



CURBING THE SPREAD IN HIGHER EDUCATION WITH UNIFIED VIDEO SECURITY AND ACCESS CONTROL TECHNOLOGY

GAIN IMPORTANT INSIGHTS ON CAMPUS AND ACT FASTER TO PROTECT WHAT MATTERS MOST.

CHALLENGE

Many higher education institutions are uncertain on whether they can reopen campuses for the upcoming Fall 2020 semester. If a university reopens, they must ensure they can operate safely and have the ability to curb the spread, should an infected individual be identified on campus.

SOLUTION

Motorola Solutions is committed to innovating mission-critical technologies to protect people and communities, including looking at the existing technology we have in the market that can help alleviate current health and safety challenges faced by higher education institutions.

Keeping students, faculty, staff and visitors safe at a large university campus is not easy, and with an active pandemic, the task is more challenging than ever before. The ability to find an infected individual's location and quickly identify where they have been, what surfaces they have touched and who they have been in contact with on campus is crucial to ensuring the safety of people at the university.

A UNIFIED SYSTEM: When a campus reopens, there is a risk of people being vulnerable to contagion. If a university does not remain vigilant, it may experience an outbreak that can lead to detrimental results.

Motorola Solutions' Avigilon™ [Access Control Manager \(ACM\)](#) is a physical access control system that is designed to help higher education institutions protect what matters most. The ACM™ system seamlessly integrates with [Avigilon Control Center \(ACC\)](#) video management software to provide a unified security solution that helps higher education institutions proactively monitor and secure campuses. Features from a unified ACM and ACC™ system can provide important insights to help support contact tracing efforts, such as determining potentially exposed individuals and contaminated areas so the higher education institution can act faster.



Motorola Solutions proudly manufactures and deploys the sophisticated, cutting-edge communications, software, video security and analytics technologies that keep communities and nations safe. We have been on the frontlines with federal, state and local governments, including in times of crisis, for over 90 years. Today, our 17,000 innovators, engineers and manufacturing specialists are eager to help address critical gaps in the availability of medical and health management technology needed to fight the COVID-19 pandemic. We are pleased to apply these innovations to our fixed video security and analytics solutions to deliver greater intelligence and stronger detection capabilities to help curb the spread of this virus.

MOTOROLA SOLUTIONS STANDS READY TO SERVE OUR COUNTRY IN THIS MOMENT THAT MATTERS.

IDENTITY CORRELATION REPORT: For example, if a professor at a university is identified to be infected, the university must intervene quickly to contain the spread. The university's security team can leverage a unified ACM and ACC system to help trace the professor's steps across the campus.

It is possible that the doors the professor used may be contaminated, particularly door handle surfaces. The Identity Correlation Report in ACM enables security operators to generate a report of any doors accessed by the professor during their time on campus. The report provides the date and time of when a door was accessed by the professor with their access card, the time difference between door access events and who else accessed the door. Subsequently, operators can identify other faculty members or staff that have used the same doors in the same timeframe as the professor. The report also tracks valid card reads and invalid card reads by including a list of staff that have attempted to access a door. Even though some staff did not access a door successfully, there is still a risk of exposure if the professor had contact with the door.

IDENTITY SEARCH AND APPEARANCE SEARCH: With the Identity Search feature in ACC, operators can easily search in the system and view when and where the professor attempted to access a door at the university with their access card. To augment the search, operators can launch [Avigilon Appearance Search](#)™ technology from the Identity Search results. Appearance Search is an AI-powered search engine that allows operators to quickly search for the professor from the Identity Search results and track his/her route throughout the campus for other potentially contaminated areas. Reviewing video footage that once took hours or days, can now take minutes – expediting the university's contact tracing efforts.

Alternatively, if it were a student that was identified to be infected, the student would not possess an access card like a professor would. Operators can easily search for the student by their physical description, such as hair colour, clothing colour, gender and age categorization, and quickly track their route throughout the campus. As some universities have multiple campuses, Appearance Search empowers operators to continue the search for the infected individual by seamlessly transitioning from one campus to

the next campus that uses the same version of ACC software. In addition, once a student is located in recorded video, operators can deploy Avigilon Facial Recognition technology in ACC to add the student's face to a watch list. Operators will receive a real-time notification of the student's location on campus when they next appear on a camera and can confirm if he/she is following self-isolation protocols.

FIXED VIDEO SECURITY: When combined with fixed video security cameras installed indoors and outdoors, operators can achieve optimal situational awareness across the entire campus and create a powerful case detailing the chain-of-events associated with the infected individual's whereabouts.

CAMPUS LOCKDOWN: The security team at the university is in a position to obtain robust information to help determine which other faculty members or staff have also accessed the same doors or areas during the same time frame as the professor, which can help determine the number of potentially exposed individuals.

The security team can also identify an infected individual's whereabouts with Appearance Search and see where they have been, what surfaces they may have touched and who they have been in contact with. If an area requires quarantine, ACM can be leveraged to immediately lock down a campus building with the touch of a button, or restrict access to authorized individuals in sensitive areas.

EXPEDITE CONTACT TRACING EFFORTS: Before the spread escalates, the university can proactively take necessary hygiene and safety measures, such as advising the exposed individuals to self-isolate and be tested, and increasing sanitation of potentially contaminated areas.

With a unified video security and access control solution, higher education institutions can gain important insights about their campus to better protect its students, faculty, staff and visitors during a time of uncertainty.

