Wireless E9-1-1 Implementation Plan

CPE, CAD and GIS Requirements for Wireless E9-1-1

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CPE, CAD & GIS Requirements

What is CPE, CAD & GIS ?

What will be required for each ?

What do you need to do ?

What is CPE, CAD & GIS

- ## CPE
  - Typically referred to as 9-1-1 CPE
  - Includes
    - 9-1-1 ANI/ALI Controller
    - ANI/ALI Display (IWS or other)
    - Numerous interfaces to other systems/applications

- ## CAD
  - Computer Aided Dispatch
  - Includes
    - Map, Mobile and RMS
    - Numerous Interfaces to other systems/applications

What is CPE, CAD & GIS

- ## GIS

  - Graphical Information System

  - Typically includes

    - Map Data

    - Map Management Tools

    - Map Display

What will be required ... CPE

- **ANI/ALI Controller**
  - 10/20 Digit ANI
  - Location Information
  - New ALI Database output/input
  - New CAD output
  - New Map output
  - New Call Detail Record output

What will be required ... CPE

- ## ANI/ALI Controller

  Ability to

    - Support simultaneous solutions
      - CAS, NCAS and hybrids

    - Support multiple LDT solutions
      - Handset or network based, or hybrids

    - Interface with "New" network protocols
      - ISDN, IP Telephony, others?

What will be required ... CPE

- Alternate data collection/reception methods

  - Non-traditional databases

  - Multiple databases

  - Automatic queries dependant upon call type

    - Trunk group, ANI or ID Digit

  - PSAP dependant selective look-up

What will be required … CPE

Call taker features

Ability to

- Differentiate the various numbers presented

- Manually query the LDT

- Manually query different databases

- See calls before they are answered
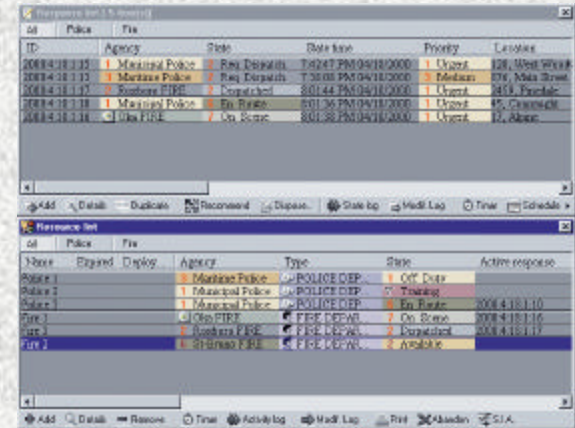
- Call back with ease

What will be required … CAD

- ## CAD Requirements

  - Ability to

    - Accept new ALI interface

    - Receive additional information from 9-1-1 CPE

    - Parse ALI information

    - Differentiate the various number presented

What will be required ... GIS

- **Map Data**
  - Determine
    - If you need a map
    - Accuracy required
    - Who will maintain
  - Need for a base map
  - Remember – Garbage In ✎ Garbage Out

What will be required … GIS

- **Map Management Tools**
  - Ability to
    - Modify existing data
    - Add additional information
    - Import additional information/layers
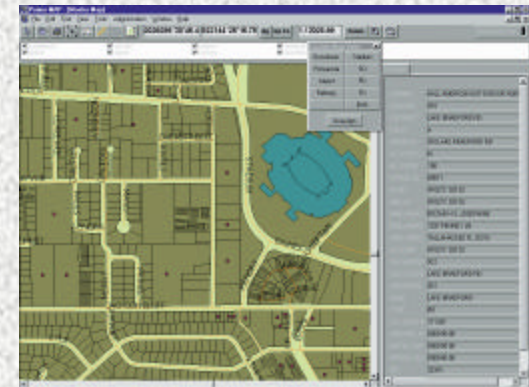   - Import various formats of data

  - Remember – Garbage In ✍ Garbage Out

What will be required ... GIS

- **Map Display**

    – Interactive with 9-1-1 CPE

    – Integrated with 9-1-1 display, IWS,

      CAD or Stand alone

    – Shared or separate screen

    – Ability to support different GIS data formats

    – Configurable to users needs

What will be required ... GIS

- **Map User Features**
  - Ability to
    - See all PSAP's calls
    - See calls prior to answer
    - Access detailed call location information
    - Zoom and pan
    - Access multiple layers of information
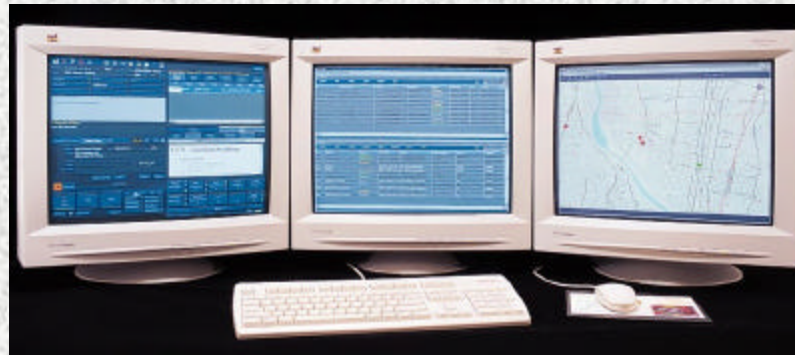   - Search for locations

Finally … what you must have

- – **Delivery of wireless location information**
- – **Equipment that meets the requirements**
- – **Funding**

Any Questions ?

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Thanks for your time …