**GUERNSEY COUNTY SHERIFF'S OFFICE** Since 1810

Guernsey County Sheriff's Office
LTE Applications for Rural Law Enforcement
First Net Initial Consultation

11 June 2015

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## What are we doing:

From the cruiser we have access to

* ALERTS/DDTI E911 Mapping – Routing, mapping, AVL,
* RDP – Access to both Patrol and Correction Divisions
RMS, associated agency databases - arrest, use of
force, fuel log, golf cart inspection.
* ALERTS Sentinel– LEADS/NCIC interface, silent dispatch
* OHLEG – People, places, training, references
* ALPR – ELSAG NA license plate readers use and data
* Traffic Monitoring Camera – 1 active, more planned
* Live feed cruiser / UC footage – In TE now, 1 active, more
planned.
* School IP camera bank – Responding to active shooter
* School safety plans – Both OHLEG and advanced plans

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## How are we doing it?

Verizon Broadband (WWAN)

* Each cruiser is equipped with a Verizon 4G LTE jetpack
* Each jetpack has a static IP with unlimited data usage
* Each jetpack acts as a router which allows port forwarding
for use with specific devices, i.e. live cruiser cams
* Each jetpack is encrypted with security protocol (WPA,
WEP2, etc.) to prevent unauthorized access.
* A total of 10 other wifi enabled devices can connect to the
device at the same time.  Laptop, ipad, iphone, android,
IP camara,
* Each jetpack is equipped with an external antenna to
increase coverage area – 90% coverage in Guernsey
County

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## Verizon 4G LTE Jetpack

## Jetpack external antenna



## Static IP

What we have learned

•IP address is a group of numbers that identify a server, computer, or any device connected to a network.

•Main difference between a dynamic and static IP address is the dynamic can change when a device connects to a network.

•Static IP allows a device to connect to a network with a unique number that is not used by any other device and does not change.

## Static IP – Continued

•Since the jetpacks have a static IP address we simply enter the IP into any web browser to gain access to the device

•With port forwarding enabled – by adding a port number to the end of the IP we can route the browser to different devices

•Having a static IP in the cruiser allows us to control which IP addresses are granted access to the server.
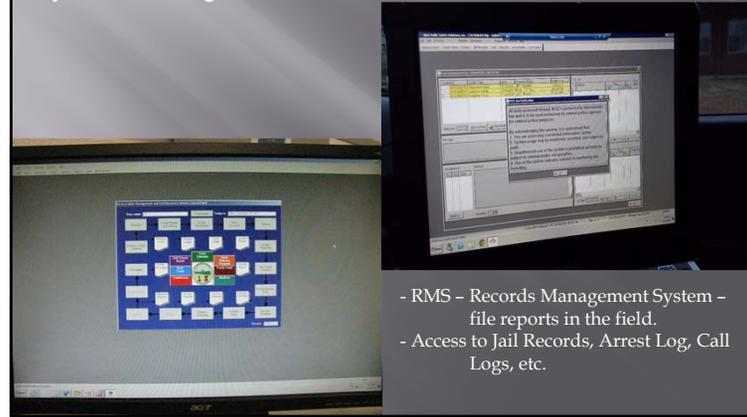
## Cruiser Cam – Live Feed

## DDTI Accuglobe E911 Mapping



## RDP – Remote Desktop Protocol

•Allows Deputies in the field to access programs remotely as if they were working on a workstation at the office.



- RMS – Records Management System – file reports in the field.
- Access to Jail Records, Arrest Log, Call Logs, etc.

## OHLEG -



## Traffic Camera

•Wireless IP cameras powered by solar/battery using broadband technology.
•Access in Dispatch and in the field with plans to expand
•Capable of recording video on demand or continuous recording
•Motion detection, infrared to 150', 640x320 resolution.
•Using H.264 codec for high compression.

## Continued Planning

•Continuous live cruiser feed into dispatch.

•Selected live body cam feed into dispatch.

•Scalable RMS to include written statements in digital format from the field.

•Electronic citation modules with digital upload to court.

•Expand the capabilities and use of a UC deployable asset to trouble areas.

•How can we integrate what we currently do with NG911?

## Where does First Net stand ?

•For First Net to be plausible for us they have to provide
  •Comparable speeds of LTE

  •Assurance of bandwidth regardless of volume or situational status

  •Comparable data limits

  •Comparable, if not lower, pricing

  •Comparable coverage in SE Ohio, which is not easy

  •Ability to program – port forwarding, external antennae etc.

  •Excellent technical support 24/7

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