

MINIMUM GIS QUALITY REQUIREMENTS
for
NEXT GENERATION 9-1-1

- 1) Data layers present in all GIS maps:
 - a) Street Centerlines;
 - b) Address Points;
 - c) Emergency Service Zone Boundaries (ESN Boundaries).

- 2) GIS data maintenance of Street Centerlines:
 - a) Updated monthly and maintained on a continual basis;
 - b) Accurately reflect block address ranges as related to Address Points;
 - c) Fall within 10 feet or less of the centerline 95% of the time as visible in Ortho Photography.
 - d) Represent all public and addressed private streets;
 - e) Attributes are accurate, complete and standardized (address ranges, ESN's, Communities, spelling abbreviations);
 - f) All related NENA standards are met or exceeded;
 - g) The MSAG is reviewed for accuracy by the ECD and synchronized with the GIS data (see NENA 71-501);
 - h) GIS data layers contain all valid addressing information after corrections to ALL and MSAG records are made,;
 - i) Street Centerlines match the corrected MSAG to a 98 percent or higher rate;
 - j) Street names include the street centerline attributes;
 - k) Street names conform to the legal names as assigned by the addressing authority;
 - l) Correct all errors, incompletions, missing or inconsistent road names;
 - m) Abbreviations of all Street Prefixes and Suffixes are incorporated according to NENA Standards;
 - n) MSAG Communities are populated with correct information, spelled out and consistent;
 - o) Include all attribute information, such as ESN, Community, etc.;
 - p) Include County names that are consistently attributed;
 - q) Assure that lower address ranges are lower than high address ranges;
 - r) Attempt to assure that Left and Right addressing is consistently either odd or even addresses; document unsuccessful attempts;

- s) No overlapping address ranges exist;
 - t) Orient all line segments in the direction of increasing address ranges;
 - u) Each centerline segment shares an exact begin or end node with another centerline segment;
 - v) Each intersection is split for routing purposes and intersection lookup purposes;
 - w) Street centerlines are split at intersections with ESN boundaries, City Boundaries and County Boundaries;
3. GIS data maintenance of Address Points:
- a) Updated daily or as needed;
 - b) Located either on the structure or on the driveway whichever will best route emergency vehicles accurately;
 - c) Include valid attribute values;
 - d) Not contain duplicate address points – each address point should be uniquely identifiable by the attributes;
 - e) Attempt to assure that Address points on the left or right of the street centerline are consistently either odd or even addresses; document unsuccessful attempts;
 - f) Site address matches ALI data base;
 - g) Address Points match corrected MSAG/ALI to a 98 percent or higher rate.
4. GIS data maintenance of ESN Boundaries:
- a) Updated as needed to stay current and accurate with streets, address points and community boundaries;
 - b) No gap or overlapping polygons;
 - c) ESN Boundaries joined to jurisdictional boundaries where appropriate;
 - d) ESN, ESZ info matches MSAG/ALI;
 - e) ESN Boundaries match Street Centerlines and Address points to a 98 percent or higher rate.