tyco | CEM Systems

Data Sheet

AC2000 IDEMIA biometric options
Integrated AC2000 OEM solutions

Key Features

- Touchless biometric technology
- Touchless facial biometrics
- Touchless hand scanning
- Fingerprint biometrics
- Multifactor credential checking
- Seamless multifactor enrolment

AC2000 solutions can meet the demands of almost any integrated security system specification requirements, especially when options for CEM Systems approved OEM partner products are included.

IDEMIA biometric options including the contactless IDEMIA VisionPass (facial recognition) and MorphoWave™ Compact (fingerprints) are included within the range of tried and tested AC2000 integrated security system solutions for secure, convenient, and hygienic access control.

Seamless multifactor enrolment

AC2000 enrolment software offers seamless multifactor enrolment. This means the workstation operator can enrol a person's, facial, hand and fingerprint images all from within AC2000, thus avoiding unnecessary training and support for multiple different solutions and system providers.

AC2000 with OEM touchless biometric technology

AC2000 with IDEMIA WAVE™
Touchless biometric technology

Simply WAVE your hand through the gap of the reader and it will capture a unique 3D image from 4 fingers during single swipe. It will capture and match the fingerprints on any enrolled hand and in any direction regardless of environmental factors such as dust, ambient light or even wet fingers.
It is very impressive in terms of speed which allows the users to remain in motion while being identified so it is perfectly suitable for high throughput access points.

Morpho WAVE COMPACT supports a range of RFID technologies Prox, iClass, Mifare and Mifare/DESFire with additional PIN code for extremely high security.

Multifactor credential checking includes Biometric and card, as well as Biometric, card & PIN. Note PIN authentication will require the option of the touchscreen keypad to be touched.

The solution

The solution utilises both a Morpho WAVE unit and a CEM door control module. Using the MorphoManager, the Wave unit is setup to convert a biometric hand swipe into a card number, the card number is passed to the door control module just like a normal card reader.

The Wave unit is setup using IDEMIA MorphoManager software. MorphoManager setup software comes bundled together with the Wave unit and is available via internet download.

Enrolment

Integral AC2000 Online enrolment is used. The end user can use a second Wave unit mounted near the enrolment workstation, or if practicable on site, use the unit mounted at the entrance point also for the on-line validation enrolment process.

The power behind your mission

Johnson Controls
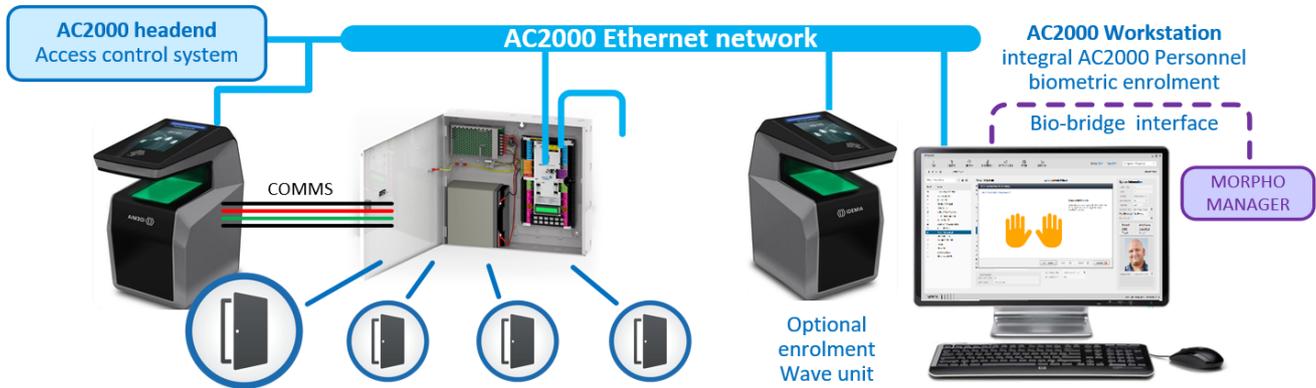
*Fig. 1: Showing example of AC2000 4 door controller
with optional Morpho WAVE Compact biometric reader and AC2000 enrolment workstation.*

For full device specifications refer to OEM manufacture datasheet.

https://www.idemia.com/access-control-and-time-attendance

AC2000 with OEM facial biometric technology

AC2000 with IDEMIA VisionPass

VisionPass, face recognition device for physical access and time & attendance control.

VisionPass offers a unique experience: being identified on-the-move in less than one second thanks to powerful algorithms. For more user comfort, VisionPass works in all light conditions from complete darkness to bright sunlight, with all face types and with various vertical and horizontal angles to cope with users of different heights (1.20- 2.00 meters / 3ft 11″ − 6ft 6″). VisionPass is designed for access control and security, and will counter spoofing attempts by image, video or 3D masks.

VisionPass uses the MorphoManager device management platform and is fully integrated with AC2000 access control system and personnel enrolment software.

The solution

The solution utilises both an IDEMA VisionPass facial recognition unit, a CEM door control module and the AC2000 workstation Personnel application. Using the Idemia MorphoManager, the VisionPass unit is configured to convert an enrolled facial image into a card number. The VisionPass unit passes the card number to the door control module just like a normal card reader.

The VisionPass unit is setup using IDEMIA MorphoManager software. MorphoManager comes bundled together with the IDEMIA VisionPass unit and is available via internet download.

Enrolment

Integral AC2000 Online enrolment is used. The end user can use a second VisionPass unit mounted near the enrolment workstation, or if practicable on site, use the unit mounted at the entrance point also for the on-line validation enrolment process.

The power behind **your mission**
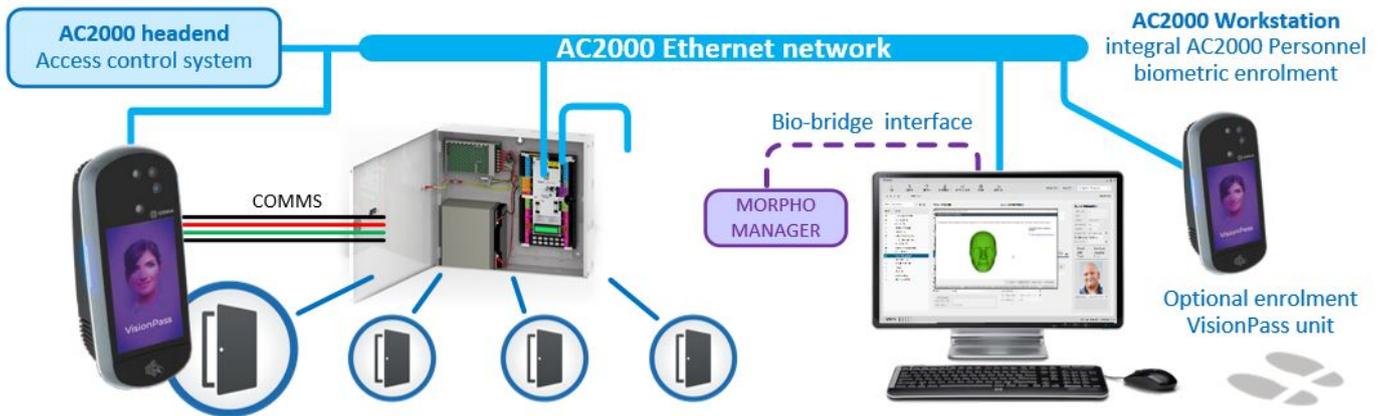
*Fig. 2: Showing example of AC2000 4 door controller
with optional IDEMIA VisionPass facial biometric reader and AC2000 enrolment workstation.*

For full device specifications refer to OEM manufacture datasheet.

https://www.idemia.com/access-control-and-time-attendance

AC2000 with OEM fingerprint biometric technology

AC2000 with IDEMIA Sigma series

Fingerprint recognition device for physical access and time & attendance control.

The Sigma series is designed for access control and security, and will counter spoofing attempts by false fingerprints and features live fingerprint detection technology.

Sigma devices utilise the MorphoManager device management platform which is fully integrated with AC2000 access control system and personnel enrolment software.

The solution

The solution utilises both the IDEMA Sigma series fingerprint scanners and a CEM door control module. Using MorphoManger, the Sigma units are configured to convert an encoded fingerprint sample into a card number, the card number is passed to the door control modules just like a normal card reader.

The Sigma units are setup using the MorphoManger software. MorphoManager software comes bundled together with the Sigma Lite unit and is available via internet download.

Enrolment

After initial setup using the MorphoManager Pro pack, the integral AC2000 enrolment application is used by the AC2000 workstation operator. The MorphoManager Pro pack includes one USB MSO300 fingerprint capture unit which is connected directly to the AC2000 enrolment workstation. For every enrolment workstation an additional MorphoManger Pro pack is needed.

The power behind **your mission**
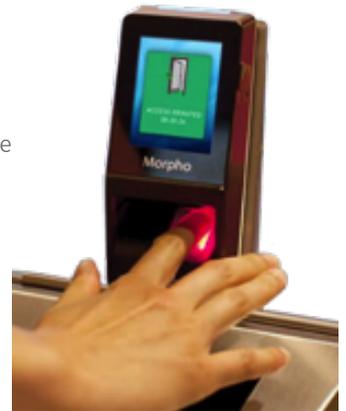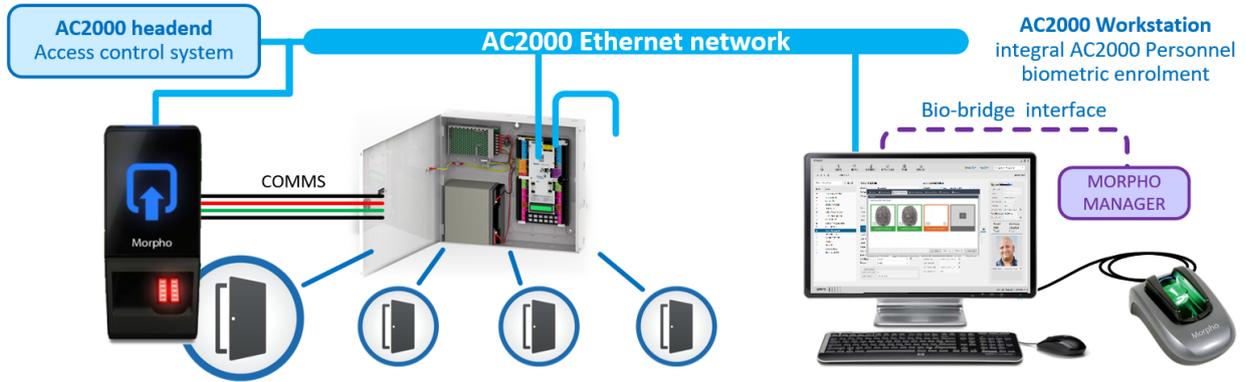
*Fig. 3: Showing example of AC2000 4 door controller
with optional IDEMIA Sigma biometric reader, MSO300 USB device, and AC2000 enrolment workstation*

For full device specifications refer to OEM manufacture datasheet.

https://www.idemia.com/access-control-and-time-attendance

IDEMIA, WAVE, and VisionPass are all trademarks.

AC2000 licencing

An additional AC2000 software licence is needed to connect a WAVE, SIGMA or Vision Pass device to the AC2000 system. The host AC2000 system also requires enough spare licenced capacity to host the required CEM AC2000 door control modules.

Idemia biometric options are available for AC2000, AC2000 Lite, and AC2000 Airport Edition.

The power behind **your mission**

Product Code	Description
SWINT-MORPHO	Idemia MorphoManager Biometric Enrolment Interface
Vision Pass	
MOR-293744571	IDEMIA VisionPass 2D, 2D-IR, 3D facial recognition reader for frictionless Access & Time, IP65 embedded MIFARE/DESFire card reader. 1:20K User Biometric Identification
MOR-293744604	IDEMIA VisionPass 2D, 2D-IR, 3D facial recognition reader for frictionless Access & Time, IP65 embedded Prox/iClasss/MIFARE/DESFire card reader. 1:20K User Biometric Identification.
MOR-293762264	IDEMIA VisionPass License upgrade from 20K to 40K Users
Morpho Wave Compact	
HDS/722/007	MorphoWave Compact Touchless 3D fingerprint reader (Mifare/DESfire)
HDS/722/008	MorphoWave Compact Touchless 3D fingerprint reader (Prox/iClass/Mifare/DESfire)
Sigma Lite series	
HDS/678/108	MorphoAccess SIGMA Lite+ iClass Card Reader for 500 users
HDS/678/101	MorphoAccess SIGMA Lite+ Prox Card Reader for 500 users
HDS/678/107	MorphoAccess SIGMA Lite+ Mifare/DESFire Card Reader for 500 users
SWMORPHO-03K	MorphoAccess Sigma Lite+ 3K user database upgrade license
293,638,856	MorphoAccess WR SIGMA iClass Card Reader for 3,000 users.
293,638,877	MorphoAccess WR SIGMA Mifare/DESFire Card Reader for 3,000 users
293,701,729	MorphoAccess SIGMA Extreme iClass Card Reader for 5,000 users
293,701,740	MorphoAccess SIGMA Extreme Prox Card Reader for 5,000 users
293,701,737	MorphoAccess SIGMA Extreme Mifare/DESFire Card Reader for 5,000 users
MOR-293744571	IDEMIA VisionPass 2D, 2D-IR, 3D facial recognition reader for frictionless Access & Time, IP65 embedded MIFARE/DESFire card reader. 1:20K User Biometric Identification
MOR-293744604	IDEMIA VisionPass 2D, 2D-IR, 3D facial recognition reader for frictionless Access & Time, IP65 embedded Prox/iClasss/MIFARE/DESFire card reader. 1:20K User Biometric Identification.
MOR-293762264	IDEMIA VisionPass License upgrade from 20K to 40K Users

For further information contact your sales channel partner or CEM Systems.

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit **www.cemsys.com** or follow CEM Systems on LinkedIn and Twitter.

Johnson Controls

The power behind your mission