

Minimum Requirements – GIS Mapping

Software Features

911 Functionality

- Extracts land line or wireless call data from ALI data burst and pinpoints call location on screen without user intervention. Land line calls are pinpointed by geocoding the address against street centerline or point address data. Wireless calls are pinpointed using the X, Y coordinate data from the ALI.
- Geocoding functions should be able to handle missing addresses and alternate street names.
- Original ALI data can be viewed for each call.
- Active calls are logged on-screen; user can zoom to previous call location and retrieve data while it is active.
- General location information is determined for each call – i.e. closest intersection, closest landmark. For wireless calls, a closest address will be determined using reverse geocoding.
- Latitude/longitude coordinates can be determined for any location on the map. Must be able to manually pull up a latitude/longitude and or street address.

Basic Map Functionality

- Can use as many map layers as is practical without cluttering the screen. User can turn map layers on and off as desired.
- User can interactively pan around the map and zoom in and out as desired.
- Features in map layers can be identified.
- Distance can be measured.
- Map screen can be printed.
- Software can display and use all data products developed through the State of Tennessee Base Mapping program. This includes raster data (aerial photography) as well as vector data sets (parcels, roads, water features).

Data Requirements

Minimum Map Layers

- Street centerlines with complete address attributes
- Point landmarks – churches, schools, hospitals, cemeteries, government buildings
- Area landmarks – parks, airports, military bases
- Fire Hydrants and Stations
- Water features
- Administrative boundaries – city, county, state
- ESN boundaries
- USGS Digital Ortho photos (available for entire state – photography from 1997/98)

Maintenance and Update

To qualify for reimbursement, a plan for updating map layers must be submitted. This plan may include:

- Work flow summary of how addresses are assigned & worked into an update process

- Method of update: in-house, contracted, or purchased from data vendor
- Personnel responsible for update
- Minimum update cycle = quarterly