End-to-end encrypted access control
centralised, secure solution

Using advanced encryption protocols, the ioSmart reader solution ensures data is securely transmitted from the smart card to the AC2000 server.

Acting as the central hub, AC2000 software manages encrypted keysets, smart card provisioning, and secure data transmission, automatically distributing DESFire keysets and card definitions to connected hardware for consistent, centralised control and uncompromised security.

1

4 DESFire EV3 smart card

3 IOSmart reader

AES 128

2 Encrypted OSDPv2

DCM 400

AC2000 Server

1	**2**	**3**	**4**
AC2000 SMART CARD UTILITY	**AUTO-DETECT OSDPV2 PROTOCOL**	**NO PERSISTENT KEY STORAGE**	**DOWNLOADABLE CARD DEFINITIONS**
Self-program and manage AES-128 encryption keysets directly in AC2000, which are then distributed securely via the network. Key Rolling enables seamless switching to a secondary keyset for enhanced security, without disruption.	Enables secure, automatic detection and communication of the OSDPv2 protocol between ioSmart readers and DCM 400 controller, ensuring seamless encrypted data exchange.	Card formats and keys are securely distributed to devices via AC2000. No keys are permanently stored in the reader's memory, eliminating manual configuration and enhancing system security.	Card definitions are automatically sent to ioSmart via AC2000 - enabling it to read card formats, including encrypted DESFire credentials. Provides secure Personal ID (PID) reading and supports dual keysets.

Secure four doors
unlock new opportunities

The ioSmart 4-Door Access Control Bundle is the most all-inclusive, feature-rich access control bundle in the market today.

Whether trialling smart credentials or securing a new standalone facility, the ioSmart 4-Door Bundle delivers advanced CEM Systems software, high-end encryption, seamless smart card management, and simplified deployment—all at an exceptional price.

REQUEST A DEMO TODAY OR EXPLORE MORE AT WWW.CEMSYS.COM

The power behind **your mission**

CEM Systems ioSmart 4-Door Access Control Bundle

Big security for small sites

www.cemsys.com

The power behind **your mission**

Enterprise-level access control
at an entry-level cost

At CEM Systems, we believe that uncompromising, enterprise-level security should be accessible to organisations of all sizes. The ioSmart 4-Door access control bundle delivers the power of our trusted AC2000 security management system in a streamlined, all-in-one solution designed for smaller sites.

Combining AC2000 software with intelligent CEM Systems hardware, AES encryption, and advanced smart card management, this cost-effective bundle offers a comprehensive, fully scalable security system, at an exceptional entry-level price.
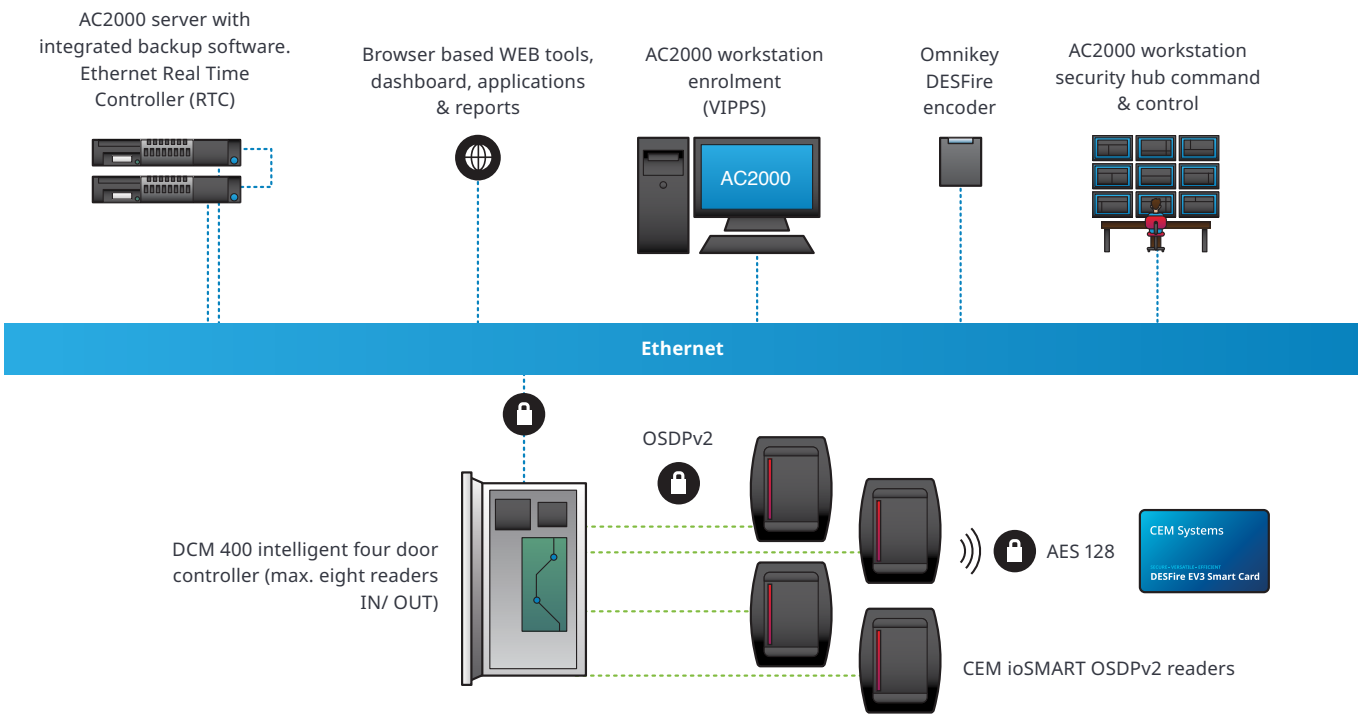
WHAT'S INCLUDED

- AC2000 Security Management Software – up to 8 doors licence support.
- AC2000 SmartCard Utility software for custom AES-128 keyset management.
- Security Hub software licence.
- 1 x DCM 400 – Intelligent 4-door access controller in enclosure with 12V PSU.
- 4 x ioSmart DESFire RFID readers (Non keypad).
- 1 x Omnikey DESFire encoder.
- 100 x CEM Systems personalised DESFire EV3 cards.

The power behind **your mission**
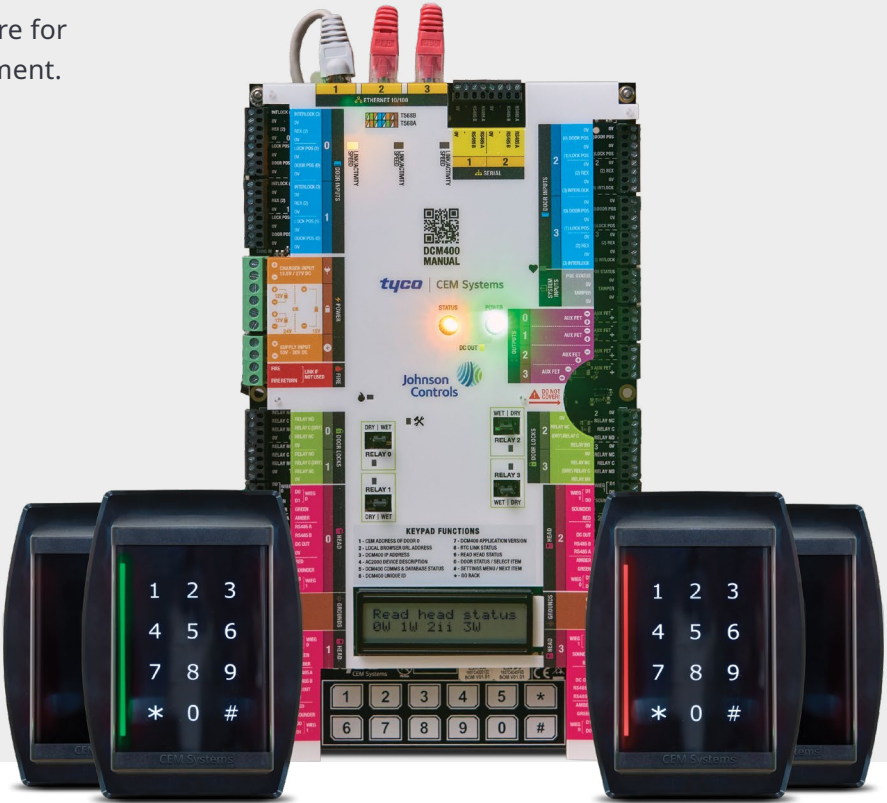
## AC2000 ioSmart 4-door bundle
small site - big security

CEM Systems delivers intelligent, fully integrated, encrypted access control by designing both AC2000 hardware and software in-house. This unified approach ensures high security across your infrastructure, protecting data from smart card to server.

The ioSmart 4-door bundle offers small sites full AC2000 functionality with no licensing limits. It includes a powerful suite of client and web-based applications including VIPPS for ID badging, Security Hub for centralised monitoring and integrations, WEB Visitor Management, Smart Card Utility for secure keyset generation and more.

AC2000 server with integrated backup software. Ethernet Real Time Controller (RTC)

Browser based WEB tools, dashboard, applications & reports

AC2000 workstation enrolment (VIPPS)

Omnikey DESFire encoder

AC2000 workstation security hub command & control

AC2000

Ethernet

OSDPv2

DCM 400 intelligent four door controller (max. eight readers IN/ OUT)

AES 128

CEM Systems
DESFire EV3 Smart Card

CEM ioSMART OSDPv2 readers

ALL-IN-ONE SECURE, SCALABLE SOLUTION

The ioSmart bundle delivers full AC2000 functionality without licensing expansion limits. Start with ioSmart devices and scale to unlimited doors using upgrade licenses and premium CEM hardware like emerald as your needs grow.

The power behind **your mission**
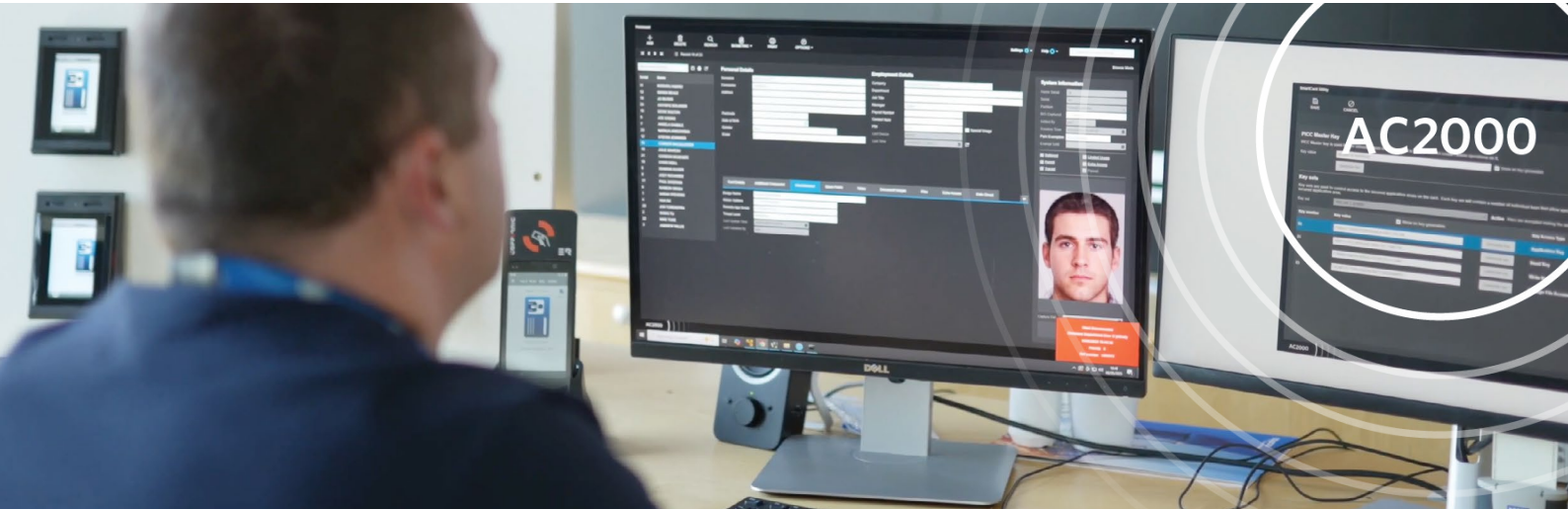
The smart way forward
ioSmart bundle benefits

END-TO-END ENCRYPTION:
OSDPv2 and AES-128 encryption secures data from card to server.

UTILISES ADVANCED DESFIRE TECHNOLOGY:
Alongside DESFire EV3, ISO/IEC 14443A/B smart card credentials supported.

USER-OWNED SMART CARD CREDENTIALS:
Define and manage encrypted keysets via the AC2000 smartcard utility.

PLUG-AND-PROTECT INSTALL:
ioSmart auto-detects and connects with DCM 400 controller via secure OSDPv2 protocol for fast installation.

REMOTE READER CONFIGURATION:
Downloadable Card definitions and encryption keys sent remotely via AC2000-no physical configuration cards or mobile apps required.

FULLY SCALABLE:
Start with four doors and expand without limits. The modular AC2000 architecture grows with your security needs.

The power behind **your mission**