



# Creating a safer campus

Managing crisis through awareness, coordination, and multi-modal mass notification

ALE

Where Everything Connects





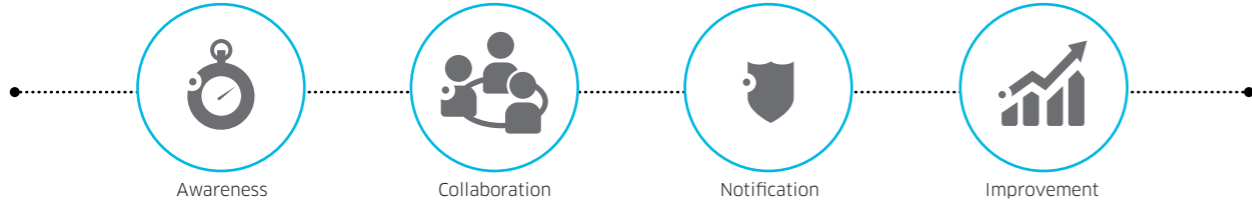
# Protecting the campus community

A safe campus requires more than simply reacting to an event with mass notification. Ensuring the safety of everyone on campus requires:

- Awareness of the incident
- Coordination with emergency response teams
- Dispatch of a unified message to personal and campus devices
- Assessment of actions taken after the incident for the purposes of improvement

The emergency management platform must be supported by a secure, application aware infrastructure.

In this document we will discuss the importance of the above when dealing with campus threats.





## Campus threats in the U.S.A.

In 2018, U.S. schools averaged one shooting every week. The number of deaths, injuries, and incidents may vary by reporting outlet, but the statistics are sobering, nevertheless. While many people call for tighter gun control, others prefer the option of arming staff and teachers.

The tragedies and debates make headlines with no concrete agreement on how to prevent the damage caused by these violent acts. At the same time, on-campus threats from fire, other criminal offenses, and violence against women are on the rise.

### 1 rampage/week

1 school shooting every week this year (2018), 16 weeks and 20 school shootings



### 2,044 fires

Occurred in year 2017, at on-campus student housing facilities



Campus

### 37,389 criminal offenses

reported in 2017



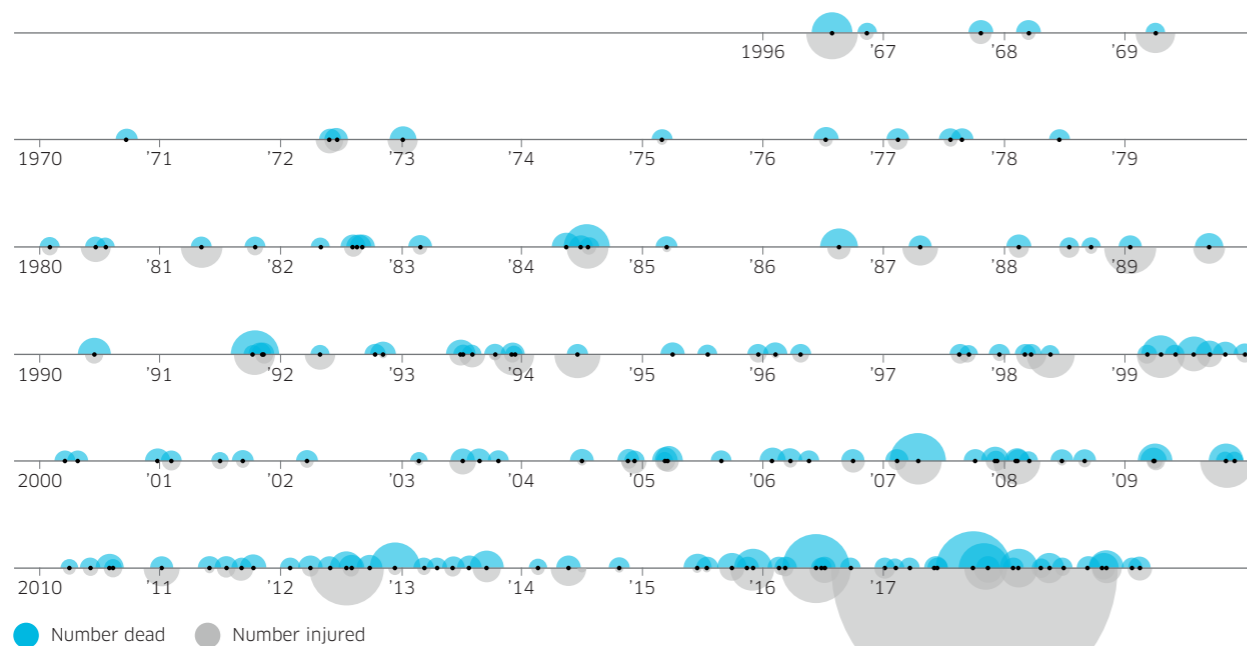
### 16,195 VAWA\*

\*Violence against Women offenses reported in 2017



# 158 shootings

“In the 50 years before the Texas tower shooting (1966), there were just 25 public mass shootings in which four or more people were killed, according to author and criminologist Grant Duwe. Since then, the number has risen dramatically.”<sup>1</sup>



<sup>1</sup> [https://www.washingtonpost.com/graphics/2018/national/mass-shootings-in-america/?noredirect=on&utm\\_term=.8104e69c5156](https://www.washingtonpost.com/graphics/2018/national/mass-shootings-in-america/?noredirect=on&utm_term=.8104e69c5156)

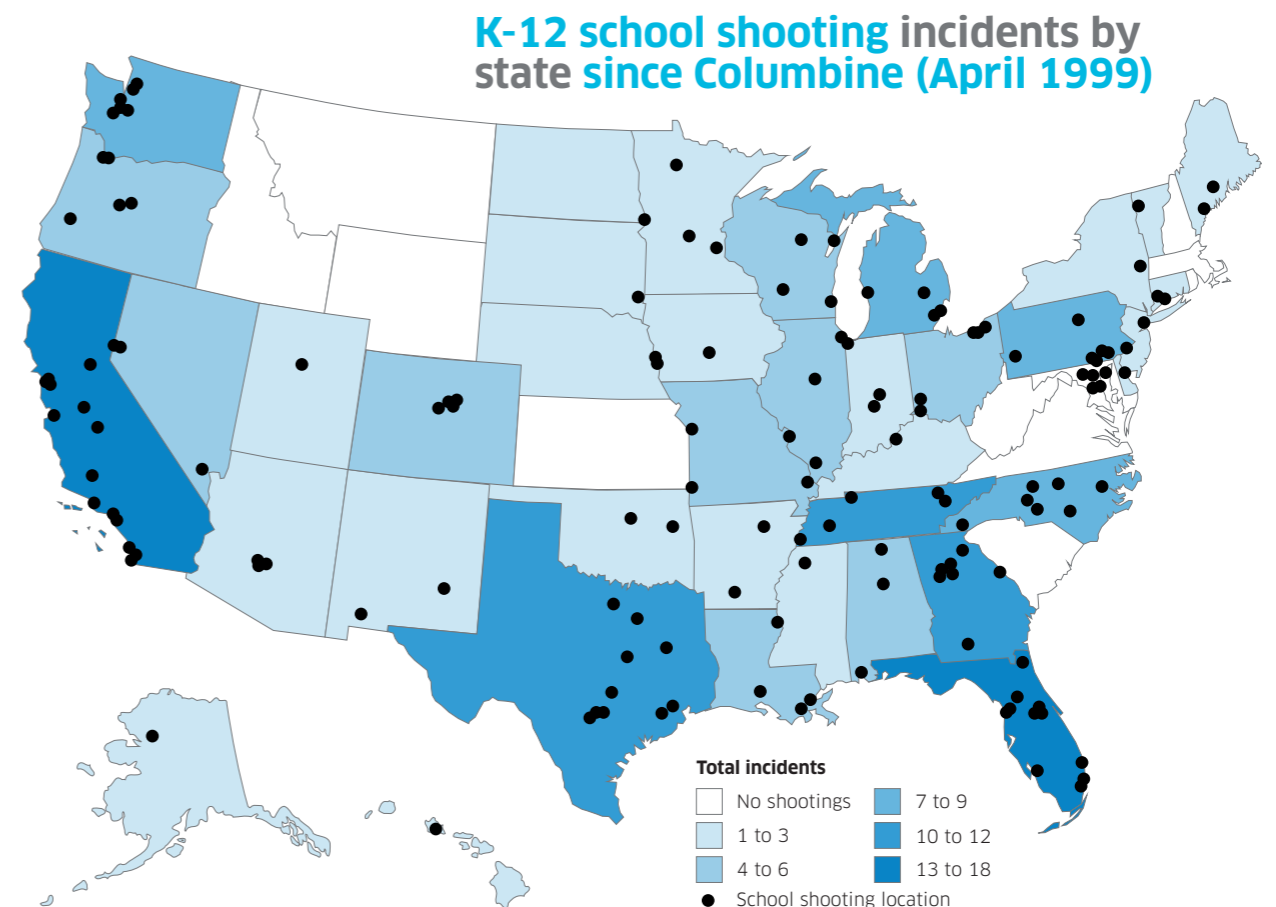




## Proactive measures

California and Florida have had more mass school shootings than any other state.

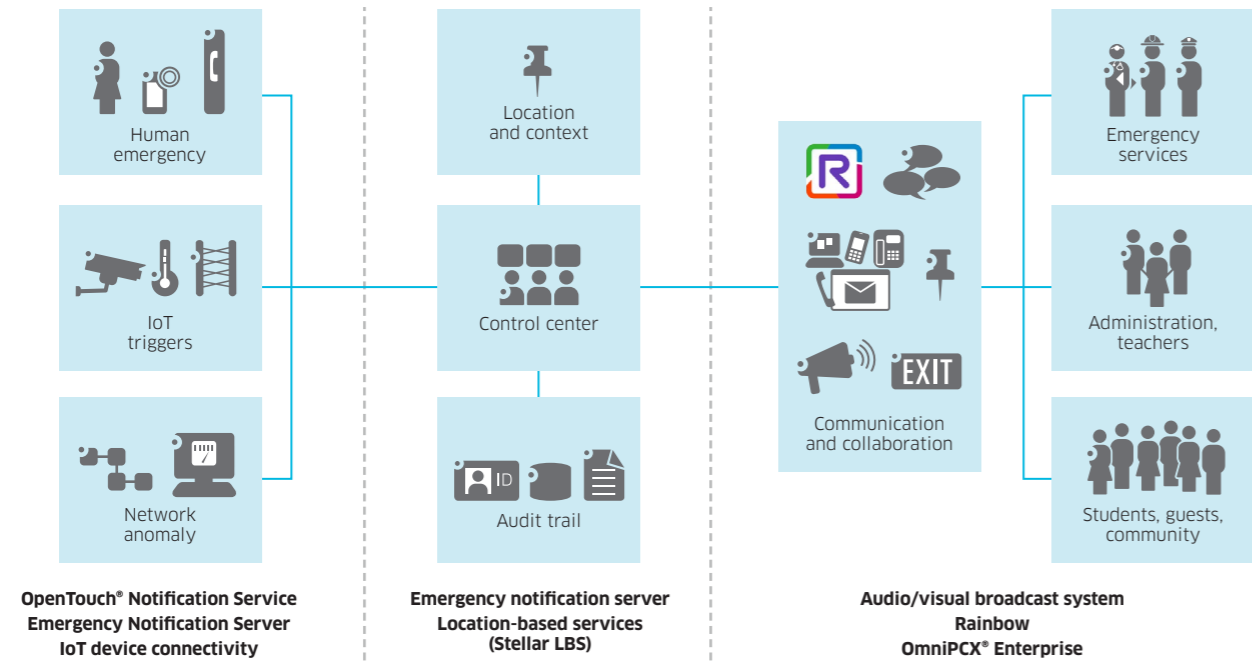
Following the tragic 1999 Columbine school shooting something had to be done. Many schools developed safety plans to proactively prepare students, staff, and faculty for an emergency. Lockdown drills, where classroom doors are closed and locked, lights are turned off, and students are moved away from doors and windows, became common practice.



# Alcatel-Lucent Safe Campus solutions: Optimize campus safety

Alcatel-Lucent Safe Campus is a robust solution that accepts awareness inputs from human-initiated emergency calls, smoke/fire/gas/perimeter security alerts from IoT devices, and network management systems. The Safe Campus control center identifies the alert location, initiates coordination and collaboration with first responders, and distributes campus-wide notifications via multiple communication channels. Valuable information is automatically collected as the event unfolds and is stored for future analysis.

## Addressing a crisis





## Be aware. Be proactive. Be safe.

When time is of the essence, decisions need to be made quickly. In order to make informed decisions, on-campus and in-transit first responders require a comprehensive understanding of the crisis.

Real-time intelligence relies on connectivity. Internet of Things (IoT)-based solutions provide schools with the technology necessary to alert emergency personnel, collaborate with responders, and notify students, faculty, staff, and campus visitors about next steps.

Alcatel-Lucent Safe Campus solutions create a safe campus learning environment that leverage existing infrastructure investments in voice and data and enhance them with safety and security devices. The resulting end-to-end communications infrastructure can enhance the awareness and responsiveness of campus staff and security personnel, support lockdown procedures, provide emergency notification. It can also be integrated into the building control systems to enable surveillance, and provide alarms and alerts.



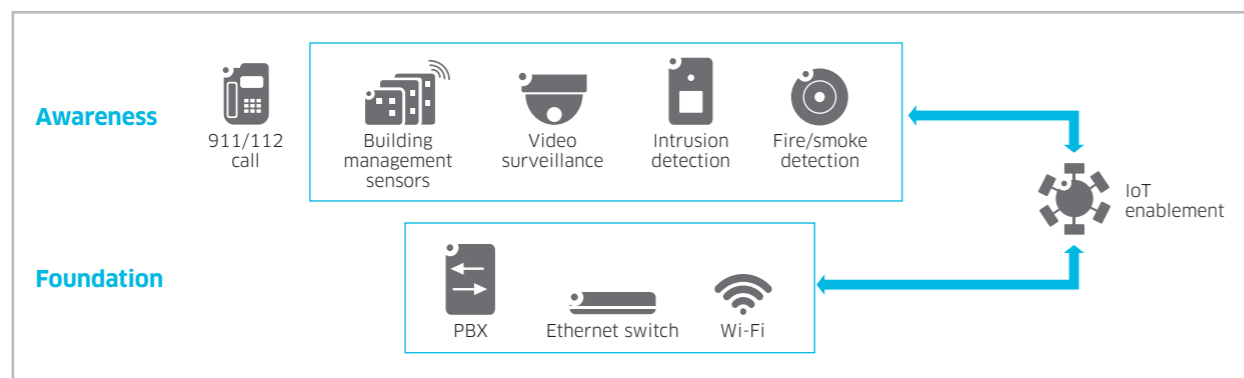
# Awareness

Real-time, accurate, and actionable information provides a foundation for successful response during a crisis. With modern IoT technology schools can transform their incident response during high-stress, confusing, emergency situations.

Alcatel-Lucent Enterprise solutions provide schools with the ability to deliver an extraordinary level of safety. Connected IoT devices, from sensors to security cameras, provide emergency management personnel with real-time insight into the incident. Using sensors and geolocation technology, information about what is happening can be provided and the source of the alert can be identified.

Awareness solution:

- Alcatel-Lucent OpenTouch Notification Server
- Alcatel-Lucent Emergency Notification Server (911 calls)
- Alcatel-Lucent Rainbow™ (mobile app)



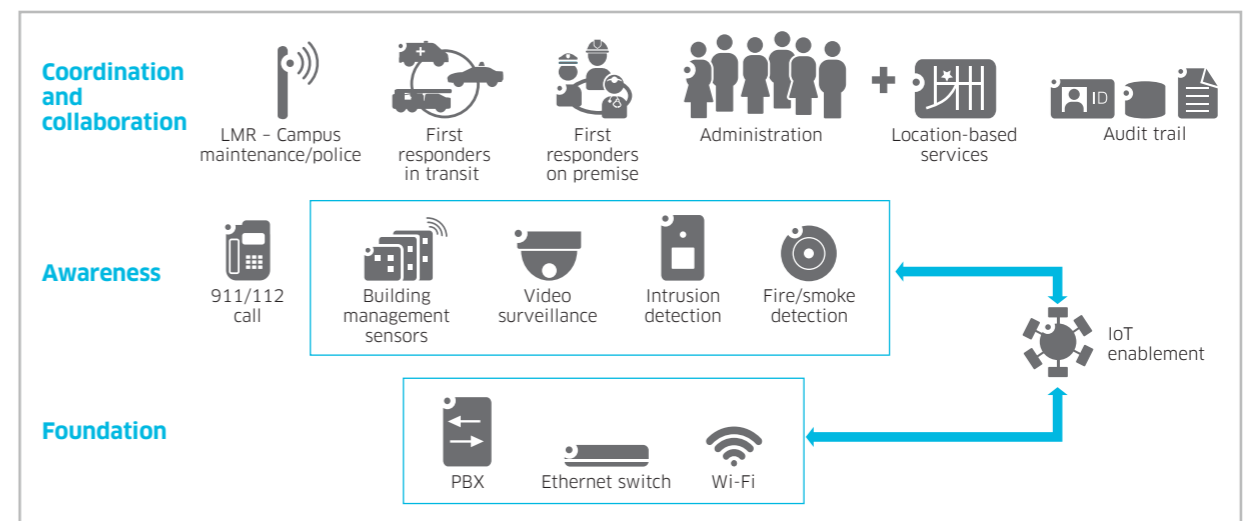


## Coordination and collaboration

Once on-campus personnel become aware of an incident and have obtained appropriate information, timely and thorough collaboration with on-premises, in-transit, and external first responders is essential. Alcatel-Lucent Safe Campus solutions can provide the exact location of a 911 call, push floor plans, schematics, and video surveillance feeds to first responders in order to save precious time during an emergency. Coordination can be further improved with real-time location of on-site staff and secure, encrypted audio, video, and data conferencing that provides an immediate bridge between administrators at home or in remote offices, and on-site security, staff, and first responders.

Coordination and collaboration solution:

- Alcatel-Lucent Rainbow (audio/video conferencing, screen sharing and text)
- Alcatel-Lucent Stellar Location-based services
- LMR integration with telephony system (bi-directional walkie-talkie support)



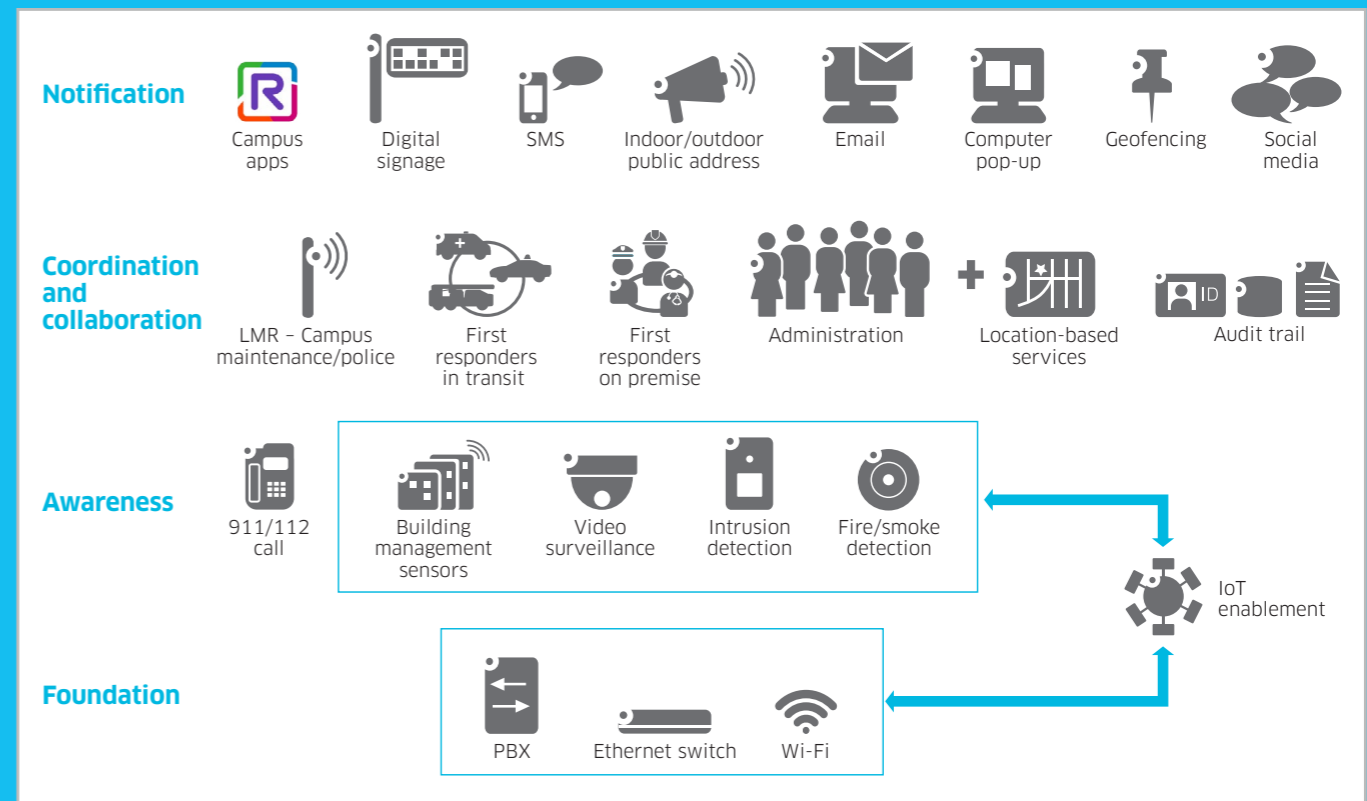
# Notification

Keeping secondhand and word-of-mouth communication to a minimum is key to ensure that only accurate information is made available to all students, staff, and visitors. Safe Campus solutions enable you to quickly craft and deliver mass notifications. Multi-modal notifications such as intercoms, mobile phones, SMS, campus-specific apps, email, social media, loudspeakers, digital signage and other communications technology can be used to notify those in danger, by providing evacuation and/or lockdown instructions and warning those not in immediate danger to stay away.

Additionally, IoT sensors can be activated to close and lock doors and windows, close window blinds, open emergency exits, and activate emergency lights.

Notification solution:

- Alcatel-Lucent Rainbow (audio and text)
- Alcatel-Lucent Audio/Visual Broadcast System (indoor/outdoor PA system; telephone speakers)
- Stellar Location-based services
- Alcatel-Lucent OmniPCX Enterprise Communication Server





## Improvement

Lessons learned are always important. Having the capability to replay and analyze past emergency scenarios with immediate access to detailed data for each emergency call is essential. Understanding where break-downs in communication may have occurred, lag times by response teams, as well as the role of key strategic decisions can make the difference in ensuring the future safety of students, staff and visitors in any campus environment.

## Make every campus a safe campus

Secure your campus with reliable, easy-to-use and cost-effective communications. Protect your students, faculty and visitors and improve response time. A robust and secure network provides the foundation to ensure flawless communications and connectivity to IoT devices, which are essential for awareness and notification.

For more information about ALE Safe Campus Solutions, visit: [www.al-enterprise.com/en/industries/education/intelligent-campus/safe-and-secure-campus#safety](http://www.al-enterprise.com/en/industries/education/intelligent-campus/safe-and-secure-campus#safety)

We make everything connect by delivering technology that works, for your school, college or university. With our global reach and local focus, we deliver purpose-built networking and communications for education environments that enable secure, reliable collaboration between your faculty and students.

Learn more about [ALE Education solutions](#).



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