



CLEMIS

Radio Communication System (voice)

PROBLEM:
Police, Fire, and EMS are unable to communicate with one another.

SOLUTION:
Provide an interoperable radio system with a high level of coverage in Oakland County.

Our mission statement ...
To provide state of the art computer technology and related services to criminal justice and public safety agencies . . .

The new CLEMIS radio system is a state-of-the-art digital VoIP 800Mhz system.

The new radio system will provide coverage inside buildings.

Thirty-six transmitter sites are located throughout Oakland County for the new CLEMIS radio system.

CLEMIS is implementing a state-of-the-art county-wide, interoperable voice radio communication system for public safety.

In the mid-1990's, several emergency situations occurred in which multiple police, fire, and EMS agencies needed to communicate with one another. One of the most publicized situations was the shooting by a disgruntled employee at a plant in Wixom, during which many law enforcement agencies had to work together to locate and subdue the gunman, but were hampered because they could not communicate with each other. The public safety agencies in Oakland County use disparate radio frequencies, manufacturers, and technologies that do not allow their radios to "talk" to each other.

A committee from the CLEMIS leadership and membership was formed to obtain funding and frequencies for a radio system that would allow them to work independently for day-to-day situations, with the ability to communicate seamlessly during multi-agency emergencies.

Specifications were drafted for a digital 800 MHz system that would provide not only interoperability, but also a high level of capacity and coverage. The Oakland County public safety community identified a need for radio communications that would work not only from the emergency vehicles out-of-doors, but also from hand held radios while inside large buildings.

The CLEMIS voice radio system is designed to meet all of the requirements identified by the public safety officials of Oakland County. It is a state-of-the-art digital Voice over Internet Protocol 800 MHz system that will provide both interoperability and sufficient coverage inside of buildings, achieved by deploying thirty-six transmitter sites throughout the county. It will replace or supplement all of the existing disparate radio systems with new equipment, including mobile radios, hand-held radios, and dispatch center consoles for the participating agencies.

The CLEMIS voice radio project is a complex endeavor. Approximately six thousand law enforcement, fire service, and emergency medical service mobile and portable radios will utilize the system, as well as the dispatch centers and hospitals within Oakland County.