



TOWN OF HINGHAM SAVES BY SHARING PUBLIC SAFETY COMMUNICATIONS NETWORK WITH MUNICIPAL LIGHT DEPARTMENT

Challenges

Hingham, Massachusetts is rich in history and conservation land which can make two-way radio communications very difficult. Hingham's public safety communications needed improvement right around the same time the Municipal Light Plant was planning the build out of their radio network. The specifications set forth by Hingham's public safety board proposed town wide communications on a single network with seamless interoperability. The proposal included a radio system for the fire department, police department and a new town wide communications network for the HMLP. The HMLP two-way radio system was required to be interoperable with the other public safety departments and custom engineered infrastructure would have to make use of previously purchased portable analog radios by the police department.

Solutions and Results

Hingham's communications network shares common equipment and utilizes the latest broadband technology to make the most efficient use of working equipment. Additional sites were located throughout town to achieve reliable in-building radio coverage. The town wide communications is now on a single network and has seamless interoperability between town departments. The Municipal Light department received a state of the art digital simulcast communications system that will improve coverage and possesses characteristics of future communications networks. Hingham's communications network eliminates leased phone lines and gains capacity that can potentially be used by other town departments. The two-way radio network has been designed with full redundancy to eliminate any single points of failure ensuring more reliable communications for the first responders and E911 center. The new system incorporates the latest P25 technology with a fully redundant IP wireless broadband network. The unique self-healing and trouble reporting features will alert dispatchers and technicians if there is a problem with the system.



Chief's Summary

CUSTOMER NAME

- Hingham Fire Department
- Hingham Police Department
- Hingham Municipal Light Plant(HMLP)

INDUSTRY

- Public Safety
- Municipal

CHALLENGES

- Achieve reliable street level and in-building radio coverage
- Improve overall communications network
- Deploy P25 ready system for police
- Include HMLP digital simulcast
- Seamless interoperability
- Within budget

SOLUTIONS

- Share antenna sites and equipment shelters
- Utilize latest broadband technology
- Designed with full redundancy
- Shared wireless backbone

RESULTS

- Deployed network for all three departments
- Reliable in-building coverage
- Seamless interoperability
- P25 ready system for police
- Realized cost savings