



Postcode Boundaries

Data Product Description

November 2019

Standard

This document is based on the AS/NZS ISO 19131:2008 Geographic information – Data product specifications standard. For more information, refer to www.saiglobal.com/online.

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1. Overview

1.1 Data product specification title

Postcode Boundaries Product Description

1.2 Reference date

November 2019

1.3 Responsible party

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URL: <http://www.pdma.com.au> | ABN: 23 089 912 710

1.4 Language

English

1.5 Topic Category

Boundaries to facilitate the delivery of physical mail to customers.

1.6 Distribution format

PDF

1.7 Glossary

PSMA maintains a glossary of common terms with their definitions and also includes acronyms and abbreviations that are commonly used in relation to PSMA products and services. The glossary is available at the PSMA website at <https://www.pdma.com.au/glossary-and-terms>

1.8 Informal description of the data product

The Postcode Boundaries dataset is the definitive set of postcodes developed by Australia Post and PSMA Australia. It includes two data layers, postcode boundaries (polygon data) and postcode centroids (point data).

Postcodes are allocated to geographic areas to facilitate the efficient processing and delivery of mail to customers. The current four digit numeric postcode system was introduced in 1967 in association with the first mechanised mail processing centre in Australia. The Postcode Boundaries in most cases are an aggregation of PSMA's Suburbs/Localities boundaries for each postcode. The postcodes of 3000 and 3004 are created from the single gazetted suburb of Melbourne.

The government land administration agencies in each state and territory are responsible for gazetting locality names and boundary positions. Postcodes are commonly allocated to localities officially gazetted by land agencies. In the majority of circumstances, a postcode covers an area

comprising of more than one locality. The decision as to whether a new postcode or an existing postcode is to be allocated to a locality is based on operational efficiency. Issues that underpin the decision are critically analysed; these include the configuration of the Australia Post network, transportation connections and delivery arrangements.

1.9 Copyright in Postcode Boundaries dataset

Please see www.pdma.com.au/psma-data-copyright-and-disclaimer for the Copyright and Disclaimer Notice for the Postcode Boundaries dataset.

1.10 Privacy

PSMA products and services should not contain any personal names or other personal information. PSMA undertakes reasonable data cleansing steps as part of its production processes to ensure that is the case. If you think that personal information may have inadvertently been included in PSMA products or services, please contact support@psma.com.au

2. Specification Scope

This dataset has no themes.

2.1 Scope identification

Postcode Boundaries Dataset

Level

Dataset

Level name

Postcode Boundaries

Extent

Spatial coverage of Australia's landmass including External Territories and offshore islands [Christmas Island, Cocos (Keeling) Islands, and Norfolk Island].

3. Data Product Identification

3.1 Titles

Postcode Boundaries

3.2 Alternate titles

Postcode Boundaries for Australia

3.3 Abstract

This Postcode Boundaries Product Description is an ISO 19131 compliant description.

3.4 Purpose

This dataset provides the definitive postcode dataset for the entire Australian extent – see Extent below. It has been developed jointly by PSMA and Australia Post to support the spatial analysis and visualisation of postcode areas.

3.5 Topic category

Polygons defined by coordinate spatial data (latitude and longitude) with associated textual metadata.

3.6 Geographic description

The Postcode Boundaries dataset covers the addresses within the complete national geography of Australia (AUS). The Bounding Box for this data is as follows;

North bounding latitude: -8°

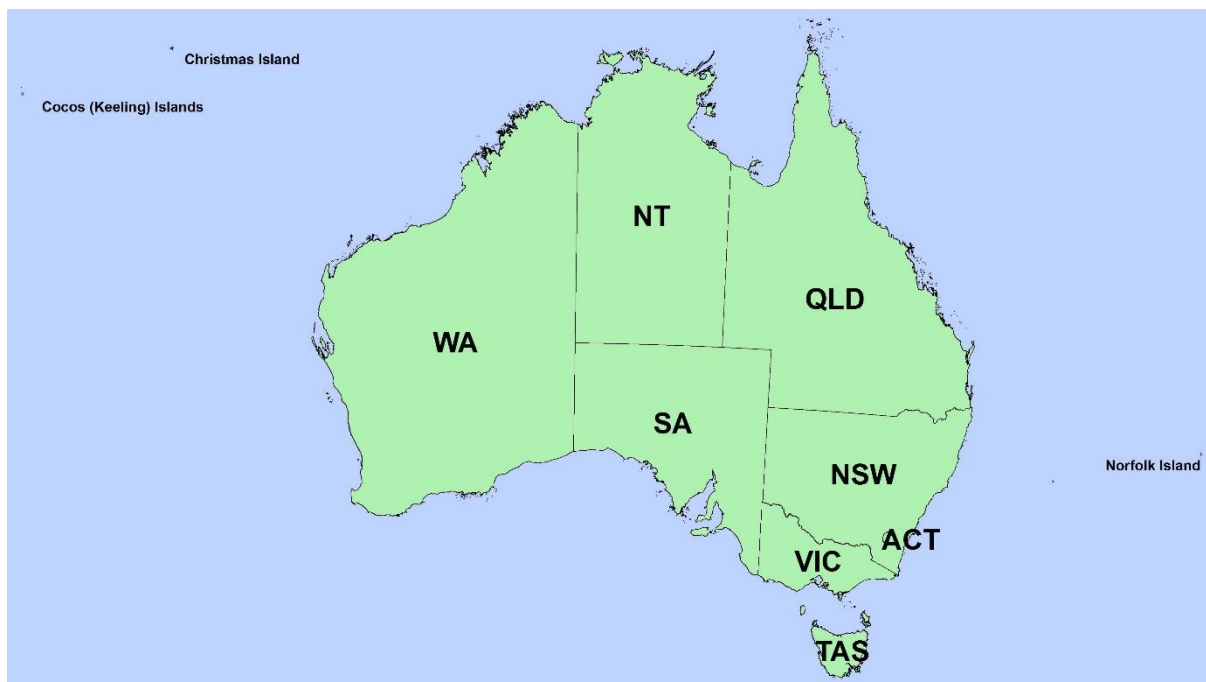
South bounding latitude: -45°

East bounding longitude: 168°

West bounding longitude: 96°

This area covers the land masses of Australia, including External Territories and offshore islands (Christmas Island, Cocos (Keeling) Islands, and Norfolk Island).

The spatial domain is described by the polygon:



Geographic extent name

AUSTRALIA INCLUDING EXTERNAL TERRITORIES – AUS – Australia – Australia

The States and Territories within Australia are represented by the following:

| State or Territory Name | Abbreviation | Character Code |
|------------------------------|--------------|----------------|
| New South Wales | NSW | 1 [or 01] |
| Victoria | VIC | 2 [or 02] |
| Queensland | QLD | 3 [or 03] |
| South Australia | SA | 4 [or 04] |
| West Australia | WA | 5 [or 05] |
| Tasmania | TAS | 6 [or 06] |
| Northern Territory | NT | 7 [or 07] |
| Australian Capital Territory | ACT | 8 [or 08] |
| Other Territories | OT | 9 [or 09] |

Note: PSMA has aligned Other Territories (OT) with the Australian Bureau of Statistics (ABS). It includes the Territory of Christmas Island, Territory of Cocos (Keeling) Islands, Jervis Bay Territory and more recently the inclusion of Norfolk Island. OT does not include any other external Territory.

4. Data Content and Structure

A data model is included [Appendix A] with an associated data dictionary [Appendix B].

4.1 Feature-based data

The feature type is based on a spatial polygon for the various postcode areas. The table below outlines the features and their integration into the datasets.

| Entity | Description | Integration | Rules |
|-----------------|--|---|---|
| Postcode | <p>A postcode may be represented either as an area or a point-type postcode.</p> <p>A postcode may have many polygons defining its boundary. Postcode boundaries do not have to match locality boundaries.</p> <p>A point-type postcode will have 1 active centroid defining its location.</p> | <p>A Postcode has:</p> <ul style="list-style-type: none"> 0 to many related Locality records | <ul style="list-style-type: none"> Ideally, a postcode must be related to at least 1 Locality, but this is not possible in all cases (eg. Northern Territory) so cannot be enforced as a hard-and-fast rule in the database. |

4.2 Feature-based application schema (data model)

The data model is set out in Appendix A.

4.3 Data dictionary

The feature catalogue in support to the application schema is provided in Appendix B. Spatial attributes are added to the feature catalogue in the same manner as other attributes for completeness and conformance to the application schema.

The following table refers to all tables in the Feature Catalogue below.

| Column | Abbreviation | Description |
|---------------------------|---------------|--|
| Name | Name | The name of the column in the Integrated Database |
| Data Type | Data type | The Oracle data type of the column. Mapinfo TAB files have similar data types. |
| Description | Description | A description of the column and what the expected contents are |
| Primary Key? | Prim Key | If 'Y' then this column must always have a unique value. [has # entry in the data model tables] |
| Obligation | Man | Y = mandatory. If 'Y' (mandatory), this column must be populated with data. That is, all ACTIVE records must have values in this column. |
| Foreign Key Table | F K TABLE | Represents a column in the 'Foreign Key Table' that this column is referred to by another table. [has * entry in the data model tables] |
| Foreign Key Column | F K Col | Represents a table in the Integrated Database that this column is referred to. |
| 10 Character Alias | 10 Char Alias | An alias for this column name - up to 10 characters maximum. Used to define the name of the column when in ESRI Shapefile format. |

For all tables the Persistent Identifier [_PID], DATE_CREATED and DATE_RETIRED fields are governed by the ICSM Policy and Guidelines for Incremental Update. This can be accessed by following the link below.

www.icsm.gov.au/icsm/harmonised_data_model/model1/incremental_up-date_guidelines.pdf

4.4 Feature-based content scope

Postcodes are allocated only to areas where Australia Post operates a delivery network and where gazetted suburbs/localities exist. Postcode boundaries generally do not capture areas outside gazetted suburbs/localities or other mailing addresses such as PO Boxes, Mail Centres or large volume recipients.

5. Reference System

5.1 Spatial reference system

GDA 94 or GDA 2020

5.2 Temporal reference system

Gregorian calendar

5.3 Reference system scope

The spatial objects and temporal collection periods for the Postcode Boundaries.

6. Data Quality

6.1 Positional accuracy

Positional accuracy is an assessment of the closeness of the location of the spatial objects in relation to their true positions on the earth's surface.

The positional accuracy includes:

- a horizontal accuracy assessment
- a vertical accuracy assessment

The horizontal and vertical positional accuracy are the assessed accuracy after all transformations have been carried out.

Relative spatial accuracy of the Administrative Boundaries dataset (i.e. Suburbs/Localities) used in the construction of postcodes reflects that of the source data.

Note. The accuracy of geometric representation is given by the difference between the position of the geometric representation of an object and its absolute position, as measured with respect to the geodetic network.

6.2 Coordinates Referencing the GDA 2020 Datum

From the November 2019 publication, spatial features are available referencing the GDA 2020 datum. These coordinates are produced using a coordinate transformation from GDA 94 using the following parameters.

```
shift_x = 0.06155,  
shift_y = -0.01087,  
shift_z = -0.04019,  
rotate_x = -0.0394924,  
rotate_y = -0.0327221,  
rotate_z = -0.0328979,  
scale_adjust = -0.009994
```

6.3 Attribute accuracy

Attribute accuracy is an assessment of the reliability of values assigned to features in the dataset in relation to their true 'real world' values.

Key attributes (postcode and the unique identifier) have a high degree of accuracy in the order of 99.09% and are reflective of the operational needs of Australia Post. Other attributes derived from the processing of supplied data may have a lower degree of accuracy but less than previously released data. The postcode allocated to an area may not be the same postcode as published by Australia Post through their website or other sources, as the postcode in some cases is based on

the most commonly used postcode for addresses in a given area. All attribute accuracies are dependent on the data accuracy supplied to PSMA Australia.

For this product, feature and attribute accuracy is a measure of the degree to which the features and attribute values of spatial objects agree with the information on the source material. The allowable error in attribute accuracy was previously up to 5%.

A precise attribute accuracy assessment may not always be possible. In these cases an intuitive estimate of the expected attribute accuracy or the likely maximum error based on previous experience is acceptable.

The postcode allocated to a gazetted suburb/locality is the most commonly used postcode, in a small number of cases the postcode is different to the postcode published by Australia Post on their website. These cases are due to changes to locality boundary or locality name, where the postcode remains the same for delivery purposes.

6.4 Logical consistency

Logical consistency is a measure of the degree to which data complies with the technical specification. The allowable error in logical consistency previously ranged from 3% to 5%. The test procedures are a mixture of software scripts and onscreen visual checks.

The data structure has been tested for conformance with the data model. The following have been tested and confirmed to conform:

- File names
- Attribute names
- Attribute lengths
- Attribute types
- Attribute domains
- Attribute order in file
- Object type
- Compulsory attributes populated

6.5 Topological consistency

Topological consistency is the measure of how features spatially relate to other features within and across themes. Topological inconsistencies are identified using a combination of automated rules, and visual analysis. Where topological inconsistencies are identified they are notified back to the supplier organisation for remediation at source. Some minor topological inconsistencies are corrected during product processing using automated rules. The level of topological consistency is dependent on the data supplied to PSMA.

During product processing there is no attempt to enforce topological consistency across state and territory borders. Cross border topological consistency is a complex issue and PSMA continues to engage the Federal, State, and Territory governments of Australia to improve the topological consistency of spatial datasets across these borders.

6.6 Completeness

Completeness is an assessment of the extent and range of the dataset with regard to completeness of coverage, completeness of classification and completeness of verification.

Dataset, theme, and layer coverage

National (based on coverage of Suburbs/Localities from the Administrative Boundaries).

Attribute completeness

All attributes for each object are populated.

Temporal accuracy is applicable to most of the current release.

Quality scope

Polygon and point geometry accuracy and attribute accuracy for all included areas.

7. Data Capture

All suburb/locality data used for the polygon geometry in postcodes is captured by the state and territory governments through appropriate agencies. The digital suburb/locality boundaries and their legal identifiers have been derived from the cadastre data from each Australian state and territory jurisdiction.

The postcodes are provided by Australia Post and are required to facilitate the efficient processing and delivery of mail to customers. Any areas that do not have postcode boundaries (e.g. NW South Australia) are consistent with the coverage of gazetted suburbs/localities boundaries. None of the gazetted suburb/locality boundaries have been changed with the exception of the suburb of Melbourne, which is split into two separate areas for the allocation of different postcodes (3000 and 3004).

A decision as to whether a new postcode or an existing postcode is to be allocated to a suburb/locality is based on operational efficiency. Issues that underpin the decision are critically analysed; these include the configuration of the Australia Post network, transportation connections and delivery arrangements. Australia Post will only allocate a postcode where there are deliveries within an area and where there is no conflict with the allocation of other postcodes by Australia Post. It is ultimately Australia Post's decision on whether an area is allocated a postcode. Australia Post will allocate 'NA' as a postcode where they are unable to resolve the allocation of a postcode to a gazetted suburb/locality boundary, even though they may have identified a postcode for the name (e.g. GALIWINKU, NT). The postcodes for Australia Post postal services that use specific suburbs/localities, such as Post Office Boxes (e.g. EAST PERTH, WA 6892) are not captured in the Postcode Boundaries product.

7.1 Data capture scope

Data for changed objects within the current release time period.

8. Data Maintenance

8.1 Update frequency

PSMA Australia releases updates to all datasets every quarter in the months of February, May, August and November. The Postcode Boundaries dataset is updated as deemed necessary by Australia Post.

8.2 Maintenance Scope.

PSMA Australia's data maintenance occurs for existing objects with changed geometry and/or attributes, as well as data for new objects within the release time period.

9. Data Product Delivery

PSMA Australia is the crucial link between the supply and demand sides of the market for the fundamental national spatial datasets that it offers under the banner of PSMA Data. The organisation eliminates the difficulties of negotiating multiple license agreements with Australian governments and the problems of integrating the data into a seamless consistent national dataset. Furthermore, the existence of PSMA Australia minimises the duplication of effort within the market for organisations wishing to access national data.

Access to PSMA Data is enabled through a network of value-added resellers who are licensed by, and work closely with PSMA Distribution, the wholly owned subsidiary of PSMA Australia. Value-added resellers create many powerful and varied applications that use PSMA Data. PSMA Distribution provides strategic support to value-added resellers to ensure that both the public and private sectors obtain the maximum benefit from the use of PSMA Data. PSMA Australia's website www.pdma.com.au provides a value-added reseller directory to assist those interested in accessing PSMA Data.

Current users of PSMA Data should contact their value-added reseller for clarification or guidance before contacting PSMA Distribution.

For further information on accessing PSMA Data, or becoming a value-added reseller contact:

PSMA Distribution

Unit 6, 113 Canberra Avenue, Griffith ACT 2603

T: 02 6260 9000

F: 02 6260 9001

E: enquiries@psma.com.au

W: www.pdma.com.au

9.1 Delivery medium information

PSMA Systems is a cutting-edge data platform that has been developed to hold, quality assure and distribute PSMA Australia's suite of national spatial datasets. It streamlines PSMA Australia's data delivery. The core of PSMA Systems is the Integrated Database (IDB), which holds our suite of datasets in one location and within a single environment.

PSMA Australia provides data updates to licensees through data download. This service is supported by a detailed user guide.

9.2 Units of delivery

Datasets as prescribed in the license agreement brokered by PSMA Distribution.

9.3 Medium name

Online.

9.4 Delivery format information

MapInfo

Format Name:

TAB – MapInfo Professional™

Specification:

The MapInfo TAB format is a popular geospatial vector data format for geographic information systems software. It is developed and regulated by MapInfo as a proprietary format. This format includes files with the following extensions: *.tab, *.dat, *.id, *.map

TAB files support geospatial standards such as Open GIS, the OGC, ISO, W3C and others.

Language:

English

Shape

Format Name:

Shape – ESRI™

Specification:

This format includes files with the following extensions: *.shp, *.shx, *.dbf

ESRI Shapefile Technical Description, an ESRI White Paper, July 1998

Follow this link: www.esri.com/library/whitepapers/pdfs/shapefile.pdf

Language:

English

Oracle Dump

Format Name:

Oracle data base files – Oracle™

Specification:

This format includes files with the following extensions: *.dmp

Language:

English

Oracle Data Pump

Format Name:

Oracle 11g Data Pump Format

.Specification:

.The Data Pump (dump) file set is made up of one or more files that contain table data, database object metadata, and control information. More information is available from [.Oracle](#).

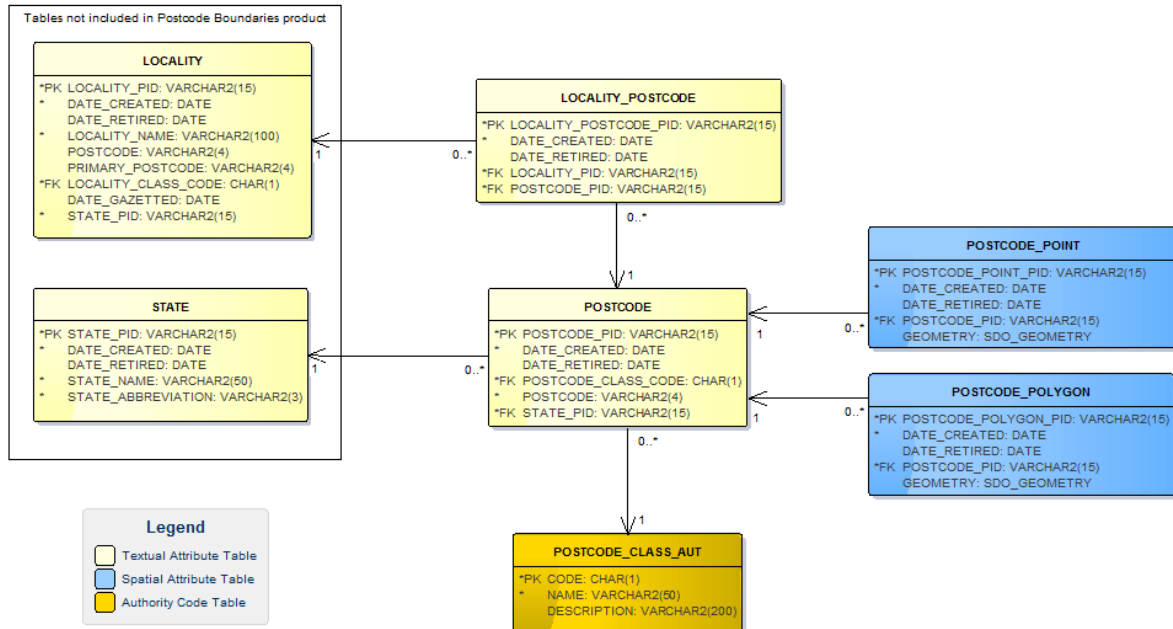
.Language:

English

10. PSMA Data

| DATASET | ACCESS | THEME | LAYER |
|-------------------------------|---|-----------------------------|--|
| Administrative Boundaries | Open Data (www.data.gov.au) PSMA Partner Network | ABS Boundaries 2011 | 2011 ABS Mesh Blocks |
| | | | Indigenous Location (ILOC) |
| | | | Indigenous Areas (IARE) |
| | | | Indigenous Region (IREG) |
| | | | Remoteness Areas (RA) |
| | | | Socio-Economic Indexes for Areas (SEIFA) |
| | | | Urban Centre Localities /Section of State |
| | | ABS Boundaries 2016 | 2016 ABS Mesh Blocks and Statistical Areas |
| | | | 2016 ABS Indigenous Regions, Areas and Locations |
| | | | 2016 Urban Centre and Locality - Section of State - Significant Urban Area |
| | | | 2016 Remoteness Areas (RA) |
| | | | 2016 Socio-Economic Indexes for Areas (SEIFA) |
| | | | Commonwealth Electoral Boundaries |
| | | | State Electoral Boundaries |
| | | Electoral Boundaries | Commonwealth Electoral Boundaries State Electoral Boundaries |
| Local Government Areas (LGAs) | | | |
| Suburbs/Localities | | | |
| State Boundaries | | | |
| Town Points | | | |
| Wards | | | |
| CadLite | PSMA Partner Network | Cadastre Property | |
| Geoscape | PSMA Partner Network | Buildings | |
| | | Surface Cover | 2 Metres 30 Metres |
| | | Trees | |
| G-NAF | Open Data (www.data.gov.au) PSMA Partner Network | Geocoded physical addresses | |
| Land Tenure | PSMA Partner Network | Land Tenure | |
| Features of Interest | PSMA Partner Network | Features of Interest | |
| Postcodes | PSMA Partner Network | Postcode Boundaries | |
| Transport & Topography | PSMA Partner Network | Transport | Roads |
| | | | Rail |
| | | | Rail Stations |
| | | | Airports |
| | | Hydrology | |
| | | Greenspace | |

Appendix A – Postcode Boundaries Data Model



Appendix B – Data Dictionary

Table 1: LOCALITY_POSTCODE

| Name | Data Type | Description | Prim Key | Man | F K TABLE | F K Col | 10 Char Alias |
|------------------------------|--------------|---|----------|-----|-----------|--------------|---------------|
| LOCALITY_POSTCODE_PID | varchar2(15) | The Persistent Identifier is unique to the real world feature this record represents. | Y | Y | - | - | LOC_PO_PID |
| DATE_CREATED | date | Date this record was created. | N | Y | - | - | DT_CREATE |
| DATE_RETIRED | date | Date this record was retired. | N | N | - | - | DT_RETIRE |
| LOCALITY_PID | varchar2(15) | The locality or suburb persistent identifier. | N | Y | LOCALITY | LOCALITY_PID | LOC_PID |
| POSTCODE_PID | varchar2(15) | The postcode persistent identifier. | N | Y | POSTCODE | POSTCODE_PID | PC_PID |

Table 2: POSTCODE

| Name | Data Type | Description | Prim Key | Man | F K TABLE | F K Col | 10 Char Alias |
|----------------------------|--------------|--|----------|-----|--------------------|---------|---------------|
| POSTCODE_PID | varchar2(15) | The Persistent Identifier is unique to the real world feature this record represents. | Y | Y | - | - | PC_PID |
| DATE_CREATED | date | Date this record was created. | N | Y | - | - | DT_CREATE |
| DATE_RETIRED | date | Date this record was retired. | N | N | - | - | DT_RETIRE |
| POSTCODE_CLASS_CODE | char(1) | Defines the postcode class code. Currently there is only one class code - 1 [DELIVERY AREA]. | N | Y | POSTCODE_CLASS_AUT | CODE | PC_CS_CODE |
| POSTCODE | varchar2(4) | Postcode. | N | Y | - | - | POSTCODE |
| STATE_PID | varchar2(15) | State or territory persistent identifier. | N | Y | - | - | STATE_PID |

Table 3: POSTCODE_POINT

| Name | Data Type | Description | Prim Key | Man | F K TABLE | F K Col | 10 Char Alias |
|---------------------------|--------------|---|----------|-----|-----------|--------------|---------------|
| POSTCODE_POINT_PID | varchar2(15) | The Persistent Identifier is unique to the real world feature this record represents. | Y | Y | - | - | PC_PNT_PID |
| DATE_CREATED | date | Date this record was created. | N | Y | - | - | DT_CREATE |
| DATE_RETIRED | date | Date this record was retired. | N | N | - | - | DT_RETIRE |
| POSTCODE_PID | varchar2(15) | The postcode persistent identifier. | N | Y | POSTCODE | POSTCODE_PID | PC_PID |
| GEOMETRY | point | Point geometry. | N | Y | - | - | GEOMETRY |

Table 4: POSTCODE_POLYGON

| Name | Data Type | Description | Prim Key | Man | F K TABLE | F K Col | 10 Char Alias |
|-----------------------------|--------------|---|----------|-----|-----------|--------------|---------------|
| POSTCODE_POLYGON_PID | varchar2(15) | The Persistent Identifier is unique to the real world feature this record represents. | Y | Y | - | - | PC_PLY_PID |
| DATE_CREATED | date | Date this record was created. | N | Y | - | - | DT_CREATE |
| DATE_RETIRED | date | Date this record was retired. | N | N | - | - | DT_RETIRE |
| POSTCODE_PID | varchar2(15) | The postcode persistent identifier. | N | Y | POSTCODE | POSTCODE_PID | PC_PID |
| GEOMETRY | polygon | Polygon geometry. | N | Y | - | - | GEOMETRY |

Table 5: POSTCODE_CLASS_AUT

| Name | Data Type | Description | Prim Key | Man | F K TABLE | F K Col | 10 Char Alias |
|--------------------|---------------|---|----------|-----|-----------|---------|---------------|
| CODE | char(1) | Postcode class code. This is the persistent identifier of the record. | Y | Y | - | - | CODE_AUT |
| NAME | varchar2(50) | Name of the postcode class code [e.g. DELIVERY AREA]. | N | Y | - | - | NAME_AUT |
| DESCRIPTION | varchar2(200) | Description of what the postcode class code represents [e.g. DELIVERY AREA FOR MAIL]. | N | N | - | - | DSCPN_AUT |

Table 6: POSTCODE_CLASS_AUT codes

| CODE | Description | NAME |
|------|------------------------|---------------|
| 1 | DELIVERY AREA FOR MAIL | DELIVERY AREA |