

Address Subcommittee Meeting



February 5, 2020
11:00 pm– 12:30 pm Eastern
U.S. Census Bureau
Suitland, MD

Meeting Agenda

- 1. Welcome and Introductions/Roll Call**
- 2. Action Items from January Meeting**
 - **Update on FIPS vs. GNIS Codes – Matt Zimolzak**
- 3. NAD Updates – Amy Nelson**
- 4. National States Geographic Information Council (NSGIC) NAD Stakeholder Workshop – Lynda Liptrap**
- 5. Oak Ridge National Laboratory USA Structures Program – Mark Tuttle**
- 6. Address Workflow Validations Matrix – Matt Zimolzak**
- 7. Address Content Subgroup Update – Dave Cackowski**
- 8. Puerto Rico Address Data Working Group Update – Lynda Liptrap**
- 9. Initiative for Civic Address Systems Assessment in Puerto Rico (iCASA PR) – Raul Rios**
- 10. Action Item Review – Dave Cackowski**
- 11. Adjourn**

November Meeting Action Items

- Update on FIPS vs. GNIS Codes – Matt Zimolzak

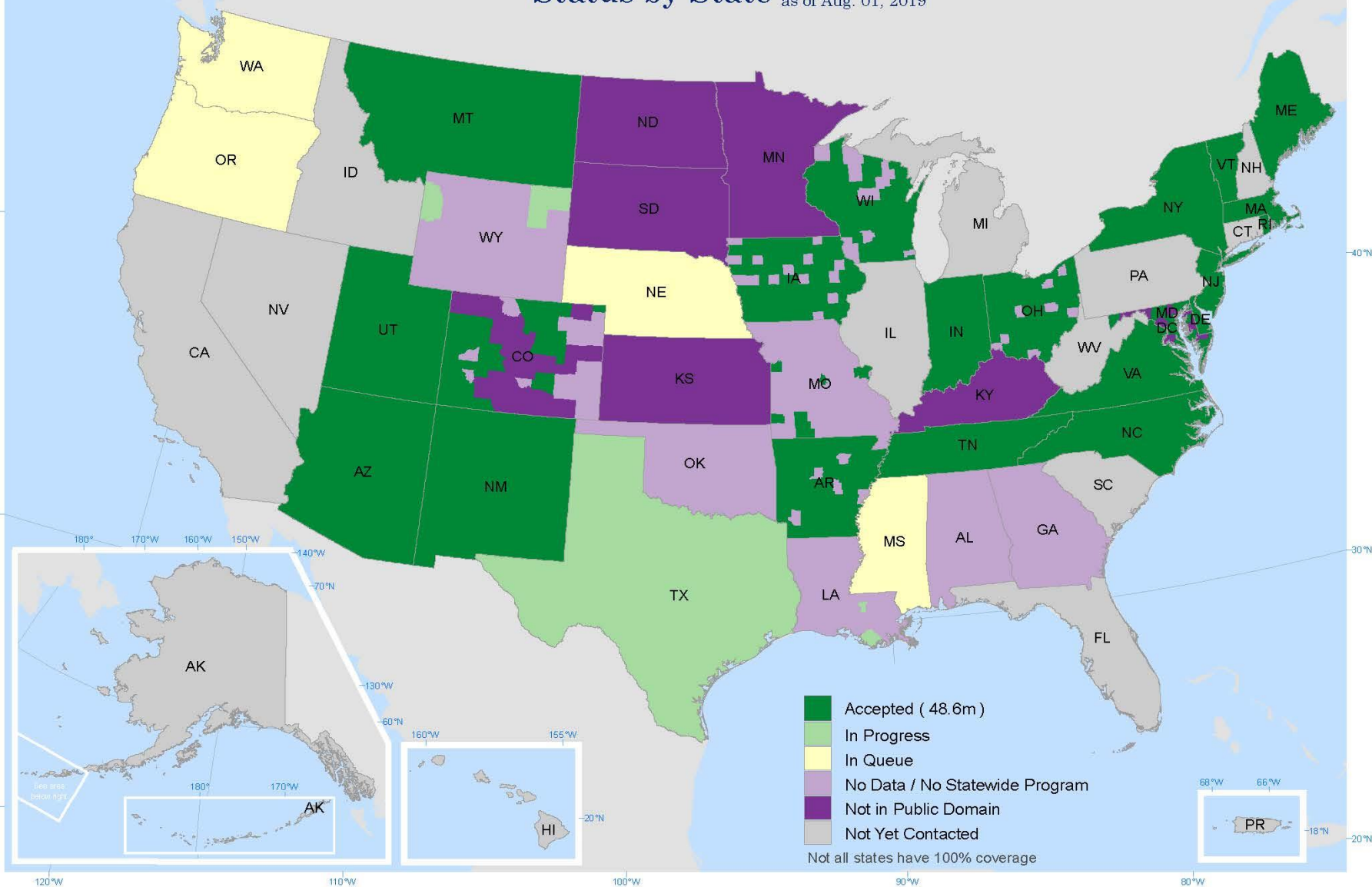
NAD Updates



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

National Address Database

Status by State as of Aug. 01, 2019



National States Geographic Information Council (NSGIC)

NAD Stakeholder Workshop

NSGIC NAD Stakeholder Workshop



National Address Database Stakeholder Workshop: Developing Strategies to Support a Sustainable NAD

Workshop Information

In conjunction with the National States Geographic Information Council (NSGIC) Midyear Meeting, NSGIC is convening a half-day workshop for state and federal stakeholders of the National Address Database.

Goals:

- Develop a recommendation for the lead federal agency for the NAD
- Explore potential funding sources for NAD support
- Identify existing programs that can be used to support the NAD
- Explore NAD value and beneficiaries, including federal and state agencies and programs and in the private sector
- Define the role NSGIC can play to facilitate the development and aggregation of the state address databases for incorporation into the NAD

WHERE

Monday, March 2, 2020
8:30am - 12:30pm

Hotel Albuquerque
800 Rio Grande Blvd NW
Albuquerque, NM 87104

Oak Ridge National Laboratory USA Structures Program

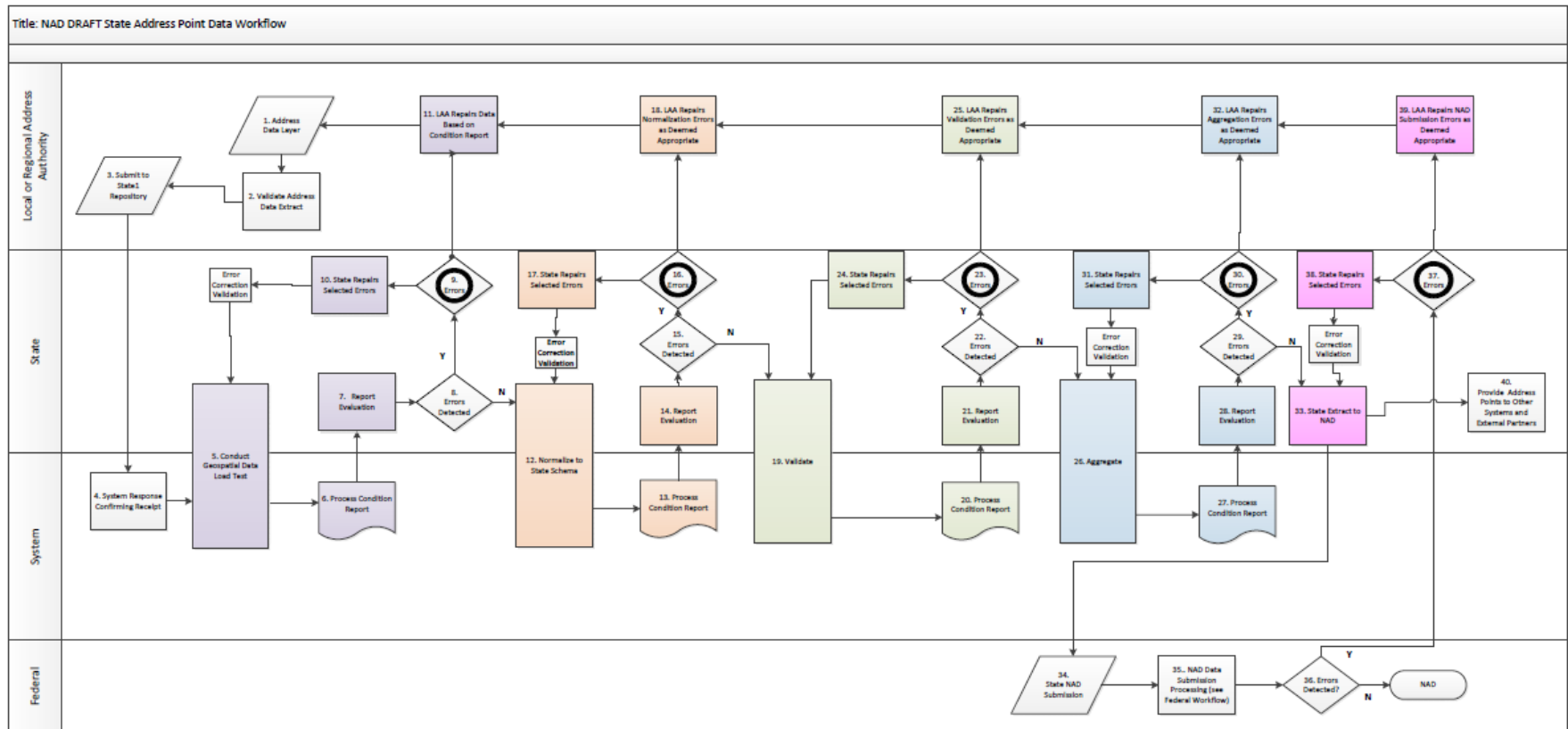
Address Workflow Validations Matrix

Address Workflow Validations Matrix

What is it?

- A more detailed supplement to address workflow charts
- Suggested validations and tests
- Both influencing and influenced by the ongoing work of the Address Content Subgroup.
- Continuously evolving / Work in progress

State Based Address Workflow Chart



Provides Detail for State / System Actor Actions

Primarily:

- Spatial Data Load Test (Ingest, Box 5)
- State Schema Normalization (Box 12)
- Validations (Box 19)
- But can (and does) apply to other actions/tasks from the Workflow Chart(s).

Address Workflow Validations Matrix

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
1	Address Workflow Validations			Version 0.81																
2	Val ID	Validation	Sub-Validation	Condition	Federal	Box	State	Box	County	Box	Other	Box	thoroughfare	intersection	Number	Unnumbered	landmark	Community	Details	
3	Spatial Validations																			
4	1	Each address record has a coordinator (both X,Y), not null, and the coordinate falls into the Northern/Western hemisphere of the Earth.		Required	✓		✓	5	✓		✓		✓	✓	✓	✓	✓	✓	Falls within the appropriate bounding box range of coordinator.	
5	2	Each address is located in correct jurisdiction.		Required	✓		✓	19	✓		✓		✓	✓	✓	✓	✓	✓		
6	2a		State	Required	✓		✓	19	✓		✓		✓	✓	✓	✓	✓	✓		
7	2b	County, Parish, Alaska Borough		Required			✓	19	✓		✓		✓	✓	✓	✓	✓	✓		
8	2c		Incorporated Municipality	Required			✓	19	✓		✓		✓	✓	✓	✓	✓	✓		
9	3	Each address record falls on the correct side of the road.		Recommended			✓	19	✓		✓		✓		✓				Requires appropriate road centerline file with range and parity information.	
10	4	Each address falls within the address range on the road centerline.		Recommended			✓	19	✓		✓		✓		✓				Requires appropriate road centerline file with range and parity information.	
11	5	Each address record has a unique identifier (e.g., parcel number) that is documented in the jurisdiction's official records.		Required	✓		✓	5	✓				✓	✓	✓	✓	✓	✓		
12	6	Run file-based processes from address point to known street name.		Recommended			✓	19	✓		✓		✓		✓				Requires appropriate road centerline file with range and parity information.	
13	Schema Validations																			
14	7	Schema validation - Validate that the data is in the NAD 83 schema.		Mixed	RQ		Rc	26	Rc		Rc		✓	✓	✓	✓	✓	✓	Based on the NAD Schema and minimum content guidance.	
15	8	Each record contains the mandatory data elements.		Required	✓		✓	5	✓		✓		✓	✓	✓	✓	✓	✓		
16	8a	A unique ID is included for each address record, is not duplicated elsewhere in the same dataset, and is alphanumeric.		Mixed	RQ		RQ	12	Rc		Rc		✓	✓	✓	✓	✓	✓		
17	8b	Each address record has an address authority (data creator) populated (not null).		Required	✓		✓	5	✓		✓		✓	✓	✓	✓	✓	✓		
18	8c	Each address record has an address date (start date or verified) populated (not null), in a year-month format.		Required	✓		✓	5	✓		✓		✓	✓	✓	✓	✓	✓	Date format down to the day is optional, but optional.	
19	8d	Each address record has an address number (not null).		Required	✓		✓	5	✓		✓		✓		✓			✓		
20	8e	Each address has the mandatory (FGDC) element for the address class it has been assigned to.		Required	✓		✓	12	✓		✓		✓	✓	✓	✓	✓	✓	Not all states or local may assign a class for an address.	
21	8f	Each address record has an address street name (not null), and is alphanumeric.		Required	✓		✓	12	✓		✓		✓	✓	✓	✓	✓	✓		
22	8g	County or equivalent is populated for each address record by the address provider or by the aggregator.		Mixed	RQ		RQ	12	RQ		Rc			✓	✓	✓	✓	✓	Unincorporated Borough in Alaska and independent cities such as Baltimore, MD, Chicago, IL, St. Louis, MO, and Alaska in Alaska.	
		Incorporated municipality (e.g., city, town, name																		
Address Workflow Validations																				

Features

- Organized in a matrix format
 - Check marks or box numbers
 - Easy cross-referencing
- Validation Categories
 - Spatial
 - Schema
 - Data
 - Anomalies
- Validation ID - Numeric reference for validation
- Validations / Sub-Validations - Specific tests
- Condition - Required / Recommended
 - Occasionally Mixed, based on specific circumstances.

Features (Continued)

- Actor / Box #
 - Repeated for each actor Address Workflow Chart
 - Box # currently populated for State actor only
- Six FGDC Address Classes:
 - Thoroughfare
 - Intersection
 - 2 Number
 - Unnumbered
 - Landmark
 - Community
- Details - Relevant notes / information

Validations Review / Future Features

- Individual Validations Review (Time permitting)
- Future Features
 - Populate Box #s for other actor, address workflow charts
 - New tab for FGDC Address Standard, Validation Test IDs
 - Cross-referenced by Validation ID / Validation
 - Currently in development by the team

Questions and Discussion

Questions and Discussion

Address Content Subgroup Update

Work Since August 2019

- Provided white papers in response to committee questions
- Reviewed Federal User Group workshop recommendations
- Discussion of additional place name items including:
 - Overlapping municipalities
 - Native American Areas
- Discussion of 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

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

- Initial Draft Phase 2 Report completed last week
- Report to the Address Subcommittee expected for March meeting

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/>

Initiative for Civic Address Systems Assessment in Puerto Rico (iCasaPR) Update

Action Items

Thank You



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