

# Kinston Department Of Public Safety



**CHIEF SCOTTY HILL**

Deputy Director



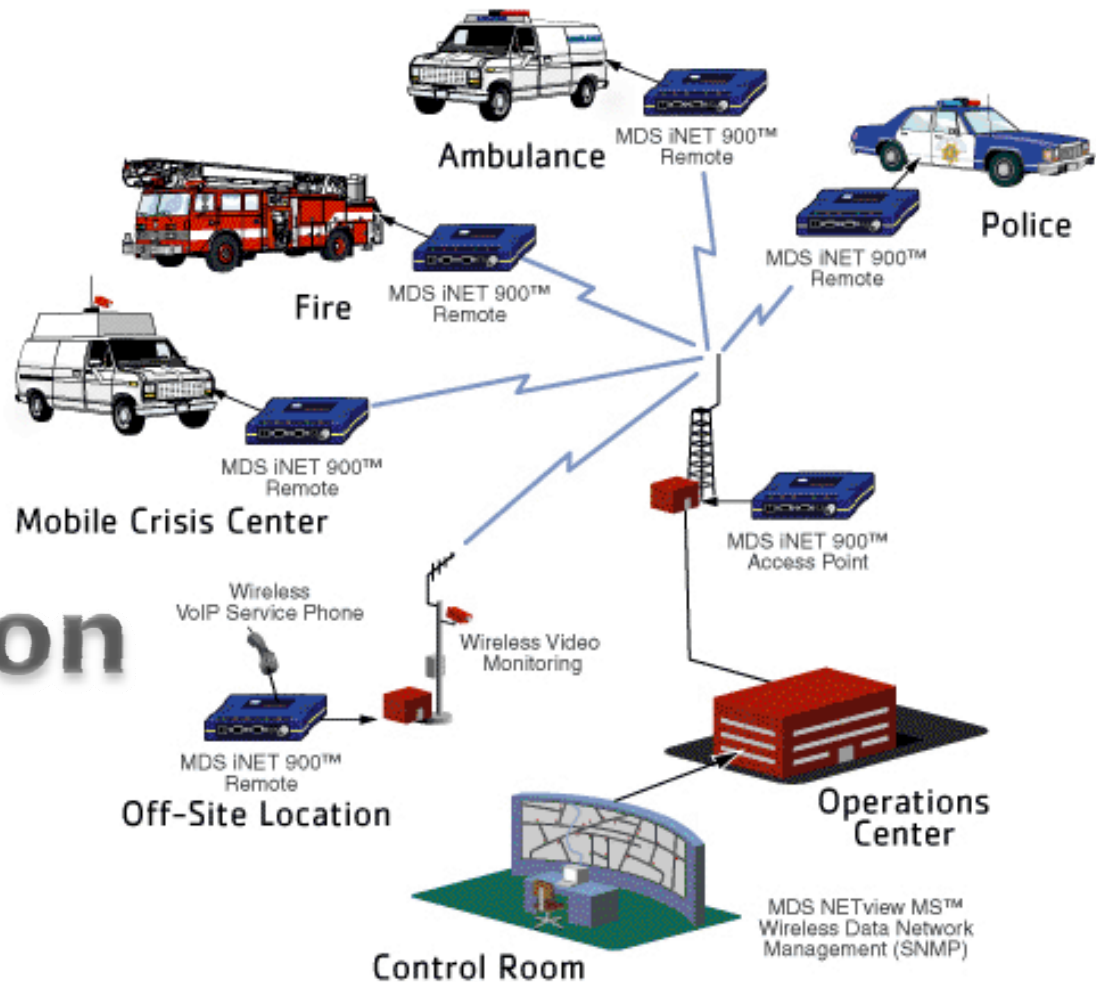
# The Issues

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- **The state database access was through the State Network (CJIN). This network was slow and significant restrictions limited what could run across the network .**
- **Could not use our current Trunk System for this network.**
- **Wanted access to our private network, RMS, wireless video cameras, as well as email and the Internet from the vehicles.**
- **Wanted to implement field base reporting & access to CAD at the 911 center.**
- **Wanted city-wide coverage with room for growth.**

# The Vision

## Full Integration



# DECISION

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**Met with IT staff from city & county, communication providers (vendors), 911 director, law enforcement reps, records supervisors, RMS provider, & senior communications technicians.**

**The  
solution  
?**



The BLUE Box

Lifetime firmware upgrades.

902-928MHz Frequency Hopping Spread Spectrum (10 Zones—8 Frequencies each)

## ***MDS iNET 900™***

Access points required for radios to communicate with each other.

Encryption: RC4 -128 \* new ones have (Inet2) AES-128

Serves as an Ethernet Bridge

Compression with Automatic Key Rotation every 1-2 minutes.

Serial ports & ethernet ports can be used simultaneously



**False login lockdown after 3 attempts**

**Approved remotes or access points by utilizing MAC addresses.**

**Not 802 compatible**

**Programming & Access via web interface or serial port**


**-90dbm for 512kbs -  
100dbm for 256kbs**

**Does not have quality of service but  
Motorola backhaul does**

***MDS iNET 900™***

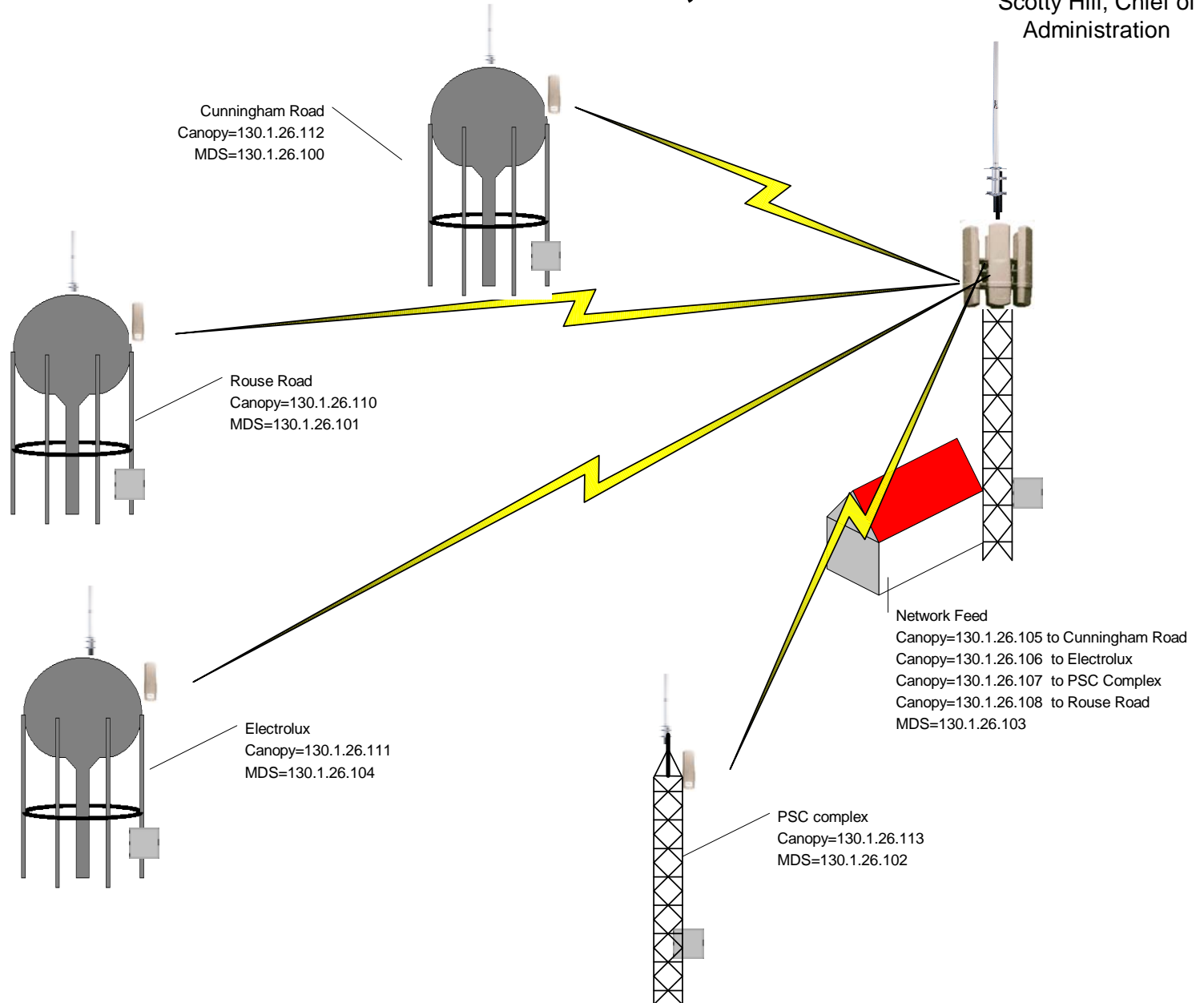


**No specialized  
software required –  
web browser or telnet  
session**

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- Kinston needed to cover a service area of approximately 20 square miles.
  - Needed 5 iNET Access Point to cover the area based on preliminary test.
  - We were able to utilize existing water tanks and towers.

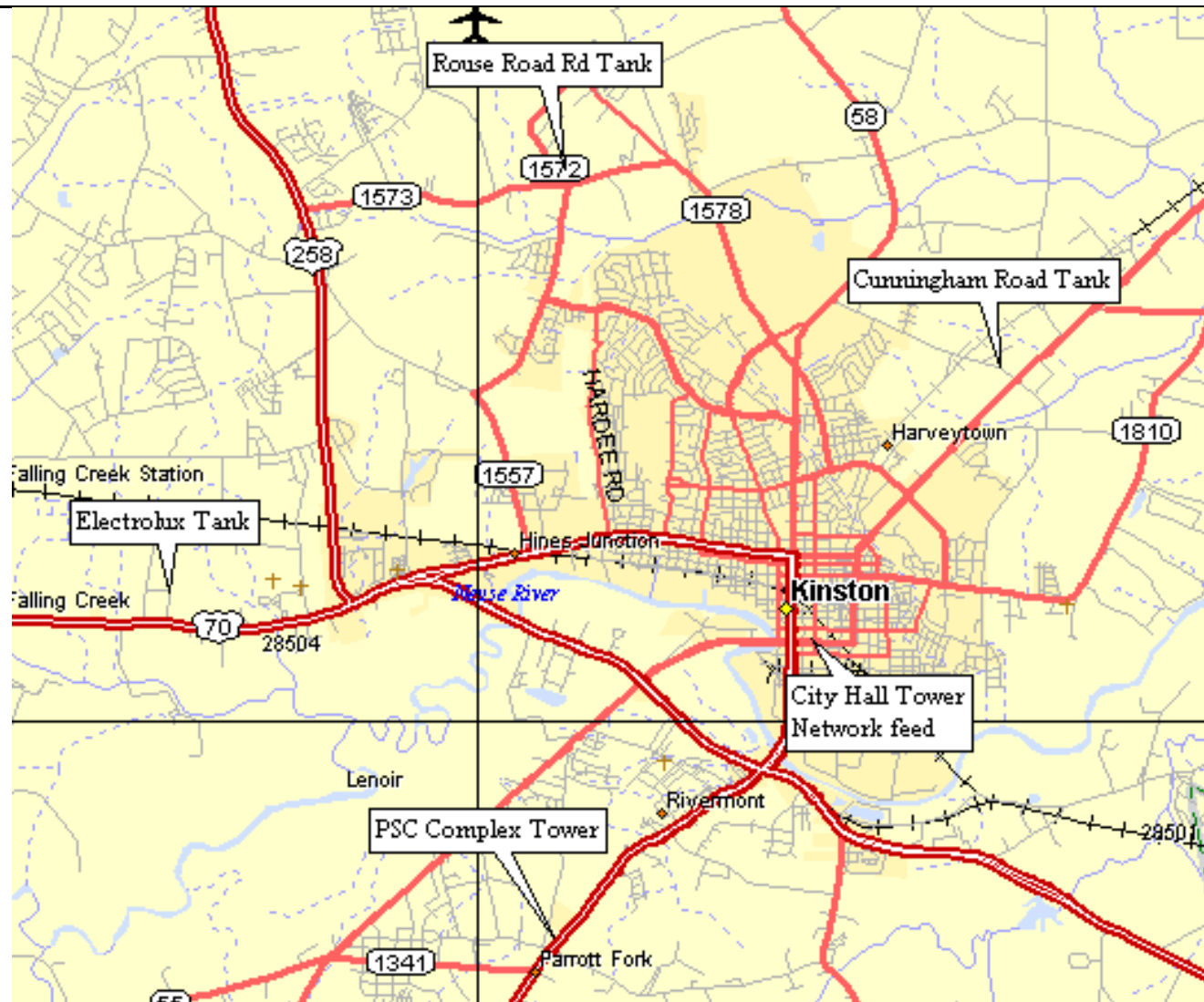
# Kinston, NC

Kinston Department of  
Public Safety  
Scotty Hill, Chief of  
Administration





# iNET Access Point Locations



Canopy™ Wireless  
Broadband Platform

Kinston, NC  
Typical Tank Site



6dB Omni  
Antenna

200 feet 7/8  
Coax

Canopy  
Subscriber  
Module

200 feet of  
Outdoor  
CAT 5

P70 Enclosure  
Will contain one iNet with  
power supply, Canopy power  
supply, Ethernet crossover  
cable and AC outlet

# Motorola Canopy





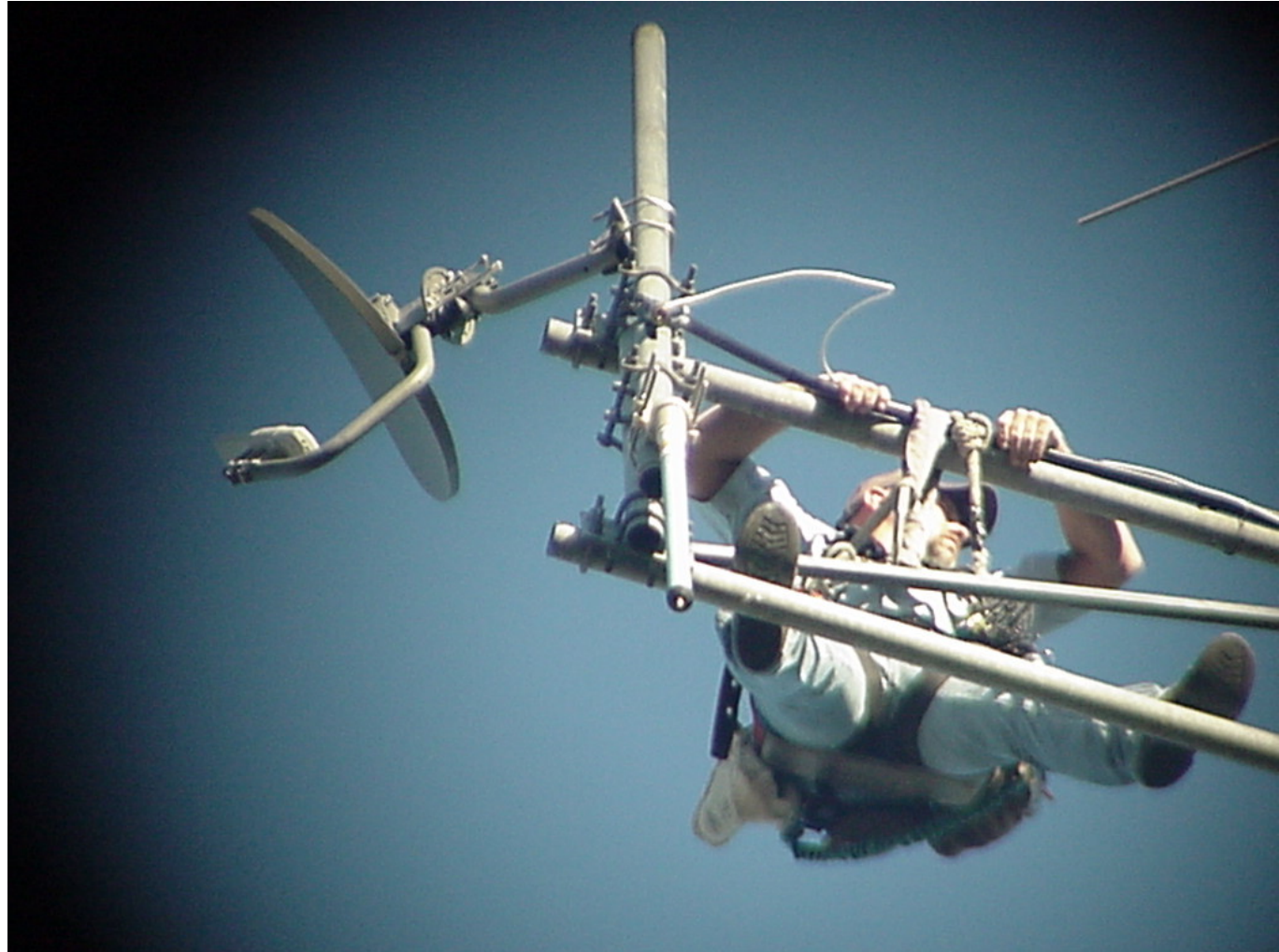
# Kinston PSC Complex Access Point Site

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# Canopy SM with Reflector iNET Omni Antenna

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# The Canopy CMM and an iNET AP

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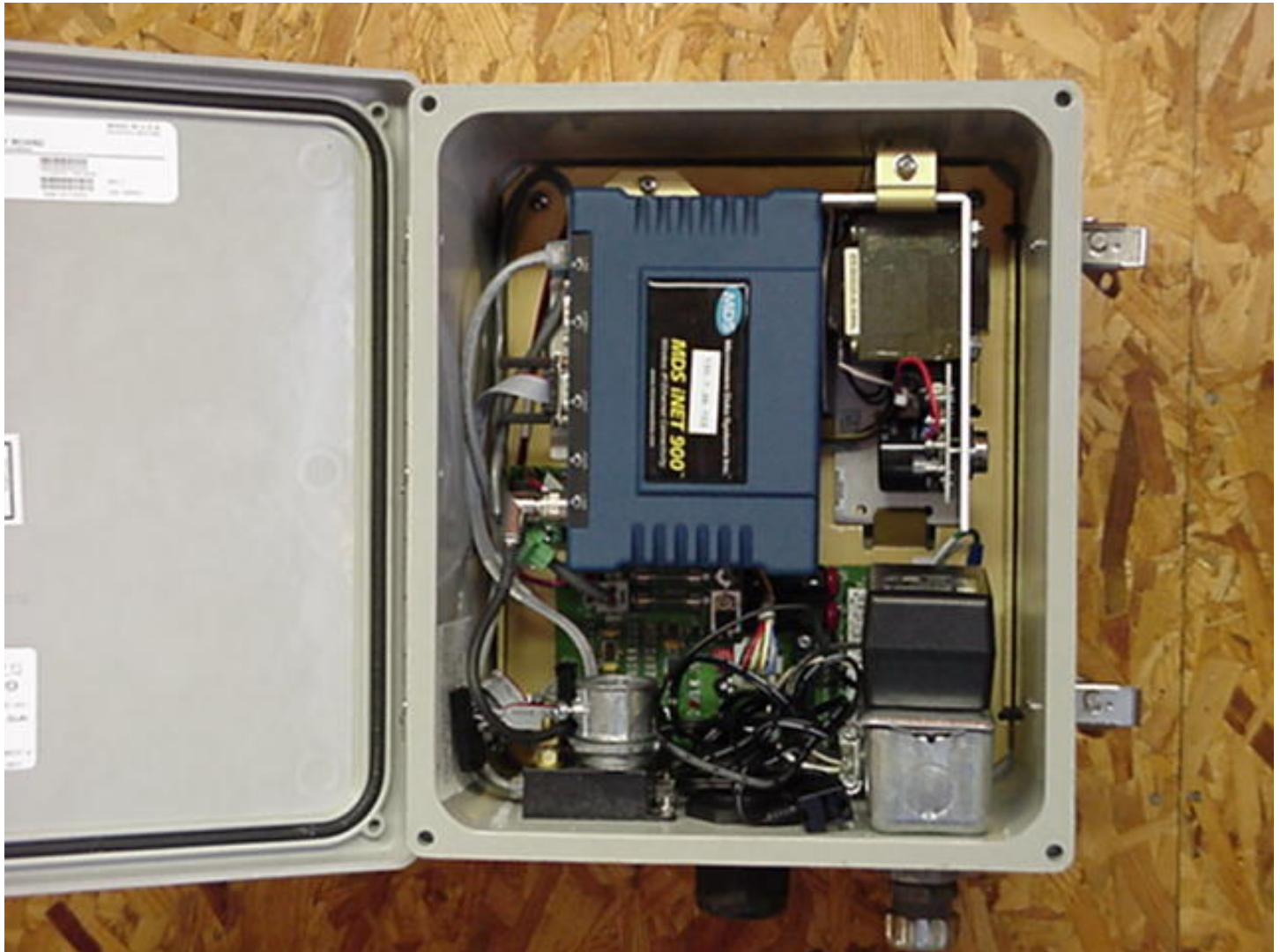
# Motorola Canopy Management Module

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# MDS iNET Access Point

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# iNET Installed in the Cruiser

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# Panasonic Laptop Connected To MDS iNET

This PD Cruiser can cruise the Web with a usable data rate of 340K!

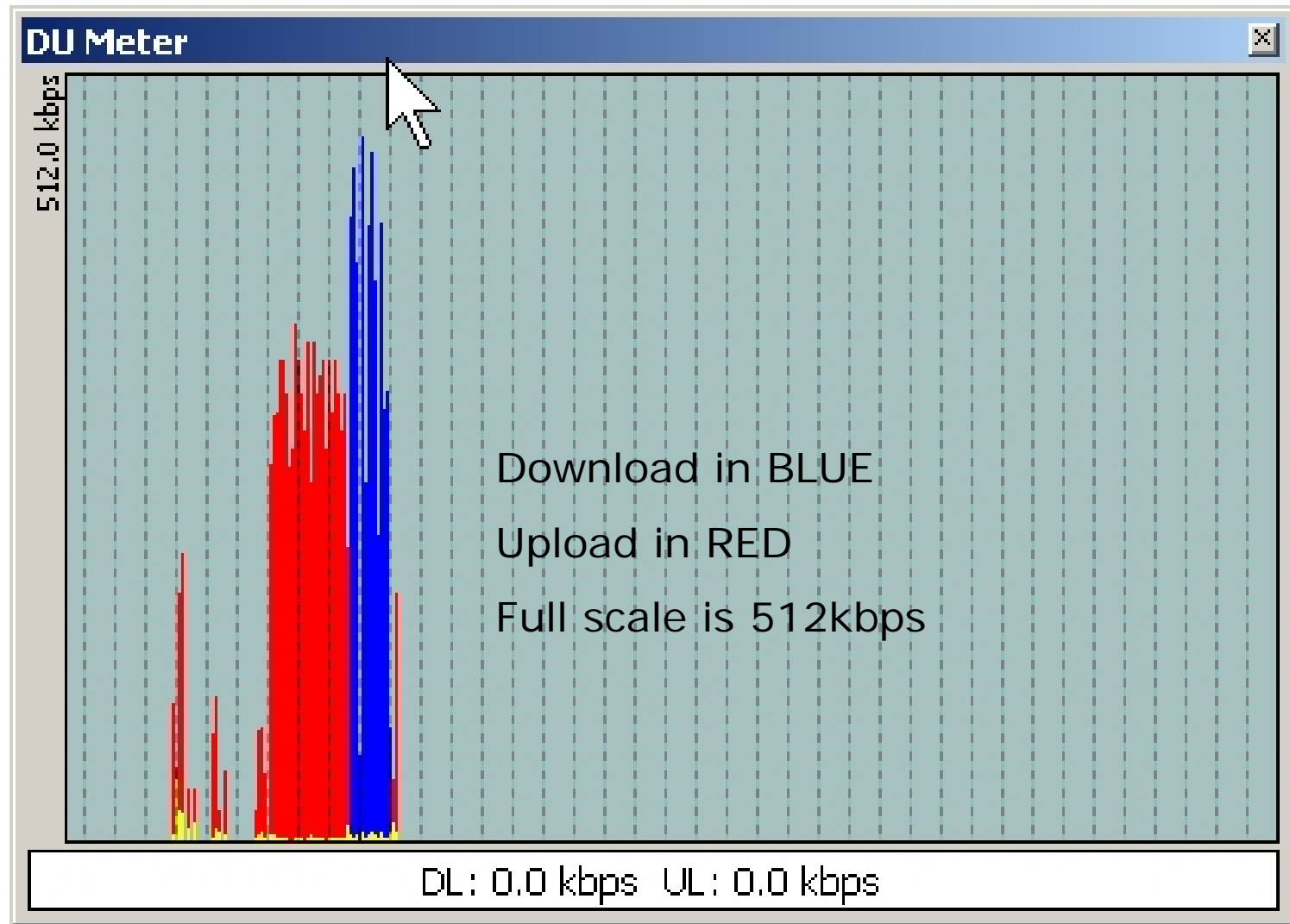


# 900 MHz 5dB Elevated Feed Antenna

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# Mobile Download and Upload Speeds





# Current USE

**DCI & NCIC Access**

**Field Base Reporting**

**CAD Access – Voiceless Dispatch**

**E-Citation & TRACs**

**Intranet – Policies, Emergency Response Plans, Employee Contact Info, Ban List, Recent Crime Data, Etc. (unlimited)**

**Chat, Instant Messaging, & Internal Email**

**Internet – AOC, Dept. of Corrections, Other Resources (unlimited)**

**Mobile GIS  
Includes  
Drawings  
Of Buildings  
& Floor Plans**



**Opened the  
door to endless  
possibilities**

**Wireless IP  
Cameras in  
High Crime  
Areas**

# FUTURE USE ?

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Access to school and business cameras



Monitor SWAT deployments via wireless IP camera



Integrated voice and data capabilities especially in NIMS incidents

# Questions

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