

The Challenge

For K–12 Education

School districts and their schools need a unified security system across the district so they can share consistent and timely information when responding to unplanned or emergency events. They need to make sure that the right information is communicated to the right people.



THE CHALLENGE IS:

- To apply the best technology from the electronic security and emergency management areas to the needs of school facilities
- To provide a single, integrated environment for data collection, analysis, reporting and communication in emergency environments
- To ensure timely and consistent emergency communication to all school facilities
- To provide significant operational benefits in addition to required emergency response functions
- To leverage, if possible, the existing school networking
- To provide a core local event management system for all school facilities.

In order to meet that challenge, MAXxess drew from its long experience designing electronic security management systems for both commercial and governmental applications. The resulting solution incorporates many of the features and functions of these other systems, but adapts them to the technical, operational and fiscal environment of the school systems.

The MAXXESS Solution

MAXxess provides a security framework for school districts and their schools using existing networks. The MAXxess solution is a network-based safety, security and emergency response system specifically targeted for application to K-12 schools.

It consists of two software components; a Local Client at each school facility site and a Management Framework at the school district office.

It displays the entire security system using one single interface to facilitate decision making

The framework logically groups major event information so that the District and the schools can see the bigger picture in the context of both internal and external events.

- We alert the District in a textual format describing the event.
- We alert the District through a graphical floor plan that shows the District where and what has happened.
- We display the video that is related to the event.
- We alert the District to external events that may affect their operations.

We combine all the event information and display it simultaneously. The Management Framework is a fully-featured event management system build around a SQL database. The database is the central resource of the system. It contains records of all of the reported events (automatic or manual).

All events are automatically tagged with time and location information. Additionally, all events can be assigned priorities, alerting information (e.g. icons and/or audio cues) and special instructions if desired. Dependent events can be triggered by either single events or by combinations of events.

The framework provides local and remote (e-mail) alerts as a function of the priority level assigned to an event.

Visual summary cells indicate, by color, event status and enable a rapid, intuitive assessment of the status of all schools in the district.

(continued)

The MAXXESS Solution *(continued)*



MAXXESS

MAXXESS Systems, Inc.

Allows the school district to have direct interfaces to other organizations: such as county or state Departments of Education, first responders (e.g. police or fire), and regional emergency operations centers.

Provides a security backbone for every school, which includes:

- User Interface
- Graphical floor plan
- E-mail on alarm
- Report Wizard
- IP Alerts
- Hot Button Alerts
- Web Monitor
- Voice annunciation
- E-mail receipt
- IP Video

Highlights

- Provides a standard security, safety and emergency response system.
- Provides situational awareness for all schools.
- Provides a timely, uniform response to all emergencies.
- Provides an integrated emergency alert notification system.
- Ensures security and safety standards for all facilities.
- Provides automatic remote notification of events – does not have to be monitored.
- Can be used to model and test response scenarios.
- Open architecture for adding new technology and tools
- Minimizes the cost of additional functionality
- Leverages existing personnel and resources
- Uses standard PC-class hardware and uses existing networks for all necessary communication
- Supports diverse geographic site monitoring
- Provides two way communication with all school sites to increase information sharing
- Can be extended from the local level to the county or state level as required. Can integrate to the police and fire departments and other support groups
- Evolves readily to meet new requirements
- Highly scalable
- Automatic notification (by visual alarms, audio alarms and/or e-mail) if there is a problem
- Minimizes the threat of intrusion and vandalism
- Provides DHS alert levels and news for global context
- Monitors both alarms AND loss of network connectivity
- Minimizes training requirements
- Decreases liability exposure with pro-active detection and prevention
- Decreases operational costs and total cost of ownership
- Installation time: approximately one week
- A license structure that offers schools an opportunity to implement a state-of-the-art system at costs that are far below those of equivalent commercial systems
- Ensures peace of mind for students, staff and parents

In summary, we allow School Districts to see the bigger picture, make more informed decisions, respond quicker to events and be able to share critical information throughout their organization.

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