

EMTEL SCHOOLCALL[®]

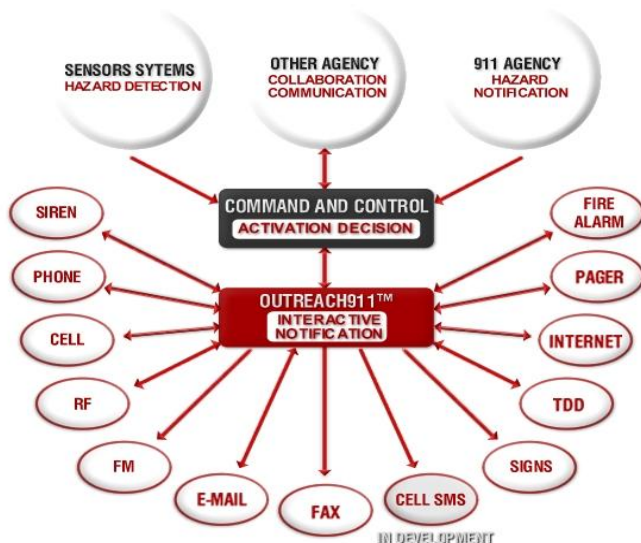
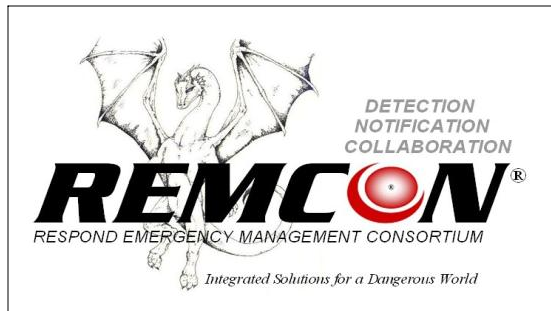
Automated Campus Hazard Notification 911

A Total Integrated Solution for School Campus Emergency Notification and Evacuation from K-12 to Large Universities



SchoolCall911™ is a combination of communication technologies integrated to fully support the emergency notification needs of both open and closed campus environments from sprawling universities to compressed grade school complexes. The EMTEL RESPOND® Emergency Management Consortium (REMCON), a group of nineteen telecommunication and other engineering companies have joined to provide the first campus “All Hazard” notification system that will alert students, faculty, employees and visitors anywhere on school grounds or in campus facilities. With the push of one

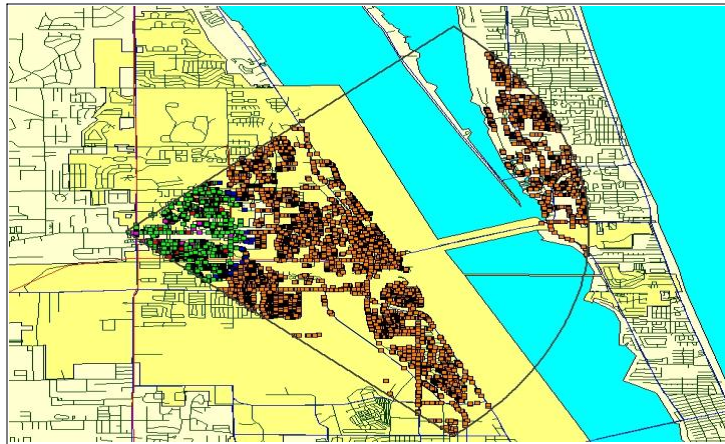
button or graphical selection on the campus map, notifications will be sent out on thirteen (13) different communication conveyances simultaneously so that all individuals on campus will be alerted by at least one of the communication infrastructures. At the same time, first responders from both the school and other local, state and federal public safety agencies can be notified and activated to support the hazard on the campus.



Realizing that no single type of communication technology can reach 100% of the campus population, numerous delivery systems are employed to establish contact and insure that adequate emergency information is deployed in time to save lives and minimize injuries and property damage. Mobile, wireless, waterproof, robust and hardened laptop computers are used to activate the SchoolCall911™ notification systems from vehicles, school buildings, remote operations centers or from open vulnerable campus grounds. The system communicates via wireless or wired internet with backup through satellite and

frame relay connectivity. Communications are made via the infrastructure connectivity shown in the graphic left. The hazard is reported from 911, emergency agencies or directly from local or remote sensors from other integrated systems to the campus emergency management center or can be observed by any campus security official. Once the decision to activate the notification is made, a pre-programmed scenario button is pushed and the notification with feedback on all phone calls is started.

The interactive mapping system displays the live communications on the map as a colored symbol depending on the response received. If someone reports and injury, the dot on the map for that individual turns red. All transactions with land line phones that are entered into the geo-coded data base can be shown on the map. The graphic left simulates a plume of noxious chemical moving from West to East across the geo-coded map that would contain the campus at risk. This multi-layered mapping system can contain graphical geo-spatial data for power grids, potable water supply, gas pipelines, flood planes, building floor



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Since the system can be activated by the wireless laptop left, it is not constrained to an operation center or any other building that may be destroyed or incapacitated during an emergency. This unit can be taken anywhere in the country where there is access to the internet and have full control of emergency assets and calling scenarios. Since many laptops can be deployed with duplicate data bases, front end single point failures are eliminated. In addition, single point failures on the notification delivery side of the solution are also eliminated by utilizing more than one call center and/or calling engine. The facility shown below is the EMTEL Operations Center where calls can be activated from the remote

laptops. Other call centers can be automatically accessed if this center is unable to generate the necessary notifications. The capability to “Nodally Network” operations centers also provides the capability to add phone assets in real time and enhance calling rates when contact time is critical. Multiple activation computers and multiple call centers eliminates the capability for a terrorist to incapacitate the system with a single bomb or other assault weapon. Call center equipment can be installed with existing campus, city, county, or state communication equipment if complete internal control of the capability is requisite. Remote integrity monitoring is also available to check the integrity of the system and install upgrades and maintenance software.



System capabilities include **Interactive Notification, FM Targeted Broadcast, Audible Alerts, E-mail and FAX Messaging, Electronic Signs and Pager Notification, Secure Internet Collaboration, Web Based Notification, Hearing Impaired, and a new SMS Cell Broadcast capability currently in development at EMTEL.** These solutions are explained in detail below.

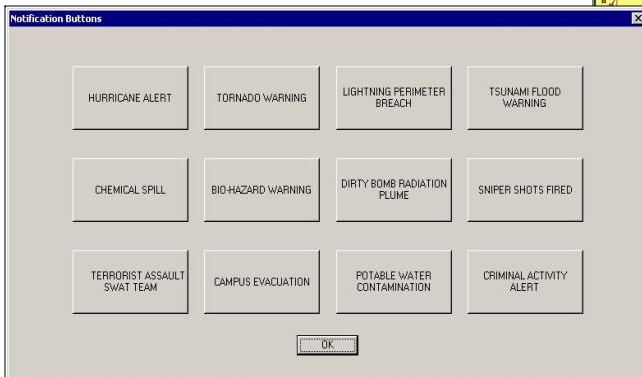
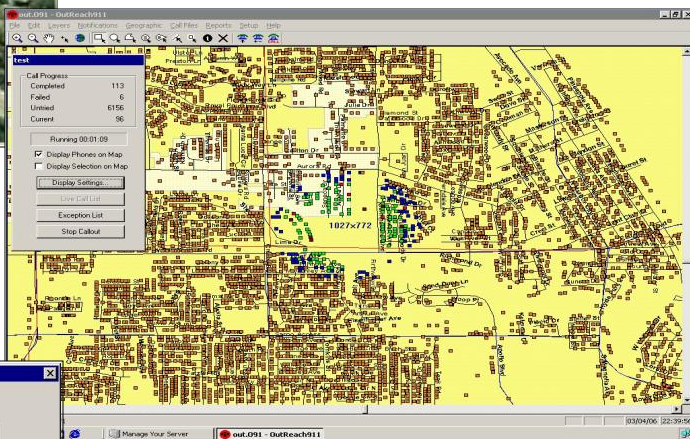
Interactive Notification System:

This geo-coded “campus map” driven system will contain connectivity to all students, faculty, and emergency management personnel associated with the school. The system will be able to call the entire campus population with the press of one button on the PyrAlert911™ console and obtain real-time validation and feedback from every call recipient. Special needs students and faculty will have appropriate entries in the data base for special attention as necessary. Hearing impaired individuals will automatically receive notices on TDD equipment as available. All participants will be called on alternate numbers in priority defined in the data entry tables. Vibrating devices are also being designed for hearing impaired to notify them when an alert is sounded or simply that the smoke detector has been activated.



The aerial view left is of the Florida Institute of Technology (FIT) campus. FIT is EMTEL's partner in testing the new Targeted FM Radios which will alert the campus from FIT's own WFIT FM radio Station. This technology is addressed below. The aerial map can be installed as a layer on the activation computer that works in tandem with the phone and other

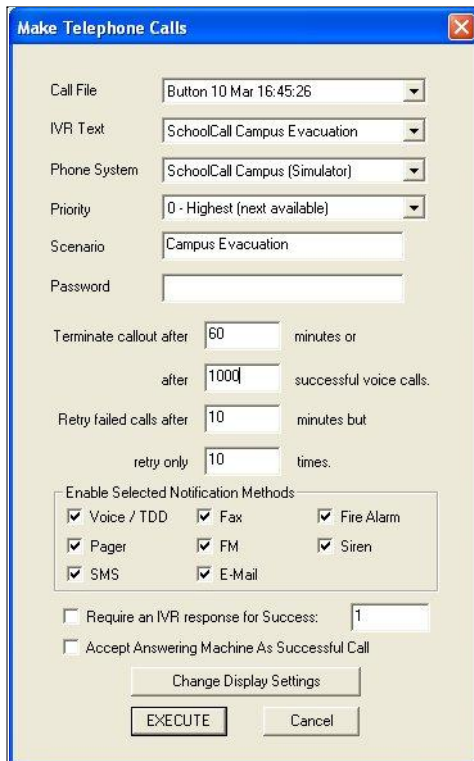
communication data layers. Having all data mounted on the geo-coded mapping system makes it available immediately when a hazard threatens and provides for communication via predefined scenarios by merely pressing a labeled button.



The Touch-Screen PyrAlert911™ control panel can activate 100s of responders or call thousands of students and faculty with real time feedback. Evacuation compliance surveys will provide information on who is leaving and who needs help to evacuate. Damage assessment surveys will provide injury and level of damage after the event.

Since all of the personnel data is pre-programmed into the computer, access to responders and students is enhanced. Similarly, since all of the communication systems are predefined and programmed, selection of the set of delivery systems takes no more than selecting the system on the calling console.

SchoolCall911® adapts well to K-12 environments where students, faculty, bus drivers, local employees, health officials, police, fire, and emergency management staff are all pre-programmed into the system. Sex Offender bases are also available for monitoring proximity requirements and offender profiles. Although similar, every school has unique operational processes. SchoolCall911® was designed for customer customization and friendly selectable interfaces.



The SchoolCall911® Notification Console provides for customized Call Files, Interactive Voice Responses, Multiple Call Systems, Scenario Priority Settings, and Multiple Simultaneous Scenario Capability. This means that the school can be running several notifications simultaneously on different phone bases and obtain feedback from the targeted message recipient.

Notice that the Notification Methods can be selected at call activation by simply checking the appropriate box for the delivery method required. All boxes can be checked for simultaneous activation of all communication systems. The "Pager" selector will activate alpha-numeric pagers and send information to electronic signs on campus. The fire alarm selector will activate fire alerts and send voice messages to interior page/intercom systems. The Siren selector will activate electronic, mechanical, and paging siren systems as programmed for the particular site. Answering machines can be considered successful or not depending upon customer requirements.

The utilization of numerous delivery systems simultaneously is the answer to contacting the largest portion of the campus community in time to save lives and property. Since the notification computers are portable and mobile model 29/18 Panasonic laptops they can be easily move when an EOC loses power or integrity. Since the call engines can be local or remote and are all redundant and networked, reliability and calling rates are greatly enhanced. The laptops also have redundant information and are provided in sets of three units to insure that true reliability criteria are met. The combination of the multiple delivery structures and the designed reliability make SchoolCall911® the "Total Solution to **Fast and Reliable** Campus All Hazards Communications".

FM Broadcast System and Custom RADCON Radios:



Unique FM radio receivers are being developed that have all weather radio features plus special EMTEL targeting technology so that one, one hundred, or one thousand radios can be activated without other FM radios being affected. The system could notify 100 campus first responders, 1000 teachers, or 50,000 students on the same campus with different messages within a few minutes. These

radios are also being designed for swat teams, fire departments, military and general public applications. When regular commercial power is out, the Global RESPOND® radio network will still work via diesel generators at the stations and battery power in the radios. The second generation radios will have GPS locators to target the FM broadcast by location. Testing is scheduled to begin at FIT as early as Spring 2006. EMTEL also will provide peer-to-peer responder communicators to work in power scarce environments.



Audible Alerts:



The Schoolcall911™ system will be able to activate sirens and speakers as part of the interactive notification system. The system will be able to communicate with the sirens via internet, phone line, cell interface, frame relay or other connectivity to set and clear siren relays. Speaker systems could be remotely activated via phone call, remotely activate playback systems of different types. The system could use real time recorded or archived messages on an incident basis. With the new



SchoolCall911® portable technology, messages can now be recorded and activated from the field on site or from the EOC. The system will also activate fire alarm systems remotely and call the fire department simultaneously. SchoolCall911® will send recorded messages or live voice messages to building intercom systems. The message can be played by floor in a prioritized order to enhance evacuation and reduce panic injuries. The message can be played continuously until the intended response has been achieved. The intercom alert could also be sequenced by

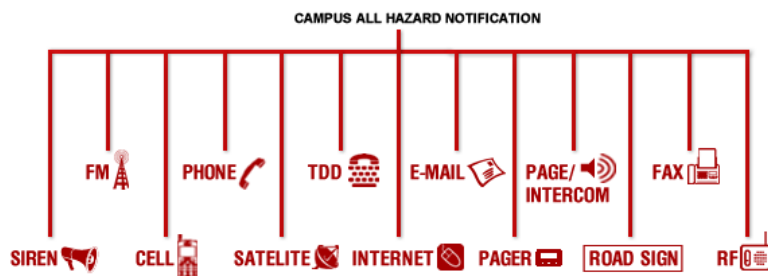


building or be targeted at all buildings simultaneously depending upon the pending hazard. The combination of sirens, speakers, alarm bells, and intercom systems explaining the alert will provide the penetrating and blanketing communications to reach all individuals on the campus not contacted by the other communication infrastructures. All systems are necessary to insure 100% connectivity with all campus residents and visitors.

E-mail and FAX Messaging:

The Schoolcall911® system will send e-mail and FAX messages to every student, teacher, and/or responder as entered into the PyrAlert911™ Data Base. All messaging technologies can be activated or deactivated at the time of notification. Please see page one (1) to review the diagram of all of the delivery infrastructures.

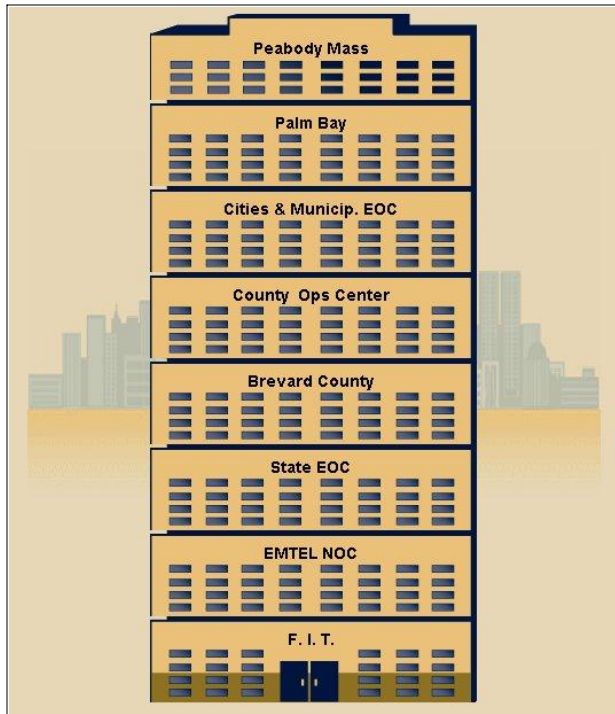
Signs and Pager Notifications:



The SchoolCall911® system can activate twenty-nine (29) different pager systems automatically as part of the Interactive Notification Process. Large electronic signs can also be activated by the pager system technology which will provide emergency information to all campus

personnel. These signs can be changed in real time as the hazard threat and notification requirements change. EMTEL is developing interfaces to the signs that will eventually provide real time video of lost children, terrorists, other criminals, hazard status, severe weather, and many other useful applications of video technology. Pager technology is a valuable and necessary component of the integrated telecommunication capability because like FM, Cell SMS, Siren, Intercom, and speakers, this broadcast technology can reach large groups of individuals simultaneously.

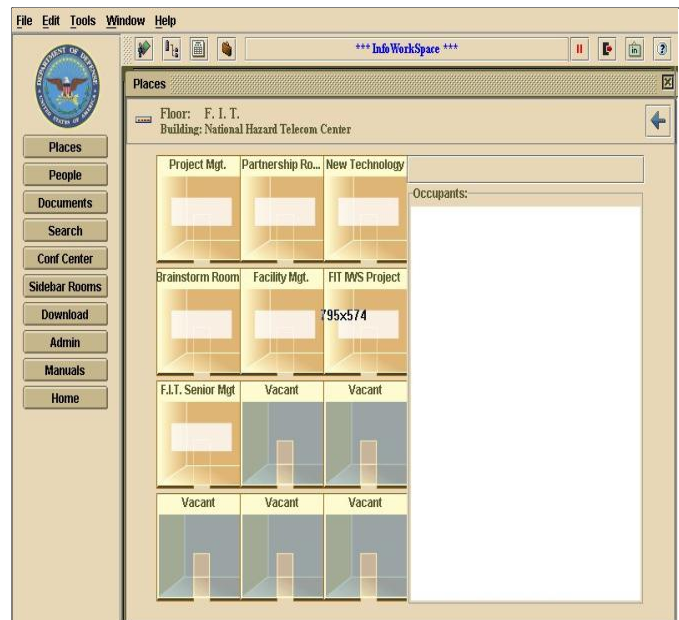
Internet Collaboration Network:



Schoolcall911™ will provide the most sophisticated internet collaboration technology available today. The secure internet meeting and conferencing system will be used to mitigate, recover, and run live emergency operations during the hazard event. This Infoworkspace network provides management and responders with real time video, voice, and data communications. It will carry pre-event training and post event recovery information. If the hazard arises during a conference, the system which can be accessed from any computer in the world with a web browser, provide a secure Citrix link to a secure WEB site where all of the campus maps and notification capability can be activated. This is the second of four levels of backup, reliability, and maintainability. The internet collaboration network also provides interactive document development, computer sharing, personnel profiles, chat, and live video interfaces. The Infoworkspace system has been used by the Federal Government for years and is

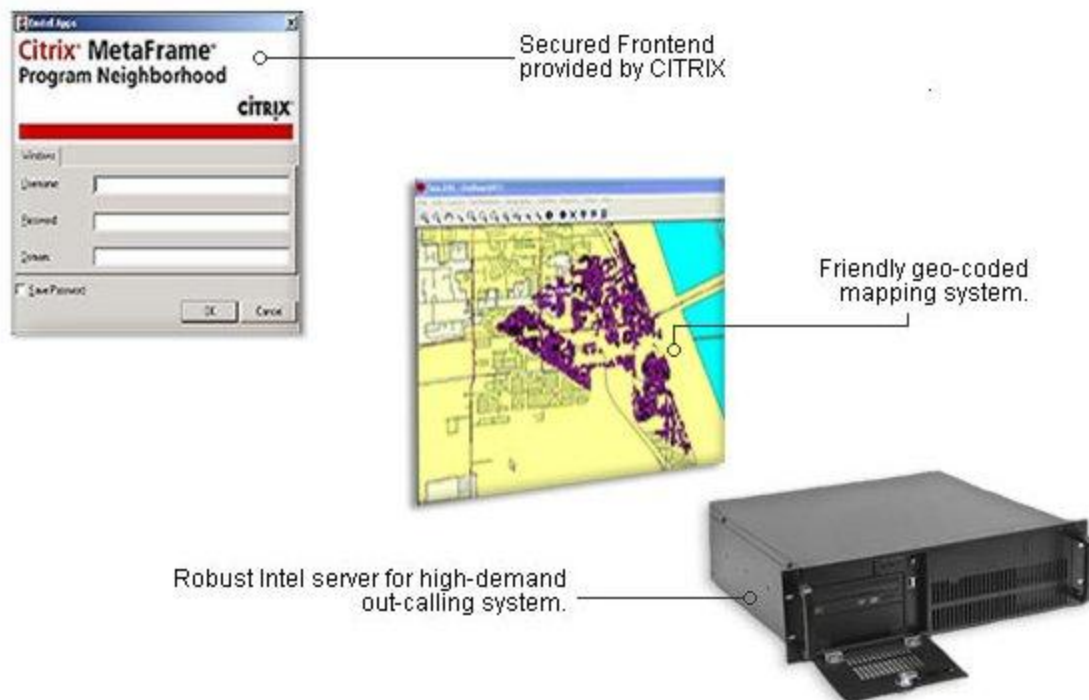
currently used by NSA, FBI, DoD, and many other government agencies. It is currently being tested by California Health Department for response to Bio-Chemical terrorism. The virtual

building, left, houses all of the virtual floors of the buildings on the campus. Each floor is in turn divided into secure offices that only those designated can enter and have access to classified documents and other proprietary information. The offices have the capabilities mentioned above plus an interactive white board that provides access to all cleared to generate drawing and documents at the same time. This allows for real time interactive development from remote locations. Any number of individuals can participate in a secure development meeting. The conference rooms, right, also have conference center and training capabilities. If a hazard arises during a conference or the conference is a consequence of the hazard, a campus notification and evacuation can be activated by simply pressing a button on the office console and the authorized individual will enter a CITRIX security screen where the mapping system will appear. After entering the appropriate codes the system will begin the notification. For the first time, the campus emergency manager or approving executive can be traveling anywhere in the world and still have access to campus personnel, students and all responder facilities.



Web Based Notification System:

OutReach911™ and SchoolCall911® web based notification systems are available as the third level of reliability and backup. This web based system can also be accessed from any computer in the world on the internet and will provide all of the notification capabilities as the field systems identified above. This capability is Citrix secure and will be available when a laptop is lost, stolen, or damaged. SchoolCall911® has four levels of redundancy and reliability and is the most reliable, secure, and totally integrated campus notification system available today. There are independent vendors providing different element of the technology, but EMTEL is providing the total integrated solution which can be activated by one command console. Push one button and all communications are made.



Cell Phone Broadcast:

Since most students and faculty do not carry FM radios, Pagers, Hearing Impaired devices, Activated Laptops, and may be confused by a siren blasting an alert, REMCON researched the best way to contact students and teachers in transit. Since most students and teachers carry cell phones on campus, EMTEL has developed a technique to automatically broadcast an SMS message to all simultaneously. This technology identified several years ago would work simply by locating existing cell towers on or close to the school campus and activating an emergency message to all cell phones in the hazard target area. Since cell phones automatically log into the tower, the system does not have to know the cell phone number. The tower already does. This works well where students and faculty have no land phone capability in housing. Since 22% of the general population now use cell phones instead of land lines, they can not be located on the geo-coded mapping system. EMTEL will be able to broadcast to these individuals using SMS technology. This solution also will be of great benefit to transient travelers on the highways where hazards loom almost continuously, A traveler or student on the campus could again be notified by simply being in range of the tower that is in the area of the pending hazard.



EMTEL originally designed this system for use along highways where hazard gridlocks stop traffic for miles, or hazardous chemical spills threaten the lives of transient drivers. This technology will work well on all campus configurations. EMTEL is currently working the engineering details with cell tower broadcast providers and hopes to have testing activated by summer of 2006.

The SchoolCall911® solution has been in development since 1999 and is ready for deployment. The FM capability will be ready after exhaustive testing at FIT. This solution is the most comprehensive, reliable and complete solution available for campus emergency communications to date. For further information about SchoolCall911® and the other twenty five (25) RESPOND® emergency management telecommunication products:

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