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The purpose of this document is to lay out the proposed (v1) NAD Schema for storing data in the NAD, including all attribute fields and domains. This schema is in line with the [NAD Minimum Content Standard](#) approach that has already been laid out and generally agreed upon by most who have reviewed it. This schema was developed as part of the NAD Pilot project, and it is anticipated that this schema will evolve over time as the NAD becomes a reality.

Please note that this is not a minimum schema for submission - it is anticipated that many of the fields may be null for many records, or perhaps nonexistent depending on the source data. The “Expected Use” column indicates whether a field is generally “always used”, “commonly used”, “occasionally used”, or “rarely used” within a dataset to give submitters a sense of expectations. (Note: a “commonly used” attribute may be null for the majority of records, but is still likely to be utilized within an address database). The proposed schema is a single flat table (non-relational) based largely on the NENA CLDXF standard (http://c.ymcdn.com/sites/www.nena.org/resource/resmgr/Standards/NENA-INF-014.1-2015_SSAP_INF.pdf).

NAD Schema

Field Name	Field Alias	Type	Length	Domain	Description	Expected Use
State	State	text	2	Domain	Name of the state or state equivalent	always used
County	County	text	40	Domain	Name of county or county-equivalent where the address is located	always used
Inc_Muni	Incorporated Municipality	text	100	None	Name of the incorporated municipality or other general -purpose local governmental unit where the address is located	commonly used
Uninc_Comm	Unincorporated Community	text	100	None	Name of an unincorporated community, either within an incorporated municipality or in an unincorporated portion of a county, or both where the address is located.	commonly used
Nbrhd_Comm	Neighborhood Community	text	100	None	Name of an unincorporated neighborhood, subdivision or area, either within an incorporated municipality or in an unincorporated portion of a county or both, where the address is located.	commonly used

Field Name	Field Alias	Type	Length	Domain	Description	Expected Use
Post_Comm	Postal Community Name	Text	40	none	A city name for the ZIP code of an address, as given in the USPS City State file	commonly used
Zip_Code	ZIP Code	Text	7	none	For standard street mail delivery (with a corresponding geographic delivery area), the system of 5-digit codes that identifies the individual USPS Post Office associated with an address.	always used
Plus_4	Zip Plus 4 Addition	text	7	none	The ZIP plus 4 code (without the dash) Example: 1234	occasionally used
Bulk_Zip	Bulk Delivery ZIP Code	Text	7	none	For Bulk Delivery (e.g., government mailroom) zip codes with no corresponding geographical area, the system of 5-digit codes that identifies the individual delivery location associated with an address.	rarely used
Bulk_Plus4	Bulk Delivery ZIP Plus 4 Addition	text	7	none	For Bulk Delivery (e.g., government mailroom) zip codes with no corresponding geographical area, The ZIP plus 4 code (without the dash) Example: 1234	rarely used
StN_PreMod	Street Name Pre Modifier (PRM)	Text	15	None	Word or phrase that precedes and modifies the Street Name element or is placed outside the Street Name element so that the Street Name element can be used in creating a sorted list of complete street names	commonly used
StN_PreDir	Street Name Pre Directional (PRD)	Text	50	Domain	Word preceding the Street Name element that indicates the direction taken by the street from an arbitrary starting point or line, or the sector where it is located	commonly used
StN_PreTyp	Street Name Pre Type (STP)	Text	25	domain	Word or phrase that precedes the Street Name element and identifies a type of thoroughfare in a complete street name	commonly used
StN_PreSep	Street Name Pre Type Separator (STPS)	Text	20	domain	Preposition or prepositional phrase between the Street Name Pre Type and the Street Name	commonly used
StreetName	Street Name (RD)	text	60	None	The element of the complete street name that identifies the particular street (as opposed to any street types, directionals, and modifiers).	always used

Field Name	Field Alias	Type	Length	Domain	Description	Expected Use
StN_PosTyp	Street Name Post Type (STS)	Text	15	domain	Word or phrase that follows the Street Name element and identifies a type of thoroughfare in a complete street name	commonly used
StN_PosDir	Street Name Post Directional (POD)	Text	50	domain	A word following the Street Name element that indicates the direction taken by the street from an arbitrary starting point or line, or the sector where it is located.	commonly used
StN_PosMod	Street Name Post Modifier (POM)	Text	25	None	A word or phrase that follows and modifies the Street Name element, but is separated from it by a Street Name Post Type or a Street Name Post Directional or both	commonly used
AddNum_Pre	Address number prefix (HNP)	Text	15	None	An extension of the Address Number that precedes it and further identifies a location along a thoroughfare or within a defined area	commonly used
Add_Number	Address number (HNO)	Long	6	None	The whole number identifier of a location along a thoroughfare or within a defined community.	always used
AddNum_Suf	Address number suffix (HNS)	Text	15	None	An extension of the Address Number that follows it and further identifies a location along a thoroughfare or within a defined area.	commonly used
LandmkPart	Landmark Name Part (LMKP)	Text	150	None	The name or collection of names by which a prominent feature is publicly known.	occasionally used
LandmkName	Landmark (LMK)	Text	150	None	The name by which a prominent feature is publicly known.	occasionally used
Building	Building (BLD)	Text	75	None	One among a group of buildings that have the same address number and complete street name.	commonly used
Floor	Floor (FLR)	Text	75	None	A floor, story, or level within a building.	commonly used
Unit	Unit (UNIT)	Text	75	None	A group or suite of rooms within a building that are under common ownership or tenancy, typically having a common primary entrance.	commonly used
Room	Room (ROOM)	Text	75	None	A single room within a building.	rarely used

Addtl_Loc	Additional Location Information (LOC)	Text	225	None	A part of a subaddress that is not a building, floor, unit, or room.	rarely used
Field Name	Field Alias	Type	Length	Domain	Description	Expected Use
Milepost	Milepost	text	50	none	A posted numeric measurement from a given beginning point, they may or may not be actual milepost. Milepost numbers are useful for specifying locations along interstate highways, recreational trails, and other unaddressed routes, as well as stretches of county, state, federal, and other routes where distance measurements is posted. Milepost numbers may be given in place of or in addition to Address Numbers Example: Mile Marker 231.5	rarely used
Long	Address Longitude	Float	12	None	Address Longitude, derived based on point placement	always used
Lat	Address Latitude	Float	11	None	Address Latitude, derived based on point placement	always used
NatGrid_Coord	National Grid Coordinates	text	50	None	National Grid Coordinate, derived based on point placement	always used
GUID	GUID	GUID		None	Globally Unique Identifier (also known as Universally Unique Identifier - <i>UUID</i>), automatically generated	always used
Addr_Type	Address Type	Text	50	domain	Indicates the general use of the address (residential, commercial, etc) The type of feature identified by the address	commonly used
Placement	Address Placement	Text	25	domain	Method used to place the address point	commonly used
Source	Address Source	text	75	None	Entity that provided the data to the NAD (this could be different than the authority. For example, the state may aggregate from the counties and then submit to the NAD. In this case, the state would be the source and the authority would be the county.)	always used
AddAuth	Address Authority	text	75	None	Entity responsible for the address assignment and maintenance	commonly used
UniqWithin	Unique Within	text	75	None	The name of the area within which the address should be assumed to be unique.	occasionally used
LastUpdate	Date Last Updated	date	26	None	Date that the address was last updated in the database	always used

Effective	Effective Date	date	26	None	Date that the address becomes effective (may be past or future)	commonly used
Expired	Expiration Date	date	26	None	Date that the address expires	commonly used

Domains

Address Placement

Structure - Rooftop
 Structure - Entrance
 Structure - Interior Unit Location
 Parcel - Centroid
 Parcel - Other/Manual Placement
 Linear Geocode
 Property Access Point
 Site Placement
 Other
 Unknown

[See example images of each address placement type](#)

Address type

Residential (Housing)
 Commercial (Office, Retail, Restaurant, Banking)
 Multi-Use (mixed commercial/residential)
 Open Space (Forest, vacant, cemeteries)
 Industrial
 Government/Public Services (Fire/Police, Library, Government offices)
 Religious
 Recreation (Ball fields, parks, golf courses, ski area)
 Educational (Schools, Universities)
 Institutional (Hospitals, group homes, Prisons, etc)

Other
Unknown

State

<http://pe.usps.gov/cpim/ftp/pubs/Pub28/Pub28.pdf>

County

www.census.gov/geo/reference/codes/cou.html

Street Name Pre Directional

North
Northeast
East
Southeast
South
Southwest
West
Northwest

Street Name Pre Type

As referenced in the CLDXF standard, these values are found in the USPS Publication 28 Appendix C1 (http://pe.usps.gov/text/pub28/28apc_002.htm)

Street Name Pre Type Separator (CLDXF Section 4.1)

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Street Name Post Type

As referenced in the CLDXF standard, these values are found in the USPS Publication 28 Appendix C1 (http://pe.usps.gov/text/pub28/28apc_002.htm)

Street Name Post Directional

North

Northeast

Northwest

South

Southeast

Southwest

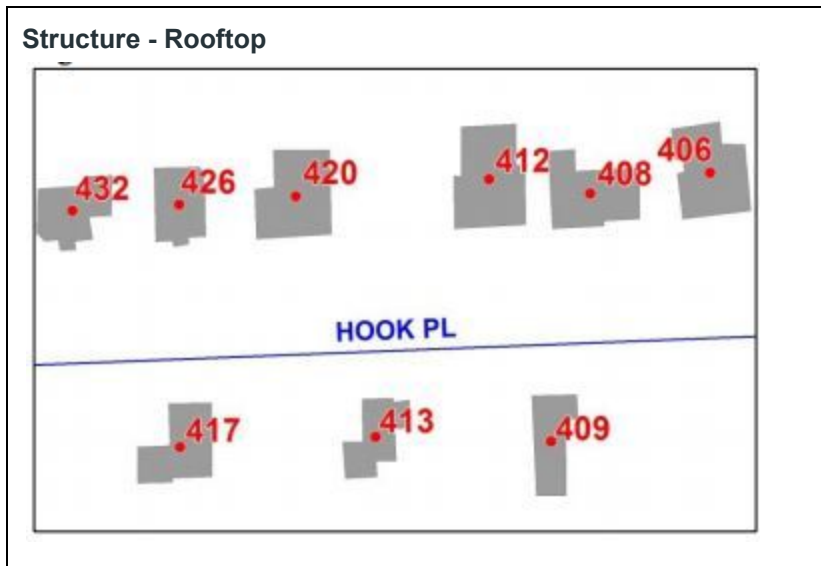
East

West

Details of Address Placement

The following section provides examples of each address placement domain value. The images are pulled from the “NENA Information Document for Development of Site/Structure Address Point GIS Data for 9-1-1” which can be found here:

http://c.ymcdn.com/sites/www.nena.org/resource/resmgr/Standards/NENA-INF-014.1-2015_SSAP_INF.pdf



Structure - Entrance



Structure - Interior Unit Location



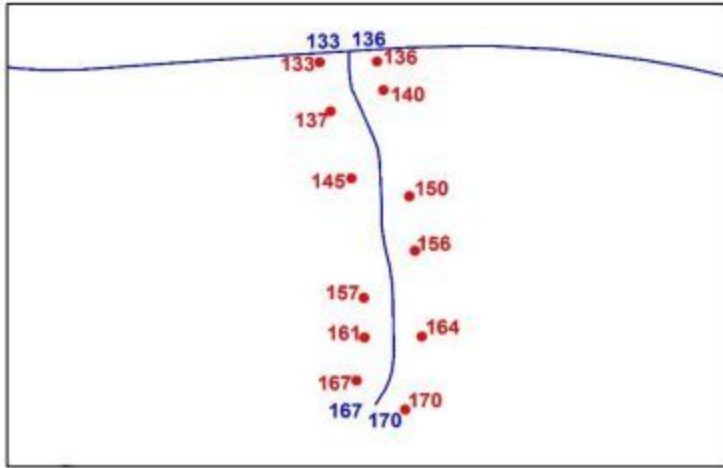
Parcel - Centroid



Parcel - Other/Manual Placement



Linear Geocode



Property Access



Site Placement



Other - some other method not listed

Unknown - unknown address placement method