



Kansas NG911 GIS Project

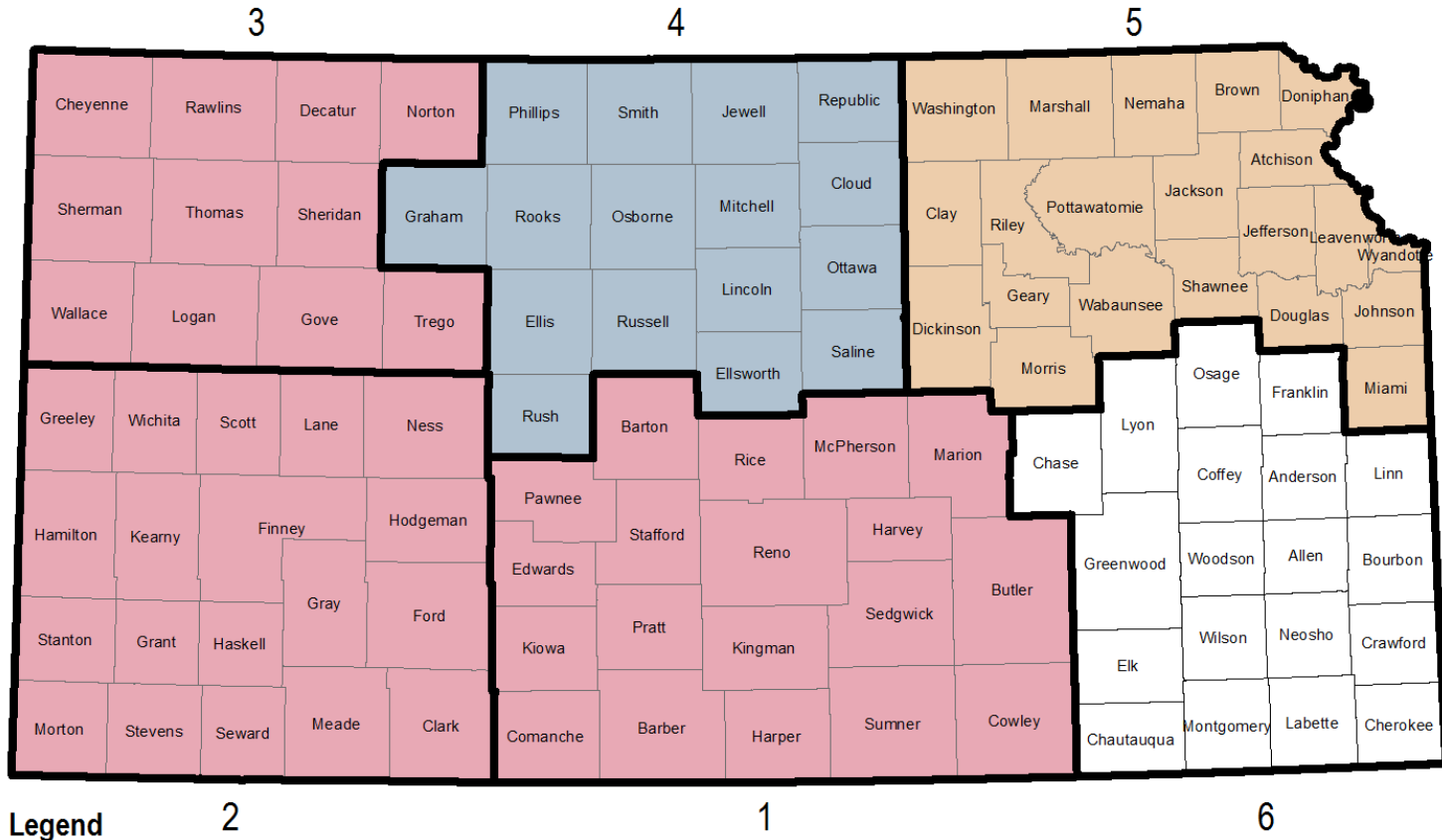
Regions 5 Gap Analysis Update

7/9/2014

Region 5

Kansas NG9-1-1 GIS Project - GA Report Status

Date: 7/8/2014



Legend

- Reports Not Yet Started
- Gap Analysis Reports & ROM to be delivered by 7/16/14
- Gap Analysis In-Process to be Delivered by 9/3/14
- Gap Analysis Reports & ROMS Delivered and Accepted

Region 5

- Outstanding GIS Data – Pottawatomie Co
- Outstanding CAMA Data – Brown, Doniphan, Johnson, Miami
- Data Process Status
 - CAMA : 7 of 17 (41%)
 - MSAG: 10 of 21 (48%)
 - TN: 16 of 21 (76%)
 - GIS Data: 17 of 21 (81%)
- Reports – 10% complete
- Reports complete by and delivered to 911 Council by 9/3/14

Gap Analysis Report Explanation

| Example County | County GIS Data Layer | NENA GIS Data Layer | Num of Errors |
|--|-----------------------|------------------------|---------------|
| Duplicate Features | county | County Boundary | 0 |
| | cities | Municipal Boundary | 0 |
| | addresses | Site / Structure Layer | 0 |
| | roads | Street Centerline | 2 |
| Overlaps | county | County Boundary | 0 |
| | cities | Municipal Boundary | 0 |
| | roads | Street Centerline | 25 |
| Gaps | county | County Boundary | 0 |
| | cities | Municipal Boundary | 0 |
| | roads | Street Centerline | 11 |
| Overhangs | roads | Street Centerline | 41 |
| Road Directionality Inconsistency | roads | Street Centerline | 54 |
| Split at Intersection | roads | Street Centerline | 10 |
| | county | County Boundary | 54 |
| | cities | Municipal Boundary | 110 |
| Incorrect ESN | | | N/A |
| ESN Boundary Misalignment | | | N/A |
| Road Name Inconsistency | roads | Street Centerline | 73 |

Gap Analysis Report Explanation

| | | |
|-------------------------------------|--|------|
| MSAG Errors | Roads No Matching MSAG | 162 |
| | MSAG Range | 120 |
| | MSAG No Matching Road | 115 |
| TNALI Synchronization Errors | Total Geocodable TNs | 3944 |
| | No Match (0%) | 1693 |
| | >= 90% | 111 |
| | 90% - 99% | 14 |
| | 100% | 2126 |
| Missing NENA GIS Data Layers | Authoritative (PSAP) Boundary | 8 |
| | Cell Site Coverage | |
| | Cell Site Location | |
| | Emergency Service Agency Boundary - EMS | |
| | Emergency Service Agency Boundary - Fire | |
| | Emergency Service Agency Boundary - Law | |
| | Emergency Service Agency Location | |
| | Emergency Service Zone Boundary | |

Gap Analysis Report Explanation

| | | | |
|------------------------------|---|------------------------|------|
| Non-NENA Fields | county | Courty Boundary | 2 |
| | Extracted from roads | Road Name Alias | 55 |
| | rrs | Railroad Centerlines | 18 |
| | cities | Municipal Boundary | 2 |
| | addresses | Site / Structure Layer | 44 |
| | roads | Street Centerline | 40 |
| Missing NENA Fields | county | Courty Boundary | 6 |
| | Extracted from roads | Road Name Alias | 10 |
| | rrs | Railroad Centerlines | 5 |
| | cities | Municipal Boundary | 9 |
| | addresses | Site / Structure Layer | 26 |
| | roads | Street Centerline | 28 |
| Field Types | See tab "Jurisdiction vs Nena Fields" for details | | |
| Field Lengths | See tab "Jurisdiction vs Nena Fields" for details | | |
| Address Point Geocode | Total Address Points | | 5070 |
| | 0% | | 709 |
| | ≥ 90% | | 619 |
| | 90% - 99% | | 689 |
| | 100% | | 3053 |

Gap Analysis Report Explanation

| | | | |
|--|------------------------------------|------------------------|--------------|
| CAMA Comparison | Total Geocodable CAMA Records | | 8026 |
| | 0% | | 3370 |
| | >= 90% | | 4 |
| | 90% - 99% | | 28 |
| | 100% | | 4624 |
| Multi-Address Structure Format | addresses | Site / Structure Layer | Single Point |
| USPS Abbreviation Standardization | addresses | Site / Structure Layer | 0 |
| | roads | Street Centerline | 1 |
| Pre-Directional Errors | addresses | Site / Structure Layer | 0 |
| | roads | Street Centerline | 0 |
| Post-Directional Errors | addresses | Site / Structure Layer | 0 |
| | roads | Street Centerline | 0 |
| Projection | All Layers: NAD_1983_UTM_Zone_14N | | |
| Metadata | Stored in separate Metadata folder | | |

Gap Analysis Reports

Explanation - Tabs

- Data Crosswalk
- Notes
- CAMA
- Jurisdiction vs NENA Fields
- Duplicate Features
- Overlapping Features
- Gaps
- Overhangs
- Road Directionality Inconsistency
- Splits at Intersections
- Correct ESN
- ESN Boundary Misalignment
- Road Name Inconsistences
- MSAG Synchronization Errors
- Tele-ALI Synchronization Errors
- % Geocoded Features
- Multi-Address Structure Format
- UPSP Abbreviation
- Pre-Directional Errors
- Post-Directional Errors
- Projection Type Listing
- Metadata Requirements

QA Audit

- Slightly different than the Gap Analysis due to changes in the new Kansas standard.
- AOS will strive to return the QA Audit within five (5) business day, however this will be highly dependent on the number received at once. Priority will be given in regional order.

QA Audit – Audit Items

- Geodatabase Format
- Geometry
- Topology
- Duplicates
- Overlaps
- Overhangs
- Orphans
- Boundary Alignment
- Splits at Intersections
- Road Directionality
- Road Name Consistency
- Geocode of Address Points to Roads
- Multi-Structures
- Points on Structures
- New Road Segments
- Mandatory Fields (contain values)
- Domain Validation
- Unique ID Validation
- Road Alias ID to Road Centerline ID
- ESN Values
- Projection
- FGDC Mandatory Metadata Field