### **Integrated command & control**

As a powerful security management system, AC2000 can effectively monitor for a condition in one integrated sub system and cause an action in another. For example view live video pop-up upon a perimeter breach or intruder alarm.



#### **Integrated photo ID badging**

The CEM Visual Imaging Pass Production System (VIPPS) allows users to produce professional permanent and temporary ID badges. VIPPS can also be used to enrol fingerprint biometric templates directly onto the AC2000 system.



#### **Threat levels**

AC2000 Threat Levels application enables building security to be quickly reconfigured during times of heightened security. At the click of a button, authorised system administrators can change the level of security required at the door to include PIN / biometric verification or to remove access permissions from cardholders system wide.



#### **Zone monitor**

Zone Monitor application allows a real time view of all cardholder(s) movements in a selected zone. This provides information on who is present on site, as well as a counter of the total people in a zone for safety and security reasons.



#### **Rolling transaction display**

The Rolling Transaction Display (RTD) application features a split screen view of real-time transaction outcomes and alarms. When a card is swiped at a reader, the cardholder's stored image and associated personnel details are displayed. This allows guards to perform a visual security check that the right person is using the card.



### AC2000 WEB

The powerful AC2000 WEB platform offers easy to use browser based applications that can be accessed from any networked location via a PC, tablet or smart phone. Users can respond to alarms online, configure the AC2000 system remotely, as well as import personnel data and view WEB security dashboard reports, all at the click of a button. AC2000 WEB applications are ideal for quick and efficient access to AC2000 functionality without the requirement of installing any software.



### AC2000 WEB visitor management

AC2000 WEB visitor management is a powerful tool that enables users to request and manage temporary cardholders (visitors) from any location via a standard web browser. Using an easy to use front-end web application, users can simply add visitor details, photos, sponsor details, reason for visit, visit duration and access level required.



### Database partitioning

The AC2000 server can be divided into multiple partitions for multi-site operations. Partitioned system administrators have the ability to add personnel cardholders, produce ID badges and manage alarms on their own site, but are prevented from seeing the data of other partitioned databases that reside on the same AC2000 server.

## OPERATIONAL APPLICATIONS

- Central monitoring (Alarm Event Display)
  - Integrated command and control of sub systems
  - Integrated photo ID badging
  - Guard tours
  - Zone monitor / mustering
  - Rolling transaction display
  - Threat levels
  - WEB visitor management
  - WEB dashboard and reports
  - Vehicles management
  - Elevator control
  - Database partitioning
  - Time & attendance reporting
  - Keypad commands
  - Standard system link
  - Time zones & holidays
- And much more**



## AC2000 SOFTWARE OPTIONS

### AC2000

- Powerful and fully integrated access control & security management system
- Supports unlimited number of doors
- Supports unlimited number of cardholders
- Highly customisable
- High level integrations with leading video, intruder, fire & perimeter detection partners
- Ideal for medium to large scale complex projects

### AC2000 Lite

- Cost effective access control for smaller sites
- Supports up to 128 doors
- Supports up to 5 workstations
- Supports up to 10,000 cardholders
- Encompasses core AC2000 software modules
- Integration with selected video and intruder systems
- Ideal for small to medium sized projects

### AC2000 Airport

- Integrated airport-specific access control & security management system
- Proven in leading airports around the world; including 80% of UK Airports
- Highly customisable
- Aviation features include Check-in-desk enabling, Passenger segregation, Air-bridge monitoring

***And much more.***