

Attachment E-1- NG911 GIS Pricing sheet.

State of Oklahoma Emergency Management NG9-1-1 GIS data migration			
Section	Resource Title or Role	Rate per Hour	Estimate LOE
Initial Assessment of GIS data and Capabilities	GIS Specialist I	\$114	TBD; based on Scope of Work
	GIS Specialist II	\$154	TBD; based on Scope of Work
	GIS Specialist III	\$176	TBD; based on Scope of Work
	GIS Analyst	\$189	TBD; based on Scope of Work
	GIS Manager	\$204	TBD; based on Scope of Work
	GIS Project Manager	\$204	TBD; based on Scope of Work
Mandatory Minimum Requirements for GIS Data Remediation	GIS Specialist I	\$114	TBD; based on Scope of Work
	GIS Specialist II	\$154	TBD; based on Scope of Work
	GIS Specialist III	\$176	TBD; based on Scope of Work
	GIS Analyst	\$189	TBD; based on Scope of Work
	GIS Manager	\$204	TBD; based on Scope of Work
	GIS Project Manager	\$204	TBD; based on Scope of Work
Validation of Final Data	GIS Specialist I	\$114	TBD; based on Scope of Work
	GIS Specialist II	\$154	TBD; based on Scope of Work
	GIS Specialist III	\$176	TBD; based on Scope of Work
	GIS Analyst	\$189	TBD; based on Scope of Work
	GIS Manager	\$204	TBD; based on Scope of Work
	GIS Project Manager	\$204	TBD; based on Scope of Work
On-site GIS Services	GIS Specialist I	\$177	TBD, based on Scope of Work
	GIS Specialist II	\$218	TBD, based on Scope of Work

	GIS Specialist III	\$240	TBD, based on Scope of Work
	GIS Analyst	\$253	TBD, based on Scope of Work
	GIS Manager	\$268	TBD, based on Scope of Work
	GIS Project Manager	\$268	TBD, based on Scope of Work
Other	GIS Specialist I	\$114	TBD; based on Scope of Work
	GIS Specialist II	\$154	TBD; based on Scope of Work
	GIS Specialist III	\$176	TBD; based on Scope of Work
	GIS Analyst	\$189	TBD; based on Scope of Work

	GIS Manager	\$204	TBD; based on Scope of Work
	GIS Project Manager	\$204	TBD; based on Scope of Work
Supplemental pricing	Resource Title or Role	Rate (hour, mile, etc)	
Field work	GIS Fieldwork Technician	\$176/Hour	LOE TBD; based on Scope of Work; Does not include travel expenses
Maintenance tools	GeoComm Maintainer GIS Data Manager One Time Training Service	\$1,700/course	Web-based training
	GeoComm Maintainer GIS Data Manager Annual Term License Fee	\$2,070/Workstation	One (1) year term licensing subscription; price per workstation
	GeoComm Maintainer MSAG Manager Annual Term License Fee	\$690/Workstation	Requires GeoComm Maintainer GIS Data Manager; One (1) year term licensing subscription; price per workstation
	GeoComm Contributor Non-Recurring Fee	\$5,000	One-time fee per jurisdiction; includes configuration and training; services provided remotely
	GeoComm Contributor Feedback Annual Subscription	\$344/user	One (1) year software as a service subscription per user
	GeoComm Contributor Change Requests Annual Subscription	\$1,609/user	One (1) year software as a service subscription per user
	GeoComm Contributor Editing Annual Subscription	\$2,299/user	One (1) year software as a service subscription per user
	GeoComm Discrepancy Resolution One time configuration and training services; Remote Service	No Charge with Purchase of Contributor	No Charge with Purchase of Contributor
	GeoComm Discrepancy Resolution Annual; Subscription	\$2,299/user	One (1) year software as a service subscription per user

GeoComm GIS Data Hub Base System Annual Subscription: QC Processing, Validation, and Reporting; Supporting single entity population of 500,001-750,000; Up to daily submissions	\$13,679/ Jurisdiction	One (1) year software as a service subscription; Supporting single entity population of 500,001-750,000; Up to daily submissions
GeoComm GIS Data Hub GIS Data Aggregation Annual Subscription; Supporting single entity population of 0-50,000; Up to daily submissions	\$3,398/ Jurisdiction	Requires GeoComm GIS Data Hub Base Subscription; One (1) year software as a service subscription; Supporting single entity population of 0-50,000; Up to daily submissions
GeoComm GIS Data Hub GIS Data Aggregation Annual Subscription; Supporting single entity population of 50,001-100,000; Up to daily submissions	\$6,797/ Jurisdiction	Requires GeoComm GIS Data Hub Base Subscription; One (1) year software as a service subscription; Supporting single entity population of 50,001-100,000; Up to daily submissions
GeoComm GIS Data Hub GIS Data Aggregation Annual Subscription; Supporting single entity population of 100,001-250,000; Up to daily submissions	\$10,195/ Jurisdiction	Requires GeoComm GIS Data Hub Base Subscription; One (1) year software as a service subscription; Supporting single entity population of 100,001-250,000; Up to daily submissions
GeoComm GIS Data Hub GIS Data Aggregation Annual Subscription; Supporting single entity population of 250,001-500,000; Up to daily submissions	\$13,594/ Jurisdiction	Requires GeoComm GIS Data Hub Base Subscription; One (1) year software as a service subscription; Supporting single entity population of 250,001-500,000; Up to daily submissions

GeoComm GIS Data Hub Base System Annual Subscription: QC Processing, Validation, and Reporting; Supporting single entity population of 500,001-750,000; Up to daily submissions	\$13,679/ Jurisdiction	One (1) year software as a service subscription; Supporting single entity population of 500,001-750,000; Up to daily submissions
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	GeoComm GIS Data Hub GIS Data Aggregation Annual Subscription; Supporting single entity population of 500,001-750,000; Up to daily submissions	\$23,789/ Jurisdiction	Requires GeoComm GIS Data Hub Base Subscription; One (1) year software as a service subscription; Supporting single entity population of 500,001-750,000; Up to daily submissions
	GeoComm Submitter One time configuration and training services; Remote Service	Hourly rate based on SOW	LOE TBD; based on Scope of Work
	GeoComm Submitter Annual Subscription	\$199/user	One (1) year software as a service subscription
	GeoComm GIS Data Hub GIS Map Data Package Output One Time Fee	\$616	One time setup fee per map package output meeting specific CAD/9-1-1 mapping software specifications
	GeoComm GIS Data Hub GIS Map Data Package Output One Annual Fee	\$2,464	Annual fee for quarterly map package delivery; Customer responsible for provisioning to their applications.
Maintenance Service contract	GIS Specialist I	\$114	TBD; based on Scope of Work
	GIS Specialist II	\$154	TBD; based on Scope of Work
	GIS Specialist III	\$176	TBD; based on Scope of Work
	GIS Analyst	\$189	TBD; based on Scope of Work
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10 Offer of Value-Added Products and/or Services

Value-Added Optional Products and Services

The following value-added optional products and services are available to source jurisdictions to assist in data verification and ongoing GIS data maintenance tasks:

- Field Verification Services
- Ongoing GIS Data Maintenance Options
 - Option One: GIS Data Management Tools:
 - GeoComm Maintainer GIS Data Manager
 - GeoComm Maintainer MSAG Manager
 - GeoComm GIS Data Hub
 - GeoComm Submitter
 - GeoComm Contributor
 - Discrepancy Resolution
 - Option Two: GeoComm GIS Data Maintenance professional services:

A description of each follows.

Field Verification Services

GeoComm may provide field verification services to visually confirm the accuracy of the site/structure address point layer. This service would include verifying addressing information/attributes and/or confirming the existence or placement of a structure. Address points requiring field verification services will be identified throughout the site/structure address point layer update process described above. A field verification plan, including estimated hours for the service, will be determined on a case-by-case basis, per local jurisdiction.

Ongoing GIS Data Maintenance Options

To ensure the ongoing accuracy of updated GIS data, GeoComm offers two options for local entities to maintain their data. The first option is for local GIS staff to leverage GeoComm's GIS Data Management tools suite to maintain their data. The second option is to contract with GeoComm to maintain local-level GIS data on the jurisdiction's behalf. A brief description of each option follows.

Option One: GIS Data Management Tools

GeoComm has developed a GIS Data Management tools suite to streamline GIS data maintenance tasks. Local jurisdictions could utilize some or all these tools to more efficiently and easily maintain GIS data for NG9-1-1.

One time, web-based, configuration and training, professional services would be provided with each tool.

Application	Description
GeoComm GIS Data Hub	<ul style="list-style-type: none"> • A cloud-hosted system accessed over the internet • Supports ongoing submissions of your GIS datasets for data processing, validation, quality control (QC) reporting, and aggregation into regional and state coverage area datasets • Accepts GIS data in its native format, transforms it into a common GIS data schema (such as for ECRF and LVF), and processes it through configured QC checks • Provides actionable reporting to assist with resolving errors and inconsistencies within the data • Capable of generating 9-1-1 mapping and Computer Aided Dispatch (CAD) system-specific map packages in formats required of these applications for provisioning
GeoComm Contributor	<p>Contributor is a cloud-native GIS data collaboration tool that empowers users to avoid inconsistent GIS data and take their data to the next level of accuracy. Offered at three different subscription levels, Contributor accommodates various skill levels and data collaboration needs.</p> <ul style="list-style-type: none"> • Contributor Feedback is designed for GIS data users that have valuable input regarding data modifications. Feedback gives users an easy way to insert a point denoting the feedback location and complete a form adding narrative about the submitted update. • Change Requests Users: Builds on the functionality within Contributor Feedback; designed for GIS data users that are active in data collaboration. Change Request gives users the ability to mockup an edit within the data using time-saving tools such as auto attribution or address recommendation. • Editing Users: Provides all of the functionality found with Feedback and Change Requests; designed for GIS data maintainers that are data authorities within their region and who desire an easier way to update their GIS data. Editing gives maintainers an ability to read and work Feedback and Change Requests submitted by users on their GIS data.
GeoComm Discrepancy Resolution	<ul style="list-style-type: none"> • Esri ArcGIS Pro desktop add-in tool designed to read and display GIS discrepancy reports from GeoComm’s NENA standards-based discrepancy reporting web service. • GIS data maintainers can inspect and resolve GIS discrepancy reports generated from other GeoComm solutions, including Contributor.

Application	Description
	<ul style="list-style-type: none"> Discrepancy Resolution provides functionality for users to mark discrepancy report work items as 'pending', 'completed', 'declined', or 'clarification needed' along with providing comments that are automatically attached to the discrepancy report and stored for each status change. When used with GeoComm Contributor, Discrepancy Resolution offers enhanced functionality to assist in the resolution of Feedback and GIS Change Request submissions.
GeoComm Submitter	<ul style="list-style-type: none"> A GIS Data Hub companion application Provides an additional method to easily access GIS Data Hub and submit data in the fewest steps possible An add-in for Esri ArcGIS Desktop
GeoComm Maintainer ArcGIS Desktop	<ul style="list-style-type: none"> An Esri-based GIS Data Management toolbar geared specifically for updating GIS data layers used in public safety mapping applications, such as road centerlines, address points, wireless cell sectors, community boundaries, and emergency response zones Deployed directly within your ArcGIS Desktop environment, exposing features and functions to increase the efficiency of GIS data editing tasks QC audits to help keep data synchronized and free of errors
GeoComm Maintainer MSAG Manager	<ul style="list-style-type: none"> Add-on module to GeoComm Maintainer Used for building and updating the MSAG A means to better manage the MSAG and GIS data synchronization levels

Option Two: GeoComm GIS Data Maintenance Professional Services

In lieu of maintaining GIS data at the local level, entities may contract with GeoComm to maintain your NG9-1-1 data. We offer multiple GIS data maintenance options which entities could contract for. They include:

Maintenance Service	Description
GIS Data Layers	<p>GeoComm will use provided resources, including digital copies of the MSAG and ALI database, to update GIS data layers for location validation in 9-1-1 systems. As needed, GeoComm will:</p> <ul style="list-style-type: none"> • Update the Road Centerline layer with additions, deletions, and corrections • Update the Site/Structure Address Point layer with additions, deletions, and corrections • Update Service Boundary Layers (PSAP, police, fire, EMS, and ESZ/ESN) with additions, deletions, and corrections when requested • Update the Provisioning Boundary Layer with additions, deletions, and corrections. • Update the Incorporated Municipality Layer when there are annexations <p>GIS data attribute standardization following the NENA Standard for NG9-1-1 GIS Data Model and/or your PSAP mapping system requirements are included. GeoComm will populate Mandatory and Conditional attributes with provided resources.</p> <p>GeoComm will perform quality control (QC) checks on GIS data to measure GIS data quality and synchronization with MSAG and ALI databases, if available. If GIS data errors are detected, GeoComm will make appropriate corrections. If MSAG or ALI errors are detected, GeoComm will correct the error if contracted to do so. If resolving the MSAG or ALI errors are outside of the scope of service, GeoComm will provide you with a list of required updates.</p> <p>GeoComm will provide updated GIS data packages (zip file containing the updated GIS data layers in file geodatabase format) for you to provision into your local 9-1-1 systems. If the local 9-1-1 system is a GeoComm mapping application, GeoComm will execute the update process.</p> <p>If requested, GeoComm can provide.pdf files representing one combined Service Boundary map (Police, Fire, EMS) which you can print to hard copy wall maps.</p>
MSAG and ALI Maintenance	<p>To ensure ongoing synchronization with GIS data layers, MSAG, and ALI database, GeoComm will update and manage your MSAG based on provided resources. As needed, GeoComm will:</p> <ul style="list-style-type: none"> • Submit MSAG updates to your database provider when roads are added, changed, or deleted if allowed access to the database provider's MSAG maintenance system. • Assist in the resolution of MSAG discrepancies, as provided by the database provider (E.g. overlaps with other MSAG entries, address validation, etc.) • Assist in the resolution of inconsistencies between the MSAG and GIS data layers. • Assist in the resolution of telephone (TN) records that do not match the MSAG.

Maintenance Service	Description
	<ul style="list-style-type: none"> • Request new Emergency Service Numbers (ESNs) from the database provider when new responder combinations are created. • Complete periodic reviews of the MSAG, ALI database, and GIS data layers to ensure a high synchronization Rate and complete updates. Note: If clarification is needed, GeoComm will work with you to ensure accurate updates are made.
Address Assignment	<p>GeoComm will update the Site/Structure Address Point layer based on resources provided. As needed, GeoComm will:</p> <ul style="list-style-type: none"> • Update the Site/Structure Address Point layer with new address point locations using provided accurate location information or latitude and longitude for the approximate placement of the address point. • Assign addresses to newly added points based on the road centerline layer attributes (street name and address ranges) and return the newly assigned addresses within three business days. • Provide support regarding unique addressing situations or addressing discrepancies. <p>Note: Customers are responsible for notifying the resident of the newly assigned address.</p>
Wireless Maintenance	<p>GeoComm will update the wireless Phase I layers based on Wireless Traffic Routing sheets provided. GeoComm will:</p> <ul style="list-style-type: none"> • Add new sectors to the Wireless Cell Sector layer • Attribute new cell sectors with unique ID, sector ID, sector number, wireless company name, and radius • Add new tower locations if a tower layer exists <p>To ensure a complete and accurate wireless cell sector polygon layer, the following resources must be provided when updates are requested:</p> <ul style="list-style-type: none"> • Wireless traffic routing sheets from each wireless carrier which include: <ul style="list-style-type: none"> ○ Latitude/Longitude coordinates of the tower ○ Coverage Type: Omni or Sectorized. If the tower is sectorized, provide: azimuth (directional orientation), sector beamwidth, and sector radius ○ Cell Sector address (Unique ID) ○ Site ID ○ Sector ID ○ Sector Number ○ Wireless Carrier Name