Virginia Address Point Geospatial Data Standard Workgroup

Draft Charter

Introduction

The Virginia Geographic Information Network (VGIN) is establishing a workgroup to provide input into the development of a formal geospatial data standard for address points.   Presently, VGIN maintains a statewide Address Point data layer in conjunction with local governments from across the Commonwealth to create a seamless feature dataset with address numbers and street names which complements the Virginia Base Mapping Program's (VBMP) Road Centerline (RCL) geospatial data product.   The address point geospatial data standard will be a critical component for statewide Next Generation 9-1-1 and will be an important step into data standardization.

Definition

Address Points geospatial data are spatially enabled locational entities (sites and structures) containing geographic coordinates as well as, street name and number based locational information. Site and structure address points ideally represent the location of the site or a structure or the location of access to a site or structure as well as landmarks.

Address points are generally considered the most accurate means of locating an addressed entity. Unlike road centerlines with interpolated addressing along a line segment point, address points represent the location of an addressable structure. Positioning of the address point on a structure can vary from the center of a building or the entrance of a building. These are valid representations that serve a purpose. This geospatial data standard will recommend the best position for statewide application.

Goals

Align Address Point data to industry standards and best practices that are and managed according to the Commonwealth's GIS Strategic Plan. Pursuant to VITA-VGIN GIS Strategic Plan 2015-2020:

Goal 2 - Technical Services and Products: Provide and maintain statewide datasets and spatial solutions that are most efficiently and effectively managed at the state level.

Initiative 5 - Provide NG9-1-1 Geospatial Data Products and Services

An ISP supported data collection workflow or solution that enables the authoritative local

jurisdiction data to be collected and coalesced into a single database standard aligned with the

NENA NG9-1-1 GIS Data Model recommendations.

Outcomes

- Create a formal data standard for address point geospatial data

- Ensure data interoperability through common and accessible technology

- Ensure that the data needs of Next Generation 9-1-1 technology are met

- Address any data sharing concerns and identify solutions

Processing

The Address Point data leverages the Commonwealth's investment in VBMP digital ortho-photography as well as focusing its efforts to create a single statewide address point layer to be used in the VGIN Geocoding Web Service (GWS). Address Points are data developed and produced by Virginia's Local Governments and sent to VGIN. A series of checks are run on the locality data and the schema is pared where necessary. An ETL process is run to match the VA Address Point model.   Address Points can be used as a quality control resource for localities and VGIN for checking RCL address range and street name accuracy, which directly assists dispatch mapping systems.

Workgroup Input Initiatives

Identify and document the data standard element needs for:

- Next Generation 9-1-1

- Commercial and public navigation applications

- Local Government

- State Agency

Workgroup Tasking

VGIN
- Use existing data standards process (Admin. Boundaries, RCL)
- Establish a Stakeholders group and task for review and inputs.
- Generate Address Points Workgroup Charter.
- Collect and review existing Address standards (NENA CLDXF, VGIN RCL)
- Create working draft for AP Data Standard document

Workgroup
- Establish preferred address point placement (geometry) relative to structures, property lines, and road/access points.
- Establish minimum essential attributes (required and recommended)
  - Consider scalability including addressing to building footprints and parcels and address sub-units.
  - Consider alternative addressing - ranges, alt street names, place names, bridges ?
- Reach consensus recommendation on final AP data standard document

Milestones

- Establish Work Group

- Generate Address Points Draft Charter

- Initiate Data Standard document

- Work group review of charter and standard