

Pitney Bowes® Metro Boundaries – WRL (Worldwide) Product Guide

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1 – Getting Started

In this section

- Product Description
- Key Metro Characteristics
- Product Family
- Release Highlights
- Format Details
- Data Tables Included

Product Description

The Metro Boundaries product represents over 500 major metropolitan areas across the US, Canada, and the rest of the world. Metro boundaries are coherent representations that incorporate the key social and economic areas, satellite cities, towns, and associated rural areas around an urban core. These metros typically have a population greater than 50,000, an overall population density of at least 1,000 people, and include top real estate markets.

Key Metro Characteristics

- Clear, unambiguous boundaries for each metro that align with Pitney Bowes Neighborhood and Residential boundaries, ensuring compatibility and enhanced visualization.
- Geographic attribution that shows the constituent administrative geographies that overlap the metro area.
- Locally and nationally recognized metro names and attributes to target specific metro areas.

Product Family

Pitney Bowes Communities products are organized and sold by the following regions: USA, CAN, EUR, and WRL (worldwide). Not all Communities product are available for all regions. Please check with your account representative for availability.

Offered within the Communities product family are other supplemental boundaries that complement and integrate seamlessly with Neighborhood boundaries, including:

- Airport Boundaries
- Arena Boundaries
- Auto Dealership Boundaries
- Casino Boundaries
- College Boundaries
- Golf Course Boundaries
- Hospital Boundaries
- Metro Boundaries
- Residential Boundaries
- School Ground Boundaries
- Shopping Boundaries
- Ski Resort Boundaries
- Speedway Boundaries
- Stadium Boundaries
- Theme Park Boundaries
- Train Station Boundaries

Release Highlights

This release includes ongoing maintenance that ensures metro boundaries maintain alignment with Neighborhood Boundaries product offerings.

Format Details

Pitney Bowes spatial boundary products are structured for use within common geographic information systems (GIS) and for loading into relational database systems.

Format Availability	
GIS	Esri Shape, MapInfo TAB (Extended)
Display Proprietary	KML
Database-loadable	MySQL, PostGIS, WKT
Non-spatial Tables	CSV, DBF, MySQL, Postgres
Format Specifications	
Geographic Availability	US
Geographic Tiling	Country
Update Frequency	Quarterly
Character Set	UTF-8
Datum	WGS84 (SRID = 4326)

Note: MapInfo Extended TAB and KML formats are not yet available.

Data Tables Included

The universe of Pitney Bowes Neighborhood Boundaries products contains the tables shown below. Unshaded rows indicate which tables ship with this particular product.

All table names adhere to this naming convention: **product_geography_tablename_releasedate**. Release date is formatted as YYYYMMDD (e.g. 20190509).

Product Table Type	Included?	Table Name
Objects	Yes	metro_usa_objects_yyyymmdd
Names	Yes	metro_usa_names_yyyymmdd
Census – USA	No	metro_usa_census_yyyymmdd
Census – CAN	No	metro_can_census_yyyymmdd
Reference Geography	Yes	metro_usa_refgeo_yyyymmdd
Parents	No	metro_usa_parents_yyyymmdd
Classification	No	metro_usa_classification_yyyymmdd
Location Attribute	No	metro_usa_location_yyyymmdd
Primary Attribute	Yes	metro_population_attributes_yyyymmdd
Attribute ADD-ON	No	metro_usa_XXXX ¹ _attributes_yyyymmdd
Multi Attribute	Yes	metro_usa_geography_attributes_yyyymmdd
Alternate Identifiers	No	metro_usa_altids_yyyymmdd
Change	Yes	metro_usa_change_table_yyyymmdd

¹ XXXX is a name unique to the specific product attribution contained within that table.

2 – Boundaries Record Layout

In this section

- Objects Table
- Names Table
- Census Table – USA
- Census Table – CAN
- Reference Geography Table
- Parents Table
- Classification Table
- Location Attribute Table
- Population Attribute Table
- Attribute ADD-ON Table
- Geography Attribute Table
- Alternate Identifiers Table
- Change Table
- Object Types and Subtypes

Objects Table

Seq.	Field	Type (Length)	Description
01	OBJ_NAME	INTEGER	Unique and permanent object ID.
02	OBJ_NAME	CHAR (100)	Object name
03	OBJ_TYP	CHAR (100)	Object type. See Object Types and Subtypes for detailed information.
04	OBJ_SUBTCD	CHAR (3)	Object subtype code.
05	OBJ_SUBTYP	CHAR (100)	Object subtype description.
06	COUNTRY	CHAR (3)	ISO 3166-1 Alpha-3 country code.
07	METRO	CHAR (100)	Metro name – English spelling.
08	LAT	FLOAT	Latitude of polygon centroid.
09	LON	FLOAT	Longitude of polygon centroid.
10	RELDATE	CHAR (8)	Product release date (YYYYMMDD).
11	WKT		Open Geospatial Consortium well-known text representation of geometry.
12	GEOM		Binary internal representation of geometry.

Names Table

Table relationship is 1:many.

Seq.	Field	Type (Length)	Description
01	NAME_ID	INTEGER	Unique and permanent ID for name record.
02	OBJ_ID	INTEGER	Object's unique ID.
03	LID	CHAR (3)	ISO 639 Alpha 3 language code. Reference NAME_N field.
04	NAME_TYP	CHAR (1)	Name type: A – Alternate B – Abbreviation P – Primary
05	NAME_E	CHAR (100)	Name – English spelling.
06	NAME_N	CHAR (100)	Name – native language spelling.
07	NAME_R	CHAR (100)	Name – Romanized spelling.

Census Table – USA

Seq.	Field	Type (Length)	Description
01	OBJ_ID	INTEGER	Unique and permanent object ID.
02	STATE	CHAR (2)	State abbreviation
03	STATEFIPS	CHAR (2)	State FIPS code.
04	CBSA	CHAR (100)	Core Based Statistical Area/Metropolitan Statistical Area.
05	CBSAFIPS	CHAR (5)	CBSA FIPS code.

Seq.	Field	Type (Length)	Description
06	CBSATYP	CHAR (5)	Statistical area designation: METRO – Metropolitan MICRO – Micropolitan
07	COUNTY	CHAR (100)	County name
08	COUNTYFIPS	CHAR (5)	County FIPS code.
09	MCD_CCD	CHAR (100)	Census MCD/CCD township name.
10	MCDFIPS	CHAR (5)	MCD FIPS code.
11	PLACE	CHAR (100)	Census Incorporated Place (IP) or Census Designated Place (CDP) name.
12	PLACEFIPS	CHAR (7)	Census Place FIPS code.

Census Table – CAN

Seq.	Field	Type (Length)	Description
01	OBJ_ID	INTEGER	Object's unique and permanent ID.
02	PROV_E	CHAR (100)	Province name – English.
03	PROV_ID	CHAR (2)	Province identifier
04	CMA_E	CHAR (100)	Census Metropolitan Area/Agglomeration name – English.
05	CMA_ID	CHAR (5)	CMA identifier
06	CMATYP	CHAR (3)	CA – Census Agglomeration CMA – Census Metropolitan Area
07	DIV_E	CHAR (100)	Census division name – English.
08	DIV_ID	CHAR (2)	Census division identifier.
09	SUBDIV_E	CHAR (100)	Census subdivision name – English.
10	SUBDIV_ID	CHAR (3)	Census subdivision identifier.
11	POPCEN_E	CHAR (100)	Population center name – English.
12	POPCEN_ID	CHAR (7)	Population center identifier.
13	PROV_F	CHAR (100)	Province name – French.
14	CMA_F	CHAR (100)	Census Metropolitan Area/Agglomeration name – French.
15	DIV_F	CHAR (100)	Census division name – French.
16	SUBDIV_F	CHAR (100)	Census subdivision name – French.
17	POPCEN_F	CHAR (100)	Population center name – French.

Reference Geography Table

The Reference Geography table provides the single dominant geography reference for a metro area. For additional geographic information, please see the [Geography Attribute table](#). **Note:** Not all fields in the Reference Geography table will be populated.

Seq.	Field	Type (Length)	Description
01	OBJ_ID	INTEGER	Object's unique and permanent ID.
02	COUNTRY_E	CHAR (100)	Country name – English spelling.
03	COUNTRY_N	CHAR (100)	Country name – native language spelling.

Seq.	Field	Type (Length)	Description
04	COUNTRY_R	CHAR (100)	Country name – Romanized spelling.
05	CNTRYSUB_E	CHAR (100)	Country sub-geography – English spelling.
06	CNTRYSUB_N	CHAR (100)	Country sub-geography – native language spelling.
07	CNTRYSUB_R	CHAR (100)	Country sub-geography – Romanized spelling.
08	METRO_E	CHAR (100)	Metro name – English spelling.
09	METRO_N	CHAR (100)	Metro name – native language spelling.
10	METRO_R	CHAR (100)	Metro name – Romanized spelling.
11	CITY_E	CHAR (100)	City name – English spelling.
12	CITY_N	CHAR (100)	City name – native language spelling.
13	CITY_R	CHAR (100)	City name – Romanized spelling.

Parents Table

The Parents table provides an ID reference to the overlying parent object. Table relationship is 1: many.

Seq.	Field	Type (Length)	Description
01	PAR_REL_ID	INTEGER	Primary key
02	OBJ_ID	INTEGER	Unique and permanent object ID.
03	PAR_ID	INTEGER	OBJ_ID of immediate parent object.
04	PAR_TYP	CHAR (100)	Parent object type.
05	PAR_SUBTYP	CHAR (100)	Parent object subtype description.
06	PAR_SUBTCD	CHAR (3)	Parent object subtype code.

Classification Table

The Classification table lists residential function and exception classifications. Table relationship is 1:many.

Seq.	CLASS_ID	OBJ_ID	Class Text	Code
01	Primary Key	OBJ_ID	Function	Two-digit code (see below).
02		OBJ_ID	Exception	Two-digit code (see below).
...		.		

Function codes provide additional classification information for individual residential areas.

FUNCTION Code	FUNCTION Description
00	Default; no additional classification currently assigned.
30	Residential
31	Subdivision
32	Homeowners' association, property owners' association, neighborhood association.
33	Condominiums
34	Mobile home/trailer complex.
35	Multi-family dwellings (apartment buildings, townhouses, etc.).
36	Single-family residence.

Exception codes identify polygons whose geometric or attribute references differ from standard representation.

EXCEPTION Code	EXCEPTION Description
00	Default; no additional classification currently assigned.
10	Non-neighborhood areas of interest (colleges, airports, etc.).
11	Neighborhoods roughly based on Census Place/MCD source.
12	Geometry overlap validated by resource.
13	Valid multipart polygon (such as a neighborhood with islands).
14	Name has been validated and is similar to another name within the metro.
15	Valid multipart polygon and also a neighborhood based roughly on Census Place/MCD source.

Location Attribute Table

The Location Attribute table provides primary address and location reference information. Depending on the feature type and available information, the table may be incomplete. Table relationship is 1:many.

Seq.	Field	Type (Length)	Description
01	LOC_ID	INTEGER	Location record's unique and permanent ID.
02	OBJ_ID	INTEGER	Object's permanent ID.
03	LOC_TYP	CHAR (1)	Type of location: P – Physical M – Mailing
04	ADDRESS	CHAR (100)	Main address
05	CITY	CHAR (100)	City name
06	STATE_PROV	CHAR (10)	State or province abbreviation.
07	POST_CODE	CHAR (10)	Postal code
08	PHONE	CHAR (15)	Main phone number (if available).
09	WEB	CHAR (254)	URL (if available)

Population Attribute Table

Table relationship is 1:many.

Seq.	Generic Attribute Name	Type	Description
01	OBJ_ID	INTEGER	Object's unique and permanent ID.
02	Population	INTEGER	USA or CAN population, tabulated by metro.

Attribute ADD-ON Table

The Attribute ADD-ON table is reserved for associating additionally purchased products, such as Context Demographics, Context Real Estate, etc. No additional attributes are provided.

Seq.	Field	Type (Length)	Description
01	OBJ_ID	INTEGER	Object's unique and permanent ID.
02	att_1		Product-specific
03	att_2		Product-specific
n	att_n		Product-specific

Geography Attribute Table

US and Canadian Census geography fields have a one-to-many relationship with metro polygons. This table lists the intersecting geographies for each metro area. The following subset geographies are covered:

- USA – state, county
- CAN – province, division

The Geography Attribute table contains the following fields:

- DIV_TYP – the reference geography (state, county, province, or division)
- DIV_CD –
 - The state or combined state and county FIPS in the US
 - The province or combined province and division code in Canada
- DIV_NAME_E – the English spelling of the geographic name.

Below is an example of the Geography Attribute table's contents:

ATT_ID	OBJ_ID	DIV_TYP	DIV_CD	DIV_NAME_E
Primary key	1	State	25	Massachusetts
	1	County	25017	Middlesex County, MA
	1	County	25009	Essex County, MA
	2	Province	24	Quebec
	2	Division	2472	Duex-Montagnes
	2	Division	2474	Mirabel

Alternate Identifiers Table

The Alternate Identifiers table provides alternate IDs that may commonly or commercially be used to reference a specific feature. Table relationship is 1:many.

ALTID_ID	OBJ_ID	ALTID	ALTID_TYP
xx	yy	zzzz	Ex. NCES ID
xx	yy	rrrr	Ex. GreatSchools® ID

Change Table

The Change table provides a direct listing of all features that have undergone change since the previous product release. **Note:** This table reflects all change, no matter how small the geometry change may be. The PCT_A_CHNG field may show a value of 0.000000, which indicates that a change has been made that is smaller than the value that can be represented in that field.

Seq.	Field	Type (Length)	Description
01	CHNG_ID	INTEGER	Primary key. Not persistent from release to release. IDs will change over time.
02	PRIM_KEY	INTEGER	Primary key ID referencing the record that has changed.
03	KEY_NAME	CHAR (10)	Name of primary key in the table referenced.
04	TABLE_TYP	CHAR (50)	Name of the table in which the change occurred.
05	FIELD_NAME	CHAR (10)	Name of the field in which the change occurred.
06	CHNG_TYP	CHAR (1)	Change type: A – Add C – Change D – Delete
07	VALUE_OLD	CHAR (100)	Attribute value in previous release. Will not include geometry values.
08	VALUE_NEW	CHAR (100)	Attribute value in current release. Will not include geometry values.
09	PCT_A_CHNG	FLOAT	Percentage area change when change is geometry based.
10	RELDATE	CHAR (8)	Current product release date.
11	RELDATE_PR	CHAR (8)	Prior product release date.

Object Types and Subtypes

OBJ_TYP	OBJ_SUBTYP	OBJ_SUBTCD
Metro	Metro	E

Frequently Asked Questions

How do I find the state within which an object falls?

You can find the state within which an object falls by joining the Census table to the Objects table on the OBJ_ID field. This provides all Census information (such as state or place names) for the objects.

How do I attach the 1:many tables to the Objects table?

For available dataset formats mentioned above, an inner join operation would be used to relate all the records in a 1:many table to the object with the matching OBJ_ID. For SHP format, a relate operation would be used in the GIS software in which the data was loaded.

Product Feedback and Support

Pitney Bowes welcomes your feedback to help us continue improving this product. As a licensee of Pitney Bowes data, you are welcome to use the Pitney Bowes® Feedback Platform, which allows you to directly input updates, suggestions, and corrections. This input will be reviewed by our production teams and utilized as appropriate for product maintenance, with the results communicated back to you.

Please register to use the Feedback Platform by visiting <http://feedback.maponics.com>.

To learn how Pitney Bowes Location Intelligence Data products can support your business, please visit <http://www.pitneybowes.com/us/location-intelligence/gis-data-sets.html>.

Product Support

If you have any questions or concerns, you may contact our Support team directly by calling **800 762 5158** or by emailing software.support@pb.com.

Notices

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Pitney Bowes Software Inc.
35 Railroad Row Suite 400
White River Junction VT 05001
www.pitneybowes.com