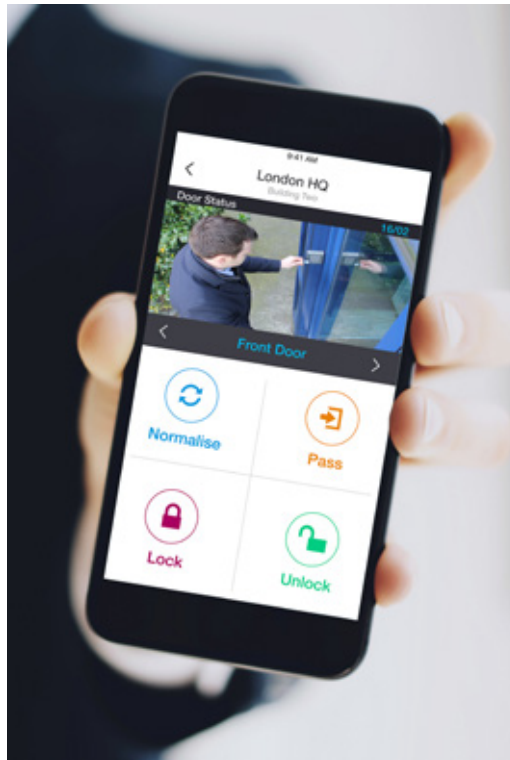


VANDERBILT



Vanderbilt's ACT access control solutions

Leaders in cloud and on-premise access control systems

ACT access control solutions are role-based, scalable and available as either on-premise and cloud-based systems, supporting all vertical requirements. Incorporating advanced feature sets such as video and intrusion integration we aim to help protect people, property and assets.



St. Andrew's House, Singapore

St. Andrew's House is a Boarding Home for International students in St. Andrew's School. The school is a government-aided Anglican boys' secondary school in Potong Pasir, Singapore. It was founded in 1862.

The house had a standalone access control system that had stopped working to their satisfactory standard. As such, the decision was made by the school to upgrade the school's security to an entirely new system. No specification for the project was provided.

Wincheer managed the security system upgrade for St. Andrew's. Wincheer selected Vanderbilt's ACTpro access control and Bluetooth readers. In the Asian market, pricing always plays an essential factor in deciding what product to choose. And as Vanderbilt's ACTpro is exceptionally competitively priced, it was the ideal product to meet this project's requirements.

The primary function of ACTpro at the boarding home is monitoring the safety of their students in accommodation. ACTpro keeps audit trails in the boarding home by monitoring and recording fob activity for time and attendance. ACTpro produces diagnostic reports on door status.

Campus security can provide pin codes, access fobs, and cards to students. These credentials can be easily enabled or disabled remotely if required. Moreover, ACTpro can be managed on desktops, laptop tablets, and smartphone devices.

The ACTpro smartphone app offers ultimate flexibility for St. Andrew's House. It ensures convenient connectivity to the system day or night. Thanks to the app, the security managers no longer need to visit their premises out of hours, with quick access to the system's pulse from the palm of their hand. They can also enable and disable alarms, lock and unlock doors, authorize users, and check who's in and out.

In the event of a fire or other emergency, ACTpro can automatically unlock all doors allowing students to reach safety. The ACTpro muster report gives the security campus a real-time list of all campus accommodation students. When students exit their accommodation and swipe out, the muster report automatically updates. A muster report can also be generated directly from the ACTpro smartphone app.

"I have been working with Vanderbilt for many years. I know the company well and trust their ACTpro access control solution. I always send my project requirements to Vanderbilt first for a consultation. I have a comfortable working relationship with them", states Mr. Berg Kok of Wincheer.



Toyota Motor Manufacturing (UK) Ltd

BDI Security Solutions Ltd has installed Vanderbilt's ACTpro access control solution at sites in Deeside, North Wales, for car manufacturer Toyota Motor Manufacturing (UK) Ltd. Toyota operates a 115-acre manufacturing plant representing an investment of £2.5bn and employing 3,000 people.

Replacing a legacy system that did not allow Toyota to manage their access control from a virtual environment, the client wanted a scalable tailored solution that could be integrated with their enterprise management system.

King's College Hospital

King's College Hospital NHS Foundation Trust is one of London's largest and busiest hospitals, providing a full range of local services for over 700,000 people in south-east London.

Unlike other systems, hospital access control systems are unique in that they must be capable of restricting access to sensitive areas, preventing the spread of disease, tracking and preventing the theft of vital healthcare equipment and drugs, and protecting both staff and patients. With over two hundred thousand access events per day, Vanderbilt's ACTpro access control manages upwards of 30,000 card holders and controls up to 1600 doors.

When upgrading from a magnetic swipe system it was imperative that the system could be upgraded with minimum disruption in a 24 hour 7 day a week environment. The flexible protocols that characterize the ACTpro solution accommodated the use of legacy cards and readers while upgrading to more secure 13.56MHz Smart Card technology. This kind of openness and transparency appealed to King's College.

Managing a facility of this scale has unique attributes and using the ACTpro Site Map interactive graphical module allows managers to better visualize and navigate this unique security environment. The client also benefitted from features including Area Lockdown and Wireless door handle access control.

THE MANY FUNCTIONS, FEATURES, AND INTEGRATIONS OF VANDERBILT'S ACT:

Bluetooth Low Energy Readers

Bluetooth Readers are a secure and flexible identification solution bringing the access credential to Android™ and iOS® smartphones. Our simple credential license model offers users long term cost savings without annual subscriptions or hidden costs.

The deployment of credentials to mobile phones is quick and easy using ACTpro software. The user simply downloads the free Vanderbilt App and requests a credential from the system administrator.



Reading distances are a key factor for Bluetooth access control. Our user-friendly Mobile APP offers a unique four identification option: "Shake to Go," "Show to Go," "Manual Button Mode," and "Hands-Free Mode," which allows users to select a mode best suited to their needs. Bluetooth readers also allow the use of conventional access cards and support 13.56MHz standards.



The **BLUE-EX door exit button** facilitates non-contact door release for applications where high standards of hygiene are required. It is designed in the same look and feel as the Bluetooth reader range to round off the family offering.



SPC integration

ACTpro software interfaces with Vanderbilt's SPC intrusion system and allows real time system status to be viewed via its graphical user interface.

Using a simple drag and drop method, icons can be located on a map allowing the security operator to view real time alerts and take appropriate action to cancel and acknowledged alarms. This enhanced cause and effect integration allows for customizable outcomes such as locking doors automatically in an alarm event.

Rules Mapping

ACTpro rules mapping engine enables advanced command and control actions to be managed through an easy to use drag-and-drop interface.

Today's security manager has to manage multiple security systems from different vendors and generate a real time situational system status. ACTpro Rules mapping simplifies the management of alarm events and automated responses and actions helping reducing time and expense.



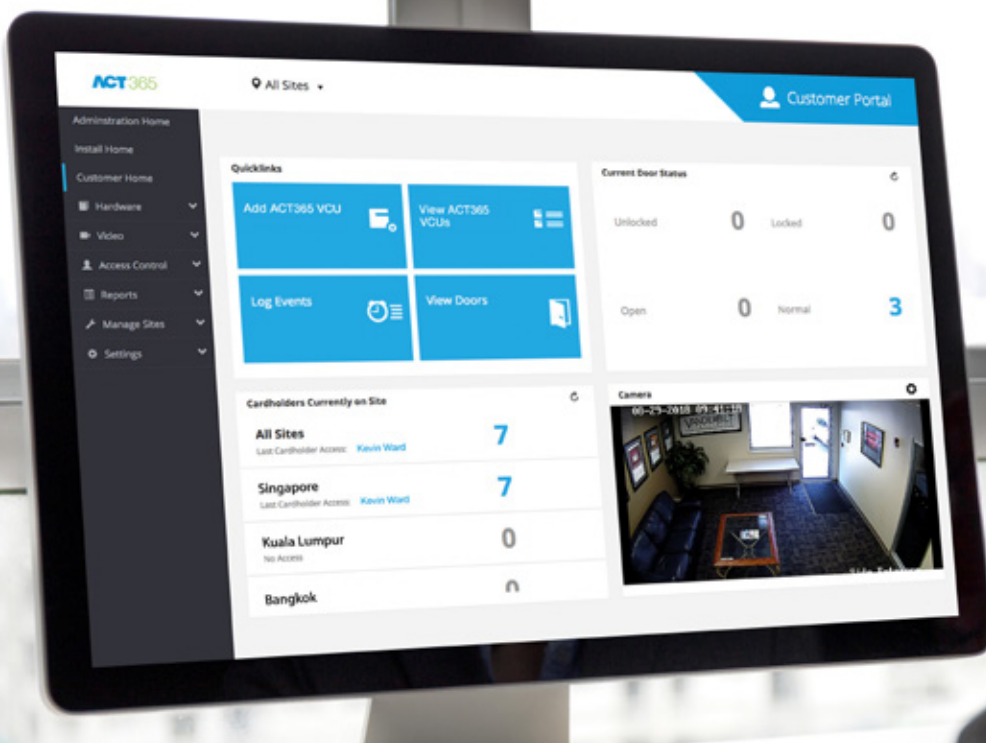
Rules Mapping facilitates logical relationships that can be seamlessly introduced on a system-wide basis enabling integration for security and related business functions. Actions can be tailored to include a basic door command (Lock or Unlock) or more advanced requests like Email Notifications, Alarm Set/Unset, Input or Output Activation, or Relay Activation. For example, when an employee presents their card at the front door, the system can turn their office lights on, along with the air con and get the coffee machine going before they reach their desk.



Aperio Wireless Locks integration

The integration between the **Assa Abloy Aperio® wireless lock technology and Vanderbilt ACTpro access control system** gives you the flexibility to expand your system to even more doors. Up to eight Aperio devices can communicate via a single wireless hub, and with each ACTpro controller supporting four wireless hubs, a maximum of 16 Aperio devices can be added to a single door controller. The Aperio devices will report all transactions in real-time, providing full control and visibility of the system, and the AES 128-bit encryption ensures fully secure communication. Assa Abloy Aperio locks can be installed on most existing doors within facilities and require no cabling, hence secured doors can be added with little operational inconvenience and come in a variety of forms, accommodating a wide range of security environments.





ACT365 is Vanderbilt's award-winning, cloud-based access control and video management solution. ACT365 holds many advantages for installer and end user alike.

Integration: By combining access control and video management into one unified interface, business owners can obtain more visibility and control of their premises. For example, when incidents occur at a door (as they often do), operators can simply click on the access control event to locate and review the recorded footage. Additionally, with alarm panel integration, ACT365 allows authorized cardholders to arm and disarm the system, either with a credential or from the web portal.

Mobility: Traditional security systems often require a dedicated PC located on site to manage the system. With ACT365, a business owner or security manager can access the system 365 days a year from any device, smartphone, tablet, laptop, or PC. This allows stakeholders to stay truly connected to their business by accessing video footage on their tablet, locking down doors remotely, or receiving essential push notifications to their smartphone.

Managed service: Since ACT365 is hosted in the cloud, businesses can eliminate the need for a robust IT department and expensive hardware. The managed service model also enables organizations to take advantage of ongoing support, maintenance, and remote troubleshooting.



Readers, cards and tags

ACT365 & ACTpro compatible

• VR SERIES

Mullion



OSDP & Wiegand OSDP & Wiegand

• ACT SERIES

1030e



Wiegand/
Clock &
Data

1040e

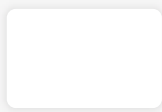


Wiegand/
Clock &
Data

1050e



Wiegand/
Clock &
Data



DESFire EV2:
13.56MHz



MIFARE Classic:
13.56MHz



RFID:
125KHz

ACTpro compatible

• VR SERIES



OSDP



OSDP

• BLUETOOTH SERIES



OSDP & Wiegand



OSDP & Wiegand

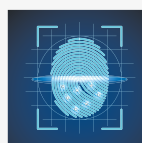


Bluetooth:
Credential

• BIOMETRIC



Wiegand



Biometric:
Fingerprint

• WIRELESS LOCK



RS485 (to hub)

Door controllers and input/output modules

ACT365

- ACT365 ACU / 15002A / 1500POE SINGLE DOOR IP CONTROLLER (WITH / WITHOUT PSU)
- ACT365 VCU / 15002A / 1500POE 4 CAMERA CLOUD CONTROLLER WITH 1TB HARD DISK (WITH / WITHOUT PSU)



ACTpro

- ACTPRO 1500 / 1520 / 1500POE SINGLE DOOR IP CONTROLLER WITH / WITHOUT PSU



• ACT IOM MODULE*



*Please note, VR SERIES readers not compatible

System setup and management

ACTpro software on-premise access control software & smartphone app



- Instant system status report
- Quick access to notifications, cardholders and doors
- Lock/Unlock All Doors
- Anti Passback
- System Alarm Acknowledgment
- Muster/Emergency Report
- Design & Print ID Cards
- Time & Attendance Report
- ACT API for 3rd Party Integrations

ACT365 web application & smartphone app



- Remote access anywhere and anytime
- Unlimited sites and unlimited doors
- Video management and access control in one unified interface
- Automatic backups
- GSM module compatibility
- Event reporting and alarms
- ACT365 API for 3rd party Integrations

Benefits

ACTpro

- **Easy to install:** IP or hardwired, PSU, POE++ - the choice is yours.
- **Auto discovering door controllers** allows online usage in minutes.
- **Rules mapping engine:** the most natural “cause and effect” management system in access control.
- **Tailored to your requirements.** ACTpro already integrates with many third party solutions, including KONE elevators, Milestone and Hanwha video, CALMS Time & Attendance, and many more.
- **OSDP:** Offers End-to-end encryption Card->Reader->Controller and protects against Wiegand sniffing. Specified: IEC 60839-11-1 requirements for grade 3 and 4
- **SQL:** Database is managed by Microsoft SQL Compact, Express, or Server.
- **GDPR:** ACTpro is GDPR compliant and offers all the tools to actively support in protecting personal data.

When to choose a cloud-based solution:

- **Easy Specification** - ACT365 is very easy to specify and quote (one ACT365 ACU per door and one ACT365 VCU for up to 4 cameras).
- **Product Differentiation** - ACT365 is a “Market Differentiator.” It is a unique solution in the marketplace. Offer something different!
- **Added Revenues** - You don’t only earn on hardware sales. ACT365 brings recurring revenues on cloud service fees as well!
- **Cost Saving** - No technical support is needed, no SQL, and no PC application. ACT365 has a very intuitive and simple interface that requires no specific training.

Order number	Type	Product description	Gross Weight (KG)	Dimensions (MM)
Single Door IP Controllers				
On-Premise Controllers				
V54502-C110-A100	ACTPRO_1520E	ACTpro-1520 Door Controller, 2A 12V DC	0.95	250 x 175 x 60 mm
V54502-C111-A100	ACTPRO-1500	ACTpro-1500 Door Controller	3.04	235 x 255 x 85 mm
V54502-C112-A100	ACTPRO-1500POE	ACTpro-1500PoE Door Controller, PoE PSU	3.05	355 x 305 x 95 mm
V54502-C120-A100	ACTPRO-100	ACTpro-100 Door Station	0.95	250 x 175 x 60 mm
V54502-C122-A100	ACTPRO-120	ACTpro-120 Door Station, 2A 12V DC PSU	3.06	235 x 255 x 85 mm
Cloud Controllers				
V54502-C130-A100	ACT365-ACU	Single Door IP Cloud Controller	1.16	250 x 175 x 60 mm
V54502-C161-A100	ACT365-ACU2A	Single Door IP Cloud Controller (Includes 2A PSU)	3.05	235 x 255 x 85 mm
V54502-C132-A100	ACT365-ACU PoE	ACT365-ACU PoE Door Controller, PoE PSU	3.05	355 x 305 x 95 mm
Cloud Video Controllers				
V54502-C140-A100	ACT365-VCU	Cloud-based Video Management Controller	0.95	250 x 175 x 60 mm
V54502-C141-A100	ACT365-VCU2A	Cloud-based Video Management Controller (Includes 2A PSU)	3.31	235 x 255 x 85 mm
Input / Output Module				
V54506-B100-A100	ACT-IOM	ACT-IOM ACTpro 8 Input/8 Output module	0.646	250 x 175 x 60 mm
Reading Technology				
125 KHz Proximity Readers				
V54504-F141-A100	EM1030E	Slimline 125kHz Mullion Reader with 3m pigtail	0.25	120 x 37 x 15 mm
V54504-F142-A100	EM1040E	Standard Prox 125kHz Reader	0.22	120 x 37 x 15 mm
V54504-F143-A100	EM1050E	Standard Pin & Prox 125kHz Reader with keypad	0.31	94 x 130 x 25 mm
V54504-F144-A100	EM1060E	Standard Pin Only 125kHz Reader with keypad	0.31	94 x 130 x 25 mm
ACT_USB_READER	USB Reader	Multi Format 125kHz + 13.56MHz USB Desktop Enrolment Reader	0.92	
13.56 MHz MIFARE Proximity Readers				
V54504-F117-A100	MF1030E	Slimline 13.56MHz MIFARE Mullion Reader with 3m pigtail	0.27	120 x 37 x 15 mm
V54504-F118-A100	MF1030PM	ACTpro MIFARE Panel Mount Reader	0.16	63 x 58 x 23 mm
V54504-F119-A100	MF1040E	MF1040e ACTpro MIFARE Reader	0.27	94 x 130 x 25 mm
V54504-F120-A100	MF1050E	MF1050e ACTpro MIFARE Reader with keypad	0.32	94 x 130 x 25 mm
ACT_USB_READER	USB Reader	Multi Format 125kHz + 13.56MHz USB Desktop Enrolment Reader	0.92	
13.56 MHz MIFARE DESFire EV1 Proximity Readers				
V54504-F121-A100	EV1030E	EV1030e ACTpro EV1 Mullion Reader	0.15	120 x 37 x 15 mm
V54504-F123-A100	EV1040E	EV1040e ACTpro EV1 Reader	0.29	94 x 130 x 25 mm
V54504-F124-A100	EV1050E	EV1050e ACTpro EV1 Reader with keypad	0.33	94 x 130 x 25 mm
13.56 MHz OSDP/Wiegand DESfire EV1/EV2 Readers				
V54504-F111-A100	VR20M-MF	MIFARE DESFire EV1 Mullion OSDP Reader	0.296	50 x 130 x 22mm
V54504-F112-A100	VR50M-MF	MIFARE DESFire EV1 Mullion + Keypad OSDP Reader	0.294	50 x 130 x 22mm
V54504-F101-A100	VR10S-MF	MIFARE DESFire EV1 OSDP Reader	0.622	85 x 114 x 22mm
V54504-F102-A100	VR40S-MF	MIFARE DESFire EV1 OSDP + LCD Display Reader	0.628	85 x 114 x 22mm

Bluetooth Readers				
N54504-Z160-A100	BLUE-A	Bluetooth Low Energy Wiegand Proximity Reader	0.293	115.5 x 84.5 x 20.5 mm
N54504-Z161-A100	BLUE-B	Bluetooth Low Energy Wiegand Pin & Proximity Reader	0.292	115.5 x 84.5 x 20.5 mm
N54504-Z162-A100	BLUE-C	Bluetooth Low Energy MIFARE DESfire EV1 / 2 OSDP Proximity Reader	0.293	115.5 x 84.5 x 20.5 mm
N54504-Z163-A100	BLUE-D	Bluetooth Low Energy MIFARE DESfire EV1 /EV 2 OSDP Pin & Proximity Reader	0.292	115.5 x 84.5 x 20.5 mm
N54504-Z164-A100	BLUE-EX	Door Exit Button	0.208	92 x 92 x 8.5 mm
Biometric Readers				
N54504-Z150-A100	SLK20R	USB enrolment Fingerprint Reader	0.16	
N54504-Z151-A100	MA300	Stainless Steel MIFARE fingerprint MIFARE Reader	1.15	75 x 148 x 34.5 mm
N54504-Z152-A100	SF420	Access Control MIFARE Reader with Keypad & Digital Display	0.42	
Wireless Locks				
N54513-F114-A100	APERIO	APERIO AH30 RS485 Comms Hub		
N54521-F113-A100	APERIO EL	APERIO H100 Euro Left		
N54521-F114-A100	APERIO ER	APERIO H100 Euro Right		
N54521-F115-A100	APERIO V3	APERIO V3 E100		
N54521-F116-A100	APERIO KEYPAD	APERIO E100 V3 Euro with Keypad		
N54513-F103-A100	EXT ANTENNA	External Antenna for Aperio Hubs (option)		
N54513-F116-A100	APERIO USB RD	APERIO USB Radio Dongle		
Credentials				
125KHz				
ACTproX_HS-B	EM10C4	EM10C4 ACT 125kHz Clamsh., C&D (10pcs)	0.094	
ACTproX_FOB-B	EM10T3	EM10T3 ACT 125kHz Tag, C&D (10pcs)	0.064	
ACTproX_ISO-B	EM10C3	EM10C3 ACT 125kHz ISO, C&D (10pcs)	0.060	
ACTproX_DUO-B	EM10C5	EM10C5 ACT 125kHz ISO+Mag, C&D (10pcs)	0.064	
MIFARE				
V54515-F121-A100		MF10C1 ACTpro MIFARE Card (10pcs)	0.057	
ACTproMF_FOB-B	MF10T1	MF10T1 ACT MIFARE Tag (10pcs)	0.063	
MIFARE DESfire EV2				
V54515-Z140-A100	EV10C1	EV10C1 MF DESFire EV2 ISO Card (10pcs)	0.06	
Bluetooth				
P54508-P128-A100	BLUE-L	Bluetooth Mobile Credential (1pc)		
Software				
ACTpro Software				
ACTENT	ACTE ACTpro	ACTE ACTpro Enterprise Software	0	
P54508-P121-A100	ACTENT-WL	Aperio Wireless Locks License	0	
P54508-P123-A100	ACTE-BIO	Biometric Reader Licence	0	
ACT365 Cloud				
ACT365_DOORLIC	ACUSITE	ACUSITE ACT365 License per door	0	



About Vanderbilt

Vanderbilt is a global provider of security systems recognized for future-proof, high-performance, and easy-to-use products across access control and intrusion detection. Vanderbilt's portfolio contains award-winning products, as well as open platforms and integrations, that provide customers with multiple solutions to perfectly meet their needs. **ComNet specializes in the transmission of Ethernet data, video, and audio signals** across fiber optic, copper, Internet and wireless mediums. ComNet products come with a lifetime warranty, making ComNet the supplier of choice for all your transmission requirements. All products are designed, built, and tested in the USA to hardened industry requirements. **Both are ACRE brands.**



an **ACRE**
brand


vanderbiltindustries.com

 @VanderbiltInd

 Vanderbilt Industries

**Vanderbilt International (IRL) Limited
Singapore Branch**

111 North Bridge Road, #27-01 Peninsula Plaza
Singapore 179098

 +65 3158 0739