

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
6. Puerto Rico Civic Address Standardization Initiative Technical Advisory Task Force (PRCasita) Update – Raul Rios
7. Address Content White Paper Supplement Review – Ed Wells
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

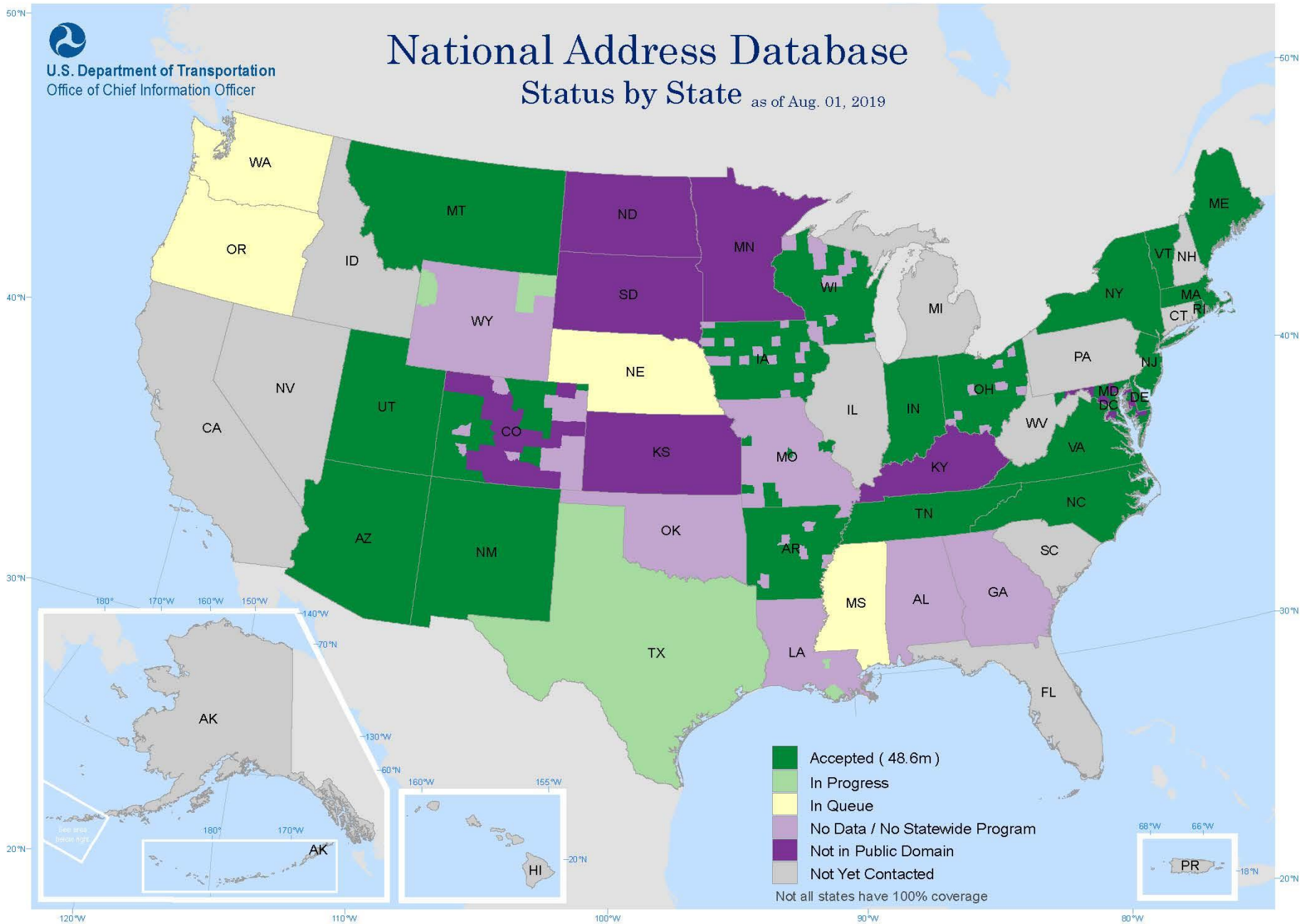
- Address Subcommittee White Paper Supplement
- Meetings with USPS on NAD ZIP Codes
- Address Content White Paper

NAD Updates



U.S. Department of Transportation
Office of Chief Information Officer

National Address Database Status by State as of Aug. 01, 2019



Puerto Rico Address Data Working Group Update

Phase Two Objectives

PRADWG Phase One

PRADWG Phase Two

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.

PRADWG Phase Three

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.

White Paper Supplement: Capabilities

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).

White Paper Supplement: Capabilities Cont.

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, Urbanization, 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

NAD Content (Cont.)

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

Work Since August 2019 – Main Effort

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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