NJ Geospatial Forum- Address Task Force
Meeting Minutes
October 9th 2015

Participants:

Burlington County	Merrilee Torres
Monmouth County	Justin Hood
Morris County	Stuart Walter
Address Access	Burt Ray Simpson
Civil Solutions	Steven Eckhardt
NJOIT OGIS	Doug Schleifer, Pat McDonald, Chris Klaube

Location

Room 302, Riverview 300, Trenton, NJ

Meeting Notes

OGIS Presentation on Address Creation / Validation Tools
-Address points creation model from Parcels is ready
-Addresses are cleaned, parsed and standardized from MODIV
-Address ranges are broken into individual address points in a geoprocessing model
-Address points are linked to NJ RoadCenterline segments through a geoprocessing script, points are also adjusted to road segment ROWs.
-Results:
-93% match to road centerlines
-70% match zip codes
-91% creation of points from Parcels with address numbers

Standards
-NENA release of the "***NENA Information Document for Development of Site/Structure Address Point GIS Data for 9-1-1*** "
-Ideal point location dependent on public safety application
-*NG9-1-1 Validation Call Routing*
-*9-1-1 Map Display*
-*Vehicle Routing*
-*Emergency Notification*
-Placement of point on actual doorway/structure deemed best across most applications
-NENA Standard for NG9-1-1 GIS Data Model still in the works

USPS Validations
-NJOIT deployed RESTful service for validations of street address data against USPS reference files (IBM CASS)
-Addresses supplied to the address point layer will be validated:
-Deliverable address?
-Correct Zip/Zip4
-Preferred ZipName
-Correct Unit Formatting (Unit->Ste)

Discussion of Draft Schema and Data Model (attached)

-A placeholder field for Access Point ID will be created as a foreign key to a possible access points layer in the future.

-PAMS_PIN field should be removed from schema. May become outdated and misleading. Task force agrees it is best to spatially join PAMS_PIN attribute as needed.

-GNIS deemed most suitable for recording municipality. FIPS codes will be deprecated in favor of GNIS codes. GNIS field will contain a domain for showing "Municipality Name / County Name"

-Recording of PLACE_TYPE (Address, Milemarker, Kiosk, etc) deemed unnecessary. Although other points of interest are important for geocoding in 9-1-1, the task force agreed this is ultimately not within the scope of the initial address model project.

-The CollectionMethod (METHOD) field & domain were renamed to LocationMethod. LocationMethod codes were adjusted to the following:
(Geocoded, Parcel Extraction, Field Verified, Manually Digitized, Other)

Action Items

-OGIS will generate first draft of the statewide address points from Parcels, using the geoprocessing models that were outlined (November). Addresses will then be validated against USPS.

-Parcels with ungenerated address points and erroneous PROP_LOC addresses will be sent back to local counties for review. Address points will be shared with local authorities.

-Task Force members will continue gathering building footprints for use in adjusting address points locations. OGIS waiting on LiDAR data delivery for several counties and coastal areas; LiDAR will be used to generate rough building footprint polygons.

-Task Force members will begin the work of assessing ETL needs for merging existing county address point layers with the state model.

Proposed Schema, NJ Address Points 20151009

Category	Field Alias	Field Name	Field Type	Field Length	Example	Field Description	Domain Name	Comments	Related Table?
Key Fields	NJAddressPointID	AP_GUID	Guid	38	{6028022A-0106-4B3C-9A8A-1C401E634D49}	Primary Address ID for tying in subaddress points			LandmarkNames table
	SEG_GUID	SEG_GUID	Guid	38	{6028022A-0106-4B3C-9A8A-1C401E634D49}	ID Corresponding to the nearest NJ Road Centerline Segment		Used for sourcing alternate rd names	NJ Tran_Road_Centerlines
	Access Point ID	ACC_GUID	Text	38	{6028022A-0106-4B3C-9A8A-1C401E634D49}	Foreign key ID corresponding to an access point for vehicle routing			
	PAMS_PIN	PAMS_PIN	Text	38	1301_1_1	NJ Tax Parcel ID			NJ Parcels
Addr Number Fields	PrefixAddressNumber	PRE_NUM	Text	5	A	An extension that precedes the address number			
	AddressNumber	ADDR_NUM	Long	*	99	The numeric identifier of a location along a thoroughfare			
	SuffixAddressNumber	SUF_NUM	Text	5	1/2	An extension that follows the address number			
Street Parts Fields	PreDirectional	PRE_DIR	Text	10	NW	A street direction that precedes the street name	Directional		
	PreType	PRE_TYPE	Text	20	County Rte	A street type that precedes the street name	StreetType		
	PreModifier	PRE_MOD	Text	25	Alt	A street name modifier that precedes the street name			
	StreetName	NAME	Text	40	Main	Legal authoritative street name			
	PostType	SUF_TYPE	Text	20	St	A street type that follows the street name	StreetType		
	PostDirectional	SUF_DIR	Text	10	W	A street direction that follows the street name	Directional		
	PostModifier	SUF_MOD	Text	25	Exp	A descriptor that follows the street name and is not a suffix or a direction			
	FullStreetName	NAME_FULL	Text	68	E Main St	Concatenation of PreModifier, PreDirectional, PreType, SeparatorElement, StreetName, PostType, PostDirectional, and PostModifier fields			
Sub Address Fields	Building	BLDG	Text	40	Capitol Building	The name of one among a group of buildings that have the same address number and street name, that are multiple independently named structures at the same address			
	Floor	FLOOR	Text	40	Floor 1	A floor, story, or level within a building			
	UnitType	UNIT_TYPE	Text	10	Apt	The type of unit within a building	Poss Domain? UnitType		
	UnitID	UNIT_ID	Text	10	101	The ID of the unit within a building			
	Room	ROOM	Text	40	Room 3	Room number or designation within a building			
	Location	LOCTN	Text	40	Lobby	Additional location information			
	SubAddress	SUB_ADDR	Text	200	Captitol Building Floor 1 Lobby	Entire subaddress string that consists of Building, Floor, Unit, Room and Location fields.			
Zip/ Zonal Information	ZipName	ZIP_NAME	Text	30	Trenton	USPS Zip or Postal Code Name			
	ZipCode	ZIP_CODE	Text	5	08611	USPS Zip Code			
	Zip4	ZIP_PLUS4	Text	4	0324	USPS Zip +4			
	ZipSource	ZIP_SRC	Text	20	CASS	Source of Zip / Postal Information	ZipSource		
	GNIS	GNIS	Text	8	885421	GNIS Civil Code, Bureau of Geographic Names, USGS	Municipal Lookup		
Supplementary Address Information	PrimaryPoint	PRMRY_PT	Text	3	Y	Distinguishes between Primary and SubAddress points	YesNo	Domain from NENA/NYSAM	
	LocationType	LOC_TYPE	Text	3	1 (Rooftop)	Address point type	LocationType	Domain from NENA/NYSAM standards	
	UseClassification	USE_CLASS	Text	3	15 (State Government)	Address general use classification	UseClass		
	LocationMethod	METHOD	Text	30	Field verified	Point location method	LocationMethod		
	PlaceType	PLACE_TYPE	Text		Monument		PlaceType		
	Delivery Point	USPS_VAL	Text	1	N	Flag for confirmation as a valid USPS delieverable address	YesNo		
	AddressSource	ADDR_SRC	Text	50	Mercer County	Name of entity that provided the data			
	LastEditor	UPDATE_USER	Text	50	ssmith	Most recent editor of the feature			
	DateUpdated	UPDATE_DATE	Date		1/1/2015	Date the record was last modified			
	StatusCode	STATUS_CODE	Text	3	NFV (Needs field verification)	Status code of the address feature	StatusCode		
	Comments	CMT_TEXT	Text	255	This address may be incorrect	Issues /comments related to the address feature			

LocationType	from NYSAM & NENA standard
Code	**Description**
1	Rooftop
2	Primary Structure Entrance
3	Driveway Entrance
4	Parcel Centroid
5	Miscellaneous
6	Road Centerline ROW

ZipSource	
Code	**Description**
CASS	CASS
MODIV	MODIV
NGHBR	Neighborhood
USER	User Input

Directional	
Code	**Description**
N	North
S	South
E	East
W	West
NW	Northwest
NE	Northeast
SW	Southwest
SE	Southeast

StreetType	
Code	**Description**
Access	Access
Airport	Airport
Aly	Alley
Alt	Alternate
Anx	Annex
Arc	Arcade
Ave	Avenue
Byu	Bayou
etc…	etc…

UseClass	
Code	**Description**
1	Agriculture
2	Industry
3	Commercial and Retail
4	Education
5	Emergency Response and Law Enforcement
6	Energy
7	Banking and Finance
8	Mail and Shipping
9	Residential
10	Health and Medical
11	Transportation
12	Public Attractions and Landmarks
13	Local Government
14	County Government
15	State Government
16	Federal Government
17	Military
18	Water Supply
19	Telecommunications
20	Private / Non Profit

LocationMethod	
Code	**Description**
Geocoded	Geocoded
Parcel Extraction	Parcel Extraction
Field Verified	Field Verified
Manually Digitized	Manually Digitized
Other	Other

YesNo	
Code	**Description**
Y	Yes
N	No
U	Unknown

UnitType	
Code	**Description**
APT	Apartment
STE	Suite
UNIT	Unit
…	…