



New Jersey's Public Safety Network

Overview

JerseyNet is the Nation's first deployable wireless communications network dedicated for use by public safety agencies. JerseyNet addresses the challenge of unreliable wireless service for first responders by providing public safety personnel with access to a reliable, dedicated, high speed communications network.

Capabilities

JerseyNet provides constant communication service throughout three geographic regions in New Jersey: the Route 21 corridor, Camden, and Atlantic City. Deployable assets can also provide temporary communication services at any location in or around New Jersey. When on location, JerseyNet can facilitate interoperability among existing radios in use on scene, enable access to mobile applications used by first responders, and provide Internet access that is not dependent upon the existing commercial network.

JerseyNet can be deployed at the request of governments or public safety agencies within the State. It has been deployed to multiple events in and around New Jersey, including the visit of Pope Francis to Philadelphia, the Atlantic City Air Show, and the Miss America Pageant. JerseyNet can also be deployed for use at training or exercises upon request.

Background

Developed through the federal Broadband Technology Opportunities Program, JerseyNet was created as part of the First Responder Network Authority's (FirstNet) nationwide public safety broadband network. Today's wireless communications services used by public safety agencies are dependent upon commercial infrastructure, leaving first responders to compete with the general public for limited bandwidth. These services can also become unreliable in severe weather, in rural areas, or when physical infrastructure has been compromised. For police, fire, and medical services, unreliable wireless service can degrade critical communications and put lives at risk. JerseyNet provides new wireless capabilities to first responders while demonstrating the future potential of the national public safety broadband network.



The JerseyNet Tahoe, Cell on Wheels, and Van (left to right)

To Learn more:

Please contact the JerseyNet team to request information or training:

www.njohsp.gov/jerseynet | jerseynet@njohsp.gov



JerseyNet Technical Specifications

Thirty-three Cells on Wheels | Four Systems on Wheels
800+ Coverage Miles | 24/7 Network Operation Center

Cell on Wheels

Coverage:

- Band 14 coverage: three to five miles
- Three-sector MIMO antenna

Backhaul:

- 200 Mbps microwave link

Power:

- Self-contained generator or 220v shore power
- Three days of diesel fuel capacity
- 16 hours of UPS battery capacity



System on Wheels - Van

Coverage:

- Band 14 coverage: three to five miles
- Three-sector MIMO antenna

Backhaul:

- Satellite and WAN to the Garden State Network
- 2 Mbps over satellite
- 10 Mbps over WAN

Interoperability:

- Mutualink tactical nodes for radio interoperability
- Dual band mobile router and hotspot
- Deployment package of twenty Band 14 ruggedized devices

Power:

- Self-contained generator or 220v shore power
- 24 hours of fuel capacity
- 15 minutes of UPS battery capacity



System on Wheels - Tahoe

Coverage:

- Band 14 coverage: one to three miles
- Single-sector SIMO antenna

Backhaul:

- Satellite and WAN to New Jersey's Garden State Network
- 2 Mbps over satellite
- 10 Mbps over WAN

Interoperability:

- Mutualink tactical nodes for radio interoperability
- Dual band mobile router and hotspot
- Deployment package of twenty Band 14 ruggedized devices

Power:

- 270 Amp alternator or 110v shore power

