



Office of Information
Technology Services

Street and Address Maintenance (SAM) Program Update

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October 19, 2017

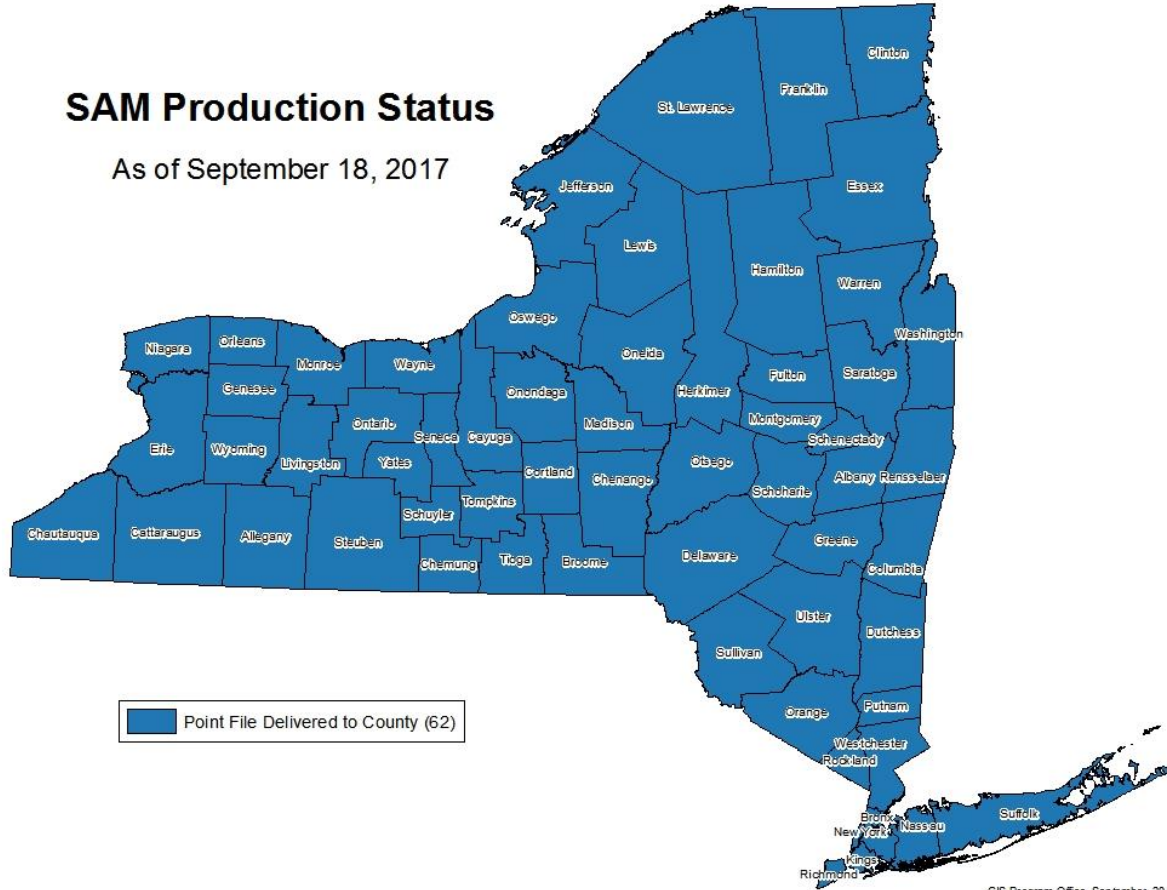
SAM Program Background

- **Street Address Mapping Project** → **Street and Address Maintenance Program**
 - SAM Project – Statewide Rooftop Address Point build
 - SAM Program – Maintaining Statewide Street and Address data

- March 2015 - Deployed and supporting GeoLynx

SAM Production Status

As of September 18, 2017





March 2015: GeoLynx data maintenance go live

27 counties trained to date

53,620 address point edits made by counties

695,762 address point edits made by GPO

338,593 street edits made by GPO

5,582 Change Requests from counties

Address Point Schema Changes

Additions

- **ESN**
- **Country**
- IncorporatedMunicipality
- UnincorporatedMunicipality
- NeighborhoodCommunity
- MSAGCommunityName
- MilePost
- SWIS_SBL_ID
- SWIS_PRINT_KEY_ID
- Notes
- MunicipalityType
- AddressType

Street Segment Schema Changes

Additions

- **ESNLeft**
- **ESNRight**
- **CountryLeft**
- **CountryRight**
- **ParityLeft**
- **ParityRight**
- LeftIncorporatedMunicipality
- RightIncorporatedMunicipality
- LeftUnincorporatedMunicipality
- RightUnincorporatedMunicipality

- LeftNeighborhoodCommunity
- RightNeighborhoodCommunity
- LeftMSAGCommunityName
- RightMSAGCommunityName
- SourceOfData
- Maintenance
- LeftMunicipalityType
- RightMunicipalityType

Deletions

- LeftCensusBlock
- RightCensusBlock

Updates in New York City

- Updated Address Points and SubAddress table
 - ~950,000 rooftop Address Points
 - ~2,500,000 SubAddress records in table (no geometry)
- Creating SubAddress Points
 - Will be stacked on Primary Point
 - Providing feedback to NYC on any issues
- Plan to load data into Production database during system upgrade
- Updating Address Ranges in Queens
 - Adding hyphens and splitting segments based on the Address Points
 - Providing feedback to NYC on discrepancies with LION file (one way streets, etc)

Finding Missing Addresses

County Partnerships

- Combination of Counties using GeoLynx and sharing locally edited data

National Grid

- Received customer addresses (no names) from NYC, Long Island & Upstate NY
- Will provide addresses to Counties for research

NYS DMV

- Received statewide unverified customer addresses (no names)
- Provided addresses to Cornell for research and possible distribution

Other Ongoing Activities

- 2020 Census Preparation Pilot
 - Tompkins, Ontario, Oneida Counties
 - Local Update of Census Addresses (LUCA)
- Continue to provide quarterly updates to Census Bureau
- Creating scripts to convert SAM data into various 9-1-1 CAD system formats
 - TriTech (Tiburon)
 - Tyler (New World)
 - Caliber (Interact)

Other Ongoing Activities

- National Emergency Numbering Association (NENA) Standards
 - *GIS Data Model for NG9-1-1* (currently reviewing Public comments)
 - *GIS Data Stewardship for NG9-1-1* (currently in development)
- NYS NG-911 GIS Working Group
- Contributing to US DOT/Census National Address Database (NAD)
 - Wrote script to convert SAM data into NAD format
- Contributing to Open Addresses


Public Access to Address Data

[Cooperative Members]

GIS Data Set Details

Data Set Name	Description	Theme	Metadata
NYS Address Points <i>Revised: Oct 2017</i>	Point files of addressed properties in New York State. Please refer to the Metadata for more information.	Address	Metadata

Supporting Documentation

[Data Dictionary - Address Points](#) 

[Geocoding – ESRI Instructions](#)

Web Service

A web service of the SAM Address Point file is available here: http://gisservices.dhSES.ny.gov/arcgis/rest/services/SAM_Address_Points_Symbolized. The web service named SAM_Address_Points_Symbolized has different symbology for each of the 5 PointType values (see image). The web service named SAM_Address_Points has all points symbolized the same way. The SAM Address Point files are projected in Web Mercator (Auxiliary Sphere). Documentation on [How to add these web services into ArcGIS](#).




Address Point Type

- Rooftop
- Primary Structure Entrance
- Driveway Entrance
- ▲ Parcel Centroid
- Miscellaneous

Geocoding Service

If the purpose of downloading the address points is for geocoding, NYS ITS has a publicly available geocoding service which includes the address points along with other layers. Documentation on the geocoding service can be found at: <http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1278>.

Direct Download

📁 Files available to the Public		
Files	Download	Metadata
Address Points - SAM - Statewide	 GEODATABASE	Metadata
Albany County	 GEODATABASE  SHAPE	Metadata Metadata

<http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=921>




Public Access to Street Data

[Cooperative Members]





GIS Data Set Details

Data Set Name	Description	Theme	Metadata
NYS Streets <i>Revised: Oct 2017</i>	Vector file of public streets compiled from orthoimagery and attributed with street names, addresses, and route numbers.	Transportation	Metadata

Supporting Documentation

- [Data Dictionary - NYS Streets](#) 
- [NYS GIS Program Office Geocoding Services](#)
- [Geocoding - ESRI Instructions](#)

Files available to the Public

Files	Download	Metadata
NYS Streets	 GEODATABASE  SHAPE	Metadata Metadata
Simplified NYS Streets for Labeling	 GEODATABASE  SHAPE	Metadata Metadata

**Direct
Download**

<http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=932>

Geocoding Service

- Updates published twice per month
- Working with ESRI to improve SubAddress geocoding
- New ArcGIS 10.5/ArcGIS Pro templates being tested
- Want to be notified of changes to the Geocoding Service?
 - nysgis@its.ny.gov

Help Us Improve the Geocoding Service

Communicating valid addresses that do not geocode will help improve the data.

- Improved source data yields better results
- Send addresses to

ITS.SM.SAM.Maintenance@its.ny.gov

Testimonials

“Partnering with this group, ... allowed Albany County an avenue to clean up and correct all of the Counties Spatially invalid address points, misnamed and missing streets through the GeoLynx Server which the Counties use to access the data for upload into the regional E-911/CAD system... Their expertise in their fields has literally made the PSAP’s operate more efficiently in processing E-911 calls for service from the public... We will never know how many lives were saved because of their efforts, but we can be sure lives will be saved.”

- **Kevin Demarest, Albany County Sheriff’s Office**

- “Storm Hardening” Project – National Grid
 - Mapping customer locations within FEMA flood zones in NYC and Long Island – SAM data accuracy is key
 - Installing remote gas shut off valves for major storms

Thank you!

Data/Geocoding Questions:

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Data & Geocoding Links:

SAM Webpage: <http://gis.ny.gov/streets/index.cfm>