



Homeland Security Preparedness Chemical, Biological, Radiological, Nuclear, Explosive and Natural Disaster Risk Management Approach for Local Jurisdictions

The purpose of this **Risk Management Approach** strategy is for review by the mayors of Louisiana as it relates to local jurisdictions which was a derivative of a Homeland Security GRANT proposal authored by Dennis J. Savoie of Sphere Consulting Group, LLC, titled "Tactical Fixed Wireless Data Communications Program,". The integration of a tactical fixed wireless and satellite Internet, voice and data communications and redundancy services and infrastructure for risk-based local jurisdiction can be offered by fixed wireless and satellite systems integrators regarding emergency preparedness in a pre-catastrophic event phase to minimize risk of becoming non-operational.

What is your natural disaster and pre-catastrophic data communications plan in the event your risk-based local jurisdiction becomes non-operational outside the boundaries of your local jurisdictions?

The "Tactical Fixed Wireless and Data Communication Program" GRANT proposal addressed the most critical capability gaps of National Priorities of the Homeland Security Technical Assistance Program, to enhance the capacity of State risk-based local jurisdictions, as well as special needs jurisdiction, to develop, plan, and implement effective strategies for Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) and National Disasters (ND) preparedness with focus on the highest risk and critical areas at the local events and local jurisdiction level. The GRANT proposal address fixed wireless access technology and also satellite VSAT technology as a "pre-catastrophic plan or solution" for the State's risk-based local jurisdictions, with an emphasis on developing, planning and implementing effective strategies for CBRNE and ND preparedness for risk-based local jurisdictions as defined by the States. A State's high-risk and critical area (s) will need to respond and recover their public data communications networks operations in the light of a CBRNE or ND catastrophic event.

Terrestrial and Non-terrestrial Risk

- Fiber, copper and cable can be destroyed or non-operational for weeks or months
- Most satellite communications and phone technology have inherited voice data delay, over-subscribing, voice switch overloading, limited data and voice capability
- Cellular networks are vulnerable because so much plan is distributed throughout their service areas
- Power is the first to go thereby making certain high speed wireless access technology deployed on street lights for public safety non-operational

Case studies from Hurricanes Katrina, Rita and even the Indonesian Tsunami demonstrated that fixed broadband wireless technology was ideal for providing Internet protocol-based data communication for Category 4-5 storm-surged local jurisdiction like St. Bernard and Plaquemines Parish that were non-operational at the local events level. A fixed wireless and satellite systems integrators team together could address an emergency preparedness solution in the even that land based fiber, copper, and cable become non-operational and making your local jurisdictions fully non-operational. A fixed wireless and satellite data communications emergency preparedness and redundancy approach would allow risk-based local jurisdictions to own the satellite and fixed wireless infrastructure providing Internet, phone and data communication in the pre-catastrophic phase and in a STANDBY-READY-MODE. The service would be a monthly fee and would be engaged prior to hurricane season or on an annual basis to ensure Internet, phone and data communications to the risk-based local jurisdiction and public safety at the time of need. See Figure 1.

13675 Coursey Blvd., Suite 915
Baton Rouge, LA 70817
(c) (225)-266-2978 (p) (226)-751-0898
dennis.savoie@cox.net

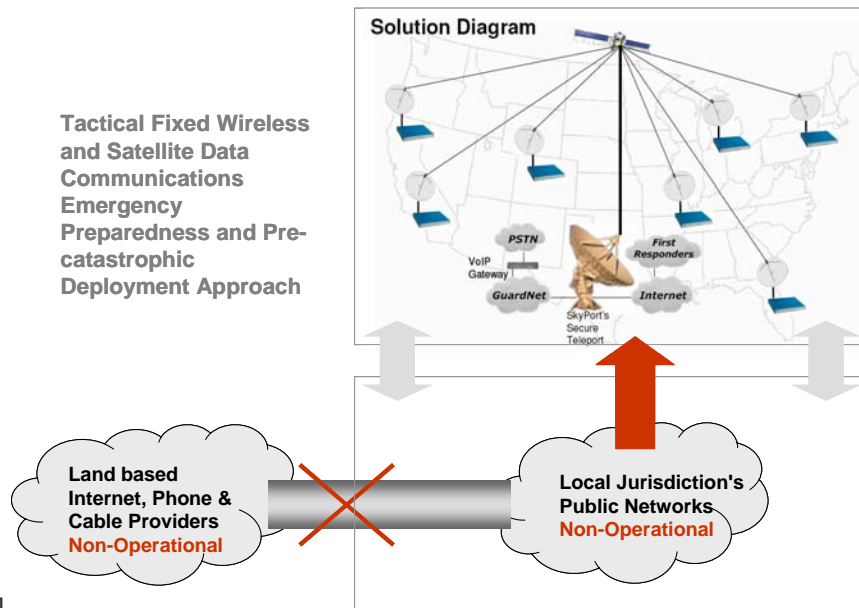


Figure 1.

Parish or County Wide Consortium

A fixed wireless integrator and satellite provider/integrator preliminary strategy would be to create a consortium of local jurisdictions within each parish or county. See Figure 1. The benefits to the parish/county and local jurisdiction would be:

- Reduction in the monthly satellite fee because it would be shared among each risk-based local jurisdiction within each parish or county
- Cost effective solution in providing a larger data capacity satellite “pipe” for the risk-based local jurisdiction (s) at the time of need
- Dedicated 24/7 satellite and fixed wireless service in a STANDBY-MODE in the event that the land based Internet, voice and data companies are non-operational.

Mr. Mayor, if you have any questions or interest in regard to this **Risk Management Approach** that would ensure your local jurisdiction having Internet, voice and data communications available at the most critical moment in the event land-based fiber, copper and cable could be non-operational for weeks or months, please feel free to contact me directly, for further consultation.

Sincerely,

Dennis J. Savoie
Managing Partner

Case Studies: St. Bernard/Plaquemines/Calcasieu Parishes

13675 Coursey Blvd., Suite 915
Baton Rouge, LA 70817
(c) (225)-266-2978 (p) (226)-751-0898
dennis.savoie@cox.net