

Kansas NG9-1-1 Work Flow Remediated GIS Data QA Audit Process

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Document Change Log

Date	Author	Change	Reason
07/01/14	S Massey	Original release.	
07/30/14	S Massey	Amended QA process to include detailed description of DRC Comments	Procedure was clarified once first QA report was received

Introduction

The third stage in the GIS Enhancement Project is the QA process, wherein remediated data is reviewed to determine if it is acceptable for use in the ongoing NG9-1-1 project. In the original RFP, the only aspect of the QA process that was explicitly defined was the Project C vendor (AOS) testing the data to identify gaps. This document further details that process by identifying the full workflow and role of the Review Committee.

Description

Step 1

Remediated data is submitted to AOS for Gap Analysis. (Day 0)

Step 2

AOS uploads a copy of the submitted data and the results of the Gap Analysis to the Data Review Committee (DRC). (Day 5)

Step 3

The DRC will examine the Gap Analysis report and, if necessary the data itself, to determine if the data is acceptable for the ongoing NG9-1-1 project. The Kansas NG9-1-1 GIS Data Model presents the data standard that will be applied. However, as real-world data cannot always fit a designed model, the DRC will consider what is reasonable. Some examples of reasonable exceptions to the standard are below:

1. Road centerlines outside of the Authoritative Boundary – If the road runs along the boundary, line segments following the center of the road surface may drift across the Authoritative Boundary. This is acceptable, but it should be marked as an exception in the database.
2. Road centerlines may have dangles – If the road is actually a dead end or cul-de-sac, then it is appropriately a dangle. It should be marked as such in the database.
3. AOS will test whether Address Points properly geocode along existing road centerline segments. All Address Points that do not geocode will be identified as gaps in their report; however, there are valid circumstances where address points won't have a matching road segment.

Once the review is complete, the DRC will discuss the results and issue a statement recommending acceptance or rejection of the data that addresses each item identified in the QA Report. The statement will be submitted to the GIS Subcommittee Chair, the NG9-1-1 Program Manager and the 9-1-1 Liaison. (Day 8)

In the statement from the DRC, items that have been identified failing a test will be marked with one of the following comments:

- **Acceptable:** The DRC has reviewed the features identified in the test and found that they are acceptable. No response is required.
- **Review – No Comment Required:** The identified features are for review only. No response is required.
- **Review and Correct or Comment:** The identified features may or may not be errors. Data editors are expected to review the features. If the review shows the feature to be in error, the data shall be corrected and a comment of "Corrected" shall be listed on the QA Report spreadsheet, next to the feature in question. If the review shows the feature not to be in error, a short statement of explanation shall be listed on the QA Report spreadsheet, next to the feature in question. The QA Report spreadsheet shall be returned to the 9-1-1 Liaison or the NG9-1-1 Program Manager. If errors were found in the review, the corrected data shall be resubmitted for analysis.
- **Correction Required:** The identified items must be corrected for the data to be in compliance. The data shall be corrected and a comment of "Corrected" shall be listed on the QA Report spreadsheet, next to the feature in question. The data shall be resubmitted for analysis and the QA Report spreadsheet shall be returned to the 9-1-1 Liaison or the NG9-1-1 Program Manager.

Step 4

If the data is not accepted, the Program Manager and the 9-1-1 Liaison will contact the Project B vendor, or if no Project B vendor was used, the local data steward, with the results of the review and a timeline

for resubmittal of the data and QA Report spreadsheet. The vendor or local data steward shall be expected to follow the procedure dictated by the DRC comment. (Day 9)

If the data is accepted, the Program Manager and the 9-1-1 Liaison will provide the local data steward and the Project B vendor with the QA report and a letter of acceptance that explains next steps in the data maintenance process. If a Project B vendor was involved, payment authorization will begin. All accepted data will be stored at DASC for use in the ongoing NG9-1-1 project. (Day 9 or after acceptance of resubmitted data)

Conclusions

The QA process does not end with the AOS Gap Analysis. The DRC will examine results from that analysis and issue a recommendation that data be accepted or rejected. The recommendation will be considered by the Program Manager and 9-1-1 Liaison to determine their next course of action.

Recommendation

Adopt and implement the QA process shown in Figure 1.

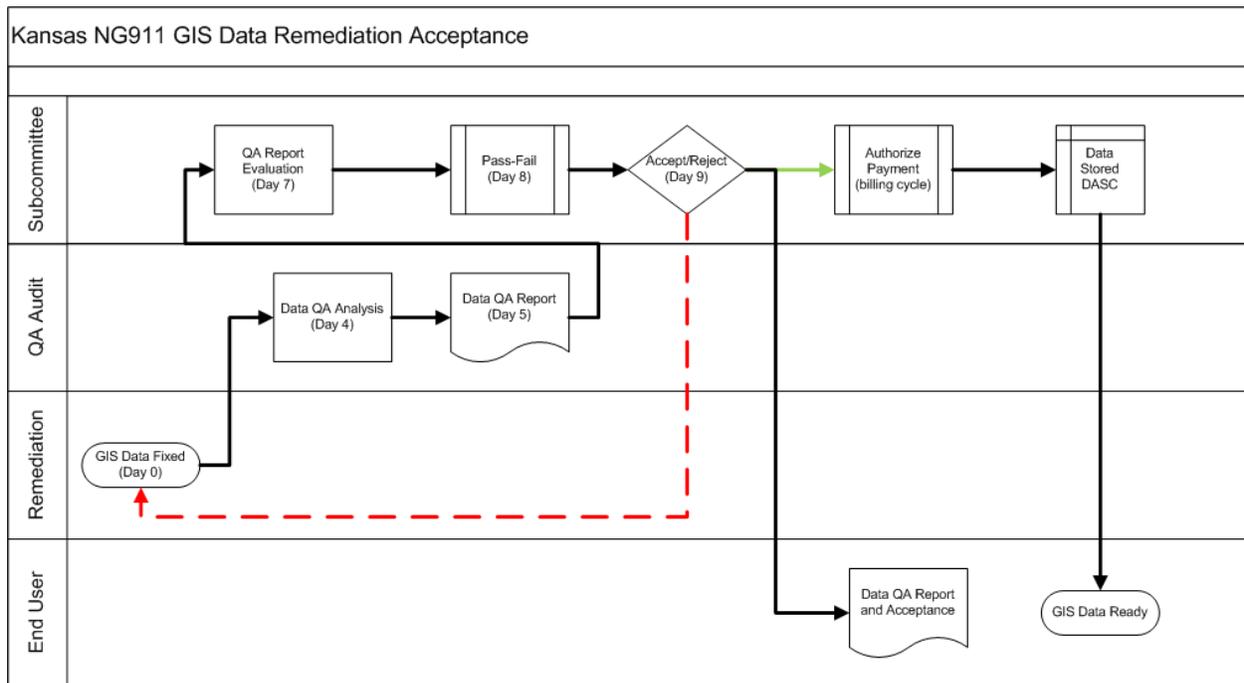


Figure 1 GIS Remediated Data QA Audit Process