



## State of Tennessee Participation in the National Address Database

### Tennessee Emergency Communications Board:

STS-GIS Services is contracted by the TN Emergency Communications Board (TECB) to manage data access for the NG911 data to Local, State, and Federal agencies, as well as other entities which request access to the dataset.

### NAD Background and Information:

In 2015, representatives from State, Local, and Federal governments, as well as for-profit and not-for-profit companies met to discuss the logistics and timeline for implementing a repository for nation-wide address points. The U.S. Department of Transportation (USDOT) was chosen to spearhead the program. Additional information can be found at the following url: <https://www.transportation.gov/gis/national-address-database/national-address-database-0>

USDOT and its partners from all levels of government recognize the need for a National Address Database (NAD). Accurate and up-to-date addresses are critical to transportation safety and are a vital part of Next Generation 9-1-1. They are also essential for a broad range of government services, including mail delivery, permitting, and school siting.

To meet this need, USDOT partners with address programs from state, local, and tribal governments to compile their authoritative data into the NAD. To date, the NAD contains data from 24 state government partners (with an additional 11 states in the queue), 17 local government partners, and 1 tribal government partner.

Over the course of multiple years, USDOT implemented the infrastructure for the NAD. The State of TN, STS-GIS Services has participated in the NAD since 2018.

### Workflow/Data Life Cycle:

The source for all Address Data which are used in TN's submissions to the NAD are the local Emergency Communications Districts (ECDs). The ECDs are, in most cases, the local addressing authority. Each of the 100 ECDs in TN send daily updates to True North Geographic (TNG), which aggregates the local datasets into a single statewide dataset.

STS-GIS Services pulls a weekly update from TNG, which is then transformed from the TN NG911 data schema into the NAD schema at the time of data upload to NAD. Additional information on the TN NG911 schema can be found at the following url:

<https://www.tn.gov/content/dam/tn/commerce/documents/e911/posts/GISStandardsNG911.pdf>

STS-GIS Services uploads an address feature class which has been converted into the NAD schema at the beginning of each quarter. Not all fields within the NAD schema can be populated at this time, as the incoming data is populated at the local ECD level. However, the fields required for use in the NAD are populated. Additional information on the NAD Schema can be found at the following url:

<https://www.transportation.gov/sites/dot.gov/files/docs/mission/gis/national-address-database/308816/nad-schema-v2.pdf>

**Populated National Address Database Fields as of 10/01/2021  
 (Fields Populated by ECD unless otherwise noted):**

The following fields are populated in the data submission from the State of TN to NAD unless otherwise noted.

Field Name	Type	Description
STATE	Text	Name of the state where the address point is located
COUNTY	Text	Name of the county where the address is located
POST_COMM	Text	Where applicable, SITUS Municipality
ZIP_CODE	Text	5-digit ZIP code, containing the destination Post Office
PLUS_4	Text	Final 4-digits of the ZIP code, containing delivery route information
STN_PREDIR	Text	SITUS Prefix Directional
STREETNAME	Text	SITUS Street Name
STN_POSTYPE	Text	SITUS Suffix Type, example "Road"
STN_POSTDIR	Text	SITUS Post Directional
STN_POSTMOD	Text	Post Modifier, example "Extension"
ADD_NUMBER	Long	SITUS Street Number
ADDNUM_SUF	Text	SITUS Street Number Suffix
BUILDING	Text	Building Designator
FLOOR	Text	Floor Designator
UNIT	Text	Unit Number
LONGITUDE*	Double	Longitude, in Decimal Degrees
LATITUDE*	Double	Latitude, in Decimal Degrees
NATGRID_COORD**	Text	Coordinates in National Grid Format
ADDR_TYPE	Text	Specialty Address Designator, example "Ball Field"
PLACEMENT	Text	Placement of Address Point, example "Rooftop"
SOURCE	Text	Source of Data, example "State of TN"
ADDAUTH	Text	Addressing Authority, usually the local ECD
LASTUPDATE	Date	Date of last modification
EFFECTIVE	Date	Date address point is effective, usually the date of creation

\* - Populated by State of TN STS-GIS Services prior to upload to NAD

\*\* - Populated by USDOT upon upload to NAD