Next Gen 911 GIS Update

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911 Transformation Journey

Yesterday
Location-CENTRIC

Today
Technology-CENTRIC

Enablers:
- Local Public Safety Resources
- Vendor Proliferation
  Benefit:
  Local control

Vendor consolidation
Solidification of standards
Statewide structure
Benefit:
Variety of options,
Consistency of delivery

Enablers:
- Ubiquitous IP,
- GIS routing,
- Call analytics,
- Enhanced regional cooperation,
- Enhanced citizen demographics
Benefit:
User empowerment,
Staffing flexibility,
Lower costs

Tomorrow
Citizen-CENTRIC
NC NG911: Project Progress

• Highlights
  • On track to achieve migration goal of 40 PSAPS in production on the NG911 network by EoY 2019
  • 90%+ Project participation rate among approved PSAPs and growing
  • Project goal is 100% migration to ESINet by EoY 2021

NC NG911 Deployment Map
Live status of project updated frequently on website that will include GIS i3 migration as the project matures
NC NG911: The GIS view

State of NC ESINet (AT&T)

911 Callers in the State of NC

Combines and Normalizes Local Data to obtain 98%+ Accuracy

0.3 second typical call completion time

GIS Data Repository
Local GIS Data Managed by GeoComm

AT&T ECRF/LVF Data Repository
a/k/a EGDMS Enterprise Geospatial Database Management System

Allows “What If” Policy Routing Rules

NG 911 Call Delivery:
Voice
SMS Text
R/T Video
Pictures

PSAPS

Maps
Caller Identification
Carrier Identification

Combines ANI/ALI, MSAG, & Geospatial to 98%+ Accuracy Level

NC NG911: The GIS view

Where is the Caller?

What PSAP gets the call?

911 Callers in the State of NC
NC NG911: The GIS view, con’t

GIS Vendor Data repository of local entity data sets

Raw data sets in local formats

Refined local data sets

Combined Data Set @ 98% accuracy level

GIS Vendor is single Data Set output to AT&T

AT&T EGDMS Data repository of local entity data sets

AT&T ECRF/LVF FUNCTIONS

Demarcation point

State of NC GIS integration plan for NG911 i3 call routing
NC NG 911: GIS Vendor Selection

Program Timeline

Procurement

- 1st Qtr. 2018: Bid development and bid solicitation
- 2nd-3rd Qtr. 2018: Bid receipt (6 respondents), bid evaluations, vendor presentations
- 4th Qtr. 2018: Bid finalists, phase two technical review and realignment
- 1st Qtr. 2019: BAFO and bid award to GeoComm

Project Initiation

- Project Kickoff for NG911 GIS data assimilation: April 16, 2019
- Pilot PSAP GIS coordination work began May 3rd with kickoff call
- Regional Kickoff sessions begin June 4th through June 25th
## NC NG911:GIS Vendor Deliverables

<table>
<thead>
<tr>
<th>Deliverable</th>
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<tbody>
<tr>
<td><strong>GIS Managed Services system: GIS Data Hub</strong></td>
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<tr>
<td>• Initial system installation and configuration</td>
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<tr>
<td>• Ongoing quality control feedback loop – GIS data and ALI/MSAG synchronization</td>
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<tr>
<td>• Ongoing statewide aggregated dataset updates and changeset deliveries to AT&amp;T</td>
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<tr>
<td><strong>Educational sessions/trainings by regions</strong></td>
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<tr>
<td><strong>Onsite meetings with each individual jurisdiction</strong></td>
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<tr>
<td><strong>Stitch point layer along boundaries between jurisdictions</strong></td>
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<tr>
<td><strong>Optional:</strong></td>
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<tr>
<td>• Cell sector and cell site layer for the State depending on need and availability of resources</td>
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<tr>
<td>• GeoComm Maintainer ArcGIS Desktop toolbar</td>
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<tr>
<td>• GeoComm Resolver ArcGIS Desktop add-in for QC error management</td>
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QUESTIONS?