



Getting People Back To Work During COVID-19 Whitepaper

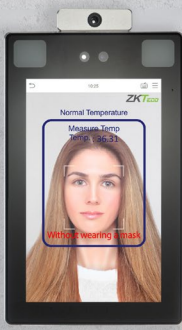
INTRODUCTION

The outbreak of the COVID-19 virus has presented a challenge to communities and businesses.

The use of **Electronic Access Control** has become more than a means to prevent criminal activity. It's now appearing as a key tool for businesses in the following ways:

- ✓ To manage and audit occupancy levels to ensure social distancing
- ✓ To enhance customer experience by giving customers appointments and a QR code, allowing hands-free entrance
- ✓ By proving other hands-free devices such as touch-free exit buttons, Bluetooth readers, QR code readers
- ✓ By providing temperature reading facial devices which can also check if people are wearing a mask
- ✓ By providing contact traceability reports where a person had become infected, and you want to trace who may come in contact, or was working in that vicinity
- ✓ Giving alarms on busy locations to assist deployment of cleaning staff in real-time.

As we start actively planning to open our places of work safely, Vanderbilt is providing our customers with smart and reliable strategies to help create a safer environment for staff and visitors.



At Vanderbilt, we have explored best practices for protecting employees and visitors when they come to a building.

By implementing the following security strategies, we believe businesses can help create a safe environment.

- ✓ Area counting
- ✓ Pre-booking systems for customers and visitors
- ✓ Minimize contact with access control devices
- ✓ Contact trace reporting
- ✓ Thermal image camera usage with mask detection and palm reading
- ✓ Visitor management systems
- ✓ Remote security management and maintenance
- ✓ Providing alarm when thresholds are met to alert cleaning staff to cleanse an area.

Area Counting/Pre-Booking Systems

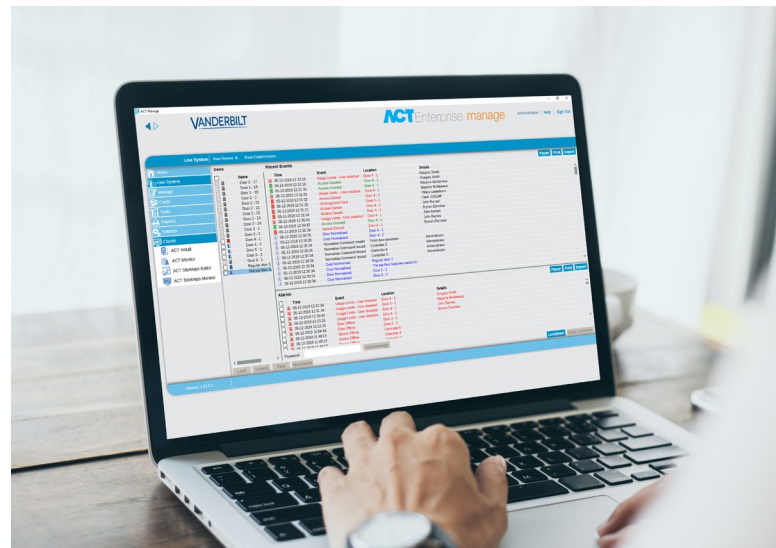
Vanderbilt's Access Control solutions can manage the number of people in an area at any one time.

Automated people counting systems offer a method of counting and limiting access to certain areas. Operators can enable a maximum occupancy level to prevent overcrowding within a building or in an area. These systems can provide live data and trigger alarms in the event of an occupancy breach.

This live data will enable organizations to take proactive decisions to prevent overcrowding and enforce social distancing effectively.

This will enable security operators to evaluate which areas of a building are vulnerable to overcrowding with live statistics, including heat and path maps, people count reports, zone breakdowns, and alerts of congestion and bottlenecks.

A red light or red and green lights can be triggered to show when people can enter.



Example:

Retail Outlet/Supermarket controlling how many people they can have in their store, with a red and green light being turned on as occupancy levels reach user-defined thresholds.



Pre-Booking Systems for Retailers

Increasingly, retailers are looking at methods of controlling people coming to their location or giving priority access to people who have booked in advance. Customers/visitors can apply for a time slot and be sent a QR code to their mobile phone, that will gain access during this period.

Example:

Retail store has a queue outside normally, but people can arrive and show their QR code, and they will gain priority access. The non-priority queue can gain access when the location is under its threshold.

Authorized visitors to a building can be emailed a QR code, that will grant them access to the building in a hands-free way when they arrive.



Minimize Contact with Touch Free Access Control Devices

Contactless Credentials: There are several options of credentials to provide user access. Some of these, such as fingerprint readers and pin code readers, still require surface contact. We have many credentials that can provide access using contactless technologies.

Bluetooth enabled smartphones offer an effective form of contactless/frictionless access control. It also provides a remote method of deploying new cards/credentials with no physical unit.



Touch-free request to exit (RTE) buttons have traditionally functioned from physical contact with a button. While this provides effective door release functionality, these buttons can be very high contact points. Touch-free push to exit buttons operate on infra-red technology allowing doors to be opened without touching.

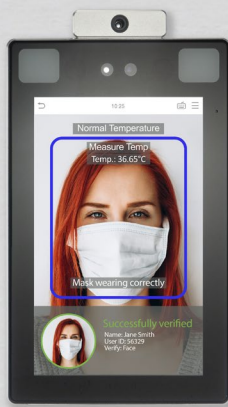
Touch-free biometric devices such as facial recognition readers and palm readers mean that no physical interaction is needed with the reading device.

QR code readers give a low cost (low secure) way of easily emailing credentials which people can display on their phone to gain access.

Example:

Using secure Bluetooth readers and credentials means that people don't need to get close to the reader at all to gain access. In fact, they can shake their phone from 10 meters away to gain access. And they have their credential securely sent to them without having to visit the ID administration center.





Temperature Sensing Biometric Card Readers with Face Mask Detection

We have readers now that will detect that the temperature of an individual is below a threshold before the system grants access. The reader will also check any combination of facial recognition, palm biometric scan, or even a traditional card (with a reader). The device can also check whether the person is wearing a mask before letting them enter.

Example:

A hospital checks when their staff member has their mask fitted, is facially biometrically checked, and is not above the normal temperature limit before it opens the barrier to let them enter.

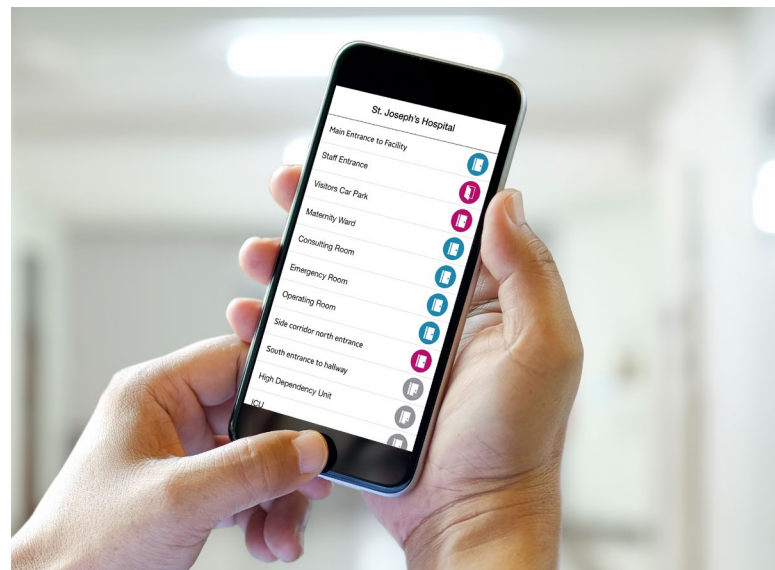
Note:

The device detects people with a raised temperature who then can be further scrutinized. Some people with the virus may have not yet developed a risen temperature.

Contact Trace Reporting

COVID-19 has changed reporting requirements for access control systems where contact traceability reporting is now an important requirement. Contact traceability reports enable organizations to monitor areas or zones where an individual has either a confirmed or suspected case of COVID-19. The report allows security operators and administrators to identify and notify those who may have come into contact with an infected individual by reporting their movement throughout the building.

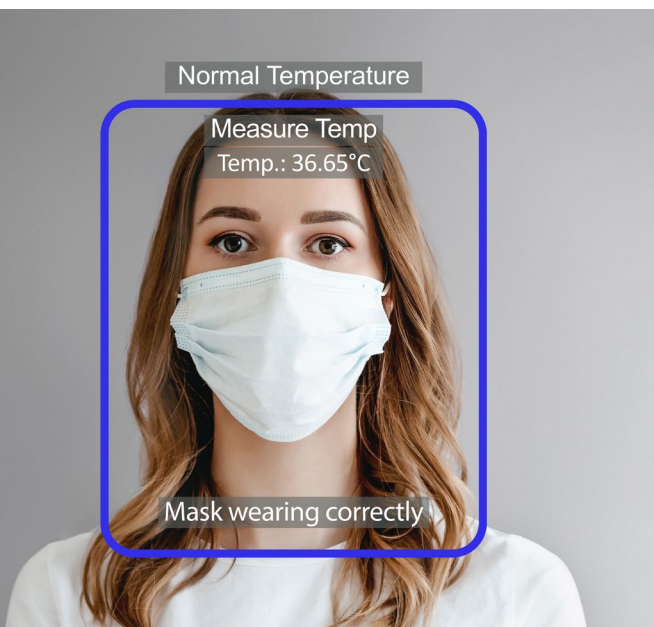
Security operators can review the movement of the subject of interest by determining what zones, doors, and areas they have come into contact with. This data is enabled using credentials being scanned by access control readers in the building. Users could then be sent a push notification, prompting them to get tested if they have encountered an infected person.



Visitor Management

COVID-19 has made it crucial for workplaces to limit unnecessary person-to-person contact and potential transmission incidents. Businesses will look at new ways to check-in, track, and collect information to protect visitors and employees.

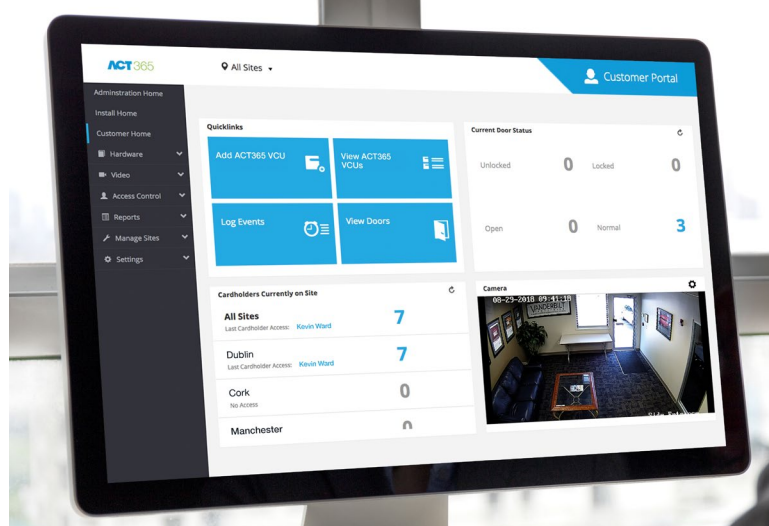
Visitor management systems allow visitors to be pre-planned by your organization and can include important health and safety information that visitors must comply with in your building.



Visitor check-in and tracking processes can be integrated with the **ACTpro access control system**. Real-time data provided by the visitor management solution, you will also know the number of visitors and time when visitors are entering your building. This data can help manage access levels while ensuring staff can be prepared to monitor social distancing.

The system can collect additional information added by visitors which is stored in the visitor event log.

Secure QR codes can be an effective way to provide a contactless visitor management experience. This will reduce the need for visitors to sign-in with a highly used touch screen or for a plastic card or lanyard.



Cloud-based security ACT365 is a low-cost solution ideally suited to projects with multiple locations and limited IT Infrastructure. ACT365 is the only off-premise solution that offers access control and video verification from one application.



Remote Security Management

The rise in staff working from home has increased even further since the COVID-19 lockdown was introduced, and it is therefore critical that security staff can maintain control and monitor their organization's security systems remotely.

On-premise security systems are designed around local monitoring and on-site system management.

Benefits

- ✓ Ensure that security systems are activated during off-hours
- ✓ Receive automatic alerts when alarms are triggered, or other conditions are met
- ✓ Remotely view live video and receive analytics notifications
- ✓ Lock/unlock access-controlled doors remotely
- ✓ Remotely issue access control credentials or change user access.

Providing Alarm when Thresholds are met to Alert Cleaning Staff

A building supervisor can set thresholds on different areas in the building to alert the cleaning staff when areas have reached the level when they need to be re-cleaned. This takes the guesswork out of where needs to be cleaned.

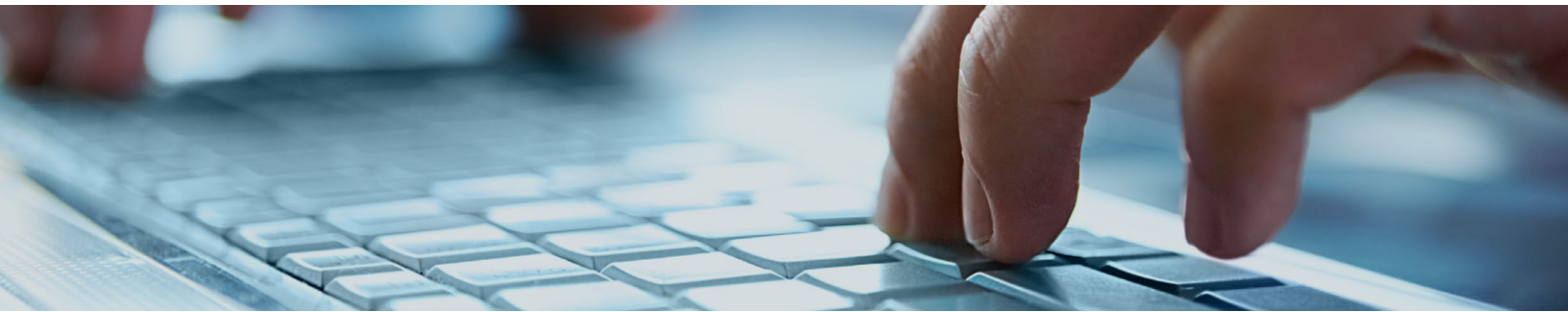
Example:

Areas that have not been used do not need to be deep cleaned. However, those areas that are heavily used may need to be cleaned many times per day.



About Vanderbilt

Vanderbilt is a global provider of security systems recognized for future-proof, high-performance, easy-to-use products. Vanderbilt strives for innovation in Software-as-a-Service solutions such as **ACT365** and **SPC Connect**, as well as product integration both within and outside of their portfolio offerings. Simply put, Vanderbilt is **#ReadyForAnyChallenge**. To learn more, please visit vanderbiltindustries.com, or follow us on [Twitter](#), [Facebook](#), and [LinkedIn](#).



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