SIEMENS
Ingenuity for life

Creating a safe, secure school environment

Overview

Partnering with schools to help create a safe, secure learning environment.

A perfect place for learning is one where students, staff and faculty feel safe and secure and can focus on the core mission of education.

Creating this environment is becoming a bigger challenge, and a bigger responsibility, every day.

As your partner in education, we bring a dedicated focus to help you create the right strategies and technologies to deliver confidence and peace of mind to everyone in your school.

Securing schools requires a risk mitigation mindset.

Threat, vulnerability and risk are often used inter-changeably to describe what we are trying to address with security, but there are important distinctions.

- A **threat** is what we are trying to protect assets (people, property, etc.) against.

- A **vulnerability** is a gap in protection efforts.

- A **risk** results where and when threats and vulnerabilities intersect.

Schools should provide a reasonable level of security to mitigate risks with a proactive mindset.

K-12 schools face unique risks.

- Theft
- Burglary
- Assault
- Sexual assault
- Kidnappers and sexual predators
- Workplace violence
- Active shooter/Mass casualty attacks
- Homicide
- Suicide
- Gang activity
- Trespassing
- Bullying and harassment
- Parental custodial concerns
- Unsupervised visitors
- Vandalism/Property destruction
- Compromise of confidential information

Benefits of having a proactive mindset to protect your school.

- A strategic alignment of security into daily operations results in a reasonable level of security for all people on the premises.

- A proactive approach to emergency management and loss prevention.

- An opportunity to generate positive public relations and community-focused goodwill.

Codes and standards
for school security

NFPA 3000™: Active Shooter/Hostile Event Response

Developed in committee with support from first responders, facility management professionals, government agencies, and others

As more hostile events occur, law enforcement, first responders, facility managers, and other officials must have information they need to effectively respond.
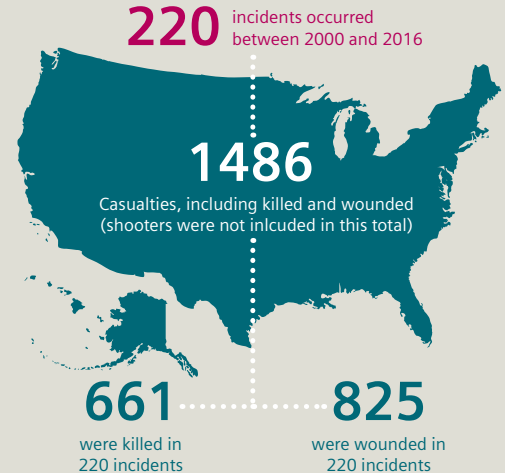
This new standard identifies minimum program elements needed to:

- Organize, manage, and sustain ASHER program

- Reduce risks, effect, and impact on an organization from these events

- Ensures uniformity to messaging to everyone, helping to eliminate confusion

Everyone has a role to play: whole community, unified command, integrated response, and planned recovery

For more information, visit: www.nfpa.org

Active shooter events in the US: 2000-2016

220 incidents occurred between 2000 and 2016

1486
Casualties, including killed and wounded (shooters were not inlcuded in this total)

661 were killed in 220 incidents

825 were wounded in 220 incidents

Source: NFPA Fact Sheet

Stakeholders

Policymakers

Helping make communities safer, enacting relevant practices to connect everyone together

First responders

Sharing knowledge and training across disciplines to help reduce harm

Facility managers

Creating event response plans for each site, integrating with response community, and training all personnel

Public

Asking local officials whether ASHER programs are integrated with entire community

Meeting NFPA 3000 Recommendations

One command & control

- Integration with disparate systems
- Extension of customer equipment lifecycle
- Multi-level access and management controls
- Mobile apps

Communication

- Fire EVAC voice speakers and PA systems
- Audio, text, and digital
- Digital signs and LED displays
- Two-way radios
- Email and mobile text

Training

- Graphical interface to make simultaneous communications seamless and easy
- Lower cost of training and ownership

Partner Alliance for Safer Schools (PASS)

The Partner Alliance for Safer Schools (PASS) is an organization establishing security standards for schools.

Security Industry Association (SIA) and the National Systems Contractors Association (NSCA) assembled a cross-functional group of members including school officials, safe schools consultants, law enforcement and security industry experts to collaborate and develop a coordinated approach to protecting K-12 students and staff.

PASS Guidelines

Following these guidelines can:

1. Define threats common to schools at each educational level

2. Offer recommendations on parental and community involvement

3. Detail a layered security approach that combats common threats and mitigates risks related to active shooters

4. Provide information for integrators, school administrators, resource officers, and IT staff on technology-focused solutions like video surveillance, duress alarms, and electronic access control

5. Deliver scalable/tiered measures that administrators can implement based on available resources and local risk levels

Meeting PASS Recommendations

1. Tiered approach

- Find support tools here: https://passk12.org/toolkits/

2. Risk checklist/ assessment

- Review your facility with your team with risk checklist/assessment.

3. Layered approach to security

- Integration with disparate systems
- Extension of customer equipment lifecycle
- Multi-level access and management controls
- Mobile apps

SECURITY

What's the best approach to securing our schools?

We have the Security solutions and services to support K-12 schools.

- Physical security information management (PSIM) or other monitoring capability, in conjunction with local police and safety

- Intelligent video surveillance system with analytics

- Access control with alarms

- Mass Notification /Emergency communications

- Shooter detection and more

- Services to support optimal operation and management

- Follow recommendations that support K12 school security, first responders and communities
  – National Fire Protection Agency, NFPA 3000™ Active Shooter/Hostile Event Standard (ASHER)
  – Safety and Security Guidelines for K-12 Schools from the Partner Alliance for Safer Schools (PASS)

Creating a safe, secure school environment

01 Harden the perimeter of school campus.

02 Control access in and out of the buildings and secure areas.

03 Install intelligent, analytical cameras that record an event and monitor cameras remotely.

04 Integrate systems so access control, video, and command & control systems create better situational awareness.

05 Have an effective mass notification system in place for notifying students, teachers, parents and the community.

SCHOOL

Keys 1 & 2: Perimeter security and access control

Benefits

- Helps harden perimeter of school buildings
- Alarms if a door is propped open or there is unauthorized access
- Helps control entrance to school campus and other secure areas
- Creates a record of who is entering or leaving the building or area
- Can be integrated with video for verification and response or forensic review
- Allows asset tracking of resources, such as computers, monitors, etc.

Key 3: Video surveillance with analytics

Benefits

- Uses newer technology, requires fewer cameras
- Now better video quality and allows easier searches
- Set up to start recording with motion detection, perimeter awareness or objects left behind
- View on mobile or desktop
- Available 24/7/365
- May help simplify investigations

Key 4: Mass notification

Deploys multiple layers of communication with a single button

- Email alerts
- Text messages
- Desktop alerts
- Loudspeakers
- Fire alarm speakers
- Intercom speakers

Benefits

- Delivers consistent messages to students, faculty, parents and community
- Creates redundancy, so correct action is taken
- Ensures uniformity to messaging to everyone, helping to eliminate confusion
- Messages can be pre-determined or on the fly for fluid situations

Key 5: Command & Control for situational awareness and response

- Provides dynamic instructions per policy derived from alarm type, location, time of day, threat level, and more

- Helps visualize alarms, personnel, and more on both GIS and floor plans

- Provides an audit trail for post even compliance and reporting

- Proposes efficient resource management for the closest qualified personnel

- Delivers high reliability through proven redundancy concepts avoiding downtime

- Offers an open platform allowing integration of Siemens and third party systems

Specialized technology for more capabilities

Additional devices to help enhance security

- Shot detector
- Metal detection
- IP intercoms
- Emergency call boxes
- Crime Prevention Through Environmental Design (CPTED)
- POS Integration
- Traffic analytics
- Door devices

Security services for optimal operation and management

We offer security services aligned with key outcomes:

Manage System Operation & Compliance	Optimize Performance & Productivity	Protect Your Investment
• Calibration services • Data backup and restore services • Emergency online/phone response • Emergency on-site response • Emergency services • Maintenance planning & scheduling support • Network maintenance • Performance reporting • Physical service assessments • Preventive maintenance • Repair & maintenance services • Security compliance & policy planning • Spare parts inventory management • System documentation management & update • Test & inspection	• Access control management • Alarm management services – security • Customer directed support • Education services • Hosting services • Integration services • Operator coaching • System optimization services • System performance assessment & strategy • Video monitoring & management	• Firmware updates • Lifecycle planning • Server & client workstation upgrades • Software upgrades • System retrofit & extension services • Technology migration
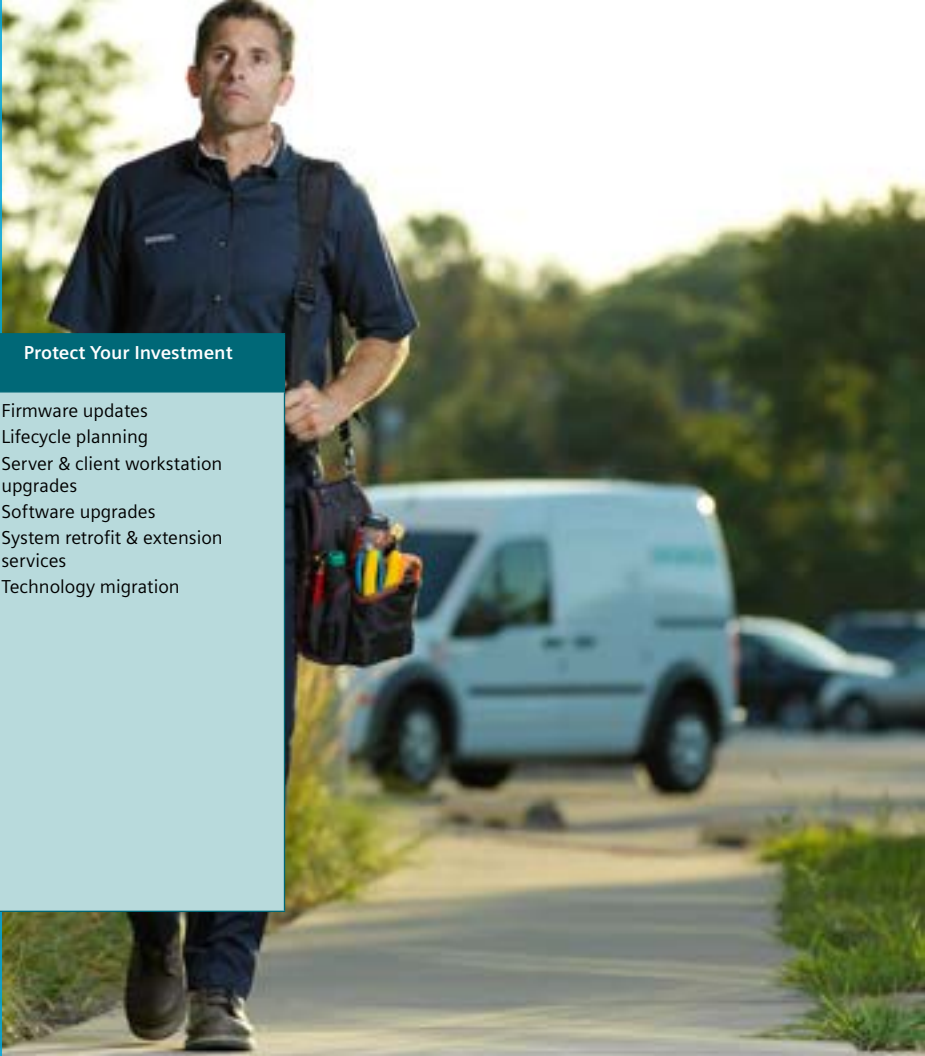
Funding

Students, Teachers and Officers Preventing (STOP) School Violence Act of 2018

- Funds school security improvements and invest in prevention programs to stop school violence before it happens.

- Authorizes the Department of Justice (DOJ) to make grants to train students, school personnel and law enforcement to identify signs of violence and intervene to prevent harm.

- Funds technology and equipment to improve school security and prevent school violence, the law enforcement and the education communities to revive DOJ school security assistance—a top policy priority of the association since program authorization lapsed in 2009.

More ways to fund security

Joint Purchasing Contracts such as Sourcewell
- A governmental agency/group purchasing organization (GPO) with 50,000 members, 12,000 School Districts.

Siemens Financial Services
- If your school district does not have funds currently allocated within its budget, Siemens Financial Services may be able to offer flexible funding solutions such as municipal leases. *Subject to credit approval.*

Performance Contracting
- By design, performance contracting is a procurement vehicle for school districts to utilize energy and operational savings to fund infrastructure improvements from within an existing budget.

- Where allowed by law, consider bundling security into a performance contract and leverage the savings to pay for your project.

We can help evaluate your security needs and create a comprehensive security strategy.

1. Harden the perimeter of school campus.

2. Control access in and out of the buildings and secure areas.

3. Install intelligent, analytical cameras that record an event and monitor cameras remotely.

4. Integrate systems so access control, video, and command & control systems create better situational awareness.

5. Have an effective mass notification system in place for notifying students, teachers, parents and the community.

Ongoing training should be in place for security awareness and emergency preparedness.