



Kansas NG9-1-1 GIS Deciding Who Will Do the GIS Data Maintenance

A General Planning Guide for Kansas NG911 GIS Data Maintenance and what it takes to do the maintenance locally

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What it takes to do the maintenance locally:

1. **Hardware** – A PC meeting the following minimum requirements
 - a. 2.2 GHz minimum Intel Pentium 4, Intel Core Duo or Xeon Processors
 - b. At least 2GB of RAM
 - c. 24-bit color depth on a 1024 x 768 minimum resolution screen
 - d. 2.4 GB Disk Space
 - e. 256MB Video RAM with a 24-bit capable graphics accelerator with the latest drivers
2. **Software**
 - a. Esri ArcGIS for Desktop Standard License, version 10.1 or higher
 - i. Purchase cost under the State Master Purchase Agreement with Esri: \$6300
 - ii. Yearly maintenance cost under State MPA with Esri: \$1500
 - iii. This is a Coordinating Council approved use of local distributed 9-1-1 funds
 - iv. There is no grant funding available from the Coordinating Council for software purchase
 - b. Other GIS Software – It is possible that other GIS applications (AutoCAD, MapInfo, etc.) could be used to maintain the data; however updates must be submitted in the Template File Geodatabase format, which likely requires ArcGIS for Desktop to produce

3. **Staff / Training** – While the maintenance of the GIS data is not difficult, it does require some advanced GIS skills to accomplish properly
 - a. What skills? What functions does the staff member need to understand?
 - i. Working with data as tables and feature classes inside a file geodatabase
 - ii. How to use geodatabase domains
 - iii. How to use Topology to identify exceptions and correct spatial errors
 - iv. How to use joined and related data
 - v. How to run geoprocessing tools
 - b. How can we get training to do all that?
 - i. If the staff person you are considering to do this work is not already quite familiar with GIS software, it will be very difficult for them to handle this data maintenance. It is important to understand that basic GIS training for local government can be hard to come by, and the Coordinating Council does not have plans currently to provide basic GIS training.
 - ii. Some video training in specific skills is available through the GIS Committee’s YouTube channel. However, those videos are designed for active GIS users that just need a refresher on a new or rarely used skill. They do not have enough information for someone who is not familiar with the software already.
4. **Time**
 - a. If the staff member is unfamiliar with the data requirements and needed skills, data maintenance could take a substantial amount of time.
 - b. If the staff member is comfortable with the data requirements and the listed skills, then the time will be dependent on the number of changes to the data. If the area has a lot of annexations, new construction or new subdivisions, it could take significant time. If there aren’t many changes, then it will take less time.

What it takes to work with a vendor:

1. Vendor Qualifications - The Kansas NG911 GIS Data Model has very strict requirements, and it is important that any vendor maintaining your data understand those requirements. You can be certain that you are working with a vendor that understands these requirements if they are certified by the Coordinating Council as a Data Maintainer.
 - a. How does a vendor get certified? - That certification is available by attending classes held by the Coordinating Council to explain the data requirements and answer any questions about the NG911 GIS Data Model.
 - b. Who is already certified? - Currently, all vendors that have passed Quality Assurance with GIS data in the GIS Enhancement Project are considered certified as Data Maintainers: ATCi ; GeoComm; Kimble Mapping; R&S Digital.
2. Vendor / Client responsibilities
 - a. The PSAP is responsible to collect information about needed data changes and forward it to the Vendor
 - i. City limit annexations
 - ii. Newly assigned or corrected addresses
 - iii. New roads
 - iv. Changes to responder districts
 - v. Problems with existing data
 - b. The PSAP is responsible to review the completed data and communicate with the Vendor about any concerns

- c. The PSAP (specifically the Local Data Steward) is responsible for submitting the updated data to the Coordinating Council or notifying the Coordinating Council in writing that the Vendor will do the submissions for them. Even when the Vendor does the submissions, the PSAP is still responsible to review the data and ensure that updates have been submitted.
3. Money
- a. Cost of the service will vary between vendors and based on the expected volumes of changes. While the Coordinating Council has no formal survey of annual GIS maintenance contract costs, we have heard of contracts ranging from \$1500 to \$5000 per year. If you are concerned about the cost you have been quoted, it is suggested that you contact other PSAPs of similar size to see what they are paying. You may also consider asking a different vendor for a bid. Even if you prefer not to work with the second vendor, their quote will give you an idea of the appropriateness of your original bid.
 - b. There is no grant funding available through the Coordinating Council for maintenance contracts