

United States Address Fabric

Version 2019.04.0

Product Guide



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1 - Introduction

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United States Address Fabric

The United States Address Fabric is a pre-geocoded nationwide dataset of postal and non-postal addresses, in a flat file format. It contains the best location for each street address record, with all addresses verified, validated and standardized through an extensive address hygiene process. Each record is then assigned a unique and persistent identifier called the pbKey™. The Address Fabric contains the most recent address for each location, including the primary city name as verified by the United States Postal Service, (where applicable).

The Address Fabric can be used for internal analytics, mapping and display in GIS applications, spatial analysis, de-duplication of existing databases, geographic aggregation, and trending analysis. A modified version of the Address Fabric, called Address Fabric Marketing, is available for prospect analysis.

The pbKey™ within the Address Fabric dataset can be used for data management and maintenance of the address records in association with the packaged Change Log. It can also be used to associate Pitney Bowes prebuilt GeoEnrichment datasets, preprocessed with the pbKey™ such as property attributes, demographics, or insurance risk attribution.

The product includes a Change Log file to allow users to leverage the pbKey™ to perform incremental updates with each release. The file schema is same as the United States Address Fabric dataset but includes an additional "CHANGE" field that contains the following values:

- A = Add record
- D = Delete record
- U = Update record

These values help customers understand what action is necessary to perform the incremental updates on their address database.

Address Fabric Version Compatibility

The 2019.04.0 version of Address Fabric is geocoded from the 2019.03.0 version of the Master Location Geocoding Dataset.

2 - Data Layouts

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United States Address Fabric

Field	Position	Maximum Length	Description
PBKEY	1	12	The unique identifier for the address.
ADD_NUMBER*	2	11	House number
STREETNAME*	3	60	Street name
UNIT_DES*	4	11	Unit designator: Apt, Unit, etc.
UNIT_NUM*	5	11	Unit number
CITY	6	30	City name
STATE	7	2	State abbreviation Note: 2 digit alphabetic code
ZIPCODE	8	5	5 - digit Postal/ZIP code
TYPE	9	4	Location type See the following sections for values: • Pxx - Address Point Codes
FIPS	10	15	Federal Information Processing Standard 2-digit state FIPS + 3-digit county FIPS + (optional) 6-digit Census Tract + (optional) 1-digit Census Block Group + (optional) 3-digit Census Block

Field	Position	Maximum Length	Description
LAT	11	9	Latitude (Y - coordinate) Note: 6 decimal places
LON	12	11	Longitude (X - coordinate) Note: 6 decimal places
PARENT	13	12	PBKey of parent record, if it exists.
PROP_TYPE	14	2	Property type classification: Residential (R), Business (B), Mixed Use (M), and Unknown (X)

Note:

- The first record in the data represents the values of source data vintage.
- Some of the values for fields marked with * will appear blank in the United States Address Fabric Marketing data.

United States Address Fabric Change Log

Field	Position	Maximum Length	Description
PBKEY	1	12	The unique identifier for the address.
ADD_NUMBER*	2	11	House number
STREETNAME*	3	60	Street name

Field	Position	Maximum Length	Description
UNIT_DES*	4	11	Unit designator: Apt, Unit, etc.
UNIT_NUM*	5	11	Unit number
CITY	6	30	City name
STATE	7	2	State abbreviation Note: 2 digit alphabetic code
ZIPCODE	8	5	5 - digit Postal/ZIP code
TYPE	9	4	Location type See the following sections for values: • Pxx - Address Point Codes
FIPS	10	15	Federal Information Processing Standard 2-digit state FIPS + 3-digit county FIPS + (optional) 6-digit Census Tract + (optional) 1-digit Census Block Group + (optional) 3-digit Census Block
LAT	11	9	Latitude (Y - coordinate) Note: 6 decimal places
LON	12	11	Longitude (X - coordinate) Note: 6 decimal places
PARENT	13	12	PBKey of parent record, if it exists.

Field	Position	Maximum Length	Description
PROP_TYPE	14	2	Property type classification: Residential (R), Business (B), Mixed Use (M), and Unknown (X)
CHANGE	15	1	Change Log classification: Added (A), Updated (U), and Deleted (D)

Note:

- The first record in the data represents the values of source data vintage.
- Some of the fields marked with * will appear blank in the United States Address Fabric Marketing data.

Type Definitions

Pxx - Address Point Codes

Code	Description
P02	<p>Parcel centroid</p> <p>Indicates the center of an assessor's parcel polygon (tract or lot). When the center of an irregularly shaped parcel falls outside of its polygon, the centroid is manually repositioned to fall inside the polygon as closely as possible to the actual center.</p>
P04	<p>Address point</p> <p>Represents field-collected GPS points with field-collected address data.</p>

Code	Description
P05	<p>Structure centroid</p> <p>Indicates the center of a building footprint polygon for a building that receives mail or has telephone service.</p> <p>A residential address usually consists of a single building. For sites with outbuildings (detached garages, shed, barns, etc.), only the residential buildings have a structure point. Condominiums and duplexes have multiple points for each building. Larger buildings, such as apartment complexes, typically receive mail at one address for each building and therefore individual apartments are not represented as discrete structure points.</p> <p>Shopping malls, industrial complexes, and academic or medical center campuses where one building accepts mail for the entire complex are represented as one point. When addresses are assigned to multiple buildings within one complex, each addressed structure is represented by a point.</p> <p>If the center of a structure falls outside of its polygon, the center is manually repositioned to fall inside the polygon.</p>
P07	<p>Manually placed</p> <p>Address points are manually placed to coincide with the midpoint of an assessor's parcel's street frontage at a distance from the center line.</p>
P08	<p>Front door point</p> <p>Represents the designated primary entrance to a building. If a building has multiple entrances and there is no designated primary entrance or the primary entrance cannot readily be determined, the primary entrance is chosen based on proximity to the main access street and availability of parking.</p>
P09	<p>Driveway offset point</p> <p>Represents a point located on the primary access road (most commonly a driveway) at a perpendicular distance of between 33-98 feet (10-30 meters) from the main roadway.</p>
P10	<p>Street access point</p> <p>Represents the primary point of access from the street network. This address point type is located where the driveway or other access road intersects the main roadway.</p>

Code	Description
P21	<p>Base parcel point</p> <p>The Centrus point data includes individual parcels that may be "stacked". These stacked parcels are individually identified by their unit or suite number, and GeoStan is able to match to this unit number and return the correct APN. If an input address is for a building or complex, without a unit number then, the "base" parcel information returns and will not standardize to a unit number or return additional information such as an APN.</p>
P22	<p>Backfill address point</p> <p>The precise parcel centroid is unknown. Address location assigned is based on two known parcel centroids.</p>
P23	<p>Virtual address point</p> <p>The precise parcel centroid is unknown. Address location assigned is relative to a known parcel centroid and a street segment end point.</p>
P24	<p>Interpolated address point</p> <p>The precise parcel centroid is unknown. Address location assigned is based on street segment end points.</p>

3 - Frequently Asked Questions

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FAQs

Q. Are ZIP + 4 postal codes available in the address?

- No. Only 5-digit ZIP Codes are delivered in the United States Address Fabric. This is intentional as ZIP + 4s change and are typically needed only for direct mailing. Therefore users should get the latest ZIP + 4 using Pitney Bowes CASS Geocoding or Address Validation Software. In the following example, pick only 1st pbKey™ which will represent all other duplicate pbKeys™.

pbkey	add_number	streetname	city	postalcode	latitude	longitude
P0000OUQBNAM	1	JOHN MARSHALL	HUNTINGTON	25755-1050	38.42225	-82.42999
P0000OUQBNAM	1	JOHN MARSHALL	HUNTINGTON	25755-1060	38.42225	-82.42999
P0000OUQBNAM	1	JOHN MARSHALL	HUNTINGTON	25755-1094	38.42225	-82.42999
P0000OUQBNAM	1	JOHN MARSHALL	HUNTINGTON	25755-2011	38.42225	-82.42999
P0000OUQBNAM	1	JOHN MARSHALL	HUNTINGTON	25755-2030	38.42225	-82.42999

Q. Are alias street and city names maintained in the dataset?

- Only the primary street and city names are validated via USPS CASS Certified software, (where applicable). CASS Geocoding and Address Validation Software from Pitney Bowes should be used to return alias street names, as well as secondary and vanity city names.

Q. What is the difference between the Master Location Dataset (MLD) and the United States Address Fabric?

- The Address Fabric and Master Location Data (MLD) geocoding datasets are closely related, but also distinctly different. The MLD geocoding dataset contains the same information as Address Fabric, as well as additional address information to facilitate more advanced address matching, such as alias addresses, vanity names, etc. Address Fabric addresses are the most current address and contain the primary street and city name. Address Fabric is built from Master Location Data (MLD) and is typically released one month later than Address Fabric, due to the requirement for

additional processing. Address Fabric Address Fabric is released quarterly, while the MLD geocoding data is released monthly.

Q. Are records with same address and location component but different unit numbers duplicates?

- No. Data records, where all address and location components are same except the unit numbers and pbKey™, are either office spaces/similar with an additional parent address record or secondary addresses like multiple floors/similar with the same parent pbKey™.

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Software Support - 1.800.367.6950

Email - software.support@pb.com

Email - pbs_fulfillment@pb.com for issues related to order fulfillment



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