Address Subcommittee Meeting

January 8, 2020
11:00 pm– 12:30 pm Eastern
U.S. Census Bureau
Suitland, MD
Meeting Agenda

1. Welcome and Introductions/Roll Call
2. U.S. Virgin Islands Addressing Project – Chris George
3. Action Items from November Meeting
   - Address Subcommittee White Paper Supplement
   - Meetings with USPS on NAD ZIP Codes
   - Address Content White Paper
4. NAD Updates – Amy Nelson
5. Puerto Rico Address Data Working Group Update – Lynda Liptrap
8. Address Content Subgroup Update – Ed Wells, Matt Zimolzak, Dave Cackowski
9. Action Item Review – Dave Cackowski
10. Adjourn
U.S. Virgin Islands Addressing Project
November Meeting Action Items

• Address Subcommittee White Paper Supplement

• Meetings with USPS on NAD ZIP Codes

• Address Content White Paper
NAD Updates
Puerto Rico Address Data Working Group Update
Phase Two Objectives

Step 1
- Identify the challenges facing federal agencies that manage Puerto Rico address data.

Step 2
- Create a comprehensive inventory of federal agency challenges through a Phase Two questionnaire.

Step 3:
- Document the collective challenges for federal agencies that manage Puerto Rico address data.
Phase Two Status

• Captured and compiled agency challenges with Puerto Rico address data

• Forming Phase Two report writing team

• Report to be completed by early February
For More Information On The PRADWG

• Address Theme Community
  • https://communities.geoplatform.gov/ngda-address/
• Puerto Rico Address Data Working Group
  • https://communities.geoplatform.gov/ngda-address/puerto-rico-address-data-working-group/
• PRADWG as a Proof Point for the Federal Data Strategy
  • https://strategy.data.gov/proof-points/2019/07/26/pradwg/
Puerto Rico Civic Address Standardization Initiative Technical Advisory Task Force (PRCasita) Update
Address Content White Paper Supplement Review
White Paper Supplement: Purpose

NAD capabilities that are both:

• Supported by the new address classes, elements, and attributes recommended by the Content Subgroup.
• Not supported by the current NAD Pilot Schema, as it was adapted from the CLDXF address data exchange standard.
Additional capabilities:

• Include intersection addresses and two-number range addresses.
• Show the address classification (per FGDC standard), supporting record structure assignment and class-dependent QC rules and tests.
• Record the elevation for each address point, optionally.
• Relate addresses to each other where useful.
• Note if and how address does not conform to local address assignment rules (Address Anomaly Status).
• Provide for additional free-text description of the address location, optionally. (Location Description).
White Paper Supplement: Capabilities Cont.

Additional capabilities continued:

- Relate addresses to their corresponding land parcels, if such data is provided by NAD data suppliers (Address Parcel Identifier Source; Address Parcel Identifier).
- Use the Census Bureau’s standard FIPS State and FIPS County Codes to standardize the recognition of states/state equivalents and counties/county equivalents, and to provide a standard representation of their names.
- Provide a flag to separate address records with no subaddress information from address records that include subaddress information, when desired.
- Upon receipt of each dataset from any data supplier, create/record metadata for the dataset and supplier sufficient to enable backwards communication with the data supplier (Dataset ID).
Subaddress capabilities:

- Minimize barriers to participation by importing/transforming/loading subaddress data that is:
  - Unparsed
  - Parsed into elements (without or without CLDXF classification)
  - Fully parsed into elements, types and IDs
- Maximize usefulness to users by having the capability to produce, from the NAD address records in various record formats, the three sub-bullets above plus:
  - Other subsets and combinations of Subaddress Type, Subaddress ID, Subaddress Element, and Complete Subaddress, as desired.
- These capabilities are conferred by adding the Complete Subaddress, Subaddress Element, Subaddress ID, and Subaddress Type.
  - The five subaddress elements in the NAD Pilot Schema are logical subtypes of the Subaddress Element.
Address Content Subgroup Update
Recap

• Approach: NAD Scope → Workflow → Capability → Content

• Sources: FGDC, CLDXF, NAD Pilot Schema, Workflow Subgroup recommendations

• Recommendations:
  1. Minimum data set (mandatory items)
  2. Maximum data set (mandatory + optional items)
  3. Excluded items
NAD Purpose and Scope

Inclusions: The national address database shall organize and store, in a single spatial database, all United States addresses of the following classes, as defined in the FGDC address data standard:

**Thoroughfare Classes**
- Numbered thoroughfare addresses ("123 Main Street")
- Intersection addresses ("Boardwalk and Park Place")
- Two-number address ranges ("4641-4651 Tanglewood Drive")
- Unnumbered thoroughfare addresses (e.g., "Ili-Ili Airport Road")

**Landmark Classes**
- Landmark addresses ("United States Capitol Building")
- Community addresses ("23B Edgewater Park")

**Exclusion:** Road centerlines and four number address ranges
NAD Capabilities

1. Provide the address data elements and data record structures needed for the six address classes
2. A unique, permanent UUID that persists for each address
3. Address authority
4. Address mapping: XYZ coordinates and position
5. Address-to-address relationships.
6. Address-to-parcel relationships
7. Address documentation and quality control
8. Address provider and dataset identification
9. Support for NAD workflows
NAD Content

Address Elements
- Address number, Street name, Subaddress elements
- Landmark name elements
- Place and state name elements
  - Required – County, Municipality, Postal City
  - Optional – Census Designated Place, Neighborhood, Tribal Areas, Urbanizacion, Other

Address Attributes
- Address UUID, address authority
- Address coordinates and address position
- Address relationship type
- Address-parcel ID and ID source
- Address classification and other documentation and QC attributes
- Address direct source and dataset ID
- QC test results

NAD metadata and dataset metadata
Proposed Changes

• For elements where the FGDC definition and CLDXF definition are the same or similar, the FGDC definition will be used

• Bulk Delivery ZIP Code, Bulk Delivery ZIP Plus 4 Add – Excluded

• Building, Floor, Unit, Room, Additional Location Info combined into Subaddress Element

• GUID changed to UUID
NAD Content (Cont.)

New Attributes

• Mandatory
  • Address Classification – One of the six NAD address classes
  • Data Set ID

• Optional
  • Address Elevation
  • Address Feature Type
  • Address Lifecycle Status
  • Address Anomaly Status
  • Related Address ID
  • Address Relation Type
  • Address Parcel Identifier Source
  • Address Parcel Identifier
  • Address Anomaly Status
  • Location Description
  • Subaddress Component Order
  • Element Sequence Number
  • Place Name Type
  • FIPS State County Code
  • Delivery Address Type
  • Address Reference System Name
  • Date Last Updated
  • Multi-Unit Address Flag
Work Since August 2019

• Provided white papers in response to committee questions
• Reviewed Federal User Group workshop recommendations
• Discussion of additional place name items
• Discussion of three additional attributes
Preparing full report for submittal to the committee, covering:

1. Review of NAD studies and reports since 2012
2. NAD Scope
3. Workflow Subgroup recommendations
4. NAD capability/content list (28 capabilities)
5. Detailed address content item descriptions
6. Additional tasks for 2020
Action Items
Thank You

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