



**New Product
Announcement**

CEM AC2000 v7.1

Release Date: January 2016

tyco
Security Products

// Introducing... AC2000 v7.1

Latest release of AC2000, AC2000 Lite & AC2000 Airport
New features include:

// Multiple cards per cardholder

// New emerald Room Booking Interface

// Integrated Finger Vein enrolment using MorphoSmart
Finger VP Desktop

// Enhanced Application Programming Interface (API)

// Powerful System Enhancements:

- Redesigned AC2000 Personnel, Visitors and Extended Reports
- Enhanced Data Import Tool
- Enhanced AC2000 Web Interface

// New Integration Interfaces

- Zettler Profile MZX Fire Panels
- Commend VirtuoSIS Intercom System
- Otis Panorama Elevator Management System

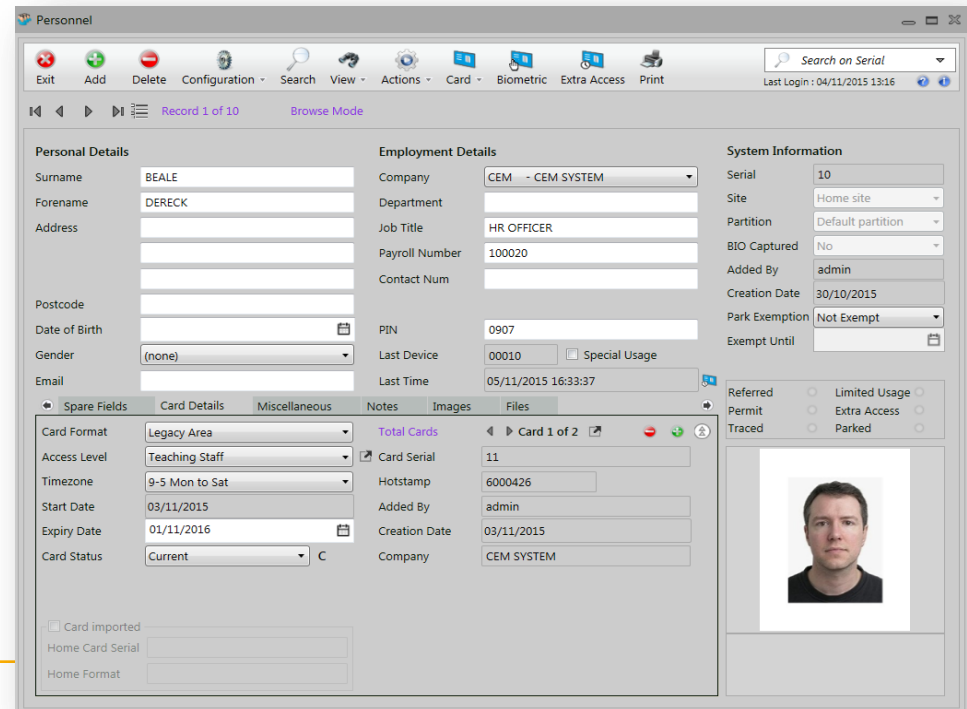


// Multiple Cards per Cardholder

AC2000 system now allows administrators to enrol and characterise more than one active card per Personnel record.

Although belonging to the same personnel record, each card has its own unique characteristics, such as:

- Primary Access Level
- Time-zone
- Start & Expiry Date
- Card Status



The screenshot shows a web-based interface for managing personnel records. The main window is titled 'Personnel' and displays details for a specific cardholder. The interface is divided into several sections:

- Personal Details:** Includes fields for Surname (BEALE), Forename (DERECK), Address, Postcode, Date of Birth, Gender (none), and Email.
- Employment Details:** Includes Company (CEM - CEM SYSTEM), Department, Job Title (HR OFFICER), Payroll Number (100020), Contact Num, PIN (0907), Last Device (00010), and Last Time (05/11/2015 16:33:37).
- System Information:** Includes Serial (10), Site (Home site), Partition (Default partition), BIO Captured (No), Added By (admin), Creation Date (30/10/2015), Park Exemption (Not Exempt), and Exempt Until.
- Card Details:** A tabbed section showing 'Card 1 of 2'. It includes fields for Card Format (Legacy Area), Access Level (Teaching Staff), Timezone (9-5 Mon to Sat), Start Date (03/11/2015), Expiry Date (01/11/2016), Card Status (Current), Card Serial (11), Hotstamp (6000426), Added By (admin), Creation Date (03/11/2015), and Company (CEM SYSTEM).
- System Information (Bottom Right):** Includes options for Referred, Permit, Traced, Limited Usage, Extra Access, and Parked.

A small portrait photo of the cardholder is visible in the bottom right corner of the interface.

// Multiple Cards per Cardholder



This solution is particularly useful when the site is migrating from one card technology to another. While cardholders continue to use their current card, system administrators are able to issue new cards that can be used simultaneously until the transition is complete.



// Benefits:

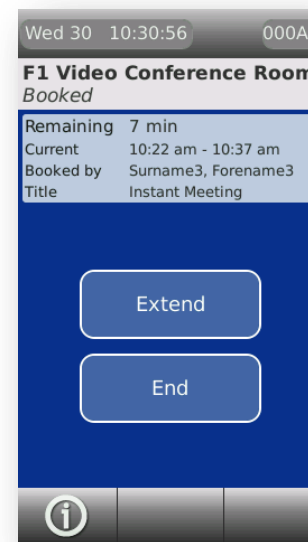
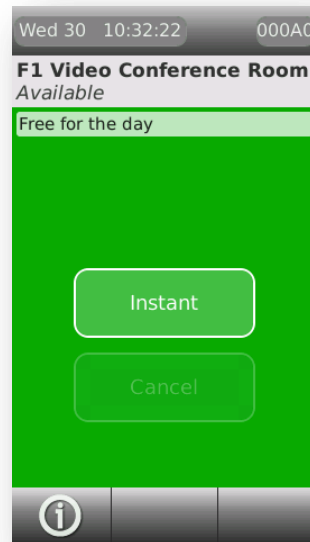
- Greater flexibility when assigning and managing site credentials
- Employees using card at certain entrances while using PIN-only at other
- Employees can use their secure 6-digit PIN when they forget their card
- A group of readers can use CSN while others use PSN

// Integration with Microsoft Outlook



// New Room Booking Interface

The room booking system allows users to reserve predefined rooms for a period of time via high-level integration with [Microsoft Outlook](#), as well as book rooms directly at the door through a dedicated emerald Room Booking interface.



// Integration with Microsoft Outlook



// New Room Booking Interface

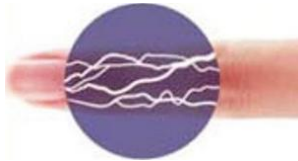


// Benefits:

- Seamlessly integrated Microsoft Outlook room bookings via Exchange Server
- Easy and intuitive configuration using AC2000 Web interface to assign emerald terminals to meeting rooms
- Create and manage bookings directly from emerald interface
- Instant email notifications

// AC2000 Integrated Finger Vein Enrolment

- // **Fully integrated biometric enrolment** – single software platform to capture and manage biometric templates
- // **Dual biometric** – secure hybrid technology enrolment and verification of Fingerprint & Finger Vein pattern at the same time



- // Fusion of these 2 technologies provides:
 - Increased accuracy
 - Reduces probability of rejecting genuine individuals & accepting impostors (low FAR, FRR)
 - lower failure to enroll

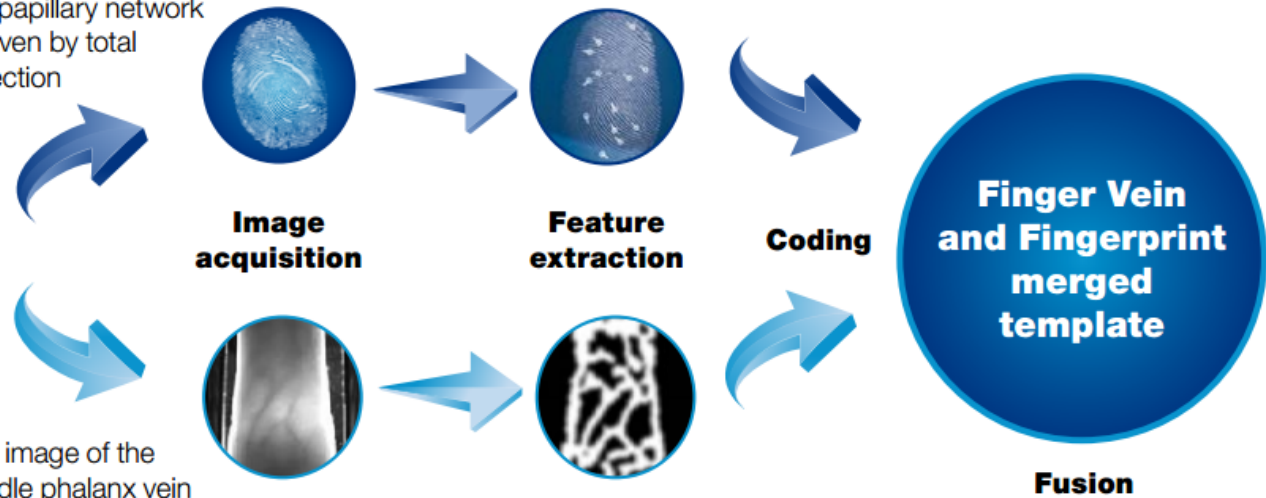


AC2000 Integrated Finger Vein Enrolment



When the finger touches the sensor, the papillary network is given by total reflection

The image of the middle phalanx vein network is captured directly after a close infrared illumination of the finger



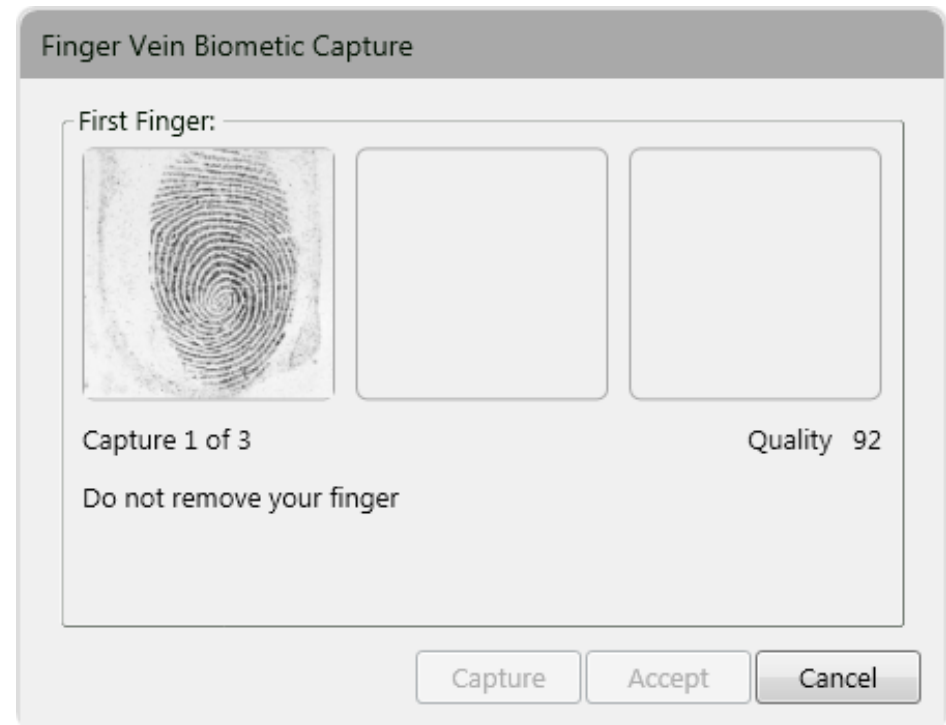
// AC2000 Integrated Finger Vein Enrolment

Enrolment

Each card holder enrolls 2
finger vein templates taking
3 captures of each
finger vein



MorphoSmart™ Finger VP desktop USB enrolment reader



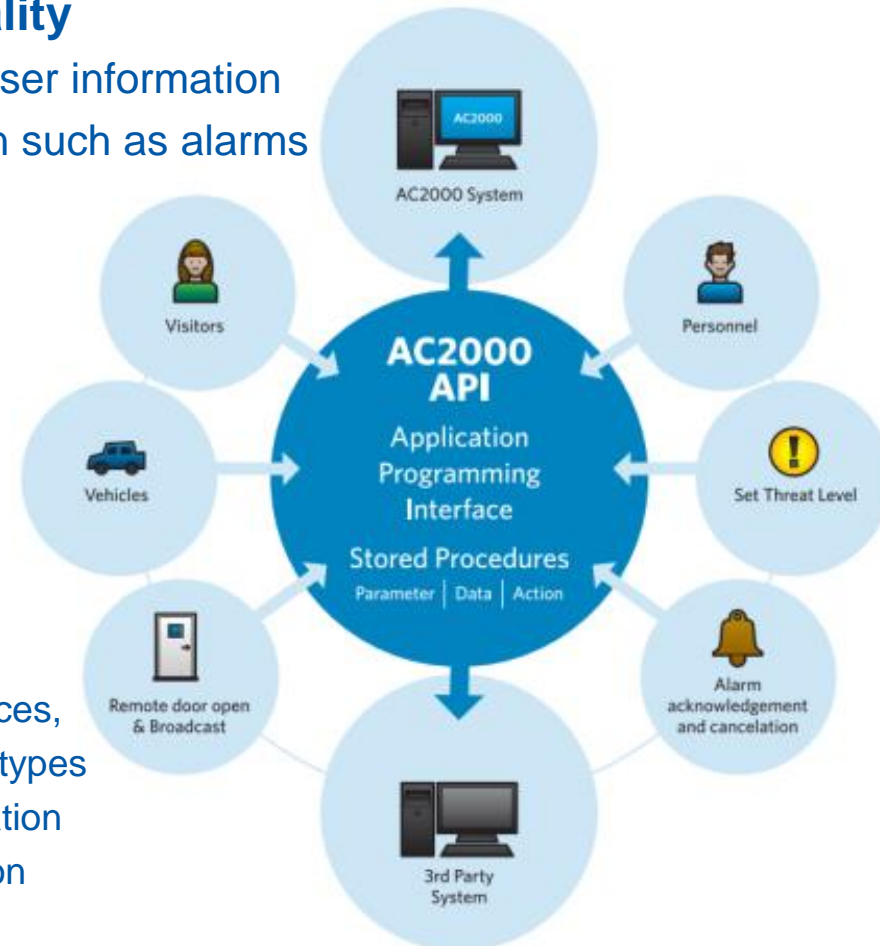
Application Programming Interface (API)

// Enhanced, bi-directional functionality

AC2000 API now allows not only to control user information but also to query and poll system information such as alarms and transaction

// Benefits:

- Provides full initial snapshot of all AC2000 devices, current active alarms, input alarms and alarms types
- Periodically poll AC2000 for card swipe information
- Query personnel records for use with transaction
- Alarms and cardholder images



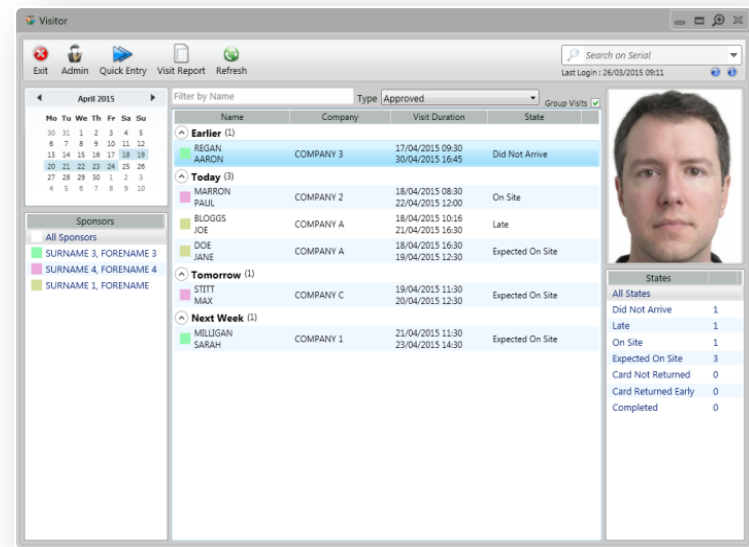
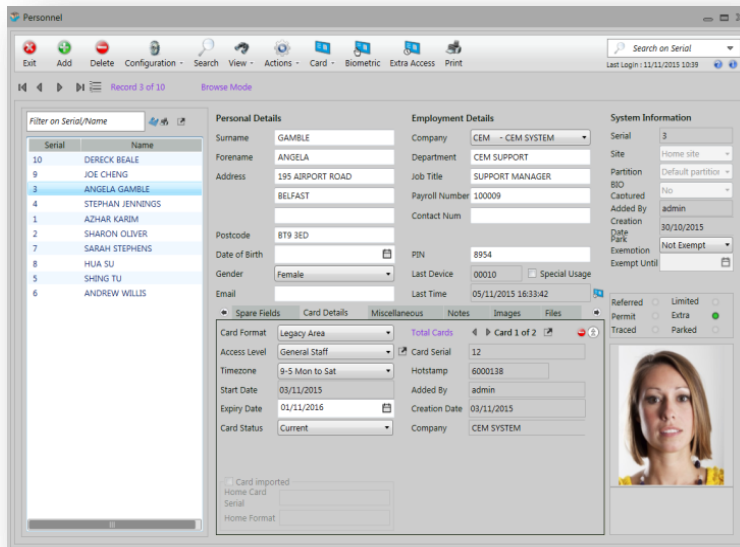
// AC2000 System Enhancements

// AC2000 Personnel

- More than 1 active card per card holder
- Query Results screen – separate dockable window
- Improved Search on Batch Update

// AC2000 Visitors

- Summary View of ‘Expected Visits’
- New ‘Quick Entry’ for unexpected Visitors
- Biometric capture for Visitors



// AC2000 System Enhancements

// AC2000 Extended Reports

- Ability to reorganize and add additional report fields
- Review output data in chart formats
- Save reports and email as PDF



Extended Reports

Exit Configuration Generate Scheduler Reports Help

Absentee

Summary Date Device Cardholder Report Setup Save/Load Criteria

Choose a Date Range

Start Date - End Date
02/11/2015 07:00:00 - 02/11/2015 08:59:59

November 2015

Mo	Tu	We	Th	Fr	Sa	Su
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

07:00 08:59

Duration Date Range

Personnel Report


9 Record(s) Displayed

Name	Payroll Number	Company ID	Company	Card Format	Access Level	Extra Access Number	Timezone	Hotstamp	Expiry Date
BEALE, DERECK	100020	CEM	CEM SYSTEM	Legacy Area	Teaching Staff		9-5 Mon to Sat	6000426	01/11/2016
GAMBLE, ANGELA	100009	CEM	CEM SYSTEM	Legacy Area	General Staff		9-5 Mon to Sat	6000138	01/11/2016
GAMBLE, ANGELA	100009	CEM	CEM SYSTEM	Legacy Area	Hospital Porters	6	9-5 Mon to Sat	6000138	01/11/2016
GAMBLE, ANGELA	100009	CEM	CEM SYSTEM	GeneralCardType	General Staff		9-5 Mon to Sat	110457	27/10/2016
GAMBLE, ANGELA	100009	CEM	CEM SYSTEM	GeneralCardType	Hospital Porters	6	9-5 Mon to Sat	110457	27/10/2016
KARIM, AZHAR	100019	CEM	CEM SYSTEM	GeneralCardType	General Staff		9-5 Mon to Sat	110453	27/10/2016
OLIVER, SHARON	100024	CEM	CEM SYSTEM	GeneralCardType	General Staff		never	110456	27/10/2016

Filter

Chart Column Access Level Type Pie Chart Clear Chart Filter

Personnel Report - Access Level



General Staff
 Hospital Porters
 Teaching Staff
 No access

Print Chart Export Chart Email Report Print Report Export Report Close

// AC2000 System Enhancements

// AC2000 Data Import Tool



Validation Errors

ID	First Name	Surname	Role	Department	Date Of Birth	
Invalid Data : 12						
<input checked="" type="checkbox"/>	1	Forename that is also too long for the database	Very long surname that wont go into the database	Developer	Software	01/10/2010
		First Name value is too long for database				
		Surname value is too long for database				
<input checked="" type="checkbox"/>	2	David	Steenson	Developer	Software	invalid Date
		SpareField1: Value must be between 0 and 20				
<input checked="" type="checkbox"/>	4	Anglea	Very long surname that wont go into the database	Developer	Software	04/10/2010
		Surname value is too long for database				
<input checked="" type="checkbox"/>	5	Keith	Ebitt	Developer	Software	05/10/2010
		SpareField1: Value must be between 0 and 20				
<input checked="" type="checkbox"/>	6	Jeremy	Faith	Analyst	Software	06/10/2010
		SpareField1: Value must be between 0 and 20				
<input checked="" type="checkbox"/>	7	Trevor	Cunningham	Developer	Software	07/10/2010
		SpareField1: Value must be between 0 and 20				
<input checked="" type="checkbox"/>	8	Francis	Donnelly	Developer	Software	08/10/2010
		SpareField1: Value must be between 0 and 20				
<input checked="" type="checkbox"/>	10	James	Very long surname that wont go into the database	Integration Engineer	Integration	10/10/2010
		Surname value is too long for database				
<input checked="" type="checkbox"/>	15	Mark	Very long surname that wont go into the database	Integration Engineer	Integration	15/10/2010
		Surname value is too long for database				
<input checked="" type="checkbox"/>	16	Martin		Development Engineer	Hardware	16/10/2010
		Surname Field is mandatory				
<input checked="" type="checkbox"/>	20	Matthew	Very long surname that wont go into the database	Development Engineer	Hardware	20/10/2010
		Surname value is too long for database				
<input checked="" type="checkbox"/>	24	Patrick		Support Engineer	Support	24/10/2010
		Surname Field is mandatory				

// Benefits:

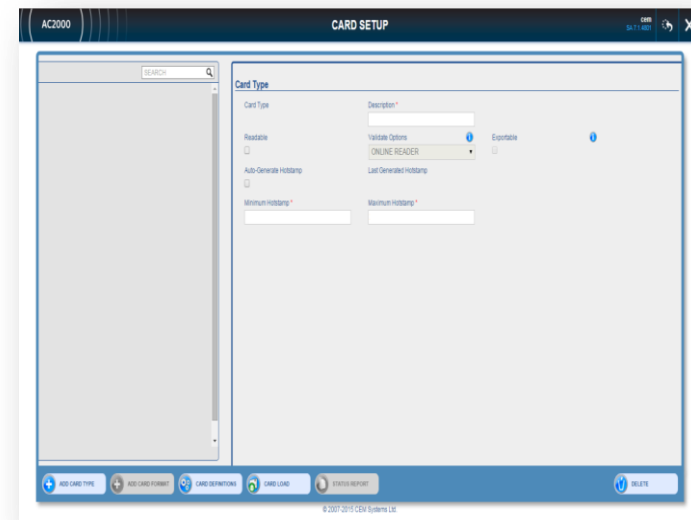
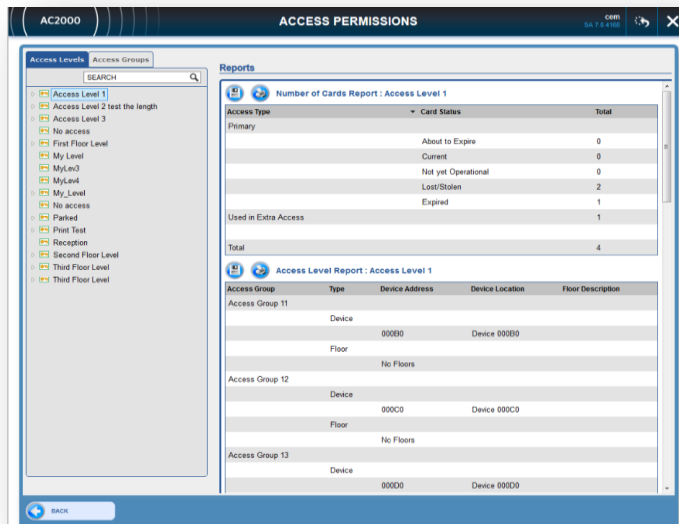
- Now supports importing Visitor and Company information
- Allows to 'auto-validate' Personnel records during importing process
- Built-in validation process for input data – highlights data in incorrect format or range

// AC2000 System Enhancements



// AC2000 Web Interface

- NEW: Web Access Permissions**
 New AC2000 web application to allow the user to manage and create Access Levels and Groups
- NEW: Web Card Setup**
 New Web application that provides a system user with the ability to add, edit and delete settings for card types, card formats and card definitions



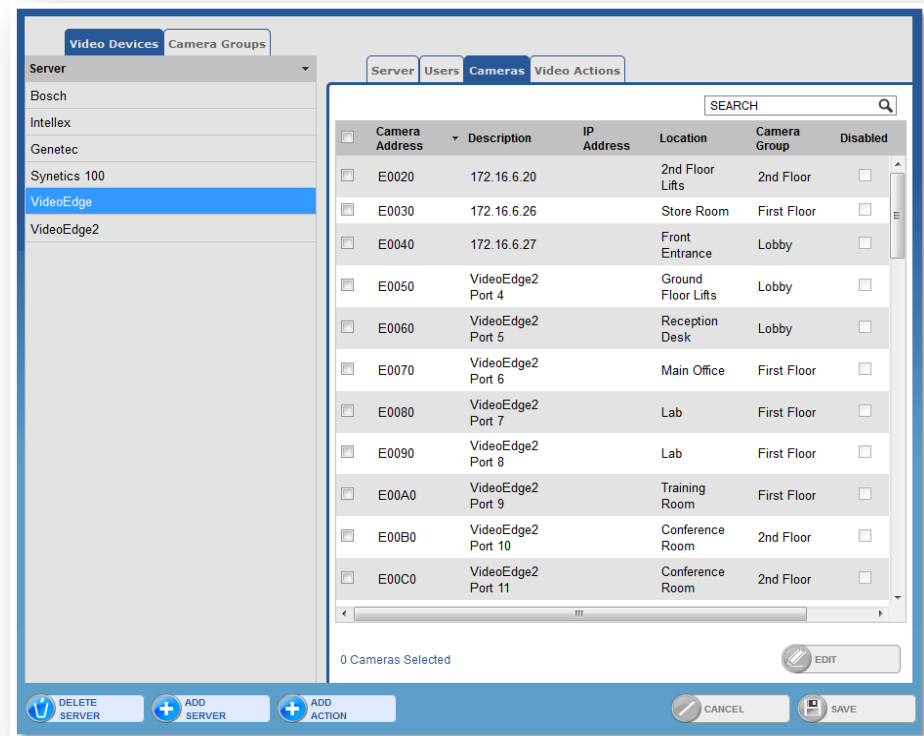
// AC2000 System Enhancements



// AC2000 Web Interface

- **NEW:** Web Video Configuration

A new Web page is now available for Video Configuration. It allows system administrators to import and manage Video servers and cameras, as well as create Video Actions associated with AC2000 alarms.



Camera Address	Description	IP Address	Location	Camera Group	Disabled
<input type="checkbox"/>	E0020	172.16.6.20	2nd Floor Lifts	2nd Floor	<input type="checkbox"/>
<input type="checkbox"/>	E0030	172.16.6.26	Store Room	First Floor	<input type="checkbox"/>
<input type="checkbox"/>	E0040	172.16.6.27	Front Entrance	Lobby	<input type="checkbox"/>
<input type="checkbox"/>	E0050	VideoEdge2 Port 4	Ground Floor Lifts	Lobby	<input type="checkbox"/>
<input type="checkbox"/>	E0060	VideoEdge2 Port 5	Reception Desk	Lobby	<input type="checkbox"/>
<input type="checkbox"/>	E0070	VideoEdge2 Port 6	Main Office	First Floor	<input type="checkbox"/>
<input type="checkbox"/>	E0080	VideoEdge2 Port 7	Lab	First Floor	<input type="checkbox"/>
<input type="checkbox"/>	E0090	VideoEdge2 Port 8	Lab	First Floor	<input type="checkbox"/>
<input type="checkbox"/>	E00A0	VideoEdge2 Port 9	Training Room	First Floor	<input type="checkbox"/>
<input type="checkbox"/>	E00B0	VideoEdge2 Port 10	Conference Room	2nd Floor	<input type="checkbox"/>
<input type="checkbox"/>	E00C0	VideoEdge2 Port 11	Conference Room	2nd Floor	<input type="checkbox"/>

0 Cameras Selected

DELETE SERVER ADD SERVER ADD ACTION CANCEL SAVE

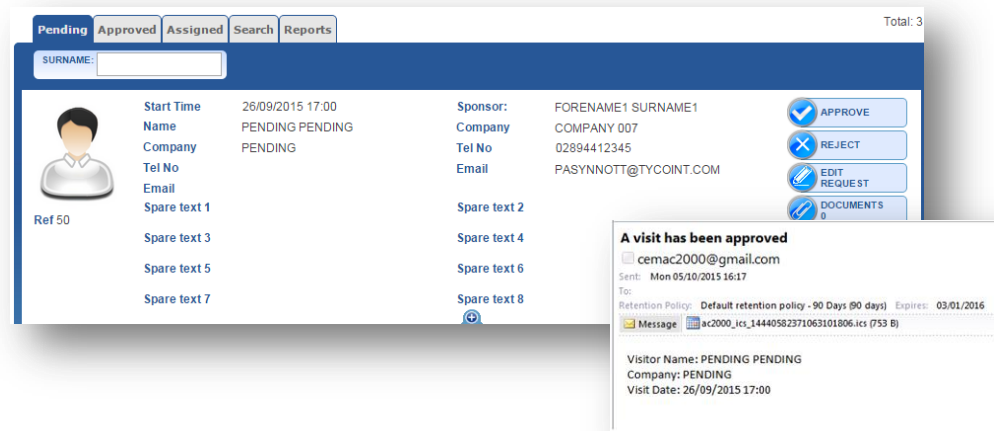
// AC2000 System Enhancements



// AC2000 Web Interface

- Web Visitors

The Visitor Management applications has been updated with the ability to attach .ics calendar files to emails that enable the Visit Sponsor to save details of the visit to their calendar



The screenshot displays the AC2000 web interface for visitor management. At the top, there are tabs for 'Pending', 'Approved', 'Assigned', 'Search', and 'Reports', with 'Total: 3' on the right. A search bar labeled 'SURNAME:' is present. Below this, a visitor record is shown for 'Ref 50'. The record includes a profile picture and the following details:

Start Time	26/09/2015 17:00	Sponsor:	FORENAME1 SURNAME1
Name	PENDING PENDING	Company	COMPANY 007
Company	PENDING	Tel No	02894412345
Tel No		Email	PASYNNOTT@TYCOINT.COM
Email		Spare text 2	
Spare text 1		Spare text 4	
Spare text 3		Spare text 6	
Spare text 5		Spare text 8	
Spare text 7			

On the right side of the record, there are four action buttons: 'APPROVE' (checked), 'REJECT' (crossed), 'EDIT REQUEST', and 'DOCUMENTS 0'. Below the record, a notification email is shown with the subject 'A visit has been approved'. The email is from 'cemac2000@gmail.com' and was sent on 'Mon 05/10/2015 16:17'. It includes a retention policy of 90 days and an expiration date of 03/01/2016. The email body contains the following visitor details:

```

Visitor Name: PENDING PENDING
Company: PENDING
Visit Date: 26/09/2015 17:00
    
```


// New Integration Interfaces

// Zettler Profile MZX Control Panels



// Benefits:

- AC2000 acts as the central Security Management System (SMS) and provides a fully integrated interface for monitoring and reporting building security events
- High level interface with the Tyco Zettler Profile MZX Fire Panel, enabling alarms or events to be fully integrated with the AC2000 system and Monitored using the AC2000 AED (Alarm Event Display)

// New Integration Interfaces

// Commend Virtuosis Intercom System



VirtuoSIS[®]
by Commend

// Benefits:

- Seamless bidirectional communication between, AC2000 and Commend intercom workstations, as well as their respective intercom devices.
- AC2000 intercom devices and applications can speak and receive calls from any connected commend station and similarly, any Commend station can speak and receive call from any AC2000 intercom device or workstation.

// New Integration Interfaces

// Otis Panorama Elevator Management System



// Benefits:

- This seamless interface supports many different lift configuration scenarios, including lifts with front or front and read call buttons, lifts with mixed free access floors or lifts required to park and shutdown in high threat situations
- Administrators can easily create and manage Lift structure, such as lifts per building, lift banks and floors. AC2000 Access Permissions will then allow to assign lift readers and floors to access levels

// Other Improvements

// AC2000 Lite system now supports full CEM Lift Control

CEM Lift Control is based on the S9032 Lift Controller which is designed to be an integral component of the AC2000 integrated security management system.



// Benefits:

- Ability to control the floor access of either one or two lift cabs, each of which can support access to up to 128 floors
- Using AC2000 v7.1 Lite Server option, Customers will now be able to take the full advantage of this cost-effective solution, by adding fully integrated Lift Control to the system.



Thank you!

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