

City of Rochester Fire Department Selects End-to-End Triveni Digital Solution for Public Safety Communications Network In the State of New York

SkyScraper™ Emergency Services Network Solution Powers a Region Wide, Secure Broadcast of Emergency Services Information

The City of Rochester Fire Department in the state of New York, in ongoing partnerships with public TV station WXXI, Triveni Digital and the Department of Homeland Security, is deploying a new generation, region wide, Emergency Training and Information Network (ETIN). The ETIN is based on Triveni Digital's SkyScraper™ Emergency Services Network (ESN) solution. This end-to-end solution utilizes WXXI's digital television broadcast to provide a secure wireless wideband data path to deliver training, operational and emergency alert information to targeted first responder sites.

The network is being deployed in over 100 first responder sites throughout Monroe County including the Rochester Fire Department, Monroe County Fire, Rochester Police Department, Monroe County Police, Monroe County EMS, Monroe County Health Department, and six area hospitals. Using the Triveni Digital SkyScraper solution to deliver information via data broadcasting allows fire, law enforcement, emergency medical services, hospitals, emergency management and emergency communications to benefit from an on-demand network of information that is up to date and available 24/7.

“Our ETIN project is streamlining the delivery of training and information. It's establishing a secure communication network that can disseminate training and real-time critical information to more emergency response agencies, in a timely and cost effective fashion, than any existing method,” said Captain John Kearney at the City of Rochester Fire Department. “Triveni Digital team members have worked closely with us throughout the development process and continue to provide excellent support as we move into the launch phase. This project would have had difficulty attaining functional reality without the cooperation of Triveni Digital.”

Custom ETIN Application Delivers Timely Information to Multiple Public Safety Agencies

Agency sites equipped with an integrated broadband receiver within a seventy-five mile radius of WXXI will have access to continuously updated vital information. This information includes emergency alerts, information bulletins, weather reports and forecasts, radar and satellite maps, Homeland Security threat information, an event and shift assignment calendar, and a library containing training materials, equipment manuals, administrative manuals and forms, and many other types of information. Training materials in the library may include videos, audio recordings, slide shows, documents, and any other type of digital content. All of this information is broadcast to the agency sites in the form of files and stored on-site for instant display and access as needed. The system also supports broadcast of live video and play-out of stored videos from play-lists, digital signage style. Users may access all this information via TV-style remote control or wireless keyboard and mouse.

The overall ETIN system is designed to be used by multiple public safety agencies. The flexibility and scalability of the SkyScraper ESN solution allows each agency to have a back-office site, where content is prepared and scheduled for insertion into the DTV broadcast stream, and numerous local sites (e.g., police stations, fire stations, hospitals, etc.) where the content is received and made available to end users.

The deployed Skyscraper systems in public TV stations can currently reach approximately 50% of the US population today, making it a very cost effective, robust platform for broader roll out of this application. The SkyScraper ESN system can be easily duplicated and customized for deployment in other communities.

About the ETIN Project

This state-of-the-art venture has been made possible by Special Project Funding from The Metropolitan Medical Response System (MMRS), an emergency preparedness program of The Department of Homeland Security. The technical lead for this project from initial concept to today continues to be Lieutenant Dan Bender of the Rochester Fire Department. Visit <http://www.etin.us/index.html> for more information.