Welcome

GIS Applications for Wireless

Bob White
Plant Equipment, Inc.
Co-Chair, NENA GIS Study Group

E9-1-1 Mapping Issues

- Wireless FCC 99-245
 - Phase I
 - Phase II October 1, 2001
 - http://www.fcc.gov/Bureaus/Wireless/News_Releases
 /1999/nrwl9040.html
 - For network-based solutions:
 - 100 meters for 67 percent of calls,
 - 300 meters for 95 percent of calls.
 - For handset-based solutions:
 - 50 meters for 67 percent of calls,
 - 150 meters for 95 percent of calls.



GIS/Mapping Issues with E9-1-1

- Reverse Geocoding for Wireless
- Locate Address /Intersection
- Locate Common Place
- Visual Recognition of Boundaries
- Drive Directions
- Unit Recommendation by Shortest Path
- Coordinate Based Map





Types of Mapping Applications

- Data Maintenance Application
 - Create base layers
 - Update layers with changes
 - Add new roads
 - change ESN Boundaries
 - change road names





Types of Mapping Applications

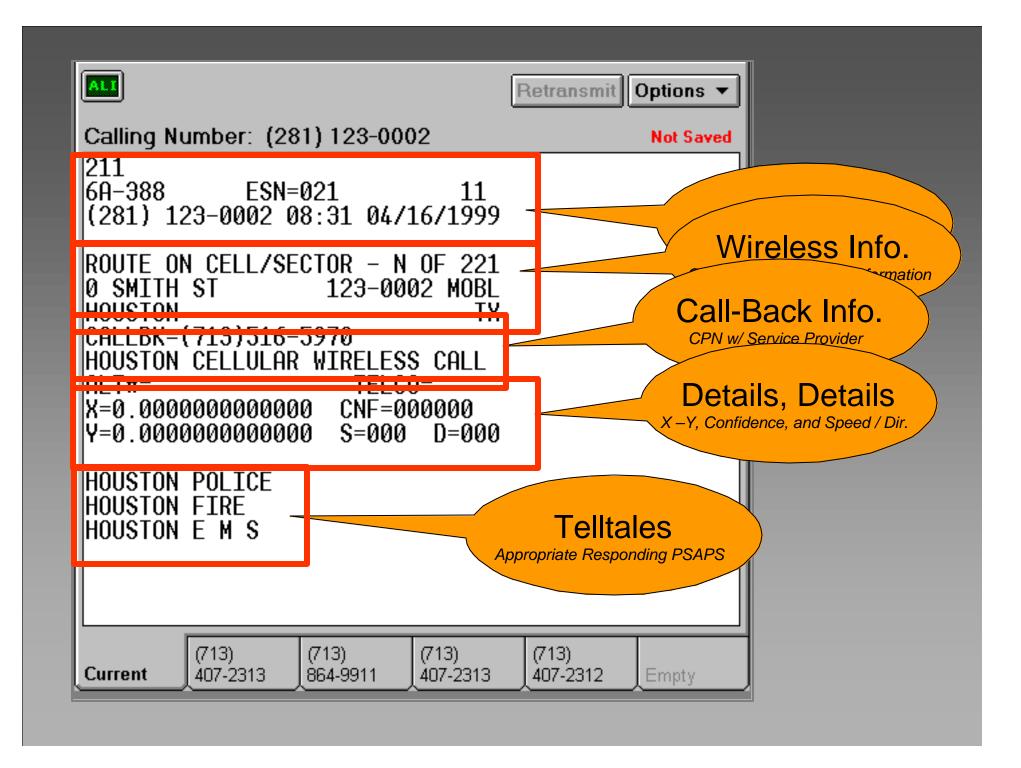
Map Display

- Multi-system interface capable
- CPE independent
- Coordinated based
- Utilizes all wireless data



Let's take a look at a wireless call





Managing the Map

- Map data maintenance
- MSAG maintenance
- MSAG validation with Telco
- Map books







Making an evaluation...

- Wireless / Phase I & II
- Multi-system interface
 - Telecom
 - CAD
- Integration /3rd party support
 - Message switch, AVL, etc...
- Integrated Mapping
 - Complete call-to-car mapping
- Intuitive Easy to use
 - Fast, accurate, updated
- Training /Service /Support
 - Migration and maintenance is essential



Times Are Changing... The 9-1-1 desktop is evolving!



CTI, Radio, Audio, TTY, Mapping, MIS, etc...



Questions? Comments?

Your feedback is essential!

Thank You for Your Time!

Please feel free to contact me: bwhite@peinc.com

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