



**PSMA**

AUSTRALIA  
LIMITED

Product Description

**Postcode Boundaries**

Version 1.3



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## Postcode Boundaries Product Description

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PSMA Australia Postcode Boundaries Product Description  
Version 1.3

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## 1 General Information

### 1.1 Custodian

PSMA Australia Limited

### 1.2 Jurisdiction

PSMA Australia content covers Australia's eight states and territories:

- New South Wales
- Queensland
- Victoria
- Tasmania
- South Australia
- Western Australia
- Northern Territory
- Australian Capital Territory

### 1.3 Contact Details

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#### Internet sites for information

[www.g-naf.com.au](http://www.g-naf.com.au)

[www.pdma.com.au](http://www.pdma.com.au)

## 2 Dataset Description

### 2.1 Content

PSMA Australia's Postcode Boundaries is currently in Beta Version. The dataset is comprised of:

Theme	Layer
Australia Post Spatial Postcodes	Postcode Boundaries (polygons)
	Postcode Centroids (points)

### 2.2 Features

Entity	Description	Integration	Rules
Postcode	<p>A postcode may be classed either as an area or a point-type postcode (eg. Post office box).</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"> <li>0 to many related Locality records</li> </ul>	<ul style="list-style-type: none"> <li>Postcodes of 'Post office box' type cannot have polygons.</li> <li>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.</li> </ul>

### 2.3 Delivery

LYNX is a cutting-edge warehouse to hold, quality assure and distribute PSMA Australia's suite of national spatial datasets. It will streamline PSMA Australia's data delivery. The core of LYNX is the Integrated Database (IDB), which holds our suite of datasets in one location and within a single environment.



Clients are able to obtain data updates using LYNX, either by downloading the data or requesting a DVD.

PSMA Australia has provided Clients with a detailed User Guide for utilising the LYNX system, and can provide advice and support to Clients accessing the system.

LYNX can be accessed from the [PSMA Australia Website](#).

#### 2.3.1 Delivery Format

- MapInfo Tab files
- ESRI Shape

## 3 Licensing & Access

### 3.1 Accessing PSMA Australia Datasets

PSMA Australia is the crucial link between the supply and demand sides of the market for the fundamental national spatial datasets that it offers. The organisation eliminates the difficulties of negotiating multiple licence agreements with Australian, state and territory 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.

The position held by PSMA Australia is a delicate balance. As a Government owned company, it is not the intention of the organisation to compete with the existing industry players. On the contrary, the organisation actively seeks industry participation and support and endeavours to be an industry stimulator of growth by ensuring the availability of critical and timely framework national datasets. To this end, PSMA Australia does not deal with end users but rather with organisations that develop products and services for end users through a process of value adding.

PSMA Australia facilitates access to its datasets through licensing arrangements with VARs. VARs on-sell the data bundled with a value added component. A VAR is required to enter into a Licence Agreement with PSMA Australia for access to PSMA Australia datasets. In return, the VAR is required to pay an annual access fee and royalties based on sales of the VAR product. This revenue stream is used for the investigation and creation of new national datasets and the maintenance and improvement of existing datasets.

More information on PSMA Australia's Value Added Resellers can be found at [www.psm.com.au](http://www.psm.com.au), or by contacting Gerry Stanley at [gerry.stanley@psma.com.au](mailto:gerry.stanley@psma.com.au).

### 3.2 Pricing

The pricing model for PSMA Australia's national datasets incorporates a range of variables that need to be considered when determining pricing. As there is the potential for the pricing model to be misinterpreted, it is PSMA Australia's preference to discuss pricing on a case-by-case basis.

In order for PSMA Australia to supply pricing information for its datasets, potential licensees will need to be able to provide a description of the planned use(s) for the data.

As PSMA Australia is only a small team the preferred approach would be that this description is provided in email form. From there the office can contact enquirers and commence more detailed discussions.

Gerry Stanley, PSMA Australia's Relationship Manager, will be the first point of contact for all new and existing VARs interested in accessing our datasets. Gerry can be contacted at [gerry.stanley@psma.com.au](mailto:gerry.stanley@psma.com.au).

### 3.3 Exclusion of Liability

PSMA Australia makes every effort to provide and maintain accurate, complete, useable and timely digital spatial information. However, datasets and information are provided with the understanding that they are not guaranteed to be correct or complete. Users are cautioned to consider carefully the nature of the data before using it for decisions that concern personal or public safety or the conduct of business that involves substantial monetary or operational consequences.

Conclusions drawn from or actions undertaken on the basis of, this data are the sole responsibility of the user.

PSMA Australia does not warrant that this document and the datasets are free from errors or omissions. PSMA Australia shall not be in any way liable for any loss, damage or injury suffered by the licensed user of the data or any other person or organisation consequent upon or incidental to the existence of errors or omissions in the datasets or this document.

### 3.4 Privacy Statement

PSMA Australia is very confident that its datasets do not constitute 'personal information' as defined under the Privacy Act. However, in the licensing of data from PSMA Australia, Value Added Resellers and their end-users must comply with the Privacy Act (1998) (Commonwealth) and the (Commonwealth) Privacy Amendment (Private Sector) Act 2000. In support of the requirements of this legislation, PSMA Australia has incorporated lengthy privacy related provisions into its Value Added Reseller licence agreement.

These conditions are reproduced below:

*The Licensee agrees:*

- (a) *that it is responsible for ensuring that its exercise of rights under this Agreement does not infringe the Privacy Act 1988 (Cth);*
- (b) *to use or disclose personal information obtained during the course of providing services under this Agreement then only for the purposes of this Agreement;*
- (c) *to take all reasonable measures to ensure that Personal Information in its possession or control in connection with this Agreement is protected against loss and unauthorised access, use, modification, or disclosure;*
- (d) *not to do any act or engage in any practice that would breach any Information Privacy Principal (IPP) contained in Section 14 of the Privacy Act, which if done or engaged in by an Agency, would be a breach of the IPP;*
- (e) *to carry out and discharge the obligations contained in the IPPs as if it were an Agency under that Act;*
- (f) *to disclose in writing to any person who may ask, the content of the provision of this Agreement (if any) that are inconsistent with a NPP or APC binding a party to this Agreement;*
- (g) *to immediately notify PSMA if the Licensee becomes aware of a breach or possible breach of any of the obligations contained in, or referred to in this clause, whether by the Licensee or any subcontractor;*
- (h) *to cooperate with any reasonable demands or inquiries made by PSMA on the basis of the exercise of the functions of the Privacy Commissioner under the Privacy Act 1988;*
- (i) *to ensure that any person who has access to any Personal Information is made aware of, and undertakes in writing, to observe the National Privacy Principles and other obligations referred to in this clause;*
- (j) *to comply, as far as practicable, with any policy guidelines issued by the Privacy Commissioner from time to time relating to the handling of Personal Information;*
- (k) *to comply with any direction PSMA to observe any recommendation of the Privacy Commissioner relating to acts or practices of the Licensee that the*

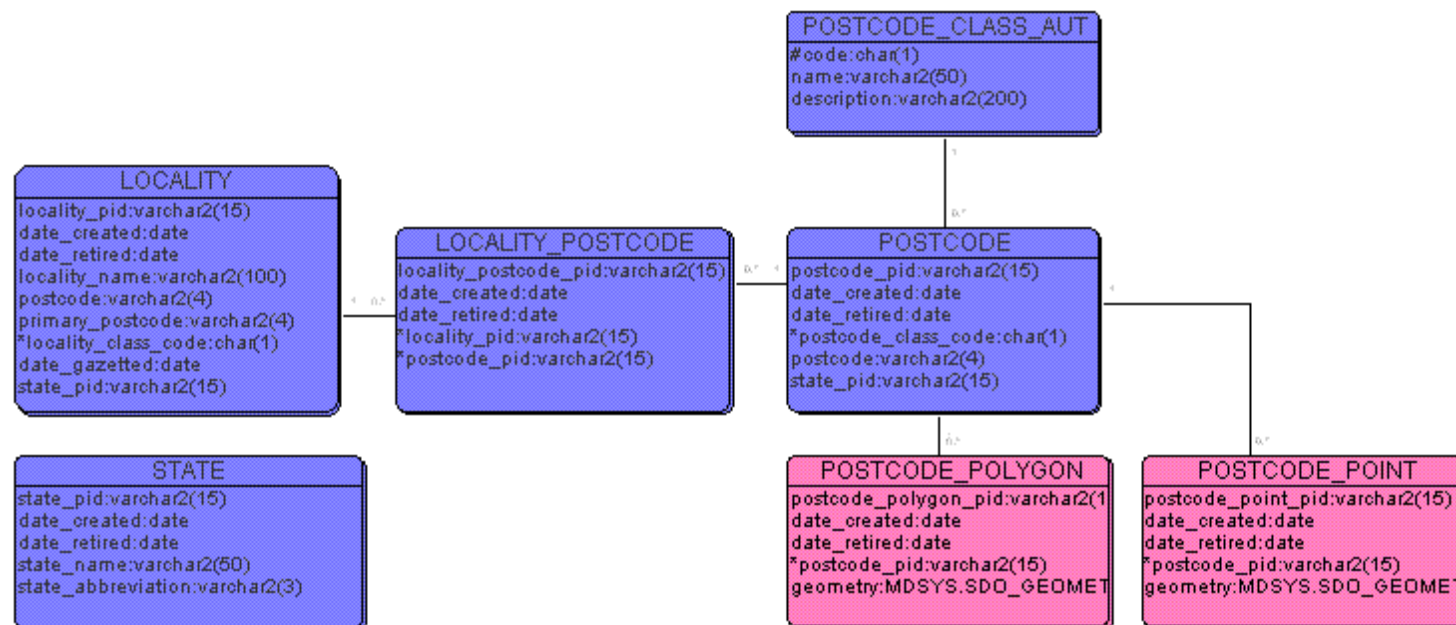
*Privacy Commissioner considers to be in breach of the obligations in this clause; and*

*(l) to indemnify PSMA for:*

- i. any loss, liability, or expense suffered or incurred by PSMA arising out of or in connection with a breach of the obligations of the Licensee under this clause; or*
- ii. any misuse of Personal Information by the Licensee; or*
- iii. any disclosure by the Licensee in breach of an obligation of confidence whether arising under the Privacy Act 1988 or otherwise.*

## 4 Data Model

Note: Links from state\_id fields to the STATE table have not been shown in this diagram.  
Blue tables contain textual attributes only. Pink tables have a spatial attribute.



## 5 Data Dictionary

Column	Description
Name	The name of the column in the Integrated Database
Data Type	The Oracle data type of the column
Description	If 'Y' then this column must always have a value
Primary Key?	A description of the column and what the expected contents are
Mandatory?	If 'Y' then this column is a primary key. By primary key, we mean all ACTIVE records must have unique values in this column.
Foreign Key Table	Represents a column in the 'Foreign Key Table' that this column is a lookup to.
Foreign Key Column	Represents a table in the Integrated Database that this column is a lookup to.
10 Character 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.

Table: LOCALITY

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
locality_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents. See ICSM Policy and Guidelines for Incremental Update.	Y	Y	-	-	loc_pid
date_created	date	Date this record was created. See ICSM Policy and Guidelines for Incremental Update.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired. See ICSM Policy and Guidelines for Incremental Update.	N	N	-	-	dt_retire
locality_name	varchar2(100)	name	N	Y	-	-	name
locality_class_code	char(1)	Describes the class of locality this is (eg. Gazetted, topographic feature etc). Lookup to locality_class. Must always be set to 'G'	N	Y	LOCALITY_CLASS_AUT	code	loccl_code
date_gazetted	date	gazetted date - only applicable for gazetted localities	N	N	-	-	gt_gazetd
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid

TABLE: LOCALITY\_POSTCODE

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
locality_postcode_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents. See ICSM Policy and Guidelines for Incremental Update.	Y	Y	-	-	loc_po_pid
date_created	date	Date this record was created. See ICSM Policy and Guidelines for Incremental Update.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired. See ICSM Policy and Guidelines for Incremental Update.	N	N	-	-	dt_retire
locality_pid	varchar2(15)	Locality persistent Id	N	Y	LOCALITY	locality_pid	loc_pid
postcode_pid	varchar2(15)	postcode persistent id	N	Y	POSTCODE	postcode_pid	pc_pid

TABLE: POSTCODE

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
postcode_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents. See ICSM Policy and Guidelines for Incremental Update.	Y	Y	-	-	pc_pid
date_created	date	Date this record was created. See ICSM Policy and Guidelines for Incremental Update.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired. See ICSM Policy and Guidelines for Incremental Update.	N	N	-	-	dt_retire
postcode_class_code	char(1)	Defines whether this is a gazetted postcode area or a post office box.	N	Y	POSTCODE_CLASS_AUT	code	pc_cs_code
postcode	varchar2(4)	Postcode	N	Y	-	-	postcode
state_pid	varchar2(15)	State Persistent Identifier	N	Y	-	-	state_pid

TABLE: POSTCODE\_POINT

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
postcode_point_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents. See ICSM Policy and Guidelines for Incremental Update.	Y	Y	-	-	pc_pnt_pid
date_created	date	Date this record was created. See ICSM Policy and Guidelines for Incremental Update.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired. See ICSM Policy and Guidelines for Incremental Update.	N	N	-	-	dt_retire
postcode_pid	varchar2(15)	postcode pid	N	Y	POSTCODE	postcode_pid	pc_pid
geometry	MDSYS.SDO_GEOMETRY	Point geometry	N	Y	-	-	geometry

TABLE: POSTCODE\_POLYGON

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
postcode_polygon_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents. See ICSM Policy and Guidelines for Incremental Update.	Y	Y	-	-	pc_ply_pid
date_created	date	Date this record was created. See ICSM Policy and Guidelines for Incremental Update.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired. See ICSM Policy and Guidelines for Incremental Update.	N	N	-	-	dt_retire
postcode_pid	varchar2(15)	postcode pid	N	Y	POSTCODE	postcode_pid	pc_pid
geometry	MDSYS.SDO_GEOMETRY	Polygon geometry	N	Y	-	-	geometry

TABLE: POSTCODE\_CLASS\_AUT

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
code	char(1)	Postcode class code. This is the persistent Identifier of the record.	Y	Y	-	-	code_aut

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
name	varchar2(50)	Name	N	Y	-	-	name_aut
description	varchar2(200)	Description of what this postcode type represents (eg. Gazetted Postcode Area, Post office box)	N	N	-	-	dscpn_aut

Table: STATE

Name	Data Type	Description	Primary Key?	Mandatory?	Foreign Key Table	Foreign Key Column	10 Char Alias
state_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents. See ICSM Policy and Guidelines for Incremental Update.	Y	Y	-	-	state_pid
date_created	date	Date this record was created. See ICSM Policy and Guidelines for Incremental Update.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired. See ICSM Policy and Guidelines for Incremental Update.	N	N	-	-	dt_retire
state_name	varchar2(50)	Feature name. All in uppercase. eg TASMANIA	N	Y	-	-	state_name
state_abbreviation	varchar2(3)	state abbreviation	N	Y	-	-	st_abbrev

## 6 Other PSMA Australia Datasets

There are five datasets currently licensed by PSMA Australia with several others in various stages of assembly. These datasets are:

DATASET	THEME	LAYER
Administrative Boundaries	ABS Boundaries	Collector Districts (CDs)
		Statistical Local Areas (SLAs)
		Urban Centre Localities (UCLs)
		Mesh Blocks (MBs)
	Electoral Boundaries	Commonwealth Electoral Boundaries
		State Electoral Boundaries
	Local Government Areas (LGAs)	
	Suburbs/Localities	
State Boundaries		
Town Points		
CadLite®	Cadastre (Registered land parcel polygons and attributes)	
	Property	
POI	Points of Interest	
Transport & Topography™	Transport	Roads
		Rail
		Rail Stations
		Airports
	Hydrology	Hydrology Polygons (Water bodies, major rivers, oceans)
		Minor Water (102, 103, connectors)
	Greenspace	Urban Parks
National Parks & Other Reserves		
G-NAF®	Geocoded physical addresses	
Postcodes (Beta Version)	Australia Post spatial postcodes	Postcode Polygons
		Postcode Centroids

### 6.1 Administrative Boundaries

The Administrative Boundaries dataset is comprised of five themes:

- Australian Bureau of Statistics (ABS) Boundaries
- Electoral Boundaries
- Local Government Areas
- Suburbs/Localities
- State Boundaries

The ABS Boundaries theme includes four layers — collector districts, statistical local areas, mesh blocks and urban centre localities.

The Electoral Boundaries theme comprises two layers — Commonwealth electoral boundaries and state/territory electoral boundaries.

## 6.2 CadLite®

CadLite has two themes, Cadastre, which is a digital representation of all cadastral boundaries excluding easements and road/drainage casements for Australia, and Property.

### 6.2.1 Cadastre

Cadastre is a seamless national cadastral database of Australia's 10.4 million parcels.

It incorporates Local Government Area boundaries and is designed to meet the needs of organisations that require a graphical representation of land parcel boundaries on a broad scale, to integrate with other data in servicing their business needs.

This graphical index of digital cadastre or registered land parcels can be used to reference other geographic and land administrative data available from respective jurisdictions.

The digital cadastral boundaries and their legal identifiers have been derived from the relevant bodies from each Australian State and Territory jurisdiction.

### 6.2.2 Property

The PSMA Australia Property theme of CadLite® provides a national dataset that identifies the three relationships that exist between a property and a cadastral parcel. These are:

1. where one cadastral parcel is equal to one property;
2. where many cadastral parcels make up one property; and
3. where one cadastral parcel contains many properties.

## 6.3 Transport & Topography™

The Transport & Topography™ dataset is underpinned by a road centreline layer of over one million kilometres of roads, together with more than 30 feature types within transport, hydrology and greenspace themes.

The Transport component of this dataset encompasses the roads, rail, rail stations and airport infrastructure networks across the entire nation of Australia. The roads layer includes more than 1,000,000 kilometres of named roads. The rail and rail station layers depict the national rail network (including tram lines). The airports layer also includes landing grounds.

The Topography component of this dataset is made up of two themes—hydrology and greenspace. Two layers of hydrology are made up of water bodies, major rivers, minor waters and oceans. The two greenspace layers are urban parks plus national parks and other reserves.

## 6.4 POI

The Points of Interest dataset contains in excess of 130,000 points of interest with feature code and name attribution. Some of the feature categories are:

- accommodation
- community services
- cultural
- medical
- mines and quarries
- mountains and hills

- defence
- education and training
- emergency
- facilities
- finance
- gaols
- government
- grounds
- homesteads
- places of worship
- post offices
- public assembly
- relief feature names
- sewage
- transport
- utilities
- waste disposal
- water

The PSMA Australia POI dataset is currently under re-development.

## 6.5 G-NAF<sup>®</sup>

G-NAF<sup>®</sup> (Geocoded National Address File) is Australia's first authoritative geocoded address index for the whole country, listing all valid physical addresses in Australia. It contains approximately 12.6 million physical addresses, each linked to its unique geocoded (specific latitude and longitude of the address). Data used to build G-NAF<sup>®</sup> comes from contributors including the Australian Electoral Commission, Australia Post and Australia's government mapping agencies and land registries.

G-NAF<sup>®</sup> is the single, national authoritative source for:

- validating customer-provided address (assisting in fraud prevention)
- identifying the geocode for spatial analysis (creating maps to plot and analyse services and customer locations)
- assembling and maintaining large address files (reducing duplications and costs, increasing efficiency and improving mail delivery).

