



PSMA

AUSTRALIA
LIMITED

Product Description

Transport and Topography

Version 3.2

January 2012

PSMA Australia Data Product Specification (DPS)

Transport and Topography

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1 Overview

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1.1 DPS title:

Transport and Topography™ Product Description

1.2 DPS reference date:

November 2011

1.3 DPS responsible party:

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1.4 DPS language:

English

1.5 DPS topic category:

Spatial data and metadata for Road, Rail, Airport networks as well as Waterways and Green areas within Australia.

1.6 DPS distribution format:

PDF

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

Feature attribute	characteristic of a feature (e.g. name of an area).
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.
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 used in data maintenance by Radius Studio™
ICSM:	Intergovernmental Committee on Surveying & Mapping
IDB:	Integrated Data Base
PID:	Persistent Identifier
POI:	Points of Interest
PSMA:	Public Sector Mapping Agencies
UML:	Unified Modeling Language

1.10 Informal description of the data product

The Transport and Topography™ dataset is comprised of three themes:

- Transport
- Hydrology
- Greenspace

The Transport and Topography™ data set is used as a basis for the G-NAF™ and Points of Interest (POI) data sets provided by PSMA Australia. The Transport and Topography™ data set is an important data set in its own right.

PSMA Australia is currently working to improve the data maintenance processes which have significantly enhanced its accuracy from previous releases. 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 using Radius Studio™ to enforce the data integrity (both spatial and 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 section 9.4 [Delivery Format Information](#).

The LYNX environment provides the data release as downloads or on DVD.

2 Specification Scope

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This data set is divided into two themes.

2.1 Scope identification Data Set:

Transport and Topography™ Data Set

2.1.1 Level:

Data Set

2.1.2 Level name:

Transport and Topography

2.1.3 Extent

Spatial coverage of Australia's landmass including External Territories and Coastal Islands (including Lord Howe Island).

All data is supplied by the appropriate Jurisdiction in an ongoing basis.

2.2 Scope identification - Themes:

Transport and Topography Themes

2.2.1 Level:

Theme

2.2.2 Level names:

- Transport
- Hydrology
- Greenspace

2.2.3 Extent

Spatial coverage of Australia's Transport Network, bodies of water (and islands) and 'green' spaces.

Transport is a digital representation of all roads, airports and railways within Australia.

Hydrology is a digital representation of oceans, lakes, rivers, islands and other bodies of water.

Greenspace is a digital representation of parks, reserves and recreational areas.

2.3 Scope identification – Layers:

Transport and Topography Theme Layers

2.3.1 Level:

Data set layers within each of the 3 themes.

2.3.2 Level name:

Layers

2.3.3 Extent:

Spatial coverage of Australia's statistical, political, urban and regional subset areas.

The Transport Theme has four layers
(Roads, Rail Lines, Railway Stations, Airports).

The Hydrology Theme has three layers
(Hydrology polygons, Hydrology Lines, Islands).

The Greenspace Theme has two layers
(Urban Parks, National and Other Parks)

3 Data Product Identification

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3.1 Title:

Transport and Topography™ for Australia

3.2 Alternate title:

Transport and Topography, T and T, T & T

3.3 Abstract:

The Transport and Topography™ Data Sets Product Description for Australia, (an ISO 19131 compliant description) provides an optimised quality geometric description and a set of basic attributes of the Australian transport networks as well as Waterways and Green areas. Transport and Topography™ data will be revised on a regular basis. Geographic Polygon Data Files based on GDA94 are produced from varying format data provided from the Jurisdictions.

3.4 Purpose

Transport and Topography™ is designed to meet the needs of organisations that require a graphical representation of locations of the transport networks (roads, rail and airports), waterways (everything from dams on a property to major rivers and oceans), and green spaces (local playing fields and golf courses, up to and including state and national parks) to integrate with other data in servicing their business needs.

Transport and Topography™ incorporates State boundaries (and Localities derived) from the Administrative Boundaries dataset and is a valuable data set in its own right. The common geometric base allows users to apply the spatial data to the full extent of coverage. This common infrastructure facilitates data integration with supplementary data supplied in the future.

3.5 Topic category

Polygons, Lines and points defined by coordinate spatial data (latitude and Longitude) with associated textual metadata.

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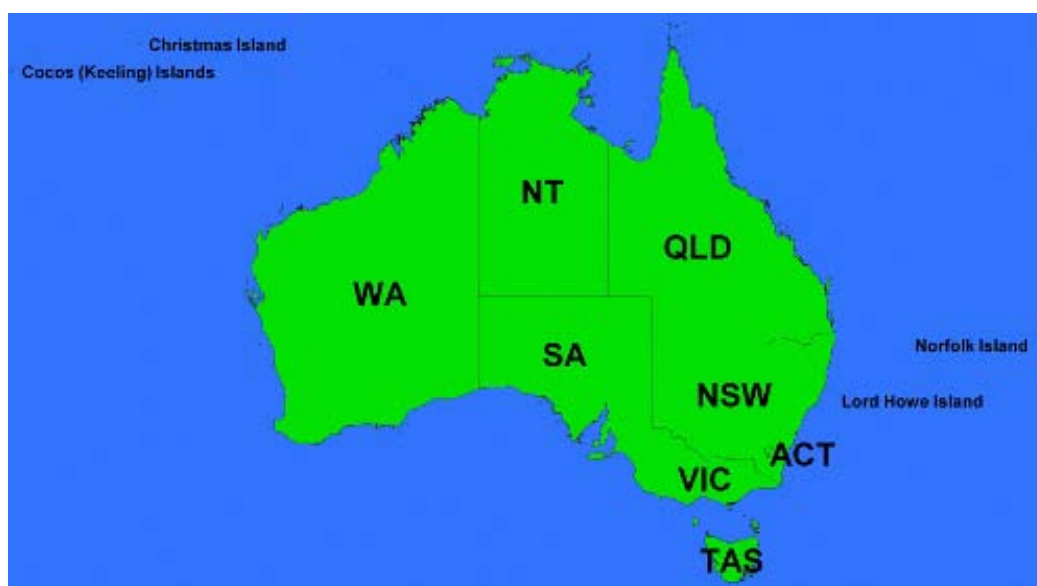
3.6 Geographic description

The Transport and Topography™ data sets cover 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)

3.7 Citation date:

09/2010

3.8 Extent Type

Code: 1 – inclusion

4 Data Content and Structure

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Transport and Topography™ is a feature-based product. An application schema expressed in UML is included with an associated Data Dictionary.

4.1 Feature-based data

The feature type is spatial polygon for the various Transport and Topography™ themes. The table below outlines the features and their integration into the data Sets.

Entity	Description	Integration	Rules
Street	<p>A Street represents a segment of road.</p> <ul style="list-style-type: none"> A Street will have 1 or many line segments defining its spatial existence. A Street can be related to 0 or more localities. If a Street is related to a gazetted locality (e.g. a locality with a polygon representation), its lines in STREET_LOCALITY_LINE will be 'cookie-cut' by the buffered locality polygon. If a Street is related to an un-gazetted locality (e.g. a locality with only point representation), its lines in STREET_LOCALITY_LINE will be 'cookie-cut' by the buffered locality point. A Street/Locality (gazetted or un-gazetted) pair will have 1 active point in STREET_LOCALITY_POINT. This is the centroid of the street line(s) in STREET_LOCALITY_LINE (centroid creation in the same way G-NAF creates street centroids). All Street/Locality pairs may have many alias records describing alternate names for the Street within the Locality. 	<p>A Street /Locality pair has:</p> <ul style="list-style-type: none"> 0 to many related G-NAF Address records 	No special rules
Railway	Railway captures railway lines. A railway may have multiple line segments defining its spatial existence.	No integration to other datasets (except State).	No special rules
Railway Station	A railway station is a simple point dataset capturing the location of railway stations.	<p>A Railway Station has:</p> <ul style="list-style-type: none"> 0 or 1 related gazetted Locality record. Most of the time will be related to a Locality. Will only not be related to a locality where the Railway Station falls within an unincorporated area (e.g. NT). 1 related POI record 	No special rules

Entity	Description	Integration	Rules
Airport Landing Ground	This entity represents a place where aircraft land. It may be either an official airport or an unofficial airstrip.	An Airport has: <ul style="list-style-type: none"> 1 related gazetted Locality record 1 related POI record 0 to many related CAD records 	<ul style="list-style-type: none"> An airport should have at least 1 related CAD record Official airport landing grounds must have one active point defining where the airport building location is.
Hydrology	Hydrology is a collection of tables that capture hydrology lines and polygons.	No integration to other datasets (except State).	No special rules
Greenspace	Greenspace is made up of Urban Parks and National Parks. A Greenspace may have many polygons defining its boundary.	A Greenspace has: <ul style="list-style-type: none"> 0 to many related gazetted Locality records 0 to many related CAD records 1 related POI record 	<ul style="list-style-type: none"> Greenspace should have at least 1 related CAD record
State	Every dataset references a state.	All other datasets reference a state persistent identifier.	No special rules

The Transport Theme provides data that covers the following layers,

- Roads – A national coverage of network roads at all levels within Australia. Roads data covers everything from major highways to outback tracks.
- Airports – This layer covers all aspects of Airports within Australia, the layer shows all airports from International to local landing strips.
- Railway Lines – This layer contains the national railway line network.
- Railway Stations – This layer shows railway stations located along the railway line network.

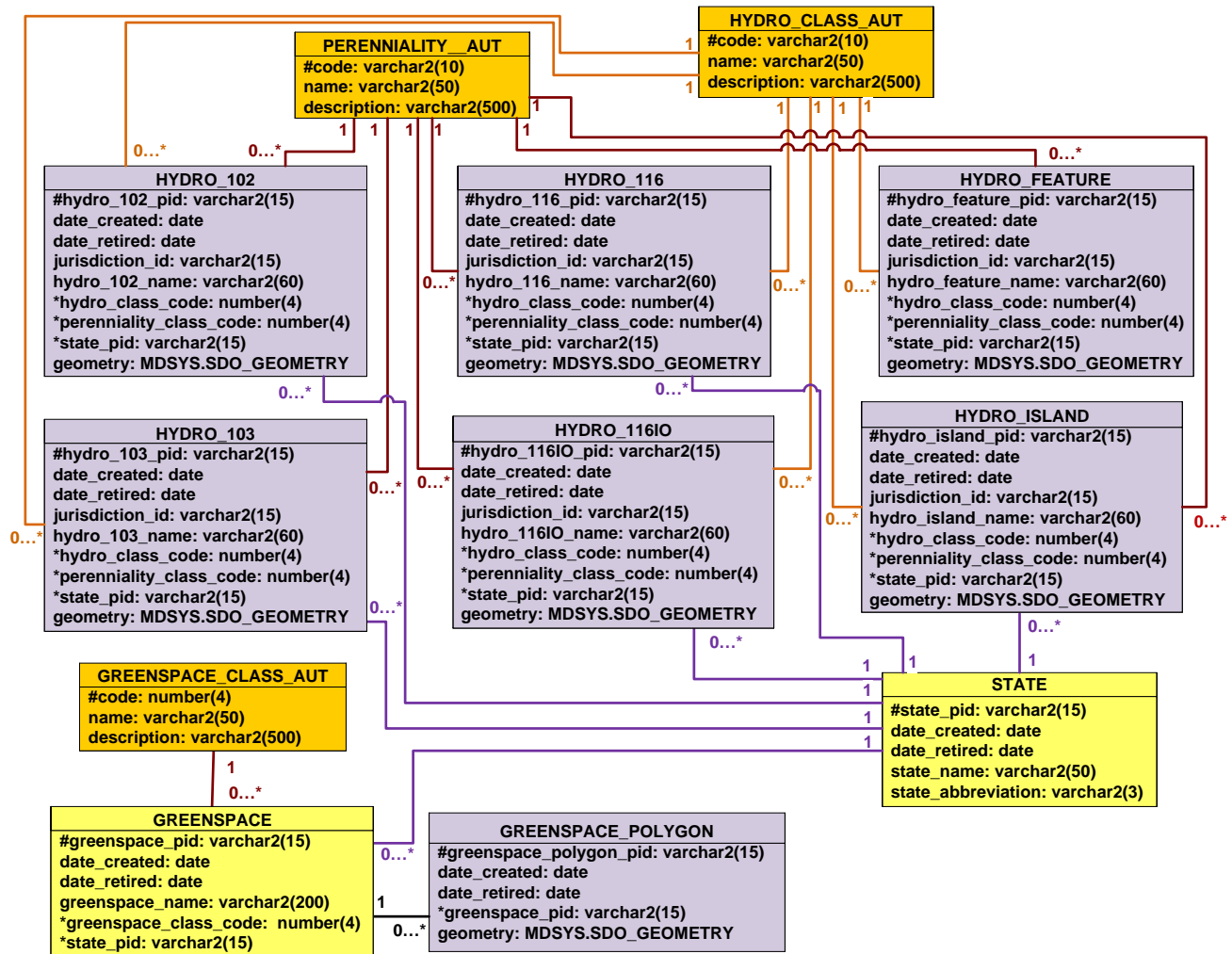
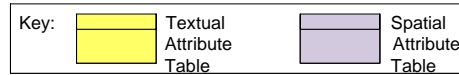
The Hydrology Theme shows locations of waterways, everything from dams on a property to major rivers and oceans.

The Greenspace Theme contains two sections titled Urban Parks and National Parks and forests. This theme contains local playing fields and golf courses, up to and including state and national parks.

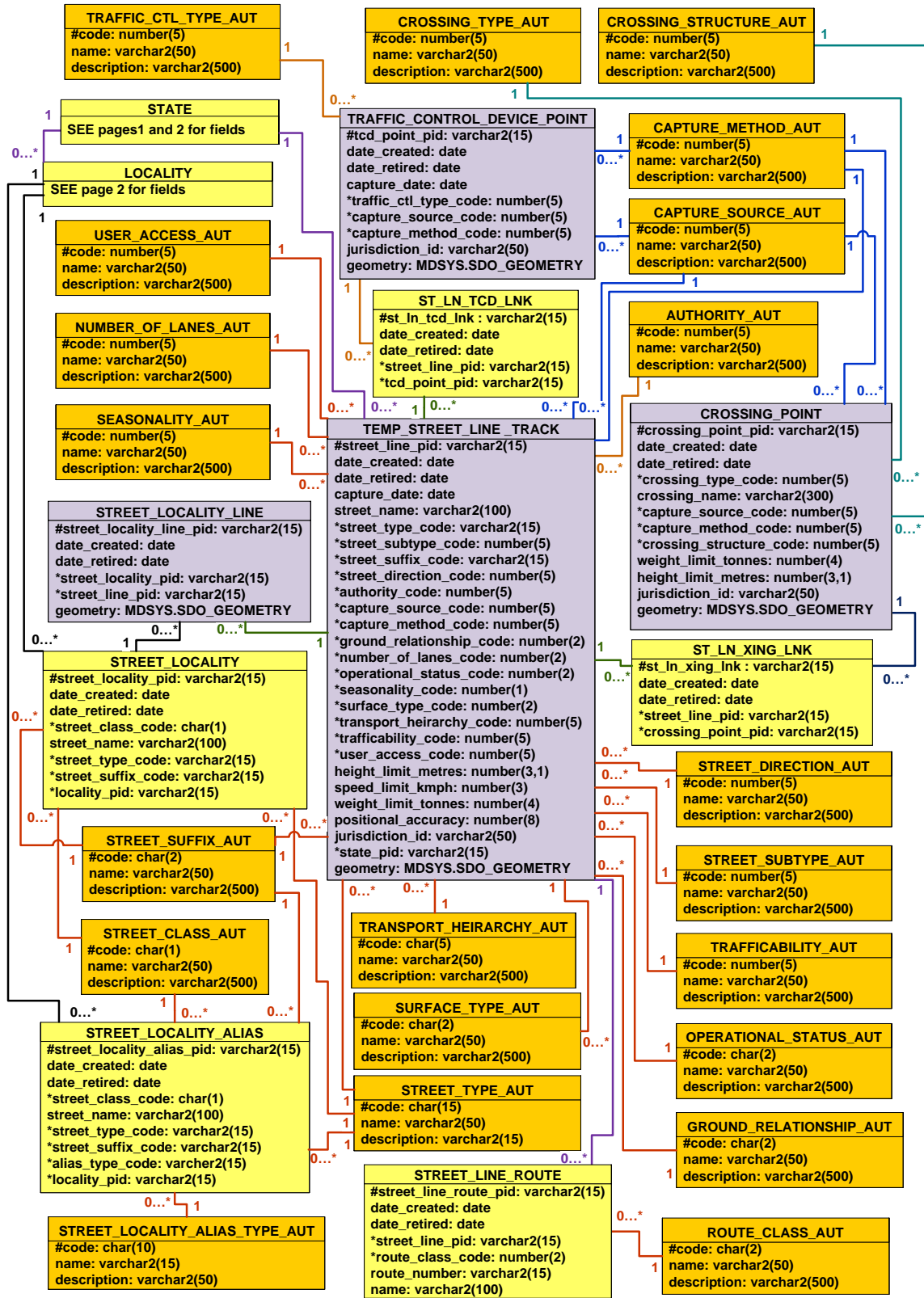
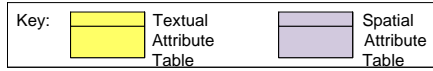
4.2 Feature-based application schema (Data Model)

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Transport and Topography DATA MODEL page4



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. (has # entry in the data model tables)
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. (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_update_guidelines.pdf

4.3.1.1 State

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(from Administration Boundaries)

4.3.1.1.1 Table: STATE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
state_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	state_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
state_name	varchar2(50)	Feature name. All in uppercase. e.g. 'TASMANIA'	N	Y	-	-	state_name
state_abbreviation	varchar2(3)	State abbreviation.	N	Y	-	-	st_abbrev

4.3.1.2 Locality

(Derived from Administration Boundaries)

4.3.1.2.1 Table: LOCALITY

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
locality_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	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_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
postcode	varchar2(4)	This field stores the postcode for the locality from the Suburb dataset. It is a temporary work-around until the Postcode Boundaries dataset becomes available.	N	N	-	-	postcode
primary_postcode	varchar2(4)	Required to differentiate localities of the same name within a state	N	N	-	-	prim_postcode
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

4.3.1.3 Transport

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Airports

4.3.1.3.1 Table: AIRPORT_LG

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
airport_lg_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	alg_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
airport_name	varchar2(200)	Name	N	Y	-	-	name
locality_pid	varchar2(15)	Locality pid. Not mandatory because an airport does not have to exist in a gazetted locality!	N	N	-	-	loc_pid
transport_hierarchy_code	number(5)	Transport Hierarchy Code (currently always 700 - any identified landing ground)	N	Y	TRANSPORT_HIERARCHY_AUT	code	thier_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid

4.3.1.3.2 Table: AIRPORT_LG_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
airport_lg_line_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	al_lne_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
airport_lg_pid	varchar2(15)	airport pid	N	Y	AIRPORT_LG	airport_lg_pid	alg_pid
surface_type_code	number(2)	surface type code	N	Y	SURFACE_TYPE_AUT	code	sftyp_code
operational_status_code	number(2)	usage type	N	Y	OPERATIONAL_STATUS_AUT	code	opstt_code
jurisdiction_id	varchar2(20)	jurisdiction id	N	N	-	-	jrstdctn_id
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.3.3 Table: AIRPORT_LG_POINT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
airport_lg_point_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	al_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
airport_lg_pid	varchar2(15)	airport pid	N	Y	AIRPORT_LG	airport_lg_pid	alg_pid
surface_type_code	number(2)	surface type code	N	Y	SURFACE_TYPE_AUT	code	sftyp_code
operational_status_code	number(2)	usage type	N	Y	OPERATIONAL_STATUS_AUT	code	opstt_code
jurisdiction_id	varchar2(20)	jurisdiction id	N	N	-	-	jrstdctn_id
geometry	MDSYS.SDO_GEOMETRY	Point geometry	N	Y	-	-	geometry

4.3.1.3.4 Table: AIRPORT_LG_POLYGON

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
airport_lg_polygon_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	al_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
airport_lg_pid	varchar2(15)	airport persistent identifier.	N	Y	AIRPORT_LG	airport_lg_pid	alg_pid
surface_type_code	number(2)	surface type code	N	Y	SURFACE_TYPE_AUT	code	sftyp_code
operational_status_code	number(2)	usage type	N	Y	OPERATIONAL_STATUS_AUT	code	opstt_code
jurisdiction_id	varchar2(20)	jurisdiction id	N	N	-	-	jrstdctn_id
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

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Rail

4.3.1.3.5 Table: GAUGE_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code eg. 1. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. eg OPERATIONAL	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

GAUGE_TYPE_AUT Codes

Code	NAME
1	STANDARD
2	NARROW
3	NOT KNOWN
4	BROAD

4.3.1.3.6 Table: RAILWAY

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
railway_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	rw_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
railway_name	varchar2(50)	Name if exists	N	N	-	-	name
transport_hierarchy_code	number(5)	Transport Hierarchy Code	N	Y	TRANSPORT_HIERARCHY_AUT	code	thier_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid

4.3.1.3.7 Table: RAILWAY_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
railway_line_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	rw_lne_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
railway_pid	varchar2(15)	railway pid	N	Y	RAILWAY	railway_pid	rw_pid
gauge_type_code	number(2)	gauge type code	N	Y	GAUGE_TYPE_AUT	code	ggtyp_code
ground_relationship_code	number(2)	ground relationship code	N	Y	GROUND_RELATIONSHIP_AUT	code	grrel_code
operational_status_code	number(2)	operational status	N	Y	OPERATIONAL_STATUS_AUT	code	opstt_code
jurisdiction_id	varchar2(50)	ID the jurisdictions used for this record	N	N	-	-	jrsdctn_id
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.3.8 Table: RAILWAY_STATION

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
railway_station_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	railst_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
jurisdiction_id	varchar2(16)	ID the jurisdictions used for this record - not mandatory because do not have this data for everyone	N	N	-	-	jrsdctn_id
railway_station_name	varchar2(50)	Name if exists	N	N	-	-	name
transport_hierarchy_code	number(5)	Transport Hierarchy Code - e.g. 501	N	Y	TRANSPORT_HIERARCHY_AUT	code	thier_code
operational_status_code	number(2)	Operational, Under Construction, Disused	N	Y	OPERATIONAL_STATUS_AUT	code	opstt_code
locality_pid	varchar2(15)	locality id. Will only not be related to a locality where the Railway Station falls within an unincorporated area (eg. NT).	N	N	LOCALITY	locality_pid	loc_pid
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Point geometry	N	Y	-	-	geometry

Roads

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4.3.1.3.9 Table: OPERATIONAL_STATUS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name e.g. Operational	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

OPERATIONAL_STATUS_AUT Codes

Code	NAME
1	Operational
2	Under Construction
3	Disused
4	Unknown
5	Closed
6	Proposed
7	Notional

4.3.1.3.10 Table: ROUTE_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(500)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	desc

ROUTE_CLASS_AUT Codes

CODE	DESCRIPTION	NAME
0	Undetermined	
1	NationalRoute	Route is part of a National Route
2	StateRoute	Route is part of a State Route.
3	Tourist	Route is part of a tourist route.
4	Cycleway	
5	HeavyHaulage	Route is identified as a Heavy Haulage route.
6	AusLink	Route is part of the National Road Network.

4.3.1.3.11 Table: TRANSPORT_HIERARCHY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	Code eg. 301. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. eg National or State Highway	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

TRANSPORT_HEIRACHY_AUT Codes

Code	Description	NAME
301	National or State Highway	Roads which are of importance in a national sense, and/or are a major interstate through route, and/or are principal connector roads between capitals and/or major regions and or key towns/commercial centres/inter-transport hubs.
302	Arterial Road	Well maintained and widely used roads which are major connectors for national highways or state highways, major centres, key towns, or have major tourist importance or which main function is to form the principal avenue of communication for metropolitan traffic movements.
303	Sub-arterial Road	Acts as connector between highways and/or arterial roads, or as an alternative for arterial roads, or a principal avenue for massive traffic movements
304	Collector Road	Provides for traffic movement between sub-arterial and local roads or to distribute traffic to local street systems.
305	Local Road	Provides property access. Includes service roads that may share the same name as higher order roads.
308	Undetermined	Classification undetermined.
400	Pedestrian Thoroughfare	A road or passage whose main purpose is to provide non-vehicular access for pedestrians but may allow some vehicular access (eg malls). Also includes arcades, cycle tracks and foot tracks.
500	Railway Line 1	RAILWAY LINE 1
501	Railway Station	RAILWAY STATION
503	Railway Line 2	RAILWAY LINE 2
700	Any Identified aircraft landing ground	Any Identified aircraft landing ground
309	Access road	Road designed to provide access to the rear of, into or within a property but may not necessarily be part of the public road network. They generally do not have addresses. Would be applied to urban service lanes, driveways, and other tracks on private property.
600	Busway	A road which has been dedicated as a rapid bus-only transit way. This does not include roads which have bus-only lanes.
701	Helipad	Helipad

4.3.1.3.12 Table: GROUND_RELATIONSHIP_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code e.g. 1. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name e.g. In Tunnel	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

GROUND_RELATIONSHIP_AUT Codes

Code	NAME	DESCRIPTION
0	Unknown	
1	Above Ground or On Bridge	Road passes over a bridge, and is therefore above the ground or water.
2	In Tunnel	Road passes through a tunnel, and is therefore below the ground or water.
3	On Ground	Road is on the ground. Default value.
4	Other	This may include causeways, dam walls, fords or other crossings.

4.3.1.3.13 Table: STREET_LINE_ROUTE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
street_line_route_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	sl_rt_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
street_line_pid	varchar2(15)	Street line pid	N	Y	STREET_LINE	pid	st_lne_pid
route_class_code	number(2)	National or state route	N	Y	ROUTE_CLASS_AUT	code	rt_cls_cd
route_number	varchar2(15)	The route number	N	N	-	-	route_num

4.3.1.3.14 Table: STREET_LOCALITY

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
street_locality_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	st_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
street_class_code	char(1)	Defines whether this street represents a confirmed or unconfirmed street.	N	Y	STREET_CLASS_AUT	code	stcls_code
street_name	varchar2(100)	Street name. eg. "POPLAR"	N	Y	-	-	name
street_type_code	varchar2(15)	street type. eg "PLACE"	N	N	STREET_TYPE_AUT	code	sttyp_code
street_suffix_code	varchar2(15)	street suffix. eg. "WEST"	N	N	STREET_SUFFIX_AUT	code	stsfx_code
locality_pid	varchar2(15)	locality pid	N	Y	LOCALITY	locality_pid	loc_pid

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4.3.1.3.15 Table: STREET_LOCALITY_ALIAS

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
street_locality_alias_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	sl_ali_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
street_locality_pid	varchar2(15)	street locality pid	N	Y	STREET_LOCALITY	street_locality_pid	st_loc_pid
street_name	varchar2(100)	street alias name. eg. "POPLAR"	N	Y	-	-	name
street_type_code	varchar2(15)	street type. eg "PLACE"	N	N	STREET_TYPE_AUT	code	sttyp_code
street_suffix_code	varchar2(15)	street suffix. eg. "WEST"	N	N	STREET_SUFFIX_AUT	code	stsfx_code
alias_type_code	varchar2(10)	alias type	N	Y	STREET_LOCALITY_ALIAS_TYPE_AUT	code	altyp_code

4.3.1.3.16 Table: STREET_LOCALITY_ALIAS_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	Code (eg. SYN). This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name	N	Y	-	-	name_aut
description	varchar2(254)	Description of what the code means (eg. SYNONYM).	N	N	-	-	dscpn_aut

STREET_LOCALITY_ALIAS_TYPE_AUT Codes

Code	DESCRIPTION	NAME
SYN	Derived from the Address Processing in G-NAF	SYNONYM
ALT	Derived from Roads processing in Transport	ALTERNATIVE

4.3.1.3.17 Table: STREET_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
street_line_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	st_lne_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
Capture_date	date	Date this record was captured	N	N	-	-	dt_capture
street_name	varchar2(100)	Street name. e.g. "POPLAR"	N	Y	-	-	name
street_type_code	varchar2(15)	street type. e.g. "PLACE"	N	N	STREET_TYPE_AUT	code	sttyp_code
street_subtype_code	number(5)	street subtype code	N	Y	STREET_SUBTYPE_AUT	code	subtype_cd
street_suffix_code	varchar2(15)	street suffix. eg. "WEST"	N	N	STREET_SUFFIX_AUT	code	stsfx_code
street_direction_code	number(5)	street direction code	N	N	STREET_DIRECTION_AUT	code	dirn_cd
authority_code	number(5)	authority code	N	N	AUTHORITY_AUT	code	authrty_cd
capture_source_code	number(5)	capture source code	N	N	CAPTURE_SOURCE_AUT	code	source_cd
capture_method_code	number(5)	capture method code	N	N	CAPTURE_METHOD_AUT	code	method_cd
number_of_lanes_code	number(5)	number of lanes code	N	N	NUMBER_OF_LANES_AUT	code	lanes_cd

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
operational_status_code	number(2)	Operational, Under Construction, Disused	N	N	OPERATIONAL_STATUS_AUT	code	status_cd
seasonality_code	number(1)	seasonality code	N	N	SEASONALITY_AUT	code	seasonl_cd
transport_hierarchy_code	number(5)	Transport Hierarchy Code	N	Y	TRANSPORT_HIERARCHY_AUT	code	thier_code
surface_type_code	number(2)	surface type code	N	Y	SURFACE_TYPE_AUT	code	sftyp_code
ground_relationship_code	number(2)	ground relationship code	N	Y	GROUND_RELATIONSHIP_AUT	code	grrel_code
trafficability_code	number(5)	trafficability code	N	N	TRAFFICABILITY_AUT	code	trffcbl_cd
user_access_code	number(5)	user access code	N	N	USER_ACCESS_AUT	code	access_cd
height_limit_meters	number(3,1)	The height limit of vehicles allowed on the bridge	N	N	-	-	hght_lmt_m
speed_limit_kmph	number(3)	speed limit kmph	N	N	-	-	spd_lmt_km
positional_accuracy	number(8)	positional accuracy	N	N	-	-	pos_acc
jurisdiction_id	varchar2(16)	The id the jurisdiction used for this street	N	N	-	-	jrstdctn_id
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.3.18 Table: AUTHORITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

AUTHORITY_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	State authority	Road is vested in a state government authority or agency, usually as a result of being declared under relevant jurisdictional legislation, registration processes, gazettal or proclamation; the state government authority is overall responsible for the upkeep of the road. Roads funded federally would still have AUTHORITY = "State"
2	Local authority	Road is vested in a local government authority, as a result of relevant legislation etc. The LGA is overall responsible for the upkeep of the road.
3	Other government entity	Road is vested in another government authority.
4	Undetermined government authority	Road is vested in either a state or local government authority.
8	Private	Road on privately-owned property which has not been given to a government entity for management.
9	Other	
14	State Government - Transport Authority	Road is vested in, and is the responsibility of, the relevant state or territory transport authority.
16	State Government – Forestry Authority	Road is vested in, and is the responsibility of, the relevant state or territory forestry or primary industries authority.
17	State Government – National Parks Authority	Road is vested in, and is the responsibility of, the relevant state or territory national parks and wildlife authority.
98	Road crosses cadastre	Road crosses the boundary of cadastral parcels and may or may not be part of the public road network.
99	Likely non-public road	Road falls completely within a cadastral parcel and is therefore not likely to be part of the public road network.

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4.3.1.3.15 Table: CAPTURE_METHOD_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

CAPTURE_METHOD_AUT Codes

CODE	NAME
0	Unknown
10	Derived
11	Derived from cadastre
12	Derived from scanned map
20	GPS
21	GPS differential
22	GPS mobile
30	Trace
31	Trace stereophotography
32	Trace orthophotography

CODE	NAME
33	Trace other georeferenced satellite/photo image
40	Trace from table digitising
50	Engineering/surveying data
90	Estimated
99	Other

4.3.1.3.16 Table: CAPTURE_SOURCE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

CAPTURE_SOURCE_AUT Codes

CODE	NAME
0	Undetermined
10	State/Territory Topographic Mapping program
11	Jurisdiction tourism mapping program
12	Other Lands Program: Pastoral, Cadastral, Indigenous
20	Collaborative topographic mapping program

21	Commonwealth topographic mapping program (non-Defence)
22	Defence topographic mapping program
23	Other Commonwealth mapping program
30	Local Government
40	Transport Authority
50	Emergency Services
60	Forestry
70	National Parks & Wildlife
80	Water Authority
90	Power Authority
99	Other

4.3.1.3.17 Table: NUMBER_OF_LANES_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

NUMBER_OF_LANES_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	One	Road only has one lane.
2	More than one	Road has two or more lanes.

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4.3.1.3.18 Table: SEASONALITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

SEASONALITY_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	Default value. Includes all other roads which may still be closed due to adverse but unlikely weather conditions.
1	Subject to Seasonal Closure	Road is subject to closure at certain times of year depending upon weather conditions. For example, during wet weather or snow. Victoria currently populates from CFA feedback.

4.3.1.3.19 Table: STREET_DIRECTION_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

STREET_DIRECTION_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	One way	Traffic is restricted to travel in one direction only at all times.
2	Both ways	Traffic can travel in either direction.
3	Alternating	Traffic is restricted to travel in one direction only, but the direction can change.

4.3.1.3.20 Table: STREET_SUBTYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

STREET_SUBTYPE_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	Standard Road/Single Carriageway	Single carriageway road with ability to be addressed if required. Default value. Would include emergency crossovers.
2	Dual Carriageway	Two road segments with opposing flows of traffic, with a physical impediment to crossing from one side to another, and carrying the same name and other common attributes. Can have property access and crossings.
3	Motorway	A high traffic volume, high speed road, generally comprising dual carriageway and also having full access control and grade separated intersections, with no direct access from adjoining properties or side roads and all crossings are by means of overpass and underpass bridges with traffic entering or leaving by means of ramps.
4	Roundabout	Road segment part of an intersection designed to allow smooth integration but also slow traffic. It must be circular or elliptical in design, have one-way flow, and would generally not have addresses on it. Roundabouts larger than 20m will be captured as lines with this sub-type.
5	Entry/Exit Ramp	An access ramp to or from one road to another to allow smooth integration of traffic, and is associated with a road of ROADTYPE = "freeway" or "motorway". Travel flow is in one direction only, they are always sealed and mostly have a single lane.
6	Vehicular Track	A road of minimal or no construction, whose surface may vary from poorly surfaced to tracks beaten by the passage of vehicles. They are generally passable by 2WD vehicles in fair weather only. Vehicular tracks generally do not form part of the public communication system, but provide access to individual properties or areas used for pastoral or industrial purposes. May include driveways in properties.
7	Pathway	A road or track designed to carry pedestrian or cycle traffic only (but may have restricted vehicular access).
8	Connector	A data management feature used to connect other road features to allow network analysis of transportation systems.
9	Ferry Route	A ferry route.

Note the difference between STREET_TYPE_CODE and STREET_SUBTYPE_CODE:

- STREET_TYPE_CODE refers to the part of an aggregated road name, i.e. the 'ROAD' in 'SMITH ROAD'. It may not be populated for all roads, in particular unnamed or access roads.
- STREET_SUBTYPE_CODE refers to the structural classification of the road, i.e. whether it is constructed as a motorway, dual carriageway, vehicle track, roundabout etc. It is a number field and will always have a value (which may be 0).

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4.3.1.3.21 Table: TRAFFICABILITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

TRAFFICABILITY_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	All Vehicles	Open to use by any vehicle.
2	Pedestrian traffic only	Pedestrian traffic only.
3	Limited Capacity	Limited capacity.
4	4WD only	Unimproved road generally only passable in a 4WD vehicle.

4.3.1.3.22 Table: USER_ACCESS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(5)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	code
name	varchar2(50)	Name	N	Y	-	-	name
description	varchar2(500)	Description of what the code means	N	Y	-	-	descriptio

USER_ACCESS_AUT Codes

CODE	NAME	DESCRIPTION
0	Undetermined	
1	Inclusive	Road is usually open at all times to the general public.
2	Authorised	Access to road may require authorisation from responsible authority. Includes but not limited to state and local authority roads such as some roads in national parks and state forests, cemeteries, sports grounds, hospitals, shopping centres, schools, and roads only accessible by buses; and private roads such as (but not necessarily limited to) caravan parks, retirement villages, universities, private schools, gated communities or other residential complexes. Also includes emergency crossovers.
3	Exclusive / Restricted	Road is restricted to the use of the responsible authority only. Includes roads on private land that do not have a USER ACCESS value of "AUTHORISED". Default value where AUTHORITY = "Private".
4	Tollway	Road is usually open at all times to the general public but will require payment for access.
98	Either Private or Authorised	Road is known to be not part of the public road network and is therefore likely to have restricted access.
99	Either Open or Authorised	Road is vested in a state, territory or local government authority, but its user access is unknown.

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4.3.1.3.23 Table: STREET_LOCALITY_LINE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
street_locality_line_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	sl_line_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
street_locality_pid	varchar2(15)	street locality pid	N	Y	STREET_LOCALITY	street_locality_pid	st_loc_pid
street_line_pid	varchar2(15)	The STREET_LINE record this record was derived from	N	Y	STREET_LINE	street_line_pid	st_line_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.3.24 Table: STREET_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar (1)	This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name	N	Y	-	-	name_aut
description	varchar2(200)	Description of what this street type represents (eg. Gazetted Street, Unconfirmed Street)	N	N	-	-	dscpn_aut

STREET_CLASS_AUT Codes

Street Class Code	Description	Name
C	Confirmed Street	Confirmed
U	Unconfirmed Street	Unconfirmed

4.3.1.3.25 Table: STREET_SUFFIX_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	Code (e.g. "WEST" or "W").(AS4590.8.8). This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name	N	Y	-	-	name_aut
description	varchar2(254)	Description of street suffixes	N	N	-	-	dscpn_aut

STREET_SUFFIX_AUT Codes

Suffix Type	Description / Name
CN	CENTRAL
DE	DEVIATION
E	EAST
EX	EXTENSION
LR	LOWER
ML	MALL
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
S	SOUTH

Suffix Type	Description / Name
SE	SOUTH EAST
SW	SOUTH WEST
UP	UPPER
W	WEST
IN	INNER
OF	OFF
ON	ON
OP	OVERPASS
OT	OUTER

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4.3.1.3.26 Table: STREET_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	varchar2(15)	Street type in full text (eg. AVENUE, PARADE, STREET) This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name	N	Y	-	-	name_aut
description	varchar2(15)	Type recorded in full or as an abbreviated code (e.g. "STREET" or "ST"). (AS4590.8.8).	N	N	-	-	dscpn_aut

STREET_TYPE_AUT Codes

Description / Name	Street Type Code
ACCESS	ACCS
ACRE	ACRE
ALLEY	ALLY
ALLEYWAY	ALWY
AMBLE	AMBL
APPROACH	APP
ARCADE	ARC
ARTERIAL	ARTL
ARTERY	ARTY
AVENUE	AV
AIRWALK	AWLK
BANAN	BA
BANK	BANK
BAY	BAY
BEACH	BCH
BEND	BEND
BOARDWALK	BWLK
BOULEVARD	BVD
BOULEVARDE	BVDE
BOWL	BOWL
BRACE	BR
BRAE	BRAE
BRANCH	BRAN

Description / Name	Street Type Code
FAIRWAY	FAWY
FIREBREAK	FBRK
FIRELINE	FLNE
FIRETRACK	FTRK
FIRETRAIL	FITR
FLAT	FLAT
FLATS	FLTS
FOLLOW	FOLW
FOOTWAY	FTWY
FORD	FORD
FORESHORE	FSHR
FORK	FORK
FORMATION	FORM
FREEWAY	FWY
FRONT	FRNT
FRONTAGE	FRTG
GAP	GAP
GARDEN	GDN
GARDENS	GDNS
GATE	GTE
GATEWAY	GWY
GLADE	GLDE
GLEN	GLEN

Description / Name	Street Type Code
PURSUIT	PRST
QUAD	QUAD
QUADRANT	QDRT
QUAY	QY
QUAYS	QYS
RAMBLE	RMBL
RAMP	RAMP
RANGE	RNGE
REACH	RCH
REEF	REEF
RESERVE	RES
REST	REST
RETREAT	RTT
RETURN	RTN
RIDE	RIDE
RIDGE	RDGE
RIGHT OF WAY	ROFW
RING	RING
RISE	RISE
RISING	RSNG
RIVER	RVR
ROAD	RD
ROADS	RDS

Description / Name	Street Type Code
BREAK	BRK
BRETT	BRET
BRIDGE	BDGE
BROADWALK	BRDWLK
BROADWAY	BDWY
BROW	BROW
BUSWAY	BSWY
BYPASS	BYPA
BYWAY	BYWY
CAUSEWAY	CSWY
CENTRE	CTR
CENTREWAY	CNWY
CHASE	CH
CIRCLE	CIR
CIRCLET	CLT
CIRCUIT	CCT
CIRCUS	CRCS
CLOSE	CL
CLUSTER	CLR
COLONNADE	CLDE
COMMON	CMMN
COMMONS	CMMNS
CONCORD	CNCD
CONCOURSE	CON
CONNECTION	CNTN
COPSE	CPS
CORNER	CNR
CORSO	CSO
COURSE	CRSE
COURT	CT
COURTYARD	CTYD
COVE	COVE
CRESCENT	CR
CREST	CRST

Description / Name	Street Type Code
GRANGE	GRA
GREEN	GRN
GROVE	GR
GULLY	GLY
HARBOUR	HRBR
HAVEN	HVN
HEATH	HTH
HEIGHTS	HTS
HIGHROAD	HIRD
HIGHWAY	HWY
HIKE	HIKE
HILL	HILL
HILLS	HILLS
HOLLOW	HLLW
HUB	HUB
INLET	INLT
INTERCHANGE	INTG
ISLAND	ID
JUNCTION	JNC
KEY	KEY
KEYS	KEYS
KNOLL	KNOL
LADDER	LADR
LANDING	LDG
LANE	LANE
LANEWAY	LNWY
LEAD	LEAD
LEADER	LEDR
LINE	LINE
LINK	LINK
LOOKOUT	LKT
LOOP	LOOP
LYNNE	LYNN
MALL	MALL

Description / Name	Street Type Code
ROADWAY	RDWY
ROTARY	RTY
ROUND	RND
ROUTE	RTE
ROW	ROW
ROWE	ROWE
RUE	RUE
RUN	RUN
SERVICWAY	SVWY
SHUNT	SHUN
SKYLINE	SKLN
SLOPE	SLPE
SOUTH	STH
SPUR	SPUR
SQUARE	SQ
STEPS	STPS
STRAIGHT	STRT
STRAIT	STAI
STRAND	STRA
STREET	ST
STRIP	STRP
SUBWAY	SBWY
TARN	TARN
TERRACE	TCE
THOROUGHFARE	THFR
THROUGHWAY	THRU
TOLLWAY	TLWY
TOP	TOP
TOR	TOR
TRACK	TRK
TRAIL	TRL
TRAMWAY	TMWY
TRAVERSE	TVSE
TRUNKWAY	TKWY

Description / Name	Street Type Code
CRIEF	CRF
CROOK	CRK
CROSS	CRSS
CROSSING	CRSG
CRUISEWAY	CUWY
CUL-DE-SAC	CSAC
CUT	CUT
CUTTING	CUTT
DALE	DALE
DASH	DASH
DELL	DELL
DENE	DENE
DEVIATION	DE
DIP	DIP
DISTRIBUTOR	DSTR
DIVIDE	DIV
DOCK	DOCK
DOMAIN	DOM
DOWN	DOWN
DOWNNS	DWNS
DRIVE	DR
DRIVEWAY	DVWY
EASEMENT	ESMT
EDGE	EDGE
ELBOW	ELB
END	END
ENTRANCE	ENT
ESPLANADE	ESP
ESTATE	EST
EXPRESSWAY	EXP
EXTENSION	EXTN

Description / Name	Street Type Code
MANOR	MANR
MEAD	MEAD
MEANDER	MNDR
MEW	MEW
MEWS	MEWS
MILE	MILE
MOTORWAY	MTWY
NOOK	NOOK
NORTH	NTH
NULL	NULL
OUTLET	OTLT
OUTLOOK	OTLK
OVAL	OVAL
PALMS	PLMS
PARADE	PDE
PARADISE	PRDS
PARK	PARK
PARKWAY	PWY
PASS	PASS
PASSAGE	PSGE
PATH	PATH
PATHWAY	PWAY
PENINSULA	PSLA
PIAZZA	PIAZ
PLACE	PL
PLAZA	PLZA
POCKET	PKT
POINT	PNT
PORT	PORT
PRECINCT	PREC
PROMENADE	PROM

Description / Name	Street Type Code
TUNNEL	TUNL
TURN	TURN
TWIST	TWIST
UNDERPASS	UPAS
VALE	VALE
VALLEY	VLLY
VERGE	VERGE
VIADUCT	VIAD
VIEW	VIEW
VIEWS	VWS
VILLA	VLLA
VILLAGE	VLGE
VILLAS	VLLS
VISTA	VSTA
VUE	VUE
WADE	WADE
WALK	WALK
WALKWAY	WKWY
WATERS	WTRS
WATERWAY	WTWY
WAY	WAY
WHARF	WHRF
WOOD	WD
WOODS	WDS
WYND	WYND
YARD	YARD

4.3.1.3.27 Table: SURFACE_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code eg. 1. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. eg Sealed	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

SURFACE_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
1	Sealed	Surface comprises brick, concrete or tar.
2	Unsealed	Surface comprises material other than brick, concrete or tar, and is under a known maintenance regime.
3	Unknown	Default value. Use for roads under construction.
4	Unimproved	Surface comprises material other than brick, concrete or tar, and is not under a known maintenance regime.
5	Boardwalk	A surface made from planks or sleepers, usually wood or a similar material. Water can usually drain between each plank or sleeper.

4.3.1.3.28 Table: CROSSING_POINT

Name	Data Type	Description	P	M	F K TABLE	F K Col	10 Ch Alias
crossing_point_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents	Y	Y	-	-	crssng_pnt
date_created	date	Date this record was created	N	Y	-	-	dt_create
date_retired	date	Date this record was retired	N	N	-	-	dt_retire
capture_date	date	Capture Date	N	N	-	-	dt_capture
crossing_type_code	number(5)	e.g. Bridge, Ford, Tunnel	N	Y	CROSSING_TYPE_AUT	code	crsstyp_cd
crossing_name	varchar2(300)	e.g. Bridge name	N	N	-	-	name
capture_source_code	number(5)	capture source code	N	N	CAPTURE_SOURCE_AUT	code	source_cd
capture_method_code	number(5)	capture_method_code	N	N	CAPTURE_METHOD_AUT	code	method_cd
crossing_structure_code	number(5)	e.g. The structure of the bridge or tunnel	N	N	CROSSING_STRUCTURE_AUT	code	struct_cd
weight_limit_tonnes	number(4)	The weight limit of vehicles allowed on the bridge	N	N	-	-	wght_lmt_t
height_limit_metres	number(3,1)	The height limit of vehicles allowed on the bridge	N	N	-	-	hght_lmt_m
jurisdiction_id	varchar2(50)	Jurisdiction id	N	N	-	-	jrdsctn_id
geometry	point	Line geometry	N	Y	-	-	geometry

4.3.1.3.29 Table: CROSSING_STRUCTURE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code eg. 1. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. eg Sealed	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

CROSSING_STRUCTURE_AUT Codes

CODE	NAME
0	Undetermined
1	Beam
2	Cantilever
3	Arch
4	Suspension
5	Cable-stayed
6	Truss
7	Drawbridge

4.3.1.3.30 Table: CROSSING_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code eg. 1. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. eg Sealed	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

CROSSING_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
1	Bridge	Structure erected over a depression or obstacle to carry traffic. Must be connected to the transport network.
2	Tunnel	An underground or underwater passage for a road connected to the transport network.
3	Ford	A shallow or flat portion of the bed of a watercourse or lake where crossing may be effected. Must be connected to the transport network.
4	Other	
5	Floodway	A section of road specifically designed to allow periodic or permanent inundation by water
6	Culvert	A masonry conduit which serves as a channel crossing for water or a transport network beneath a road or railway.

4.3.1.3.31 Table: TRAFFIC_CONTROL_DEVICE_POINT

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
tcd_point_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	tcd_pt_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
capture_date	date	Capture date	N	N	-	-	dt_capture
traffic_ctl_type_code	number(5)	traffic ctl type code	N	Y	TRAFFIC_CTL_TYPE_AUT	code	tcdtyp_cd
capture_source_code	number(5)	capture source code	N	N	CAPTURE_SOURCE_AUT	code	source_cd
capture_method_code	number(5)	capture method code	N	N	CAPTURE_METHOD_AUT	code	method_cd
jurisdiction_id	varchar2(50)	Jurisdiction id	N	N	-	-	jrstdctn_id
geometry	point	Line geometry	N	Y	-	-	geometry

4.3.1.3.32 Table: TRAFFIC_CTL_TYPE_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code eg. 1. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. eg Sealed	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

TRAFFIC_CTL_TYPE_AUT Codes

CODE	NAME	DESCRIPTION
0	Other traffic control device	Any other traffic control device not covered by the above classifications.
1	Level Crossing	Intersection of a road and railway (compare BRIDGE). Possible link to RTA.
2	Traffic Light	Light mounted on or beside a road to control traffic flow. Captured as a single point at an intersection of two road segments. Link to RTA.
3	Permanent Barrier	A structure which cannot be temporarily modified by the general public to allow traffic to pass.
4	Roundabout	Road segment part of an intersection designed to allow smooth integration but also slow traffic. It must be circular or elliptical in design, have one-way flow, and in most cases not be uniquely named or have addresses on it. All roundabouts will be captured as points.
5	Toll	A structure used to facilitate the collection of money from traffic using the road.
6	Gate	A structure that may be swung, drawn or lowered to block an entrance or passageway. Can include bollards.
7	Stock Grid	Structure to prevent entrance or passageway of animals - does not generally stop vehicular traffic.
8	Fixed Speed Camera	A fixed speed camera used to monitor the speed of traffic on a road. Link to RTA.
9	Pedestrian Crossing	Markings or signals to help pedestrians cross a road, requiring traffic to slow.

4.3.1.3.33 Table: ST_LN_XING_LNK

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
st_ln_tcd_lnk	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents	Y	Y	-	-	st_ln_tcd_
date_created	date	Date this record was created	N	Y	-	-	dt_create
date_retired	date	Date this record was retired	N	N	-	-	dt_retire
street_line_pid	varchar2(15)	street_line_pid	N	Y	STREET_LINE	street_line_pid	st_lne_pid
tcd_point_pid	varchar2(15)	tcd_point_pid	N	Y	TRAFFIC_ CONTROL_DEVICE _POINT	tcd_point_pid	tcd_pnt_pd

4.3.1.3.34 Table: ST_LN_LNK

Column	Datatype	Description	P	M	F K TABLE	F K Col	10 Ch Alias
st_ln_xing_lnk	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents	Y	Y	-	-	st_ln_xng_
date_created	date	Date this record was created.	N	Y	-	-	dt_create
date_retired	date	Date this record was retired.	N	N	-	-	dt_retire
street_line_pid	varchar2(15)	street_line_pid	N	Y	STREET_LINE	street_line_pid	st_lne_pid
crossing_point_pid	varchar2(15)	crossing point pid	N	Y	CROSSING_POINT	crossing_point_pid	crssng_pnt

4.3.1.3.35 Table: TEMP_STREET_LINE_TRACK

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
street_line_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	st_lne_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
Capture_date	date	Date this record was captured	N	N	-	-	dt_capture
street_name	varchar2(100)	Street name. e.g. "POPLAR"	N	Y	-	-	name
street_type_code	varchar2(15)	street type. e.g. "PLACE"	N	N	STREET_TYPE_AUT	code	sttyp_code
street_subtype_code	number(5)	street subtype code	N	Y	STREET_SUBTYPE_AUT	code	subtype_cd
street_suffix_code	varchar2(15)	street suffix. eg. "WEST"	N	N	STREET_SUFFIX_AUT	code	stsfx_code
street_direction_code	number(5)	street direction code	N	N	STREET_DIRECTION_AUT	code	dirn_cd
authority_code	number(5)	authority code	N	N	AUTHORITY_AUT	code	authrty_cd
capture_source_code	number(5)	capture source code	N	N	CAPTURE_SOURCE_AUT	code	source_cd
capture_method_code	number(5)	capture method code	N	N	CAPTURE_METHOD_AUT	code	method_cd
number_of_lanes_code	number(5)	number of lanes code	N	N	NUMBER_OF_LANES_AUT	code	lanes_cd

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
operational_status_code	number(2)	Operational, Under Construction, Disused	N	N	OPERATIONAL_STATUS_AUT	code	status_cd
seasonality_code	number(1)	seasonality code	N	N	SEASONALITY_AUT	code	seasonl_cd
transport_hierarchy_code	number(5)	Transport Hierarchy Code	N	Y	TRANSPORT_HIERARCHY_AUT	code	thier_code
surface_type_code	number(2)	surface type code	N	Y	SURFACE_TYPE_AUT	code	sftyp_code
ground_relationship_code	number(2)	ground relationship code	N	Y	GROUND_RELATIONSHIP_AUT	code	grrel_code
trafficability_code	number(5)	trafficability code	N	N	TRAFFICABILITY_AUT	code	trffcbl_cd
user_access_code	number(5)	user access code	N	N	USER_ACCESS_AUT	code	access_cd
height_limit_meters	number(3,1)	The height limit of vehicles allowed on the bridge	N	N	-	-	hght_lmt_m
speed_limit_kmph	number(3)	speed limit kmph	N	N	-	-	spd_lmt_km
positional_accuracy	number(8)	positional accuracy	N	N	-	-	pos_acc
jurisdiction_id	varchar2(16)	The id the jurisdiction used for this street	N	N	-	-	jrstdctn_id
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.4 Hydrology

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Hydrology Polygons – Water Bodies, Oceans, Major Rivers.

4.3.1.4.1 Table: HYDRO_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(4)	Code e.g. 114. This is the persistent identifier	Y	Y	-	-	code_aut
name	varchar2(50)	Name. e.g. Island	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

HYDRO_CLASS_AUT Codes

CODE	NAME
100	Major Water
102	Minor water
103	Other Drainage
104	Lake
105	Reservoir
106	Major Dam
107	Canal
108	Pipeline
109	Swamp
110	Pond
111	Subject to Inundation
112	Intermittent/Dry Lake
114	Islands
116	Water body connectors
118	Bay closure
200	Sea and Ocean Polygons
201	Passage

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4.3.1.4.2 Table: HYDRO_FEATURE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
hydro_feature_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	hydfea_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
jurisdiction_id	varchar2(15)		N	N	-	-	jrstdctn_id
hydro_feature_name	varchar2(60)	Feature name - null in SA and WA	N	N	-	-	name
hydro_class_code	number(4)	Feature code	N	Y	HYDRO_CLASS_AUT	code	hy_cs_code
perenniality_code	number(2)	Perenniality	N	Y	PERENNIALITY_AUT	code	peren_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Polygon geometry	N	Y	-	-	geometry

4.3.1.4.3 Table: PERENNIALITY_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(2)	Code e.g. 1. This is the persistent identifier	Y	Y	-	-	code_aut
name	varchar2(50)	Name. e.g. Perennial	N	Y	-	-	name_aut
description	varchar2(500)	Description of what this code means	N	N	-	-	dscpn_aut

PERENNIALITY_AUT Codes

Code	NAME
0	UNKNOWN
1	PERENNIAL
2	NON-PERENNIAL

Hydrology Lines – Minor Water bodies (102,103, connectors ›116)

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4.3.1.4.4 Table: HYDRO_102

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
hydro_102_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	hyd102_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
jurisdiction_id	varchar2(15)		N	N	-	-	jrstdctn_id
hydro_102_name	varchar2(60)	Feature name	N	Y	-	-	name
hydro_class_code	number(4)	Feature code	N	Y	HYDRO_CLASS_AUT	code	hy_cs_code
perenniality_code	number(2)	Perenniality	N	Y	PERENNIALITY_AUT	code	peren_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.4.5 Table: HYDRO_103

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
hydro_103_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	hyd103_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
jurisdiction_id	varchar2(15)		N	N	-	-	jrstdctn_id
hydro_103_name	varchar2(60)	Feature name	N	Y	-	-	name
hydro_class_code	number(4)	Feature code	N	Y	HYDRO_CLASS_AUT	code	hy_cs_code
perenniality_code	number(2)	Perenniality	N	Y	PERENNIALITY_AUT	code	peren_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

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4.3.1.4.6 Table: HYDRO_116

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
hydro_116_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	hyd116_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
jurisdiction_id	varchar2(15)		N	N	-	-	jrstdctn_id
hydro_116_name	varchar2(60)	Feature name - SA & WA have this field null	N	N	-	-	name
hydro_class_code	number(4)	Feature code - always 116	N	Y	HYDRO_CLASS_AUT	code	hy_cs_code
perenniality_code	number(2)	Perenniality	N	Y	PERENNIALITY_AUT	code	peren_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

4.3.1.4.7 Table: HYDRO_116IO

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
hydro_116io_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	h116io_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
jurisdiction_id	varchar2(15)		N	N	-	-	jrstdctn_id
hydro_116io_name	varchar2(60)	Feature name	N	N	-	-	name
hydro_class_code	number(4)	Feature code - always 116	N	Y	HYDRO_CLASS_AUT	code	hy_cs_code
perenniality_code	number(2)	Perenniality	N	Y	PERENNIALITY_AUT	code	peren_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Line geometry	N	Y	-	-	geometry

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Islands

4.3.1.4.8 Table: HYDRO_ISLAND

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
hydro_island_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	hydysl_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
jurisdiction_id	varchar2(15)		N	N	-	-	jrsdctn_id
hydro_island_name	varchar2(60)	Feature name	N	Y	-	-	name
hydro_class_code	number(4)	Feature code	N	Y	HYDRO_CLASS_AUT	code	hy_cs_code
perenniality_code	number(2)	Perenniality	N	Y	PERENNIALITY_AUT	code	peren_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	STATE	state_pid	state_pid
geometry	MDSYS.SDO_GEOMETRY	Polygon geometry	N	Y	-	-	geometry

4.3.1.5 Green Spaces

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4.3.1.5.1 Table: GREENSPACE

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
greenspace_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	gs_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
greenspace_name	varchar2(200)	The name of the greenspace	N	Y	-	-	name
greenspace_class_code	number(4)	greenspace class. eg. Urban Park, National Park, Golf Course	N	Y	GREENSPACE_CLASS_AUT	code	gs_cs_code
state_pid	varchar2(15)	State Persistent Identifier	N	Y	-	-	state_pid

4.3.1.5.2 Table: GREENSPACE_POLYGON

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
greenspace_polygon_pid	varchar2(15)	The Persistent Identifier is unique to the real world feature this record represents.	Y	Y	-	-	gs_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
greenspace_pid	varchar2(15)	greenspace pid	N	Y	GREENSPACE	green space_pid	gs_pid
geometry	MDSYS.SDO_GEOMETRY	Polygon geometry	N	Y	-	-	geometry

4.3.1.5.3 Table: GREENSPACE_CLASS_AUT

Name	Data Type	Description	Prim Key	Man	F K TABLE	F K Col	10 Char Alias
code	number(4)	Code. This is the persistent identifier.	Y	Y	-	-	code_aut
name	varchar2(50)	Name. e.g. URBAN PARK	N	Y	-	-	name_aut
description	varchar2(254)	Description of what this code means	N	N	-	-	dscpn_aut

GREENSPACE_CLASS_AUT Codes

Code	DESCRIPTION	NAME
803	Urban Parks and non residential land	URBAN PARK
880	Recreation Park	RECREATION PARK
882	Reserve	RESERVE
1000	National Park	NATIONAL PARK
1003	State Forest	STATE FOREST
1006	Conservation Park	CONSERVATION PARK

Urban Parks

These are distinguished by the Greenspace Class Code (803) in the GREENSPACE_CLASS_AUT table above.

National Parks and Other Reserves

These are distinguished by the Greenspace Class Codes in the GREENSPACE_CLASS_AUT table above. (Includes Golf Courses)

4.4 Feature-based content scope

All geometry and metadata for polygons and points within the Transport and Topography™ Data Set.

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 Transport and Topography™ Data Set.

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 Transport and Topography™ reflects that of the jurisdictional source data. The accuracy is +/- 2 metres in urban areas and +/- 10 metres in rural and remote areas. No "shift" of data as a means of "cartographic enhancement" to facilitate presentation has been employed for any real world feature.

The Greenspace and Hydrology Themes are classified as "BB" accuracy. That is, 90% of well-defined features are within 1mm (at plot scale) of their true position, eg 1:500 equates to +/- 0.5metre and 1:25,000 equates to +/- 25 metres. Anecdotal evidence

suggests that the spatial accuracy of the major part of the dataset (at all scales) is frequently better than BB.

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 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

The data been thoroughly tested and is free of the following topological errors:

- Pseudo Nodes;
- Overlaps;
- Bowties and other self intersections;
- Duplicate features;
- Incomplete polygons;
- Gaps (voids and slivers) between polygons; and
- Object continuity at sheet edges and borders.

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, Theme, and Layer Coverage:

National for the Transport Networks, the Hydrology and Green Spaces.

6.4.2 Attribute Completeness:

All attributes for each object are populated.

Greenspace and Hydrology data is 75% accurate at time of production. This percentage is lower than expected as the data in some areas is undergoing significant change on a day-to-day basis.

Temporal accuracy is applicable to most of the current release.

6.5 Quality scope

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

7 Data Capture

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All spatial data is supplied by the Jurisdictions (Commonwealth, States and Territories Governments) through various agencies.

For each theme, the data is supplied by the appropriate agency as described below.

7.1 Transport Theme

The digital transport polygons, lines, and points as well as their legal identifiers have been derived from the relevant bodies from each Australian State and Territory jurisdiction.

7.2 Hydrology Theme

The digital hydrology polygons and their identifiers have been derived from a combination of cadastral data and valuations data from the relevant bodies from each Australian State and Territory jurisdiction.

7.3 Greenspace Theme

The digital Greenspace polygons as well as their legal identifiers have been derived from the relevant bodies from each Australian State and Territory jurisdiction.

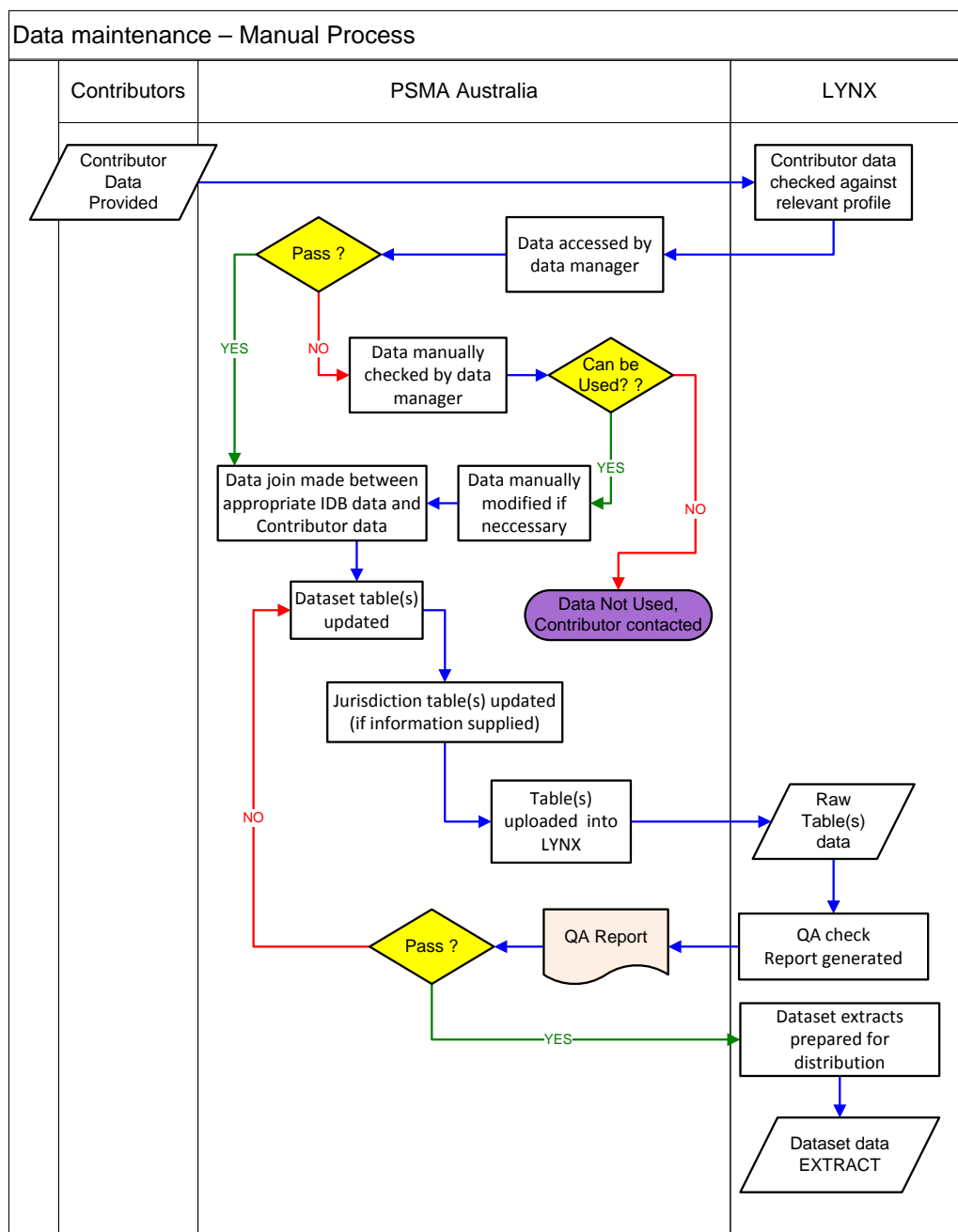
7.4 Data capture scope

Data for changed objects within the current release time period.

8 Data Maintenance

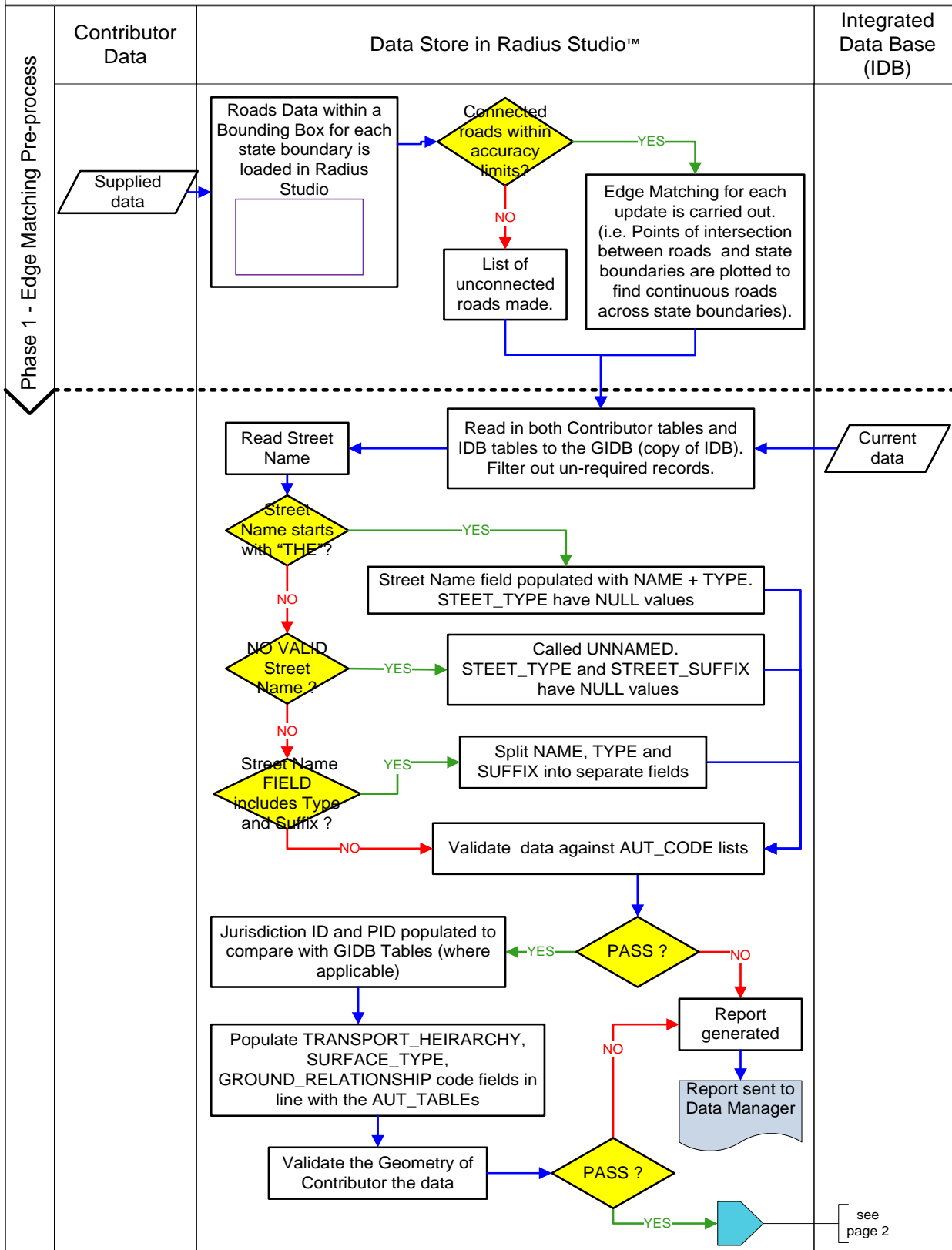
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Maintenance of Airports, Railways, Railway Stations Hydrology and Greenspace is carried out using GIS Desktop applications by PSMA Australia data Managers.



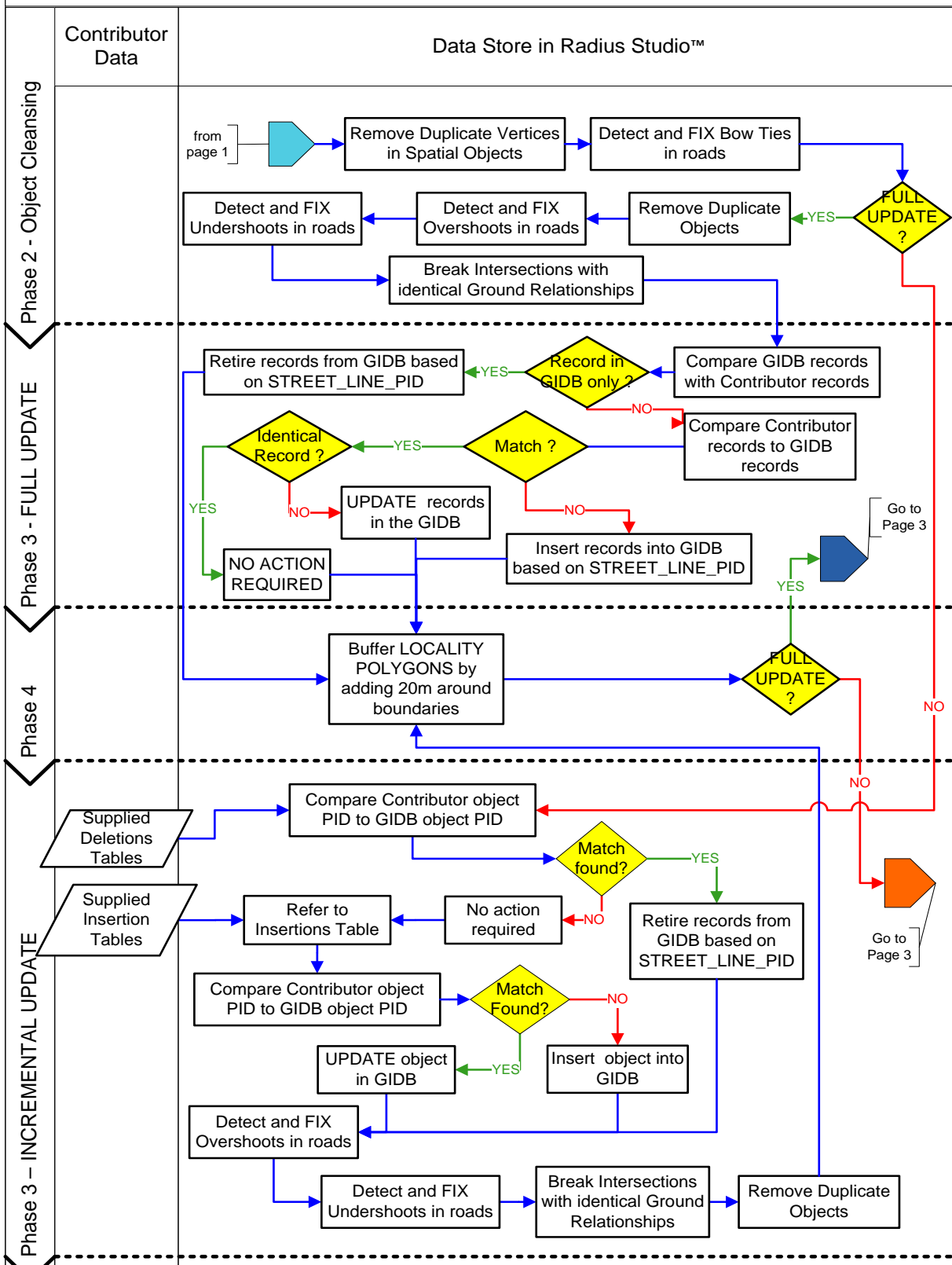
Maintenance of the Roads data is carried out at PSMA Australia using Radius Studio™ Suite. The process map below summarises the maintenance steps followed.

PSMA Australia ROADS Data maintenance Process

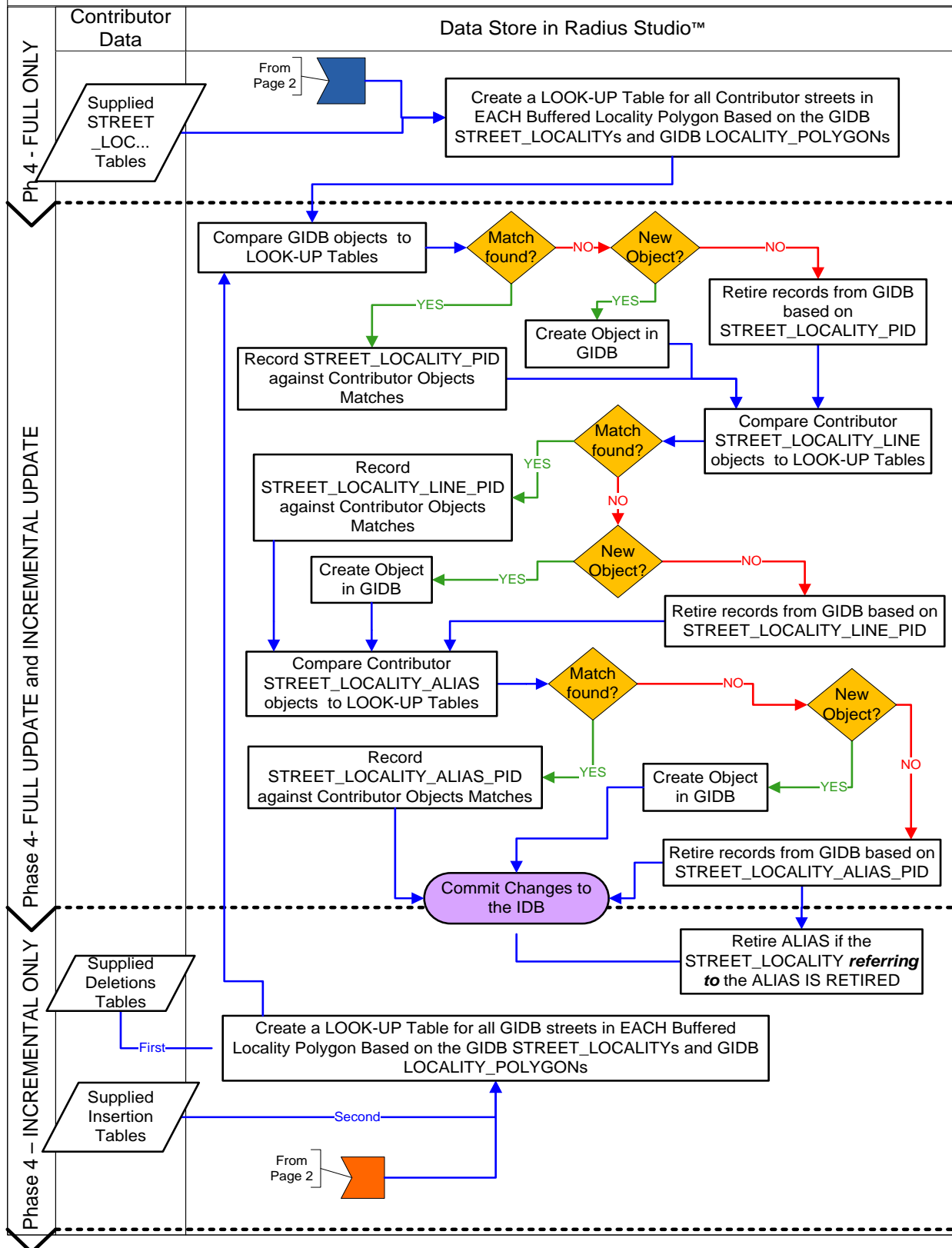


see page 2

PSMA Australia ROADS Data Maintenance Process



PSMA Australia ROADS Data Maintenance Process



8.1 Update Frequency

The Transport and Topography™ Data Set is updated as deemed necessary by the Jurisdictions. Updates are inserted in the Transport and Topography™ Data Set product as they are supplied by data contributors. PSMA Australia release updates to all Data Sets each quarter in the months of February, May, August and November.

8.2 Maintenance scope

PSMA data maintenance occurs for existing objects with changed geometry and/or metadata, 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 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: psmadistribution@psma.com.au

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

9.1 Delivery medium information

LYNX 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 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 to a specified location 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 platform.

LYNX can be accessed from the [PSMA Australia Website](http://www.psm.com.au). (www.psm.com.au)

9.2 Units of delivery

All data, themes and/or layers within this Dataset are provided under license. 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 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.

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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

Online via LYNX or on DVD (generated in LYNX)

9.4 Delivery format information

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

ANSLIC 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 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	
Land Tenure	Land Tenure	
FOI	Features of Interest	
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;
1. where many cadastral parcels make up one property; and
2. where one cadastral parcel contains many properties.

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.

Features Of Interest (FOI)

The Features Of Interest dataset is a BETA release and contains authoritative government point, line and polygon data (as well as contributions from other organisations).

Features Of Interest data includes urban centre's, 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 with many places not described by an official address (e.g. Melbourne Cricket Ground, Town Hall or Local Church).

Features Of Interest is an independent dataset, that can be integrated for enhanced functionality with associated datasets including G-NAF.

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).

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 1 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.

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