

# Address NC: Newly Proposed Standard

## Background and Approval

Matthew McLamb, Assistant CGIA Director  
*August 11, 2021*



# AddressNC Background

- **Two previous efforts**
  - **2009 AddressNC effort driven by 2010 Census**
  - **2014 AddressNC effort funded by NTIA's State Broadband Initiative Grant**
- **Ongoing funding was procured in 2016**
  - **Implementing the use of funding on hold due to the Next Generation 9-1-1 (NG9-1-1) project.**



# AddressNC Update Status

- **NG9-1-1 provides a platform where addresses are compiled in a statewide dataset by the authoritative source.**
- **NG9-1-1 full i3 implementation scheduled to be complete by end of 2021 or beginning of 2022.**
- **Counties and PSAPs are required to maintain updates to data in the system.**
- **Using data from NG9-1-1 will allow for ongoing maintenance to AddressNC.**



# **AddressNC Steering Committee**

- **Formed in June 2020**
- **Monthly Meetings Began in July 2020**
- **17 Members**
- **Assisting with guidance and feedback**
  - **QA/QC Checks**
  - **Completeness Checks**
  - **New Standards**
  - **End Products and Tools**



# AddressNC Steering Committee Members

- CURISA Addressing Group representative from MapForsyth
- Davidson County
- Department of Revenue
- NC Association of County Commissioners
- NC DHHS
- NC DIT Broadband Infrastructure Office
- NC DIT CGIA
- NC DIT Government Data Analytics Center
- NCDIT Transportation GIS Unit
- NC DOI Office of the State Fire Marshal
- NC League of Municipalities representative from City of Greenville.
- NC Office of State Budget and Management
- NC State Board of Elections



# AddressNC Proposing a New Standard

- **Steering Committee discussed the new standard in three 75-minute meetings in Quarter 4 of 2020.**
- **Most of the discussion centered around which fields to include in the data.**
  - **Compared NENA i3 Standard v1, NAD, FGDC, 2009 Address NC, and 2014 AddressNC**
  - **Considered other uses and needs outside of the 9-1-1 realm – Census, Elections, Revenue, Transportation.**

# AddressNC Proposing a New Standard

NENA Field Alias	NENA Field Name	NAD Schema Field Names	FGDC Content Standard	AddressNC 2009	AddressNC 2014	AddressNC 2021_Name	AddressNC 2021_Type	AddressNC 2021_Length	Comments
Discrepancy Agency ID*	DiscrpAgID*	AddAuth	Address Authority			Source*	Text	75	Field would list either the jurisdiction's discrepancy agency ID or "CGIA" when the data was generated by CGIA.
Data Updated*	DateUpdate*	LastUpdate*				DataUpdate*	Date		
Effective Date	Effective	Effective	Address Start Date			Effective	Date		
Expiration Date	Expire	Expired	Address End Date			Expired	Date		
Site NENA Globally Unique ID*	Site_NGUID*	GUID*	Address ID*			UniqueID	Text	254	
State*	State*	State*	State Name	STATE_NAME	STATE	State*	Text	2	
County*	County*	County*		COUNTY	COUNTY_NAME	County*	Text	40	
Incorporated Municipality*	Inc_Muni*					Inc_Muni*	Text	100	
Unincorporated Community	Uninc_Comm	Uninc_Comm				Uninc_Comm	Text	100	
Neighborhood Community	Nbrhd_Comm	Nbrhd_Comm				Nbrhd_Comm	Text	100	
Address Number	Add_Number	Add_Number*	Address Number	ADDRESS_NU	ADDR_HN	Add_Number	Long Integer		
Address Number Suffix	AddNum_Suf	AddNum_Suf	Address Number Suffix		SUB_HN	AddNum_Suf	Text	15	
Street Name Pre Modifier	St_PreMod	StN_PreMod	Street Name Pre Modifier			St_PreMod	Text	15	
Street Name Pre Directional	St_PreDir	StN_PreDir	Street Name Predirectional	STR_PR_DIR	ADDR_PD	St_PreDir	Text	9	
Street Name Pre Type	St_PreTyp	StN_PreTyp	Street Name PreType	STR_PR_TYP	ADDR_PT	St_PreTyp	Text	50	
Street Name Pre Type Separator	St_PreSep	StN_PreSep	Separator Element			St_PreSep	Text	20	
Street Name*	St_Name*	StreetName*	Street Name	STR_NAME	ADDR_SN	St_Name*	Text	60	
Street Name Post Type	St_PosTyp	StN_PosTyp	Street Name Posttype	STR_PO_TYPE	ADDR_ST	St_PosTyp	Text	50	
Street Name Post Directional	St_PosDir	StN_PosDir	Street Name Postdirectional	STR_PO_DIR	ADDR_SD	St_PosDir	Text	9	
Street Name Post Modifier	St_PosMod	StN_PosMod	Street Name Post Modifier			St_PosMod	Text	25	
Legacy Street Name Pre Directional	Lst_PreDir			STR_PR_DIR	ADDR_PD	Lst_PreDir	Text	2	
Legacy Street Name*	Lst_Name*			STR_NAME	ADDR_SN	Lst_Name*	Text	75	
Legacy Street Name Type	Lst_Type			STR_PO_TYPE	ADDR_ST	Lst_Type	Text	4	
Legacy Street Name Post Directional	Lst_PosDir			STR_PO_DIR	ADDR_SD	Lst_PosDir	Text	2	
MSAG Community Name*	MSAGComm*				Community	MSAGComm*	Text	30	
Postal Community Name	Post_Comm	Post_Comm			PO_NAME	Post_Comm	Text	40	
Postal Code	Post_Code	Zip_Code*	ZIP Code	ZIP_CODE	ZIPCODE	Post_Code	Text	7	
Building	Building	Building			BUILDING_I	Building	Text	75	
Floor	Floor	Floor	Address Z Level			Floor	Text	75	
Unit	Unit	Unit		UNIT_IDENT	APT_UNIT	Unit	Text	75	
Additional Location Information	Addtl_Loc	Addtl_Loc	Location Description			Addtl_Loc	Text	225	
Complete Landmark name	LandmkName	LandmkName	Complete Landmark Name	LANDMARK_N		LandmkName	Text	150	The new NENA standard may eliminate this field. We will preserve it for now, but it will be revisited once new NENA standards are adopted.
Place Type	Place_Type	Addr_Type		PLACE_NAME	RES_TYPE	Place_Type	Text	50	Refer to Place Type Domain tab for the list of accepted domains.
Placement Method	Placement	Placement	Address Position	PROCESS		Placement	Text	25	Refer to Placement Domain tab for the list of accepted domains.
Longitude	Long*		Address Longitude	ADDRESS_LO	POINT_X	Long	Double		Calculated in NC State Plane NAD83 Feet (ESPG: 2264)
Latitude	Lat	Lat*	Address Latitude	ADDRESS_LA	POINT_Y	Lat	Double		Calculated in NC State Plane NAD83 Feet (ESPG: 2264)
Elevation	Elev		Address Elevation			Elev	Short Integer		
		NatGrid_Coord*	US National Grid Coordinate	USNG_COORD	USNG	USNG	Text	20	
		Source*	Address Direct Source						Metadata will provide source information.
				COMP_STR	FULL_ADDRESS	St_Address	Text	100	Concatenated full address
				STATE_FIPS	STATE_ID	StateFIPS	Short Integer		
			ANSI State County Code	COUNT_FIPS	FIPS	CountyFIPS	Short Integer		
				TRACT		Tract	Double		
				BLOCK		Block	Double		Block group is the first digit of this four digit code
						Block	Double		
						GEOID	Text		11 Concatenate of StateFIPS, CountyFIPS, BlockGroup, Tract, and Block fields.
					COORSYS				Metadata will provide coordinate system information.
					DDLlat	DDLlat	Text	12	Calculated in WGS84 (ESPG: 4326)
					DDLlong	DDLlong	Text	12	Calculated in WGS84 (ESPG: 4326)
						PlusCode(Open Location Code)	Text	25	Per the guidance on naming on Google's GitHub, we should be referring to this as plus code as this will be presented to users of the data and not developers. <a href="https://github.com/google/open-location-code/wiki/Naming-Guidelines">https://github.com/google/open-location-code/wiki/Naming-Guidelines</a>



# Proposal - Address NC Standard

- **Geographic Data Content Standard for AddressNC Document**
  - **North Carolina State Plane NAD83 (ESPG: 2264)**
  - **Fields (name, alias, type, length, domain, description, expected use frequency)**
  - **Domains**
    - **Place Type**
    - **Placement Type**
  - **Metadata Content**





# AddressNC Timeline

2021

Q1

- Steering Committee Meetings Concluded
- New AddressNC Data Standard Drafted

Q2

- Provide New Standard to SMAC
- Begin Data and Tool Prototyping & Identify Testers

Q3

- Propose New Standard to SMAC and GICC
- Data and Tool Prototype Testing
- NG9-1-1 Data Governance Policy Finalized

Q4

- NG9-1-1 GIS Data i3 Ready
- Final Data Product and Tools Tested
- Publish AddressNC Data and Tools

**Vote for Schema Approval**



# Thank you!

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