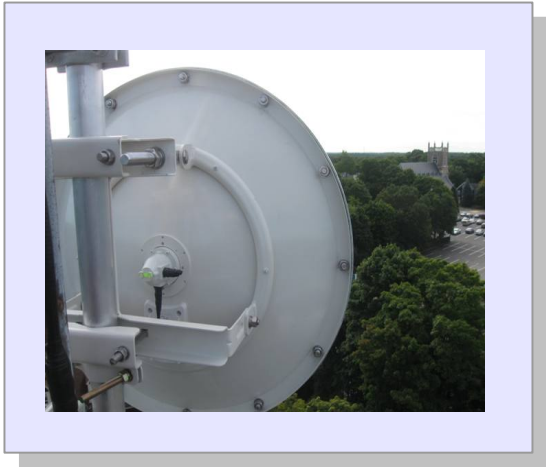


CASE STUDY

Whitman Fire Department, a Residential Builder and Radio Solutions Work Together to Save Money and Build a State of the Art Communications Network.



Challenges

As towns in Massachusetts continue to grow the communications needs of public safety departments are increasing. In the town of Whitman new residential condos were recently built in old factories where fire department's two way radios did not have sufficient in-building coverage. The fire department required the new building owner to be responsible for providing and maintaining radio coverage for the firefighters. The cost of installing and maintaining a bi-directional amplifier for the building owner was very expensive and did not address other radio coverage concerns the fire department was currently facing.

Chief's Summary

CUSTOMER NAME

- Whitman Fire Dept

INDUSTRY

- Public Safety
- Business

CHALLENGES

- Reliable street level and in-building coverage
- Satisfy fire dept radio signal thresholds
- Improve overall communications network
- Remain cost effective for town to own

SOLUTIONS

- Utilize microwave and town owned fiber
- Deploy additional sites
- Design a fully redundant network by eliminating any single points of failure.

RESULTS

- Deployed a custom state of the art analog simulcast communication network
- Realized cost savings to the building owner
- Satisfactory RF levels for fire department
- Additional sites acquired.

Solutions and Results

Together with a residential building owner, Whitman town officials and Radio Solutions, Inc. addressed multiple radio coverage concerns in key areas of town. It was concluded that for less than the cost of installing and maintaining a bi-directional amplifier, the building owner could fund a cutting edge simulcast radio system. The new radio system was designed to meet the fire departments specifications for in-building radio coverage and as an additional benefit improve performance from the communications system for the town. In order to remain cost effective for the town to own, the new radio system utilizes microwave and town owned fiber to form a robust communication network that can be easily built upon as radio communication needs of the town grow. Radio Solutions, Inc. deployed a custom analog simulcast communications network for Whitman Fire Department that utilizes the latest wireless broadband technology, 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 radio system will be aided by unique self-healing and trouble reporting features that alert dispatchers and technicians if there is a problem with the system.