TESSCO

Solution: City & Campus Networks

Application: Public Safety

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SUMMARY

Today, advanced wireless technology is playing an invaluable role in helping municipalities ensure public safety. All major departments, including fire, rescue, police, DOT and county offices, are improving their ability to communicate during times of crisis. Emerging wireless technologies also are helping them efficiently coordinate daily operations, deter and prosecute crime, and maximize the effectiveness of existing technologies.

Many organizations are struggling with antiquated technologies and are looking for ways to improve their networks. Increasing spectrum and frequency allocation allows for migration to newer technologies and applications. These networks need to provide interoperability and improve the efficiency of all who are using them.

FEATURES

- Voice and data solutions
- Extensive wireless communications
- Data services at a mobile unit
- Mobile video applications
- Two-way radio and RoIP
- Remote equipment control
- Mobile command centers and disaster response vehicles
- Security and safety for educational facilities
- Call boxes and easy access to assistance for public emergencies
- Remote video surveillance in high crime areas

BENEFITS THAT ENHANCE PUBLIC SAFETY

- Reduced response time and improved problem resolution
- Increased crime deterrence, criminal arrests, and conviction rates through video surveillance
- Better control and redirection of traffic during emergencies
- Compensation for insufficient manpower
- Improved communication between multiple public agencies
- Identification of serious criminals during routine traffic stops and checkpoints
- Protection of first responders through advanced data and video services

REAL WORLD EXAMPLES

Situation: A large city was facing a rising crime rate. The city needed a better way to protect its citizens, support its law enforcement personnel and increase conviction rates.

Problem: Due to budget constraints, this city could not increase the number of police officers in high crime areas; however, they did have access to grants and money allocated for technology improvements.

Solution: The city deployed a mesh network, which enabled them to install IP surveillance cameras with high-speed point-to-point (PtP) backhaul and recording capabilities. The camera enclosures also house secure wireless access points (APs), giving officers access to video feeds and enabling them to remotely monitor activity and control pan/tilt/zoom (PTZ) cameras. The system helps them respond rapidly to incidents and the recorded videos are used in court to secure convictions.

ADDITIONAL CONSIDERATIONS

- Is there interoperability between departments?
- What frequencies (licensed or unlicensed) are being utilized?
- How will remote systems be powered?
- Are connections between locations currently leased?
- Can fire, rescue, police and other organizations directly communicate?
- What is the distance between locations?
- What safety equipment and training are needed when working with RF equipment?

PRODUCTS

- Radios
- Antennas
- Access points
- Enclosures
- Routers
- Switches
- VoIP equipment
- Cable and connectors
- Installation tools and supplies
- Test equipment
- Video surveillance equipment – cameras, mounting hardware, video storage, software
- Power solutions and backup power