



Virginia Information Technologies Agency

Address Points Data Standard Workgroup

August 31st 2016
Michael Vojta
April Branton





Welcome and Introductions

Virginia Geographic Information Network
meeting of the Address Points Data
Standard work group committee.

VGIN leads:

- April Branton: Geospatial Data Analyst
- Michael Vojta: Geospatial Data Analyst
- Dan Widner: VGIN Coordinator



Agenda

1. Welcome and Introductions
 - Roll call
2. Comments on Workgroup Charter document
3. Address Points Table Attributes
4. Attribute table rules
5. Dates for next tele-meetings (end of meeting)



Workgroup Tasks

- Review and comment on Charter document
 - Any comments or questions?
- Adopt meeting schedule and topics (via doodlePoll)
 1. Charter kickoff (17 August 2016)
 2. AP attributes (31 August 2016)
 3. AP geometry issues
 4. Findings and Summary
- Determine a “finish line” for Address Points Standards
 - All issues addressed
 - Operational “fit” with local systems achieved



Address Points Attribute Standardization

Address Point Table Schema Considerations

1. NENA and USPS address standards exist – align with existing addressing standards
2. Consider relational tables and enterprise database cardinality
 1. Will addresses draw from Master Address Table?
 2. Will addressing be used in a GeoLocator / Coder?
 3. Can related table codes collapse into a single table schema?
 4. Street Names – multiple street names in a flat file schema
3. Unique and persistent ID
4. Subaddressing
5. Domains
6. Requirement field conditions (Mandatory, Optional, Conditional, VGIN generated)



Address Points Attribute Standardization

Field Name	Data Type	Length/Precision	Description	LOV/Domain	M/C/O/V
OBJECTID	Object ID	Default	ESRI geodatabase feature ID	None	System-Generated
Shape	Geometry	Default	Feature geometry. Coordinates defining the features.	None	System-Generated
STREET_NAME_ID	Double	16	Unique statewide VGIN Address	None	Conditional
ADDRESS_ID	Double	16	Unique statewide VGIN Address Points ID	None	VGIN
LOCAL_ADDR_ID	Double	16	Address Points ID from Locality	None	Mandatory
BUILDING_ID	Double	16	Foreign ID key link to building footprint layer	None	Conditional
PARCEL_ID	Text	20	Property parcel ID if identified from source.	None	Conditional
ADDPTGEO_ID	Double	8	Geo ID generated by VGIN	None	VGIN
MFIPS	Text	7	Maintenance FIPS code of locality	FIPS	Mandatory



Address Points Attribute Standardization

GEOMETRY_EDIT_TYPE	Short	Default	Type of edit made to geometry	EDIT_TYPE	Optional
GEOMETRY_EFFECTIVE_DATE	Date	Default	Date of segment entry	None	Optional
GEOMETRY_EDIT_DATE	Date	Default	Date of segment edit	None	VGIN
ADDRESS_TYPE	Text		Single numeric, numeric range, intersection, or named structure	Under review	Optional
ADDRESS	Long	Default	Address (single unit numeric)	None	Mandatory
ADDRESS_RANGE	Text	11	From - To numeric code range where applicable, i.e.: #####-#####	None	Conditional
SUB_ADDRESSES_UNIT	Text	10			Conditional
SUB_ADDRESSES_TYPE	Text	10	APT, FLOOR, SUITE, UNIT, Department	Domain	Optional
LANDMARK_NAME	Text	60	Common name	None	Conditional



Address Points Attribute Standardization

STREET_PRE MODIFIER	Text	10	USPS Street Modifier - PRE	MODIFIER	Conditional
STREET_PREF IX_DIRECTION	Text	2	USPS / NENA Standard Street Prefix	DIRECTION	Conditional
STREET_NAME	Text	75	Standardized Street Name	None	Required
STREET_SUFFIX	Text	4	USPS/NENA Street Suffix Type	SUFFIX	Required
STREET_SUFFIX DIRECTION	Text	2	USPS/NENA Street Suffix Direction	DIRECTION	Conditional
STREET_POST MODIFIER	Text	10	USPS Street Modifier - Post	MODIFIER	Conditional
STREET_NAME FULL	Text	100	Full title concatenated street name	None	VGIN
STREET_NAME SOURCE	Text	4	Source of street name	SOURCE	Optional
STREET_NAME EDIT_DATE	Date	Default	Date of street name edit	None	Optional
ROUTE_IDENTIFI FIER	Text	20	VDOT Route	None	Optional
ADDRESS_LA BEL	Text	50	Fully concatenated address as found in mailing label	None	VGIN
POST_OFFICE	Text	40	Name of postal office servicing area	None	VGIN
POSTAL_CODE	Text	5	5-digit Postal Code	None	Mandatory



Address Points Attribute Standardization

SEC_STREET_PREFIX	Text	2	Secondary Standard Prefix	Direction	Conditional
SEC_STREET_NAME	Text	75	Secondary Standard Street Name	None	Conditional
SEC_STREET_SUF	Text	4	Secondary Standard Street Type	Suffix	Conditional
SEC_STREET_DIR	Text	2	Secondary Stand Street Suffix	Direction	Conditional
SEC_STREET_MOD	Text	10	Secondary USPS Street Modifier - Post	Modifier	Conditional
SEC_STREET_FULL	Text	100	Secondary Street Name concatenated	None	Conditional



Address Points Attribute Standardization

MUNICIPALITY	Text	60	Name of town or city	None	Conditional
COUNTY	Text	40	County	County	Conditional
STATE	Text	2	US Postal abbreviated state	??	Required
US_NAT_GRID	Text	20	US National Grid coordinates to 10 digits (1 meter)	None	VGIN
ESN	Text	5	Emergency Service number	None	VGIN
PSAP	Text	4	Public Safety Answer Point	None	Required
LAT	Integer		Latitude	None	VGIN
LONG	Integer		Longitude	None	VGIN
CAPTURE_METHOD	Text	30	Automated or manual	None	VGIN



Address Points Attribute Standardization

Street Naming

- Parsed into NENA defined components
- Capitalized
- Domain defined street types (CIR, AVE, ST, RD, ..)
- Multiple street names
- DOT defined route numbering
- Abbreviations not permitted
(St. Michael to Saint Michael)
- No special characters (-, %, ", ...)



Address Points Attribute Standardization

Address Points Domains and Domain Values

- EDIT_TYPE
 - ✓ Add
 - ✓ Move
- ADDRESS_TYPE
 - ✓ Structure
 - ✓ Site
 - ✓ Parcel
 - ✓ Access point
 - ✓ GeoCoded
- SUB_ADDRESS_TYPE
 - ✓ Building
 - ✓ Unit / Suite / Apartment
 - ✓ Office
- STREET_NAME_SOURCE
 - ✓ Local Govt.
 - ✓ VGIN
 - ✓ VDOT
 - ✓ Commercial Vendor
 - ✓ Census Bureau



Address Points Attribute Standardization

Attribute Data Rules

- ***Address points ID must be Unique and persistent***
- ***Address Points Must Not Have Duplicate Address Numbers and Duplicate Subaddressing***
- ***Street Modifiers, Directionals and Suffixes will follow the Virginia/USPS Standard***



Next steps

Meeting schedule and topics

1. Charter kickoff (17 August 2016)
2. AP attributes (31 August 2016)
3. AP geometry issues (date/time ?)
4. Findings and Summary (date/time ?)

DoodlePoll for scheduling