



PSMA

AUSTRALIA
LIMITED

Product Description

Features Of Interest (BETA)

BETA Version 1.6
February 2012

PSMA Australia Data Product Specification (DPS) Features Of Interest

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1 Overview

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1.1 DPS title:

Features Of Interest Product Description

1.2 DPS reference date:

February 2012

1.3 DPS responsible party:

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1.4 DPS language:

English

1.5 DPS topic category:

Features Of Interest for points, lines and polygons within Australia.

1.6 DPS distribution format:

pdf

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1.7 Disclaimer:

PSMA Australia believes this publication to be correct at the time of printing and does not accept responsibility for any consequences arising from the use of information herein. Readers should rely on their own skill and judgement to apply information to particular issues.

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1.8 Terms and definitions

Term	Definition
Feature attribute	Characteristic of a feature (e.g. name of a region).
Class	Description of a set of objects that share the same attributes, operations, methods, relationships, and semantics [UML]. NOTE: A class does not always have an associated geometry (e.g. the metadata class).
Event	Characteristic of a feature measured within an object without modifying the associated geometry.
Feature	Abstraction of real world phenomena.
Feature Category	The allocation of a feature to a particular classification (also known as feature type).
Object	Entity with a well-defined boundary and identity that encapsulates state and behaviour [UML Semantics] NOTE: An object is an instance of a class.
Package	Grouping of a set of classes, relationships, and even other packages with a view to organizing the model into more abstract structures.
LYNX	A suite of applications to store, quality assure and distribute

PSMA Australia's data sets.

1.9 Abbreviations and Acronyms

ASGC:	Australian Standard Geographical Classification.
DPS:	Data Product Specification
GDA94:	Geocentric Datum of Australia 1994
G-NAF:	Geocoded National Address File
GIDB	A copy of the IDB for use in Data Maintenance in Radius Studio™
ICSM:	Intergovernmental Committee on Surveying & Mapping
IDB:	Integrated Data Base
FOI:	Features of Interest
PID:	Persistent Identifier
POI:	Points of Interest
PSMA:	Public Sector Mapping Agencies
UML:	Unified Modeling Language
UUID:	Universal Unique Identifiers

1.10 Informal Description of the Data Product

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The Features of Interest dataset is a new product that seeks to capture a variety of features that are represented as points, lines or polygons. The Features of Interest Dataset provides a hierarchical classification of features (called feature categories) with four levels. The fourth level is the most specific feature of interest category and is the preferred level of supply. However, the data supplied by the contributors may not be at the highest level and will be represented as the most appropriate feature category.

The Features of Interest dataset is dependent on the completion of PSMA Australia's G-NAF product prior to processing and finalisation of the product. As such, the Features of Interest dataset will be released a month after the usual quarterly release of PSMA Australia products.

The dataset is currently a **BETA** version that is limited in content and will require further refinement and changes. This may include changes to persistent identifiers that do not conform to PSMA Australia's standard maintenance regime as the processing is refined. The first few versions of the dataset include a reduced number of features than what could potentially be supplied. PSMA Australia is currently negotiating appropriate licence arrangements with contributors for a more extensive list of features based on the current list of feature categories.

PSMA Australia is currently working to improve the data maintenance processes and has used a new set of processes in the development of the Features of Interest dataset. This improvement in processes will be continually reviewed to produce the highest standards possible in accuracy and quality control.

Data maintenance is carried out at PSMA Australia to enforce the data integrity (aspatial). Quality Assurance processes within LYNX™ are used to check structural integrity of the data.

The available output file formats for the product are described in the [Delivery Format Information \(- section 9.4\)](#)

The data is currently only available to VARs through PSMA Distribution and is supplied on DVD.

2 Specification Scope

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This data set has no themes.

2.1 Scope identification:

Features of Interest Data Set

2.1.1 Level:

Data Set

2.1.2 Level name:

Features of Interest

2.1.3 Extent

Spatial coverage of Australia's landmass includes External Territories and Coastal Islands (including Lord Howe Island). Localities in South Australia include an unincorporated area which is covered by Mesh Blocks.

All data is supplied by an appropriate contributor quarterly.

3 Data Product Identification

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3.1 Product Title:

Features of Interest Data Set

3.2 Alternate title:

Features Of Interest, FOI.

3.3 Abstract:

This Product Description is an ISO 19131 compliant description and a set of basic attributes of the Features of Interest for Australia.

Features of interest dataset is a newly developed dataset being delivered by PSMA Australia containing authoritative point, line and polygon data. The data is supplied by Governments as well as contributions from selected organisations.

Features of Interest data includes urban centres, significant buildings, landmarks, public spaces, community facilities and indigenous locations. This data is much sought after, and can be applied in multiple commercial and government situations. The Features of Interest is an independent dataset that can be integrated for enhanced functionality with associated datasets including G-NAF. Through the widespread adoption of personal navigation devices and web mapping applications, Feature Data is much sought after.

Feature of Interest is a dataset that is applicable to multiple commercial and government situations with many **places not described by an official address** (e.g. Melbourne Cricket Ground, Town Hall or Local Church).

3.4 Purpose

The Features of Interest dataset provides solutions to the following situations:

- Improved online maps through the inclusion of authoritative Feature Data for context;
- Enhanced personnel navigation experiences through the inclusion of detailed Feature Data;
- National catalogues of significant buildings, landmarks, public spaces, community facilities, through their inclusion of Features of Interest Data;
- Enhanced routing products through the inclusion of Feature Data; and
- Validation of private databases through the inclusion of Feature Data.

3.5 Topic category

013 – Location

3.6 Geographic description

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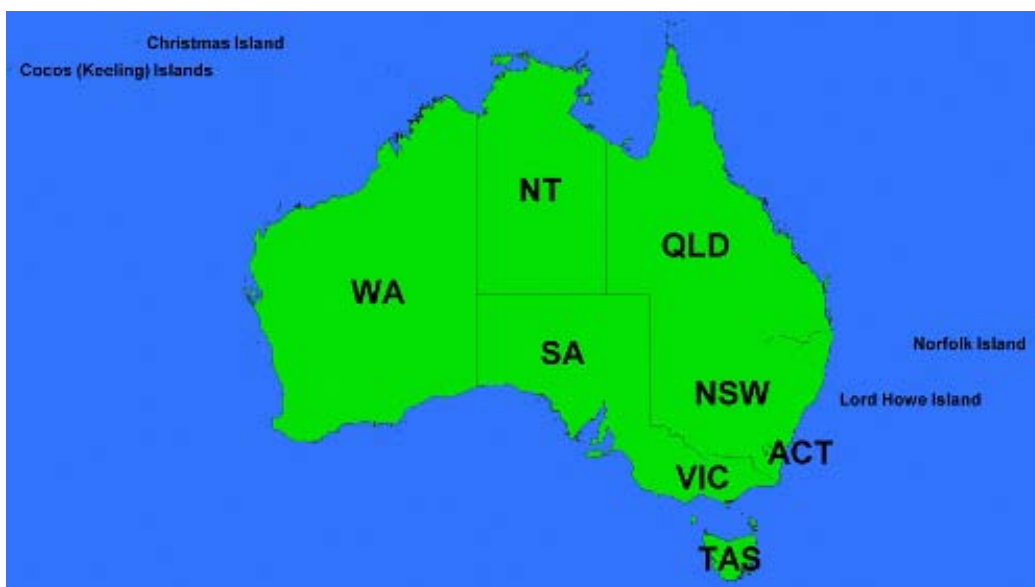
The Features of Interest data set covers the boundaries within the complete national geography of Australia (AUS). The Bounding Box for this data is as follows;

- North bounding latitude -8°,
- South bounding latitude -45°,
- East bounding longitude 169°,
- West bounding longitude 96°.

This area covers the landmasses of Australia (Geographic Australia), including External Territories and off shore Islands. The following quote from the ABS is used to identify the coverage of the data.

“**Geographic Australia**” means the area as defined by the *Acts Interpretation Act 1901* as amended by the *Territories Law Reform Act No. 104, 1992*. For the avoidance of doubt, the External Territories of Christmas Island and Cocos (Keeling) Islands are included in Geographic Australia.

The spatial domain is described by the polygon:



Geographic extent name: AUSTRALIA INCLUDING EXTERNAL TERRITORIES - AUS –
Australia - Australia

Geographic extent polygon: 96 -8, 169 -8, 169 -45, 96 -45, 96 -8,

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)

Citation date: 03/2011

Extent Type Code: 1 – inclusion

4 Data Content and Structure

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Features of Interest is a feature-based product. An application schema (data Model) expressed in UML is included with an associated Data Dictionary.

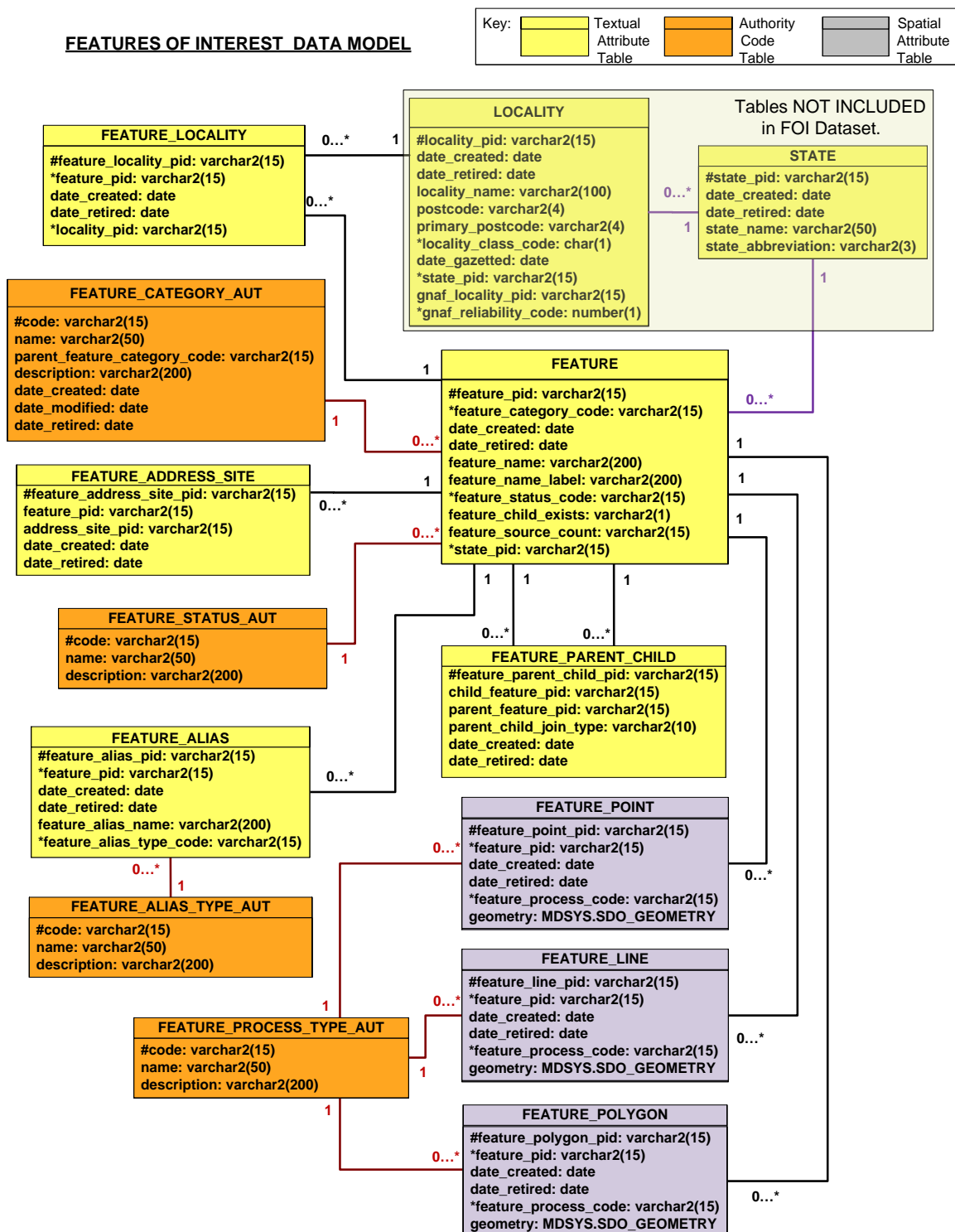
4.1 Feature-based data

The feature type is based on spatial points, lines and polygons for the various places and features. The table below outlines the features and their integration into the data Sets.

Entity	Description	Integration	Rules
Feature	A Feature represents a particular category (or type) of entity as a point, line or polygon.	A Feature has: <ul style="list-style-type: none"> ▪ 0 to many related gazetted Locality records ▪ 0 to many related address site records ▪ 1 related state record 	<ul style="list-style-type: none"> ▪ Must have only 1 feature category code (also known as feature type) ▪ 1 to many points, lines or polygons (or a combination) for a feature ▪ 0 to many aliases

4.2 Feature-based application schema (Data Model)

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4.3 Data Dictionary

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4.3.1 Feature-Based Feature Catalogue

This section provides the feature catalogue in support to the application schema. Spatial attributes are added to the feature catalogue in the same manner as other attributes for completeness and conformance to the application schema.

Note: All Persistent Identifiers that do not identify spatial geometry in the Integrated Data Model are unique nationally and are preceded by the state abbreviation e.g. LGA_PID = NSW12345678.

All Persistent Identifiers for spatial geometry are only unique within the associated dataset and within the state they reside e.g. LGA_POLYGON_PID = 1234567.

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.
Obligation	Man	Y = mandatory. If 'Y' (mandatory), this column is 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.
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.

4.3.1.1 Table: FEATURE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	feat_pid
feature_category_code	varchar2(15)	feature category code	N	Y	FEATURE_CATEGORY_AUT	code	feat_ca_cd
date_created	date	Date this record was created.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired.	N	N	-	-	dt_retire
feature_name	varchar2(200)	The name of the feature.	N	Y			feat_name
feature_name_label	varchar2(200)	The feature name label.	N	Y			ft_nam_lbl
feature_status_code	varchar2(15)	The feature status code	N	Y			feat_st_cd
feature_child_exists	varchar2(1)	Feature Child Exists.	N	Y			feat_child
featur_source_count	varchar2(15)	An indication of the number of contributors for this data.	N	Y			ft_src_cnt
state_pid	varchar2(3)	State Persistent Identifier	N	Y	STATE	state_pid	cad_pid

4.3.1.2 Table: FEATURE_LOCALITY

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_locality_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ft_loc_pid
feature_pid	varchar2(15)	The Persistent Identifier for the feature.	N	Y	FEATURE	feature_pid	ft_loc_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 gazetted locality this CAD falls in. Only should be null where CAD falls in unincorporated area (e.g. NT)	N		LOCALITY	locality_pid	loc_pid



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4.3.1.3 Table: FEATURE_CATEGORY_AUT

This table is not a typical AUT table as the date_created, date_modified and date_retired are provided so that incremental changes to features are more readily tracked.

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	User-friendly name for what this code represents.	N	N	-	-	name
parent_feature_category_code	varchar2(15)	Parent tenure type code	N	Y	FEATURE_TYPE-AUT	code	parent_ten
description	varchar2(200)	User-friendly description for what this code represents.	N	N			descript
date_created	date	Date this record was created.	N	Y	-	-	dt_create
date_modified	date	Date this record was modified.	N	Y	-	-	dt_mod
date_retired	date	Date this record was retired.	N	N	-	-	dt_retire

FEATURE_CATEGORY_AUT Codes

CODE	NAME	Description	PARENT Code
BDG	BUILDING		
BDG001	ADMINISTRATION FACILITY		BDG
BDG001001	GOVERNMENT OFFICE		BDG001
BDG001001001	AUSTRALIAN GOVERNMENT OFFICE		BDG001001
BDG001001002	STATE GOVERNMENT OFFICE	OFFICE OF STATE OR TERRITORY REPRESENTATIVES	BDG001
BDG001001003	LOCAL GOVERNMENT OFFICE	LOCAL GOVERNMENT OFFICE OR CHAMBERS	BDG001
BDG001001004	AUSTRALIAN HEARING	AUSTRALIAN TAX OFFICE	BDG001001
BDG001001005			BDG001001
BDG001001006	CENTRELINK		BDG001001
BDG001001007	CHILD SUPPORT AGENCY		BDG001001
BDG001001008	CRS AUSTRALIA		BDG001001
BDG001001009	MEDICARE AUSTRALIA		BDG001001
BDG001001010	ACCESS CENTRE		BDG001012
BDG001001011	CUSTOMER SERVICE CENTRE		BDG001012
BDG001001012	JUSTICE SERVICE CENTRE		BDG001012
BDG001001013	RANGERS OFFICE		BDG001012
BDG001001014	REGIONAL OFFICE		BDG001012

CODE	NAME	Description	PARENT Code
BDG001001015	TRANSPORT OR LICENSING CENTRE	TRANSPORT AUTHORITY / LICENSING CENTRE	BDG001012
BDG001002	CUSTODIAL SERVICE		BDG001
BDG001003	CUSTOMER SERVICES		BDG001
BDG001004	DIPLOMATIC MISSION	OFFICE OF A COUNTRY'S DIPLOMATIC REPRESENTATIVES SUCH AS A EMBASSY, HIGH COMMISSION OR CONSULATE	BDG001
BDG001005	COURT	LAW COURT, COURT HOUSE OR TRIBUNAL	BDG001
BDG001006	OFFICE		BDG001
BDG001007	POST OFFICE		BDG001
BDG001008	PRISON	PRISON, GAOL, REMAND CENTRE OR DETENTION CENTRE	BDG001
BDG001009	RESEARCH STATION		BDG001
BDG001010	SHERIFFS OFFICE		BDG001
BDG001011	TOURIST INFORMATION CENTRE		BDG001
BDG001012	WEATHER STATION	WEATHER STATION OR METEOROLOGICAL STATION	BDG001
BDG002	RUIN		BDG
BDG003	STRUCTURE		BDG
BDG004	CARE FACILITY		BDG
BDG004001	AGED CARE		BDG004
BDG004002	ANIMAL CARE	ANIMAL CARE OR VETERINARY PRACTICE	BDG004
BDG004003	CHILD CARE		BDG004
BDG004004	DISABILITY SUPPORT		BDG004
BDG004005	HOSPICE		BDG004
BDG005	COMMERCIAL FACILITY		BDG
BDG005001	ACCOMMODATION		BDG005
BDG005001001	BED AND BREAKFAST		BDG005001
BDG005001002	FARMSTAY		BDG005001
BDG005001003	HOSTEL		BDG005001
BDG005001004	HOTEL		BDG005001
BDG005001005	MOTEL	INCLUDES MOTOR INN	BDG005001
BDG005001006	PRIVATE ORGANISATION ACCOMMODATION	INCLUDES BOARDING HOUSE, LODGING HOUSE, PRIVATE HOTEL	BDG005001
BDG005001007	SELF CATERED ACCOMMODATION		BDG005001
BDG005002	BUSINESS PARK		BDG005
BDG005003	CONFERENCE CENTRE	CONFERENCE OR EXHIBITION CENTRE	BDG005
BDG005004	EMPLOYMENT AND RECRUITMENT SERVICE		BDG005
BDG005005	ENTERTAINMENT CENTRE		BDG005
BDG005006	FOOD OR BEVERAGE OUTLET		BDG005

CODE	NAME	Description	PARENT Code
BDG005006001	BREWERY OUTLET		BDG005006
BDG005006002	RESTAURANT	INCLUDES CAFE	BDG005006
BDG005006003	DISTILLERY		BDG005006
BDG005006004	FAST FOOD		BDG005006
BDG005006005	TAVERN	INCLUDES BAR	BDG005006
BDG005006006	WINERY		BDG005006
BDG005007	FUEL OUTLET		BDG005
BDG005008	LEGAL OR FINANCIAL		BDG005
BDG005008001	BANKING		BDG005008
BDG005008002	INSURANCE		BDG005008
BDG005008003	INVESTMENT		BDG005008
BDG005008004	LEGAL		BDG005008
BDG005009	MEDIA		BDG005
BDG005010	RENTAL SERVICE	RENTAL OR HIRE SERVICE	BDG005
BDG005010001	BIKE HIRE		BDG005010
BDG005010002	WATER CRAFT HIRE	INCLUDES BOAT HIRE	BDG005010
BDG005010003	MACHINERY HIRE		BDG005010
BDG005010004	VEHICLE HIRE		BDG005010
BDG005011	SERVICE STATION		BDG005
BDG005012	SHOP		BDG005
BDG005013	SHOPPING CENTRE		BDG005
BDG005014	SHOPPING PRECINCT		BDG005
BDG005015	SUPERMARKET		BDG005
BDG005016	MARKET		BDG005
BDG006	COMMUNITY VENUE		BDG
BDG006001	COMMUNITY CENTRE		BDG006
BDG006002	COMMUNITY HOME		BDG006
BDG006003	CO-OPERATIVE		BDG006
BDG006004	CREMATORIUM		BDG006
BDG006005	HALL		BDG006
BDG006006	NEIGHBOURHOOD HOUSE		BDG006
BDG006007	SENIOR CITIZENS		BDG006
BDG006008	TELECENTRE		BDG006
BDG006009	YOUTH CENTRE		BDG006
BDG007	CULTURAL CENTRE		BDG
BDG007001	AQUARIUM		BDG007
BDG007002	ARBORETUM		BDG007
BDG007003	ART GALLERY		BDG007
BDG007004	CINEMA		BDG007

CODE	NAME	Description	PARENT Code
BDG007005	CONSERVATORY		BDG007
BDG007006	LIBRARY		BDG007
BDG007007	MUSEUM		BDG007
BDG007008	OBSERVATORY		BDG007
BDG007009	THEATRE	INCLUDES CONCERT HALL, AMPHITHEATRE	BDG007
BDG008	EDUCATION CENTRE		BDG
BDG008001	ACADEMY		BDG008
BDG008002	ADMINISTRATION SUPPORT		BDG008
BDG008003	EDUCATION COMPLEX		BDG008
BDG008004	FURTHER EDUCATION		BDG008
BDG008005	KINDERGARTEN		BDG008
BDG008006	PRE SCHOOL		BDG008
BDG008007	PRIMARY SCHOOL		BDG008
BDG008008	PRIMARY AND SECONDARY SCHOOL	A COMBINED PRIMARY AND SECONDARY SCHOOL	BDG008
BDG008009	SCHOOL CAMP		BDG008
BDG008010	SECONDARY SCHOOL	SECONDARY SCHOOL OR HIGH SCHOOL	BDG008
BDG008011	SPECIAL SCHOOL		BDG008
BDG008012	SPECIALISED STUDIES		BDG008
BDG008013	STUDENT RESIDENTIAL FACILITY		BDG008
BDG008014	TERTIARY INSTITUTION		BDG008
BDG008014001	TAFE COLLEGE		BDG008014
BDG008014002	UNIVERSITY		BDG008014
BDG008015	SCHOOL	SCHOOL UNDEFINED TYPE	BDG008
BDG008016	COLLEGE		BDG008
BDG009	EMERGENCY FACILITY		BDG
BDG009001	AMBULANCE STATION		BDG009
BDG009002	MARINE RESCUE	COAST GUARD OR MARINE RESCUE	BDG009
BDG009003	EMERGENCY COMPLEX	EMERGENCY COMPLEX OR EMERGENCY SERVICES AGENCY	BDG009
BDG009004	FIRE LOOKOUT	FIRE TOWER	BDG009
BDG009005	FIRE STATION		BDG009
BDG009006	FIRE STATION (FOREST INDUSTRY)		BDG009
BDG009007	FIRE STATION (RURAL)		BDG009
BDG009008	LIFESAVING CLUB		BDG009
BDG009009	NEIGHBOURHOOD SAFER PLACE	AN AREA OR PREMISES THAT MAY, AS A LAST RESORT, PROVIDE SOME SANCTUARY FROM THE LIFE THREATENING EFFECTS OF A BUSHFIRE (I.E. DIRECT FLAME CONTACT OR RADIANT HEAT).	BDG009
BDG009010	POLICE STATION		BDG009

CODE	NAME	Description	PARENT Code
BDG009011	REFUGE		BDG009
BDG009012	SES FACILITY	STATE EMERGENCY SERVICES FACILITY	BDG009
BDG010	HEALTH FACILITY		BDG
BDG010001	BLOOD DONOR CLINIC		BDG010
BDG010002	COMMUNITY HEALTH CENTRE		BDG010
BDG010003	COUNSELLING AND PSYCHOLOGY		BDG010
BDG010004	DAY PROCEDURE CENTRE	DAY PROCEDURE CENTRE OR DAY SURGERY CENTRE	BDG010
BDG010005	DENTAL PRACTICE		BDG010
BDG010006	MATERNAL AND CHILD HEALTH CENTRES		BDG010
BDG010007	MEDICAL CENTRE		BDG010
BDG010008	NURSING POST		BDG010
BDG011	HOSPITAL		BDG
BDG011001	BUSH NURSING HOSPITAL		BDG011
BDG011002	CHILDREN HOSPITAL		BDG011
BDG011003	DENTAL HOSPITAL		BDG011
BDG011004	GENERAL HOSPITAL		BDG011
BDG011005	GENERAL HOSPITAL (EMERGENCY)		BDG011
BDG011006	HOSPITAL COMPLEX		BDG011
BDG011007	PSYCHIATRIC HOSPITAL		BDG011
BDG011008	REHABILITATION HOSPITAL		BDG011
BDG011009	WOMEN HOSPITAL		BDG011
BDG012	INDUSTRIAL FACILITY		BDG
BDG012001	ABATTOIR		BDG012
BDG012002	BATTERY		BDG012
BDG012003	BLAST FURNACE		BDG012
BDG012004	BREWERY		BDG012
BDG012005	BRICKWORKS		BDG012
BDG012006	CEMENT PLANT		BDG012
BDG012007	DAIRY		BDG012
BDG012008	FACTORY		BDG012
BDG012009	INTENSIVE ANIMAL PRODUCTION		BDG012
BDG012010	IRON ORE PROCESSOR		BDG012
BDG012011	LIVESTOCK YARD		BDG012
BDG012012	LPG PLANT		BDG012
BDG012013	MAINTENANCE DEPOT		BDG012
BDG012014	MINERAL SAND PROCESSING PLANT		BDG012



CODE	NAME	Description	PARENT Code
BDG012015	NICKEL SMELTER		BDG012
BDG012016	OIL PROCESSING PLANT		BDG012
BDG012017	PRINTING		BDG012
BDG012018	PROVING GROUND		BDG012
BDG012019	REFINERY		BDG012
BDG012019001	ALUMINA REFINERY		BDG012019
BDG012019002	GOLD REFINERY		BDG012019
BDG012019003	NICKEL REFINERY		BDG012019
BDG012019004	OIL REFINERY		BDG012019
BDG012020	TIMBER OPERATIONS	SAWMILL, MILL OR TIMBER OPERATIONS	BDG012
BDG012021	SILICON SMELTER		BDG012
BDG012022	STEEL ROLLING MILL		BDG012
BDG012023	WAREHOUSE		BDG012
BDG013	ORGANISATION		BDG
BDG013001	ANIMAL REFUGE		BDG013
BDG013002	CHARITY AND VOLUNTEER ORGANISATION		BDG013
BDG013003	CITIZENS ADVICE BUREAU		BDG013
BDG013004	POLITICAL PARTY		BDG013
BDG013005	CLUB	INCLUDES SOCIAL CLUB, LEAGUES CLUB, FOOTBALL CLUB, LABOR CLUB, ETHNIC CLUB	BDG013
BDG013006	WORKERS UNION		BDG013
BDG013007	YOUTH ORGANISATION		BDG013
BDG013007001	GIRL GUIDES		BDG013007
BDG013007002	SCOUTS		BDG013007
BDG013007003	YMCA		BDG013007
BDG013007004	YWCA		BDG013007
BDG014	PLACE OF WORSHIP		BDG
BDG014001	CHURCH		BDG014
BDG014001001	ANGLICAN		BDG014001
BDG014001002	ASSEMBLIES OF GOD	AUSTRALIAN CHRISTIAN CHURCHES	BDG014001
BDG014001003	BAPTIST		BDG014001
BDG014001004	CATHOLIC	ALSO ROMAN CATHOLIC	BDG014001
BDG014001005	CHRISTIAN LIFE		BDG014001
BDG014001006	CHURCH OF CHRIST		BDG014001
BDG014001007	INDEPENDENT		BDG014001
BDG014001008	LUTHERAN		BDG014001
BDG014001009	NAZARENE		BDG014001
BDG014001010	PENTECOSTAL		BDG014001
BDG014001011	PRESBYTERIAN		BDG014001



CODE	NAME	Description	PARENT Code
BDG014001012	SALVATION ARMY		BDG014001
BDG014001013	UNITING		BDG014001
BDG014001014	WESLEYAN METHODIST		BDG014001
BDG014001015	APOSTOLIC		BDG014001
BDG014001016	CHRISTIAN BRETHERN		BDG014001
BDG014002	MONASTERY	CONVENT OR MONASTERY	BDG014
BDG014003	GURDWARA (SIKH)		BDG014
BDG014004	MONDIR (HINDU)		BDG014
BDG014005	MOSQUE		BDG014
BDG014006	SYNAGOGUE		BDG014
BDG014007	VIHARA (BUDDHIST)		BDG014
BDG015	RESIDENTIAL BUILDING		BDG
BDG015001	HOUSE		BDG015
BDG015002	RETIREMENT HOME		BDG015
BDG015003	RETIREMENT COMPLEX	INCLUDES RETIREMENT VILLAGE	BDG015
BDG015004	APARTMENT		BDG015
BDG015005	MOBILE HOME		BDG015
BDG016	MULTI-UNIT BUILDING		BDG
GEO	GEOGRAPHY		
GEO001	FRAMEWORK		GEO
GEO001001	ISLAND MARINE		GEO001
GEO001002	SEA		GEO001
GEO001003	GULF		GEO001
GEO002	MARINE		GEO
GEO002001	MARINE PLACE		GEO002
GEO002002	REEF		GEO002
GEO003	PHYSIOGRAPHIC		GEO
GEO003001	BAY	BAY, INLET, COVE OR SOUND	GEO003
GEO003002	BEACH		GEO003
GEO003003	BREAKWATER		GEO003
GEO003004	CAVE	INCLUDES ROCK HOLE	GEO003
GEO003005	CLIFF	INCLUDES ESCARPMENT	GEO003
GEO003006	CRATER		GEO003
GEO003007	FLAT	PLAIN, DOWNS, PRAIRIE OR SIMILAR FLAT FEATURE	GEO003
GEO003008	GORGE	INCLUDES RAVINE, CANYON, CHASM	GEO003
GEO003009	HEADLAND	POINT, HEAD, HEADLAND, SPIT, NESS, CAPE, PROMONTORY OR SIMILAR FEATURE	GEO003
GEO003010	ISLAND TERRESTRIAL		GEO003
GEO003011	LAVA FLOW		GEO003

CODE	NAME	Description	PARENT Code
GEO003012	MOUNTAIN	MOUNTAIN OR PEAK	GEO003
GEO003013	NATURAL REGION	RANGE, MOUNTAIN RANGE, DESERT, MOOR, CATCHMENT	GEO003
GEO003014	PASS	PASS, GAP OR SADDLE	GEO003
GEO003015	PENINSULA	PENINSULA OR SPIT	GEO003
GEO003016	PLATEAU	PLATEAU OR TABLELAND	GEO003
GEO003017	RIDGE	SPUR	GEO003
GEO003018	ROCK TERRESTRIAL	ROCK,BOULDER,PINNACLE,CRAG,NEE, ROCK FACE	GEO003
GEO003019	SANDBAR	SANDBAR, SHOAL OR SANDBANK	GEO003
GEO003020	VALLEY	DALE, DELL, VALE	GEO003
GEO003021	HILL	HILL, KNOLL, KNOB, MESA, SUGAR	GEO003
GEO003022	BIGHT	RECESS OF SHORELINE	GEO003
GEO003023	BASIN	ALSO KNOWN AS DEPRESSION, SINK OR DRAIN WHERE WATER DRAINS TO COMMON AREA	GEO003
GEO003024	ISTHMUS	ALSO KNOWN AS NECK	GEO003
GEO003025	STRAIT	CHANNEL OF WATER BETWEEN TWO LAND MASSES	GEO003
GEO003026	GULLY		GEO003
GEO003027	ENTRANCE		GEO003
GEO004	PLACE		GEO
GEO004001	ABORIGINAL LOCATION	ABORIGINAL LOCATION OR COMMUNITY	GEO004
GEO004002	ABORIGINAL SITE	ABORIGINAL SITE OF CULTURAL OR HISTORIC SIGNIFICANCE	GEO004
GEO004003	CENSUS DISTRICT		GEO004
GEO004004	HISTORIC SITE	SITE OF CULTURAL OR HISTORIC SIGNIFICANCE	GEO004
GEO004005	HOMESTEAD		GEO004
GEO004006	LOCALITY BOUNDED		GEO004
GEO004007	LOCALITY UNBOUNDED		GEO004
GEO004008	MINING CENTRE		GEO004
GEO004009	NEIGHBOURHOOD		GEO004
GEO004010	REGION	COMMONLY KNOWN NAME FOR A REGION OR DISTRICT	GEO004
GEO004011	ROADHOUSE		GEO004
GEO004012	URBAN CENTRE		GEO004
GEO004012001	CITY		GEO004012
GEO004012002	TOWN		GEO004012
GEO004013	VILLAGE		GEO004
GEO004014	ESTATE	COMMON NAME USED BY DEVELOPERS FOR RESIDENTIAL ESTATE	GEO004
GEO004015	JUNCTION		GEO004
GEO004016	BOUNDARY		GEO004

CODE	NAME	Description	PARENT Code
GEO004017	COUNTY		GEO004
GEO004018	PARISH		GEO004
GEO004019	RURAL PLACE		GEO004
GEO004020	HUNDRED		GEO004
GEO004021	WARD		GEO004
GEO004022	DISTRICT		GEO004
GEO004023	PEDESTRIAN AREA		GEO004
GEO005	WATER POINT		GEO
GEO005001	DAM WALL	INCLUDES SYPHON, WEIR	GEO005
GEO005002	LOCK		GEO005
GEO005003	RAPID		GEO005
GEO005004	RIVER BEND	INCLUDES REACH OR ARM	GEO005
GEO005005	SPRING	INCLUDES POOL SPRING, HOTSPRING	GEO005
GEO005006	SWAMP	INCLUDES MARSH, MORASS, SALT MARSH	GEO005
GEO005007	WATERFALL	INCLUDES CASCADE, CATARACT	GEO005
GEO006	WATERBODY		GEO
GEO006001	DAM	MANMADE WATERBODY COMMONLY REFERRED TO AS A DAM OR RESERVOIR	GEO006
GEO006002	LAKE	LARGE NATURAL WATERBODY INCLUDES LOCH	GEO006
GEO006003	POOL	SMALL NATURAL WATERBODY SUCH AS WATERHOLE, LAGOON, HOLE, POOL, BILLABONG	GEO006
GEO007	WATERCOURSE		GEO
GEO007001	RIVER		GEO007
GEO007002	STREAM	ALSO INCLUDES BROOK, RIVULET, CREEK	GEO007
LMU	LAND/MARINE USE ACTIVITY AREA		
LMU001	AGRICULTURAL AREA		LMU
LMU001001	AQUACULTURE		LMU001
LMU001002	FARM		LMU001
LMU001003	ORCHARD		LMU001
LMU001004	PLANTATION		LMU001
LMU001005	VINEYARD		LMU001
LMU002	COMMUNITY SPACE		LMU
LMU002001	CAMP GROUND		LMU002
LMU002002	CARAVAN PARK		LMU002
LMU002003	PARKING AREA	PARKING AREA OR CAR PARK	LMU002
LMU002004	REST AREA		LMU002
LMU002005	SHOWGROUND		LMU002
LMU003	DEFENCE SITE		LMU
LMU003001	AIR FORCE BASE		LMU003

CODE	NAME	Description	PARENT Code
LMU003002	ARMY BASE	BARRACKS OR ARMY BASE	LMU003
LMU003003	MILITARY AREA	MILITARY AREA OR DEFENCE PRACTICE AREA	LMU003
LMU003004	NAVAL BASE		LMU003
LMU004	DUMPING GROUND		LMU
LMU004001	WASTE DISPOSAL	LANDFILL, WASTE DISPOSAL OR RUBBISH DEPOT	LMU004
LMU004002	LIQUID WASTE DISPOSAL SITE		LMU004
LMU004003	SCRAP YARD		LMU004
LMU004004	SPOIL BANKS		LMU004
LMU004005	TAILINGS		LMU004
LMU004006	TRANSFER STATION	INCLUDES RECYCLING DEPOT, COMPOSTING FACILITY	LMU004
LMU005	EXCAVATION SITE		LMU
LMU005001	ABANDONED MINE		LMU005
LMU005002	ABANDONED QUARRY		LMU005
LMU005003	ADIT		LMU005
LMU005004	MINE		LMU005
LMU005005	QUARRY		LMU005
LMU006	RECREATIONAL RESOURCE		LMU
LMU006001	OUTDOOR THEATRE	AMPHITHEATRE OR OUTDOOR THEATRE	LMU006
LMU006002	BANDSTAND		LMU006
LMU006003	BMX TRACK		LMU006
LMU006004	BOAT RAMP	ALSO KNOWN AS LANDING RAMP OR BOAT LAUNCH	LMU006
LMU006005	CLUB HOUSE		LMU006
LMU006006	DEFINED WATERSPORT ZONE		LMU006
LMU006007	FLYING FOX		LMU006
LMU006008	GRANDSTAND		LMU006
LMU006009	GROUP CAMP		LMU006
LMU006010	HUT		LMU006
LMU006011	OFF ROAD VEHICLE AREA		LMU006
LMU006012	PICNIC AREA	PICNIC SITE OR AREA	LMU006
LMU006013	PLAYGROUND		LMU006
LMU006014	PUBLIC TOILETS		LMU006
LMU006015	PWC TAKE OFF POINT	PERSONAL WATER CRAFT TAKE OFF POINT	LMU006
LMU006016	SKATE PARK		LMU006
LMU007	RESERVE		LMU
LMU007001	AMUSEMENT CENTRE	AMUSEMENT CENTRE OR THEME PARK	LMU007
LMU007002	BIOSPHERE RESERVE		LMU007
LMU007003	CEMETERY		LMU007
LMU007004	CITY SQUARE		LMU007

CODE	NAME	Description	PARENT Code
LMU007005	COASTAL RESERVE		LMU007
LMU007006	CONSERVATION PARK		LMU007
LMU007007	GAME RESERVE		LMU007
LMU007008	GARDENS	GARDENS OR BOTANIC GARDEN	LMU007
LMU007009	HISTORIC RESERVE		LMU007
LMU007010	INDIGENOUS PROTECTED AREA		LMU007
LMU007011	KARST CONSERVATION RESERVE		LMU007
LMU007012	AQUATIC RESERVE	MARINE PARK OR AQUATIC RESERVE	LMU007
LMU007013	NATIONAL PARK		LMU007
LMU007014	PARK		LMU007
LMU007015	PROTECTED AREA		LMU007
LMU007016	RAMSAR WETLANDS AREA		LMU007
LMU007017	FOREST RESERVE	STATE FOREST OR FOREST RESERVE	LMU007
LMU007018	WILDERNESS AREA	WILDERNESS PARK OR AREA	LMU007
LMU007019	ZOO	ZOO OR ZOOLOGICAL GARDEN	LMU007
LMU007020	FIREBREAK	FIREBREAK OR FIREGUARD	LMU007
LMU008	SPORT FACILITY		LMU
LMU008001	AQUATIC CENTRE		LMU008
LMU008002	ATHLETIC FIELD	ATHLETIC FIELD OR TRACK	LMU008
LMU008003	BASKETBALL COURT		LMU008
LMU008004	BOATING CLUB		LMU008
LMU008005	BOWLING GREEN		LMU008
LMU008006	CROQUET GREEN		LMU008
LMU008007	DOG TRACK	DOG OR GREYHOUND TRACK	LMU008
LMU008008	EQUESTRIAN FACILITY		LMU008
LMU008009	GOLF COURSE		LMU008
LMU008010	GOLF DRIVING RANGE		LMU008
LMU008011	HARNESS TRACK	HARNESS OR TROTTING TRACK	LMU008
LMU008012	HOCKEY GROUND		LMU008
LMU008013	HORSE TRACK		LMU008
LMU008014	MOTOR TRACK	RACETRACK	LMU008
LMU008015	NETBALL COURT		LMU008
LMU008016	OVAL		LMU008
LMU008017	RACECOURSE		LMU008
LMU008018	ROWING COURSE		LMU008
LMU008019	RUGBY FIELD		LMU008
LMU008020	SOCCER FIELD		LMU008
LMU008021	SPORTS CLUB		LMU008

CODE	NAME	Description	PARENT Code
LMU008022	SPORTS COMPLEX	SPORTS COMPLEX, SPORTS CENTRE OR SPORTS STADIUM	LMU008
LMU008023	SPORTS GROUND	SPORTS GROUND OR FIELD, PLAYING FIELD	LMU008
LMU008024	SURFING		LMU008
LMU008025	SWIMMING POOL	INCLUDES BATHS	LMU008
LMU008026	SHOOTING COMPLEX	TARGET RANGE, SHOOTING COMPLEX OR RIFLE RANGE	LMU008
LMU008027	TENNIS COURT		LMU008
LMU008028	TRAINING TRACK		LMU008
LMU008029	CYCLING TRACK	VELODROME OR CYCLING TRACK	LMU008
LMU009	STOCKPILE		LMU
LMU009001	OVER BURDEN PILE		LMU009
LMU009002	ROAD MATERIAL PILE		LMU009
LSI	LANDMARK/SUPPORT INFRASTRUCTURE		
LSI001	CONTROL POINT		LSI
LSI001001	SURVEY MONUMENT		LSI001
LSI001002	TRIG STATION		LSI001
LSI002	HARBOUR		LSI
LSI002001	MARINA		LSI002
LSI002002	MOORING		LSI002
LSI002003	PORT		LSI002
LSI002004	ANCHORAGE	INCLUDES ROADSTEAD	LSI002
LSI003	LANDMARK		LSI
LSI003001	CAIRN		LSI003
LSI003002	FLAG POLE		LSI003
LSI003003	FOUNTAIN		LSI003
LSI003004	GRAVE		LSI003
LSI003005	LIGHT POLE		LSI003
LSI003006	LOOKOUT	LOOKOUT OR OBSERVATION TOWER	LSI003
LSI003007	MEMORIAL		LSI003
LSI003008	MONUMENT		LSI003
LSI003009	SCENIC FEATURE		LSI003
LSI003010	SHIP WRECK		LSI003
LSI003011	TOURIST ATTRACTION	TOURIST ATTRACTION OR SITE	LSI003
LSI003012	TOURIST INFORMATION BAY		LSI003
LSI003013	TOWER		LSI003
LSI003014	WINDMILL		LSI003
LSI003015	WALKING TRACK		LSI003
LSI004	NAVIGATION AID		LSI



CODE	NAME	Description	PARENT Code
LSI004001	BEACON		LSI004
LSI004002	LIGHTHOUSE		LSI004
LSI004003	WINDSOCK		LSI004
LSI005	SIGN		LSI
LSI005001	BEACH MARKER		LSI005
LSI005002	BUILDING ACCESS MARKER		LSI005
LSI005003	EMERGENCY MARKER		LSI005
LSI005004	FREEWAY ACCESS MARKER		LSI005
LSI005005	HELP PHONE		LSI005
LSI005006	RAIL EXIT (EMERGENCY UNDERGROUND)		LSI005
LSI005007	SNOW POLE		LSI005
LSI005008	TRAFFIC MANAGEMENT EQUIP BOX		LSI005
LSI006	STORAGE FACILITY		LSI
LSI006001	BOATHOUSE		LSI006
LSI006002	DEPOT		LSI006
LSI006003	GAS TANK		LSI006
LSI006004	GRAIN STORAGE	GRAIN BUNKER OR GRAIN STORAGE	LSI006
LSI006005	HANGAR		LSI006
LSI006006	HAY SHED		LSI006
LSI006007	MACHINERY SHED		LSI006
LSI006008	MILK SHED		LSI006
LSI006009	OIL TANK		LSI006
LSI006010	PETROLEUM TANK		LSI006
LSI006011	PONDAGE		LSI006
LSI006012	SHEARING SHED		LSI006
LSI006013	SHED		LSI006
LSI006014	SILO		LSI006
LSI006015	STOCKYARD		LSI006
LSI006016	TANK		LSI006
LSI006017	WATER TANK		LSI006
LSI007	WHARF		LSI
LSI007001	CARGO TERMINAL		LSI007
LSI007002	CONTAINER TERMINAL		LSI007
LSI007003	DOCK	DOCK OR SHIPYARD	LSI007
LSI007004	JETTY		LSI007
LSI007005	PASSENGER TERMINAL		LSI007
LSI007006	PIER		LSI007
TRT	TRANSPORT		

CODE	NAME	Description	PARENT Code
TRT001	AIR INFRASTRUCTURE		TRT
TRT001001	AERODROME	AERODROME OR AVIATION TERMINAL	TRT001
TRT001002	AIRPORT		TRT001
TRT001003	AVIATION SERVICE		TRT001
TRT001004	CONTROL TOWER		TRT001
TRT001005	HELIPORT	HELIPAD OR HELIPORT	TRT001
TRT001006	LANDING GROUND	LANDING GROUND OR LANDING STRIP SUITABLE FOR LIGHT AIRCRAFT	TRT001
TRT002	TRANSPORT INFRASTRUCTURE		TRT
TRT002001	BARRIER		TRT002
TRT002002	BUS DEPOT		TRT002
TRT002003	BUS STATION	INCLUDES BUS INTERCHANGE	TRT002
TRT002004	BUS STOP		TRT002
TRT002005	COACH STATION		TRT002
TRT002006	BRIDGE	INCLUDES VIADUCT	TRT002
TRT002006001	FOOTBRIDGE		TRT002006
TRT002006002	RAIL BRIDGE		TRT002006
TRT002006003	ROAD BRIDGE		TRT002006
TRT002006004	WEIGHBRIDGE		TRT002006
TRT002007	FORD	INCLUDES CAUSEWAY	TRT002
TRT002008	LEVEL CROSSING		TRT002
TRT002009	NON SIGNALIZED INTERSECTION		TRT002
TRT002010	RAIL STATION		TRT002
TRT002011	TUNNEL		TRT002
TRT002011001	RAIL TUNNEL		TRT002010
TRT002011002	ROAD TUNNEL		TRT002010
TRT002012	ROAD ATTRIBUTE NODE		TRT002
TRT002013	ROAD END		TRT002
TRT002014	ROAD TRAIN ASSEMBLY AREA		TRT002
TRT002015	ROUNDAABOUT <25M	ROUNDAABOUT LESS THAN 25 METRES IN DIAMETER	TRT002
TRT002016	SIGNALIZED INTERSECTION		TRT002
TRT002017	TAXI RANK		TRT002
TRT002018	TRAM STOP		TRT002
TRT003	TRANSPORT ROUTE		TRT
TRT003001	BUS ROUTE		TRT003
TRT003002	CONNECTOR		TRT003
TRT003003	DISMANTLED RAILWAY		TRT003
TRT003004	DISUSED RAILWAY		TRT003

CODE	NAME	Description	PARENT Code
TRT003005	FERRY ROUTE		TRT003
TRT003006	MARSHALLING YARD		TRT003
TRT003007	RAILWAY		TRT003
TRT003008	ROAD		TRT003
TRT003009	ROUNDBABOUT >25M	ROUNDBABOUT GREATER THAN 25 METRES IN DIAMETER AND ALL OTHER ROUNDBABOUTS WHERE SIZE NOT IDENTIFIED	TRT003
TRT003010	SIDING		TRT003
TRT003011	TRAMWAY		TRT003
UTL	UTILITIES INFRASTRUCTURE		
UTL001	CABLEWAY		UTL
UTL001001	CABLEWAY PYLON		UTL001
UTL001002	CABLEWAY TERMINAL		UTL001
UTL001003	CHAIRLIFT	CHAIRLIFT OR CABLECAR	UTL001
UTL001004	POMA TOW		UTL001
UTL001005	T-BAR TOW		UTL001
UTL002	COMMUNICATION CABLE		UTL
UTL002001	FIBER OPTIC ABOVEGROUND		UTL002
UTL002002	FIBER OPTIC BELOWGROUND		UTL002
UTL002003	FIBER OPTIC SUBMARINE		UTL002
UTL003	COMMUNICATION SERVICE		UTL
UTL003001	BROADCAST RADIO FACILITY		UTL003
UTL003002	BROADCAST TELEVISION FACILITY		UTL003
UTL003003	EMERGENCY TELEPHONE		UTL003
UTL003004	EXCHANGE		UTL003
UTL003005	MOBILE TELEPHONY FACILITY		UTL003
UTL003006	PUBLIC TELEPHONE		UTL003
UTL003007	RADIO COMMUNICATION FACILITY		UTL003
UTL003008	RADIO STATION		UTL003
UTL003009	TELEVISION STATION		UTL003
UTL003010	WIRELESS DATA FACILITY		UTL003
UTL004	OFFSHORE CONSTRUCTION		UTL
UTL004001	GAS PLATFORM		UTL004
UTL004002	GASOIL PLATFORM		UTL004
UTL004003	OIL PLATFORM		UTL004
UTL005	PIPELINE		UTL
UTL005001	WATER ABOVEGROUND	WATER ABOVEGROUND OR AQUEDUCT	UTL005
UTL005002	CHANNEL	CHANNEL, CANAL OR DRAIN	UTL005
UTL005003	GAS ABOVEGROUND		UTL005



CODE	NAME	Description	PARENT Code
UTL005004	GAS BELOWGROUND		UTL005
UTL005005	OIL ABOVEGROUND		UTL005
UTL005006	OIL BELOWGROUND		UTL005
UTL005007	SEWER ABOVEGROUND		UTL005
UTL005008	SEWER BELOWGROUND		UTL005
UTL005009	WATER BELOWGROUND		UTL005
UTL006	PIPELINE FACILITY		UTL
UTL006001	OUTLET TOWER		UTL006
UTL006002	PUMPING STATION		UTL006
UTL006003	SEWAGE TREATMENT PLANT		UTL006
UTL006004	VALVE STATION		UTL006
UTL006005	WATER TREATMENT	WATER TREATMENT OR FILTRATION	UTL006
UTL007	POWER FACILITY		UTL
UTL007001	COOLING TOWER		UTL007
UTL007002	POWER STATION		UTL007
UTL007002001	FOSSIL FUEL DRIVEN POWER STATION		UTL007002
UTL007002002	GAS TURBINE/FACILITY		UTL007002
UTL007002003	GEO THERMAL POWER STATION		UTL007002
UTL007002004	HYDRO POWER STATION		UTL007002
UTL007002005	SOLAR POWER STATION		UTL007002
UTL007002006	WIND TURBINE/FACILITY		UTL007002
UTL007003	SUB STATION		UTL007
UTL007004	TERMINAL STATION		UTL007
UTL008	POWER LINE		UTL
UTL008001	DISTRIBUTION LINE		UTL008
UTL008002	POWER LINE PYLON		UTL008
UTL008003	SUB TRANSMISSION LINE		UTL008
UTL008004	SUBMARINE CABLE		UTL008
UTL008005	TRANSMISSION LINE		UTL008
UTL009	WATER ACCESS POINT		UTL
UTL009001	BORE		UTL009
UTL009002	PLUG ON PIPELINE		UTL009
UTL009003	STANDPIPE		UTL009
UTL009004	WELL		UTL009



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4.3.1.4 Table: FEATURE_ADDRESS_SITE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_address_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ft_add_pid
feature_pid	varchar2(15)	The Persistent Identifier for the feature.	N	Y	FEATURE	feature_pid	ft_loc_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
address_site_pid	varchar2(15)	The address site persistent identifier The foreign key table is NOT SUPPLIED.	N		ADDRESS_SITE	address_site_pid	add_si_pid

4.3.1.5 Table: FEATURE_ALIAS

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_alias_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ft_ali_pid
feature_pid	varchar2(15)	feature category code	N	Y	FEATURE	feature_pid	feat_ca_cd
date_created	date	Date this record was created.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired.	N	N	-	-	dt_retire
feature_alias_name	varchar2(200)	The feature alias name.	N	Y			feat_al_na
feature_alias_type_code	varchar2(15)	The feature alias type code	N	Y			ft_alty_cd

4.3.1.6 Table: FEATURE_ALIAS_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	User-friendly name for what this code represents.	N	N	-	-	name
description	varchar2(500)	User-friendly description for what this code represents.	N	N			descript

FEATURE_ALIAS_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
A	Alternative	Alternative name

4.3.1.7 Table: FEATURE_PARENT_CHILD

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_parent_child_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	FEATURE	-	ft_ali_pid
child_feature_pid	varchar2(15)	The feature persistent identifier representing the child.	N	Y	FEATURE	feature_pid	chd_ft_pid
parent_feature_pid	varchar2(15)	The feature persistent identifier representing the parent.	N	Y	FEATURE	feature_pid	pnt_ft_pid
parent_child_join_type	varchar2(10)	The feature parent child relationship type	N	N			parent_chi
date_created	date	Date this record was created.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired.	N	N	-	-	dt_retire

4.3.1.8 Table: FEATURE_STATUS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	User-friendly name for what this code represents.	N	N	-	-	name
description	varchar2(200)	User-friendly description for what this code represents.	N	N			descript

FEATURE_STATUS_AUT Codes

CODE	NAME	DESCRIPTION
CURRENT	CURRENT	A current feature
GEOABA	ABANDONED	An approved official geographical name that was abandoned due to objections.
GEOASS	ASSIGNED	Geographical name officially assigned to feature.
GEOBAS	BASE	This is a lifetime name for a feature, if the recorded name is subject to limited-term private contracts.
GEODIS	DISCONTINUED	Geographical name that has been officially discontinued.
GEODUA	DUAL ASSIGNED	Geographical name officially assigned to both names of a dual named feature.

CODE	NAME	DESCRIPTION
GEDUO	DUAL	This type consists of one name comprised of one Indigenous and one non-Indigenous name, which must be used together as the registered legally recognised name for the feature.
GEDUU	DUAL UNASSIGNED	Geographical name not yet officially assigned to both names of a dual named feature.
GEOHIS	HISTORICAL	This is a name that is no longer in official use but is recorded for information purposes.
GEOINT	INTERIM	This is a name that is no longer in official use but is recorded for information purposes.
GEOPRC	PROPOSED CHANGE	This is a proposed new name for an already named feature, locality or road, which has not yet been approved by the Registrar.
GEOPRN	PROPOSED NEW	This is a new name for a feature, locality or road, which is proposed but has not yet been approved by the Registrar.
GEOREC	RECORDED	Feature with name that is available with official data but has not been assigned as a geographical name.
GEOREC	RECORDED	This is the name of a feature if a private entity has naming rights.
GEOREG	REGISTERED	This type is legally recognised for the purposes of the Act as an official name for a feature, locality or road administered or coordinated by a government authority.
GEOTRA	TRADITIONAL	This is a traditional Indigenous Australian name, which is not in official use for a feature.
GEOUNA	UNASSIGNED	Geographical name not yet officially assigned to a feature. This includes proposed, deferred and approved names that have not yet been finalised.
GEOUNO	UNOFFICIAL	Feature that is an unofficial (sometimes formally discontinued) geographical name.
GEOWDN	WITHDRAWN	A proposed official geographical name that was withdrawn.

4.3.1.9 Table: FEATURE_POINT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_point_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ft_pt_pid
feature_pid	varchar2(15)	feature category code	N	Y	FEATURE	feature_pid	feat_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
feature_processing_code	varchar2(15)	Code for type of data processing undertaken.	N	Y			ft_proc_cd
geometry	MDSYS.SDO_GEOMETRY	The POINT geometry.	N	Y			geometry



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4.3.1.10 Table FEATURE_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_line_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ft_line_pid
feature_pid	varchar2(15)	feature category code	N	Y	FEATURE	feature_pid	feat_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
feature_process_code	varchar2(15)	Code for type of data processing undertaken.	N	Y			ft_proc_cd
geometry	MDSYS.SDO_GEOMETRY	The Line geometry.	N	Y			geometry

4.3.1.11 Table FEATURE_POLYGON

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
feature_polygon_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	ft_ply_pid
feature_pid	varchar2(15)	feature category code	N	Y	FEATURE	feature_pid	feat_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
feature_process_code	varchar2(15)	Code for type of data processing undertaken.	N	Y			ft_proc_cd
geometry	MDSYS.SDO_GEOMETRY	The Polygon geometry.	N	Y			geometry

4.3.1.12 Table: FEATURE_PROCESS_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	User-friendly name for what this code represents.	N	N	-	-	name
description	varchar2(200)	User-friendly description for what this code represents.	N	N			descript

FEATURE_PROCESS_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
ADDAPPROX	Approximation	Geocoding address gave an approximation of the location as a point at either street intersection, street locality or locality
ADDGNAF	GNAF match	Geocoding address gave a match to GNAF address
NO	No processing	No processing was undertaken due to geometry being supplied by contributor

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4.3.1.13 Hierarchical Features of Interest Levels Table

The Feature category AUT codes can be displayed in a hierarchical table shown below. The Parent Feature category Codes can be found in the cells to the left of the selected cell. For example, a State Government Office (BDG001001002) and a Local Government Office (BDG001001003), both have a Government Office parent (BDG001001).

The Government Offices (BDG001001) all have an Administration Facility parent (BDG001). The Administration Facilities (BDG001) all have a Building parent (BDG).

Entity	Level 1	Level 2	Level 3	Level 4
Parliament House Canberra	BDG Building	BDG001 Administration Facility	BDG001001 Government Office	BDG001001001 Australian Government Office
Victorian State Parliament House	BDG Building	BDG001 Administration Facility	BDG001001 Government Office	BDG001001002 State Government Office
Brisbane City Council Chambers	BDG Building	BDG001 Administration Facility	BDG001001 Government Office	BDG001001003 Local Government Office

4.4 Feature-Based Content Scope

All metadata concerned with Features of Interest.

5 Reference Systems

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5.1 Spatial reference system:

GDA 94

5.2 Temporal reference system:

Gregorian calendar

5.3 Reference system scope:

The spatial objects and temporal collection periods for the Features of Interest Data Sets

6 Data Quality

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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 Features of Interest reflects that of the contributor's source data. The accuracy varies with most features +/- 2 metres in urban areas and +/- 10 metres in rural and remote areas. However, due to the current processes employed for capturing the location of some feature types such as churches, horizontal accuracy can be as large as +/- 50 metres.

No "shift" of data as a means of "cartographic enhancement" to facilitate presentation has been employed for any real world feature.

6.2 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 (name and the unique identifier) have a high degree of accuracy in the order of 99.09%. Other attributes derived from the processing of supplied data may have a lower degree of accuracy but less than previously released data. All attribute accuracies are dependent on the data accuracy supplied to PSMA Australia Limited.

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.

6.3 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

6.4 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.

6.4.1 Data Set, Coverage:

There is national coverage for some of the feature types, such as urban centres. However, for the majority of feature types coverage is limited with only Victoria and ACT with reasonable coverage.

6.4.2 Attribute Completeness:

All attributes for each object are populated.

Temporal accuracy is applicable to most of the current release.

6.5 Quality scope

Attribute accuracy for all included areas.

7 Data Capture

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All Features of Interest data is captured by the State and Territory Governments through appropriate agencies. Jurisdiction features information is maintained to meet their various legislative and business requirements.

Data is also supplied from other contributors, which in some cases has required the location to be allocated based on an address.

7.1 Data capture scope

Data for changed objects within the current release time period.

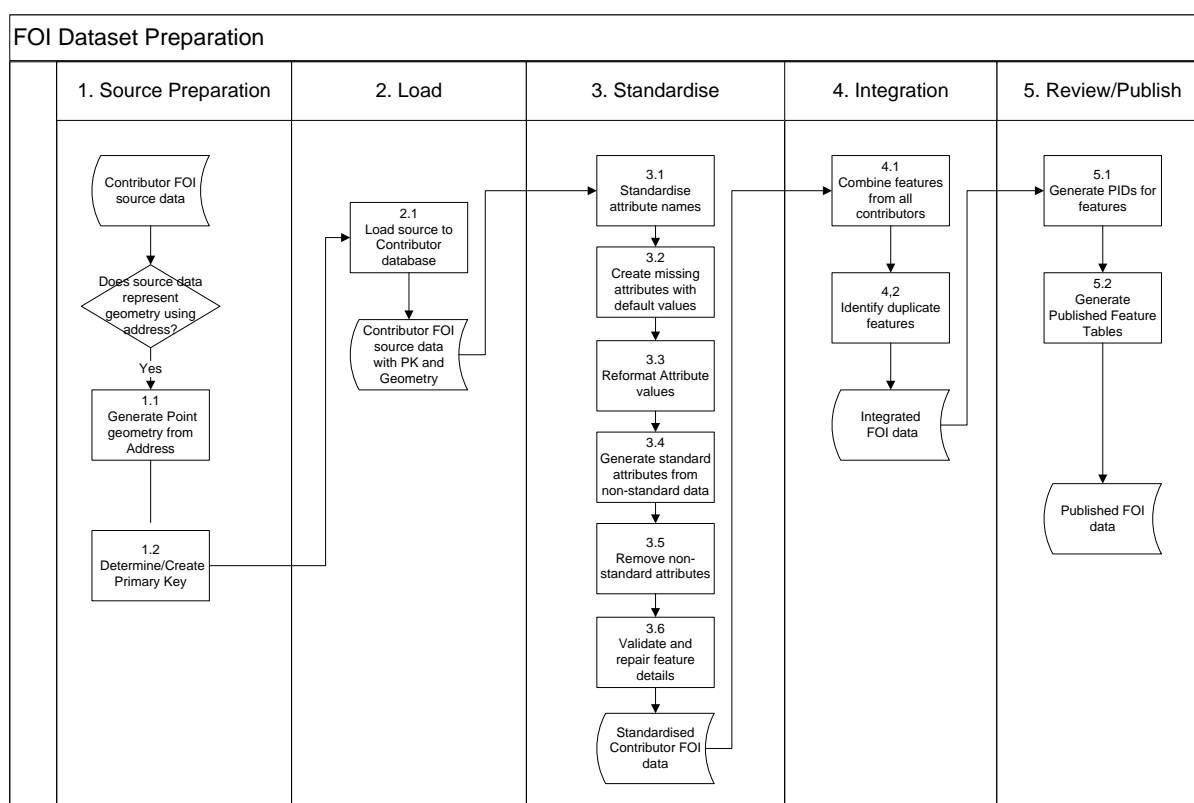
8 Data Maintenance

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This is the first release of the Features of Interest dataset and as such the processes described are suitable for creating a new dataset. Additional work is required to support the adding, updating and removal of features in future releases.

The process map below summarises the steps followed for the initial development of the Features of Interest dataset.

8.1 Maintenance Process



8.1.1 Source Preparation

Having received some features of interest from a contributor the data is assessed and some cleansing is undertaken prior to loading it into a database ready for standardising and generating features.

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Generate point geometry from address

If the contributor has provided the location of a feature using an address then the feature is represented as a point. A geocoding engine is used to geocode the address, ensuring where possible the GNAF location is used. If an address is a street intersection or cannot be exactly matched then an approximation is made of the address location and the feature_process_code is set to 'ADDAPPROX'.

Determine/Create Contributor Primary Key

Determine whether the contributor has provided a field suitable for use as a primary key to uniquely identify the feature. If no field (or concatenation of fields with a length less than 15 characters) is a suitable key then a key is generated across a concatenation of fields that uniquely identify a record.

8.1.2 Load

Load the contributor data into the database in the appropriate schema so that it can be standardised and published.

8.1.3 Standardise

There are a series of steps to standardise the data provided by contributors. This involves ensuring the data is in a standard schema as well as that the contents of each attribute are appropriate. At the end of the standardising process each contributor table is created in a 'standardised' schema of all the contributors' data.

Standardise attribute names

Where the contributor has provided the source data for a feature (e.g. name) then change the attribute name to match the standardised feature schema.

Create missing attributes with default values

Where the contributor has not provided a value for a standard attribute then the attribute is created with a default value.

Reformat attribute values

This step reformats attribute values to standard formats, typically reformatting is conversion of date/time values to yyyy-mm-dd HH:MM:SS

Determine standard attribute value from non-standard data

Mainly used for Feature Category, this step converts contributor specific codes and values into the common PSMA standard values.

Remove non-standard attributes

Remove all the contributor specific data from the features.

Validate and repair feature details

Execute a standard set of validation and repair functions against the contributor's data. This step does the following:

1. Checks if Geometry is valid, reports invalid geometry and attempts to clean the geometry using an AreaOnArea transformation to remove any self-intersections or change invalid donut geometries to aggregates.
2. Reports any zero area polygons and removes them from the feature set.
3. Reports any zero length lines and removes them from the feature set.
4. Determines the state that a feature falls in and reports any variance against the information provided by the contributor.
5. Capitalises the value in attribute feature_name.
6. Defaults the feature_name value to the feature_category if no name is provided.

Note: The feature_name_label will remain null/blank.

8.1.4 Integration

This stage of the process is used to combine all the feature information into common tables and to run standard processes, such as duplicate detection, across the complete set of features. At the end of this process all feature information is held in the 'Integrated' schema.

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Identify duplicate features

Identify where features have been provided by multiple contributors, or multiple times by one contributor.

8.1.5 Review/Publish

Generate Identifiers to be published with the features. Most of the identifiers are 10 digit unique numbers starting from 1,000,000,000. However the format of the PIDs on the feature table are: FI SSS9999999999, where SSS is the state abbreviation (left padded with an underscore) e.g. FI_NT1000000001

The feature tables are published in the final format for review prior to submitting through the QA process. The tables are generated in Postgis and ESRI shape formats.

8.1.6 FOI Data Preparation Principles

Identifying and resolving features provided by multiple contributors

A feature provided by multiple contributors is considered to be common when it meets the following criteria:

1. The feature provided by each contributor has a common name or alias.
2. The feature provided by each contributor is of a common type
3. The feature provided by each contributor falls within a range defined in Table 1.
Feature separation for duplicate detection.

When features provided by multiple contributors are common PSMA retains the feature details provided by the contributors using the following priority:

1. State jurisdiction, within own state.
2. State jurisdiction, in another state.
3. Additional contributor

Feature Type	Urban/Rural	Range for Duplicate (m)
CHURCH	Urban or Rural	20
ABORIGINAL LOCATION	Urban	500
ABORIGINAL LOCATION	Rural	1000
any other feature	Urban	10
any other feature	Rural	1000

Table 1. Feature separation for duplicate detection

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8.1.7.1 Approximation of point location

If a contributor provides a street address for the location of a feature then PSMA utilizes a geocoding engine to determine the point for the feature. In the event that the street address cannot be matched PSMA Australia creates an approximation to the address and sets field 'process_type_code' in table 'FEATURE_POINT' to 'ADDAPPROX' to indicate a precise match was not made.

8.1.7.2 Creation of points for polygon features

If a feature (other than a building footing) is represented by a single polygon, but no point, then a point is generated for the feature. The point will fall inside the polygon.

When a feature is provided without a name then the feature type is used as the default name. e.g. If a contributor provides a feature of type 'Fire Lookout', but does not provide a feature name then the feature name is defaulted to 'FIRE LOOKOUT'.

8.2 Update Frequency

The Features of Interest Data Set is updated as deemed necessary by the Jurisdictions currently supplying data. With the exception of the Features of Interest, PSMA Australia release updates to all Data Sets each quarter in the months of February, May, August and November. Due to the current dependency of the Features of Interest dataset on G-NAF, the release updates occur in the months of March, June, September and December.

8.3 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

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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 license 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.

PSMA Distribution, the wholly owned subsidiary of PSMA Australia, facilitates access to PSMA Data. PSMA Distribution works closely with our Value-Added Resellers (VARs) to provide strategic support to ensure that both the public and private sectors obtain the maximum benefit from the use of PSMA Data.

PSMA Distributions' VARs create many powerful and varied applications that utilise the PSMA Data. Our highly experienced staff help VARs with lead-generation, sales support, market intelligence and opportunity analysis.

For current users of PSMA Data, more information about the data and its use should be available from your VAR. Please contact your VAR for clarification or guidance prior to contacting PSMA Distribution.

For further information on accessing PSMA Data through a VAR, or becoming a VAR of PSMA Distribution contact:

PSMA Distribution (Postal Address)
GPO Box 4966
Sydney NSW 2001

T: +61 (0) 2 6260 9071
F: +61 (0) 2 6260 9001
M: +61 (0) 418 787 204

e-mail: enquiries@psma.com.au

web: www.pdma.com.au (A Reseller section is also included)



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9.1 Delivery medium information

The data is available to VARs through PSMA Distribution and is supplied on DVD.

9.2 Units of delivery

All data, themes and/or layers within this Dataset are provided under licence. All users of the dataset, any part of the dataset, data model or metadata must have executed appropriate licensing for the data.

9.2.1 Privacy Statement

Users must acknowledge that the PSMA Data does not on its own constitute Personal Information.

The user agrees:

- Not to do any act or engage in any practice using the PSMA Data or a value added reseller product (VAR Product) that would breach the Privacy Act 1988 (Cth);
- To comply with any direction of PSMA Distribution or PSMA Australia to observe any recommendation of the Privacy Commissioner relating to acts or practices of the user that the Privacy Commissioner considers to be in breach of the obligations in this clause.

9.2.2 General Warranty and Indemnity

PSMA Australia makes every effort to provide and maintain accurate, complete, usable and timely digital spatial information. However, datasets and information are provided with the understanding that they are not guaranteed to be complete or correct.

Information regarding Warranty and Indemnity is included in all license agreements for PSMA Data. For further information please consult your data supplier or PSMA Distribution Pty Ltd.

9.3 Medium name

Available on DVD.

9.4 Delivery Format Information

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9.4.1 MapInfo

9.4.1.1 Format name:

TAB – MapInfo Professional™

9.4.1.2 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.

9.4.1.3 Language:

English

9.4.2 Shape

9.4.2.1 Format name:

Shape – ESRI™

9.4.2.2 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

9.4.2.3 Language:

English

9.4.3 Oracle Dump

9.4.3.1 Format name:

Oracle data base files – Oracle™

9.4.3.2 Specification:

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

9.4.3.3 Language:

English

10 Metadata

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ANZLIC Metadata Profile guidelines v1.1 are available at ANZLIC (<http://www.anzlic.org.au/policies.html>)

and at ASDD (<http://asdd.ga.gov.au/profileinfo/>).

11 Other PSMA Australia Datasets

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There are six other datasets currently licensed by PSMA Australia. 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	
Land Tenure	Land tenure	
Transport & TopographyTM	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	Australia Post spatial postcodes	Postcode Polygons
		Postcode Centroids

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.

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.

Cadastre

Cadastre is a seamless national cadastral database of Australia's 10.5 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.

Property

The PSMA Australia Property theme of CadLite® is currently released as a complete set of parcels for which rates are levied. It 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.

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Land Tenure

Each Cadastral parcel from several jurisdictions have land tenure information. There are four levels of detail for each tenure type and each jurisdiction may supply varying detailed levels. More jurisdictions will provide tenure data in the near future and PSMA Australia will provide the most detailed information available.

Transport & Topography™

The Transport & Topography™ dataset is underpinned by a road centreline layer of over two 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 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.

G-NAF®

G-NAF® (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® comes from contributors including the Australian Electoral Commission, Australia Post and Australia's government mapping agencies and land registries.

G-NAF® 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).

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Postcodes

Postcodes have recently been developed in co-ordination with Australia Post. A postcode may be classed either as a gazetted area or a point-type postcode (eg. Post office box).

A gazetted postcode may have many polygons defining its boundary. Postcode boundaries do not have to match locality boundaries.

A point-type postcode will have one active centroid defining its location.

It may be necessary to include a link between the CAD and Postcodes to enable the definition of postcode boundaries when this information cannot be sourced in other ways (eg. Northern Territory). This has not been included in the Data Model as it is still currently under investigation by PSMA Australia.

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