

## 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.

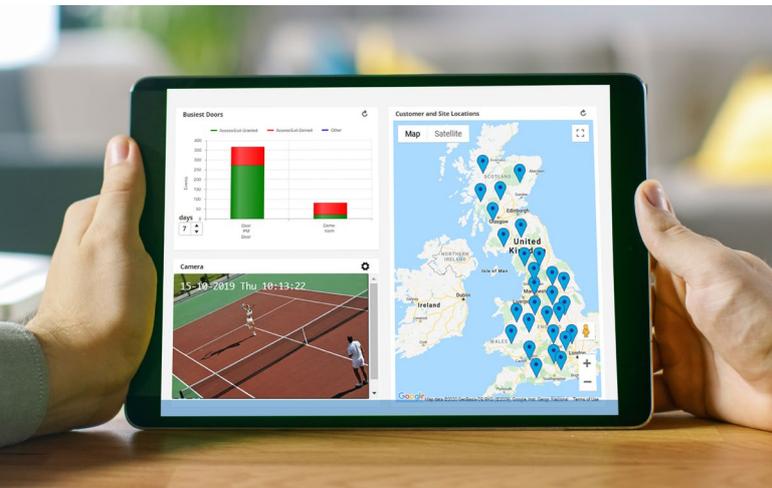


## Lawn Tennis Association

**The Lawn Tennis Association (LTA) is the National Governing Body for tennis in Great Britain. The LTA wanted to maximize the use of their facilities throughout the UK by getting as many people as possible on to their tennis courts every day.**

The LTA needed a solution that would enable players to easily arrange practice and coaching by giving them adequate information about court availability. Integrating Vanderbilt's ACT365 cloud solution with ClubSpark, a venue management tool from Sportslabs, tennis courts can be booked from a mobile phone or tablet using an app. Members receive a text message with a pin code that is communicated to the ACT365 access control system. When players arrive at a tennis court, they enter the pin code into an ACT365 reader that allows access the tennis court. This can be done remotely from any internet-ready-device.

In addition to member convenience, the security system integrator has access to real-time updates including controller status, system health, possible tampering incidents, gate forced, gate ajar, etc. Problems can be solved remotely, which avoids the need for expensive site visits.



## 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.

Utilizing ACTpro Import utility tool, the solution delivered frictionless secure access to company workspaces, automated Smart Card badge management with proper checks and balances and overall workforce access life-cycle management. By linking workforce productivity with electronic security management, the solution provides company-wide physical access governance for onboarding, transfers, job changes, training and learning management, offboarding and emergency termination scenarios.



## 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:

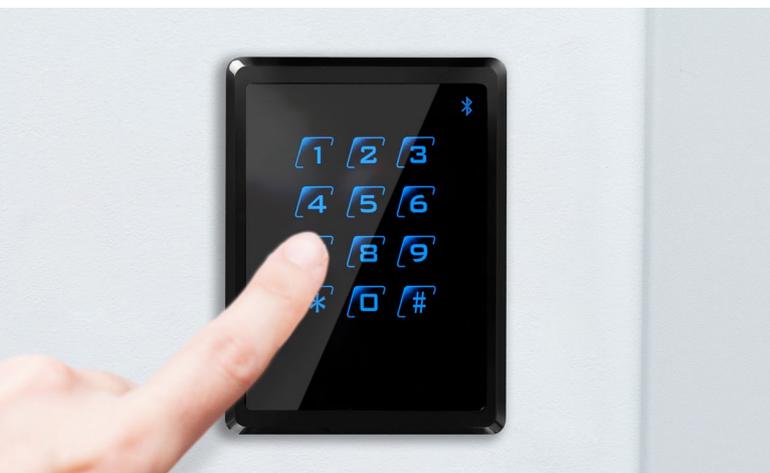
### Bluetooth Low Energy Readers

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

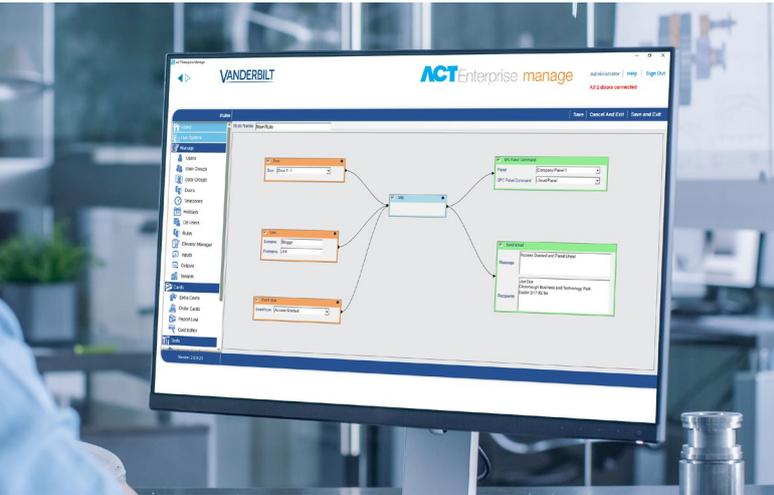
ACTpro software interfaces with Vanderbilt's SPC intrusion system and allows real time system status to be viewed via its graphical user interface.

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.



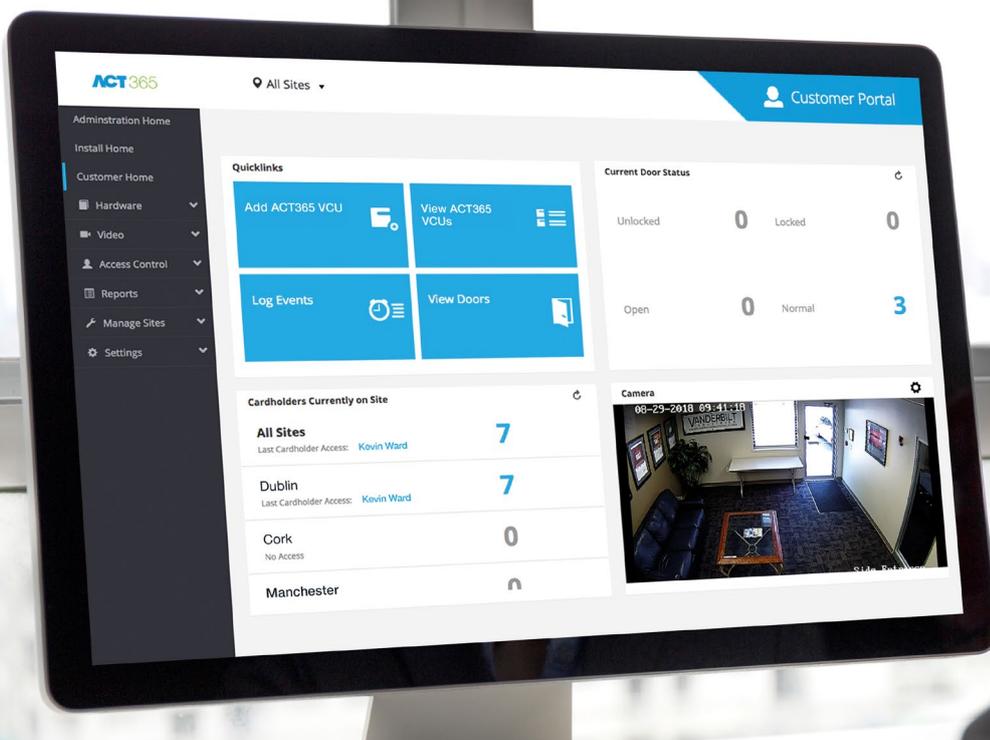
Rules Mapping facilitates logical relationships that can be seamlessly introduced on a system-wide basis enabling integration for security and related business functions. Actions can be tailored to include a basic door command (Lock or Unlock) or more advanced requests like Email Notifications, Alarm 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.



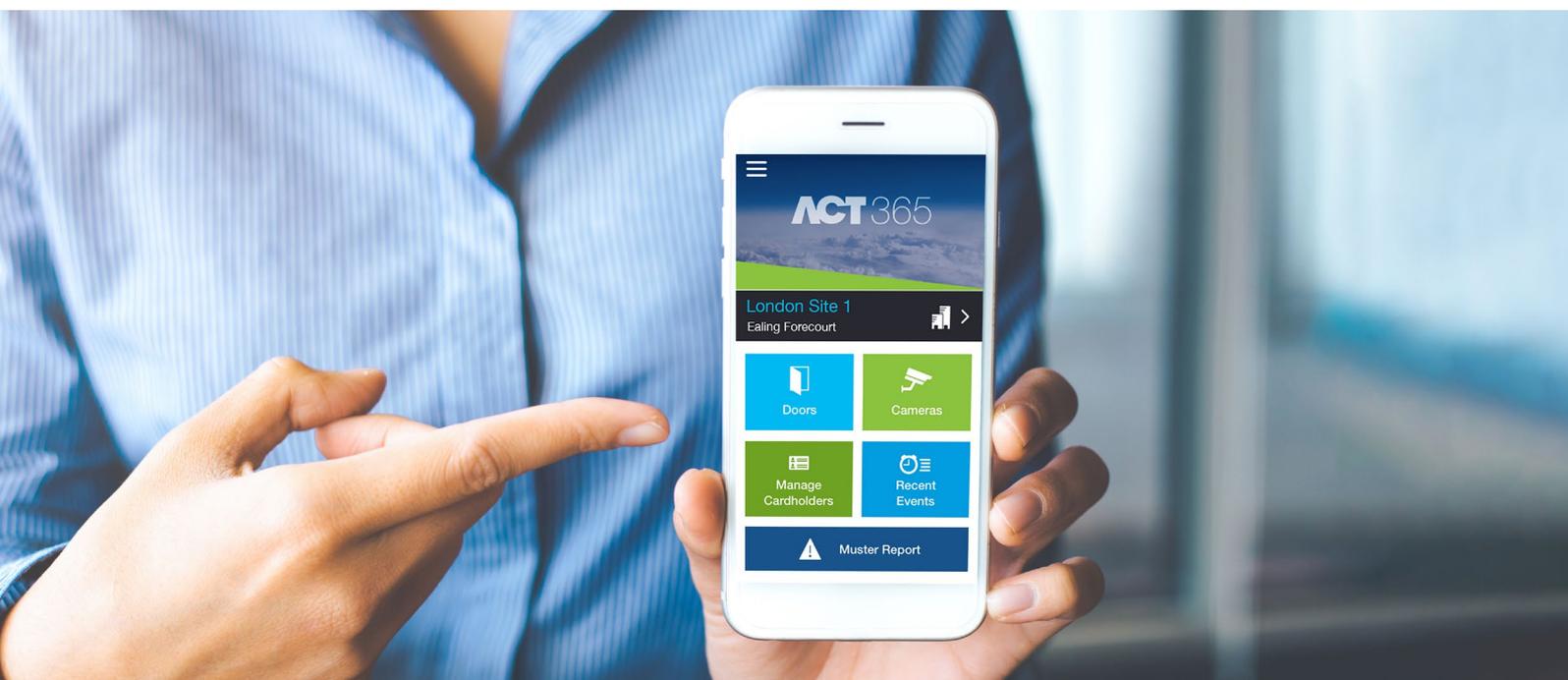


**ACT365 is Vanderbilt's award-winning, cloud-based access control and video management solution.** ACT365 holds many advantages for installer and end user alike.

**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

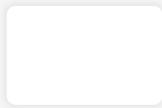


Wiegand/  
Clock &  
Data

##### 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 / 15002A / 1500POE SINGLE DOOR IP CONTROLLER WITH / WITHOUT PSU



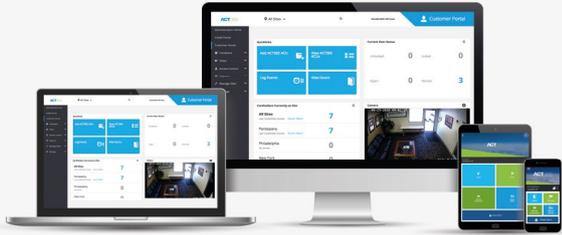
- ACT 100 DOOR STATION\*
- ACT IOM MODULE



\*Please note, VR SERIES readers not compatible

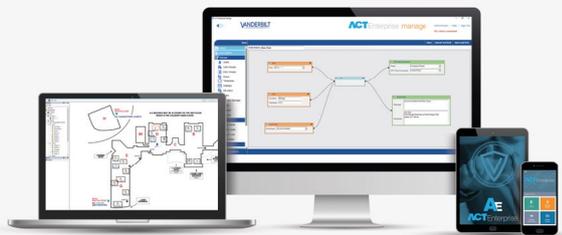
## System setup and management

### 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

### 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

## Benefits

### 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.

### 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 lifts, Milestone and HIK Vision CCTV, Time & Attendance systems 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

Order number	Type	Product description	Gross Weight (KG)	Dimensions (MM)
<b>Single Door IP Controllers</b>				
<b>On-Premise Controllers</b>				
V54502-C111-A100	ACTpro-1500	Single Door IP Controller	0.95	250 x 175 x 60 mm
V54502-C121-A100	ACTpro-1002A	ACTpro-100 Door Station (Includes 2A PSU)	3.04	235 x 255 x 85 mm
V54502-C112-A100	ACTpro-1500POE	Single Door IP Controller (Includes PoE++)	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-C143-A100	ACTpro-15002A	ACTpro-15002A Door Controller (Includes 2A PSU)	3.06	235 x 255 x 85 mm
<b>Cloud Controllers</b>				
V54502-C130-A100	ACT365-ACU	Single Door IP Cloud Controller	1.16	250 x 175 x 60 mm
V54502-C131-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
<b>Cloud Video Controllers</b>				
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
V54502-C142-A100	ACT365-ACU PoE	Cloud-based Video Management Controller - (Includes PoE++)	3.24	355 x 305 x 95 mm
<b>Input / Output Module</b>				
V54506-B100-A100	ACT-IOM	ACT-IOM ACTpro 8 Input/8 Output module	0.646	250 x 175 x 60 mm
<b>Reading Technology</b>				
<b>125 KHz Proximity Readers</b>				
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	
<b>13.56 MHz MIFARE Proximity Readers</b>				
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	
<b>13.56 MHz MIFARE DESFire EV1 Proximity Readers</b>				
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 EV1 Proximity Readers

V54504-F111-A100	VR20M-MF	MIFARE DESFire EV1 Mullion OSPD Reader	0.296	50 x 130 x 22mm
V54504-F112-A100	VR50M-MF	MIFARE DESFire EV1 Mullion + Keypad OSPD Reader	0.294	50 x 130 x 22mm
V54504-F101-A100	VR10S-MF	MIFARE DESFire EV1 OSPD Reader	0.622	85 x 114 x 22mm
V54504-F102-A100	VR40S-MF	MIFARE DESFire EV1 OSPD + 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	

### 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	
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### Bluetooth

### Software

#### ACTpro Software

ACTENT_LITE	ACTE-L	ACTE-L ACTpro Enterprise Lite Software	0	
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	
P54508-P124-A100	ACTE-BT	Bluetooth Credential Licence	0	

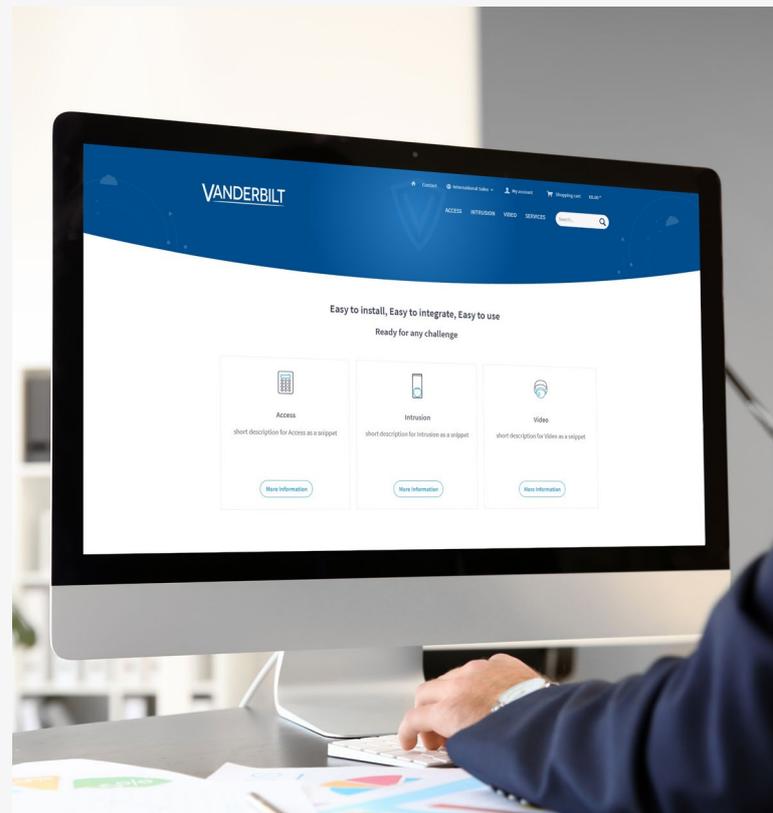
#### ACT365 Cloud

ACT365_DOOORLIC	ACUSITE	ACUSITE ACT365 License per door	0	
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## 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](http://vanderbiltindustries.com)

 @VanderbiltInd

 Vanderbilt Industries

**Vanderbilt International Ltd.**

Clonshaugh Business and Technology Park  
Clonshaugh, Dublin D17 KV 84, Ireland

 +353 1 437 2560