

precisely

G-NAF Premium Australia

Product Guide

Version 2020.05.0



Table of Contents

1 - Introduction

Overview.....4
G-NAF Distribution.....4

2 - Table Definition

Layer Description.....7

3 - Notices and Product Support

Notices.....22
Product Feedback and Support.....23

1 - Introduction

In this section

Overview.....4
G-NAF Distribution.....4



Overview

Precisely has been delivering spatial data solutions in Australia for over 10 years. In that time significant expertise has been acquired in the use and maintenance of addressing data to formulate 'fit-for-purpose' data products. The result is a customised data build of the Geocoded National Address File (G-NAF).

Below is a summary of the ways in which Precisely is delivering the value within G-NAF to the market.

G-NAF Distribution

Precisely was identified and appointed as the first G-NAF distributor in Australia. G-NAF distribution involves the scope, configuration, and delivery of G-NAF to meet the specific needs of an organization.

There is a broad array of information within the G-NAF, so it is important that an organization understands how to best use it – to maximize the value from their investment. The professional services team at Precisely can ensure maximum value is attained through the use of G-NAF. However, it is envisaged that many clients will have similar, basic requirements from G-NAF. That is the reason why the *G-NAF Premium Build* was created.

The *G-NAF Premium Build* is a useful way of licensing G-NAF, as it isn't always necessary to use professional services for integration and maintenance.

License Models

G-NAF is available under a choice of license models:

- Desktop
- Server Deployment
- Corporate Access, and
- Purpose-built validation indexes

Care must be taken to ensure the most appropriate license model is used to meet the business needs.

Premium G-NAF Build

The Premium Build of G-NAF is a general purpose, value-added data build that is designed to meet the needs of most users. By default, G-NAF is supplied as an array of proprietary files designed for loading into RDBMS. With more than 6GB of content available, this process can be quite daunting for those who merely require a simple address search layer in their spatial solution.

The Premium Build is designed to make the use of G-NAF easy and available in a *'plug n play'* form. It is made up of points with geographic coordinates and basic address information. It makes it possible to verify a physical address in Australia and locate its position.

G-NAF Premium Build exhibits value-added enhancements to allow user to uniquely and precisely identify addresses throughout Australia and its territories. These enhancements are derived from Precisely Suburbs and Localities, Postcodes and Australian Bureau of Statistics Statistical District boundaries (SA1).

G-NAF Premium Build includes both property parcel centroid and frontage coordinates in separate tables for all reliability 1, 2 and 3 address records (parcel level precision). Reliability code 4, 5 and 6 address records are maintained at the original coordinates as supplied by PSMA.

For points with a reliability of 1, 2 or 3, PSMA provides original coordinates at either the parcel centroid or frontage, or both. In G-NAF Premium Build the centroid coordinates are represented by GNAF_<State>.TAB. GNAF_<State>_F.TAB tables have address records generally at the property parcel frontage, and reliability 4,5 and 6 addresses are shown in the tables GNAF_<State>_456.TAB. The type of address coordinates displayed (eg frontage, centroid) for each record is shown in the field GEOCODE_TYPE.

Custom G-NAF Builds

If the client needs are not met by the Premium Build then a custom build can be delivered to meet specific requirements. You can engage Precisely or one of our authorised partners for further assistance.

2 - Table Definition

In this section

Layer Description.....7



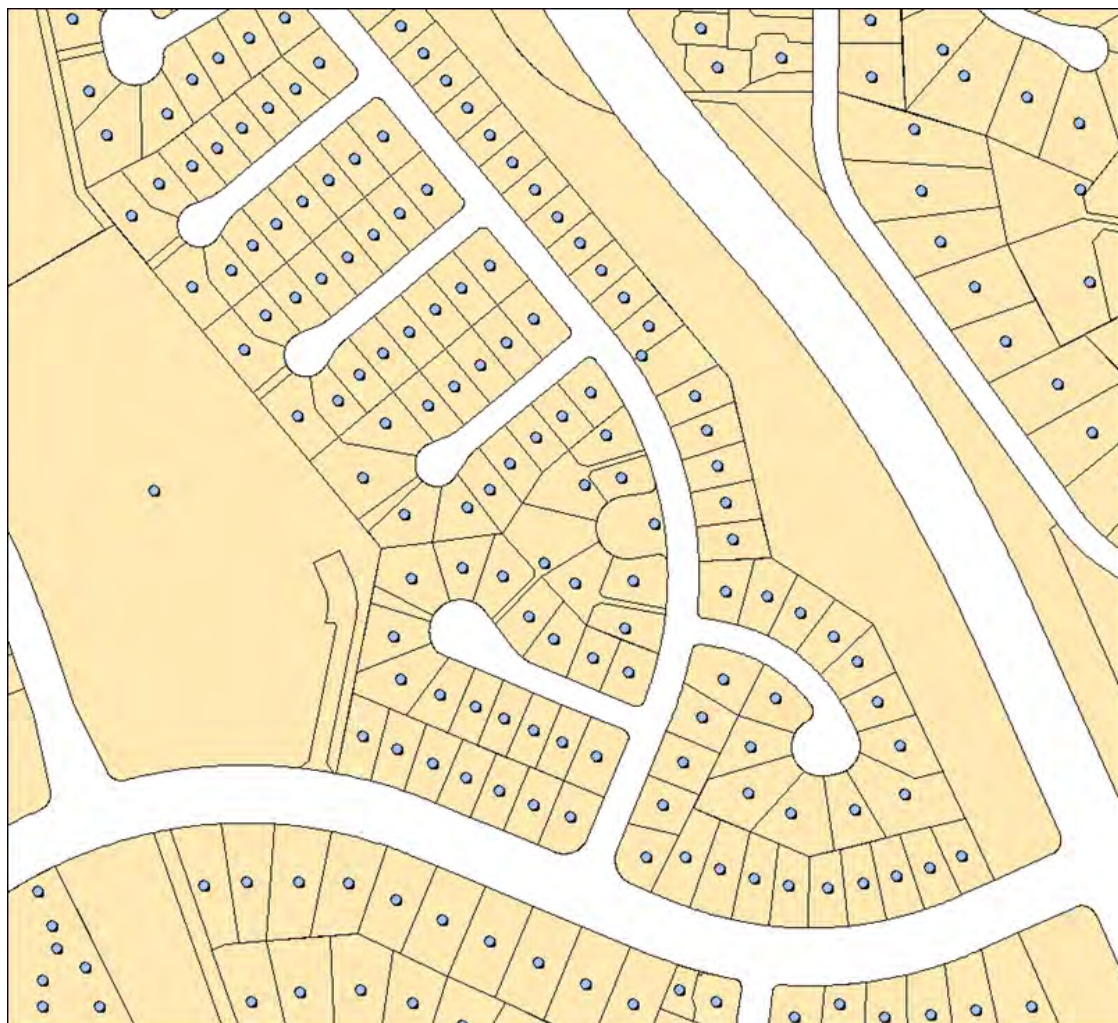
Layer Description

GNAF_<State>.TAB

This file contains reliability values 1-3 (parcel level precision). These tables contain all address records from G-NAF with high precision spatial coordinates, and are classified with a reliability code of 1, 2, or 3.

This table is appropriate for use when it is essential that high precision location is important.

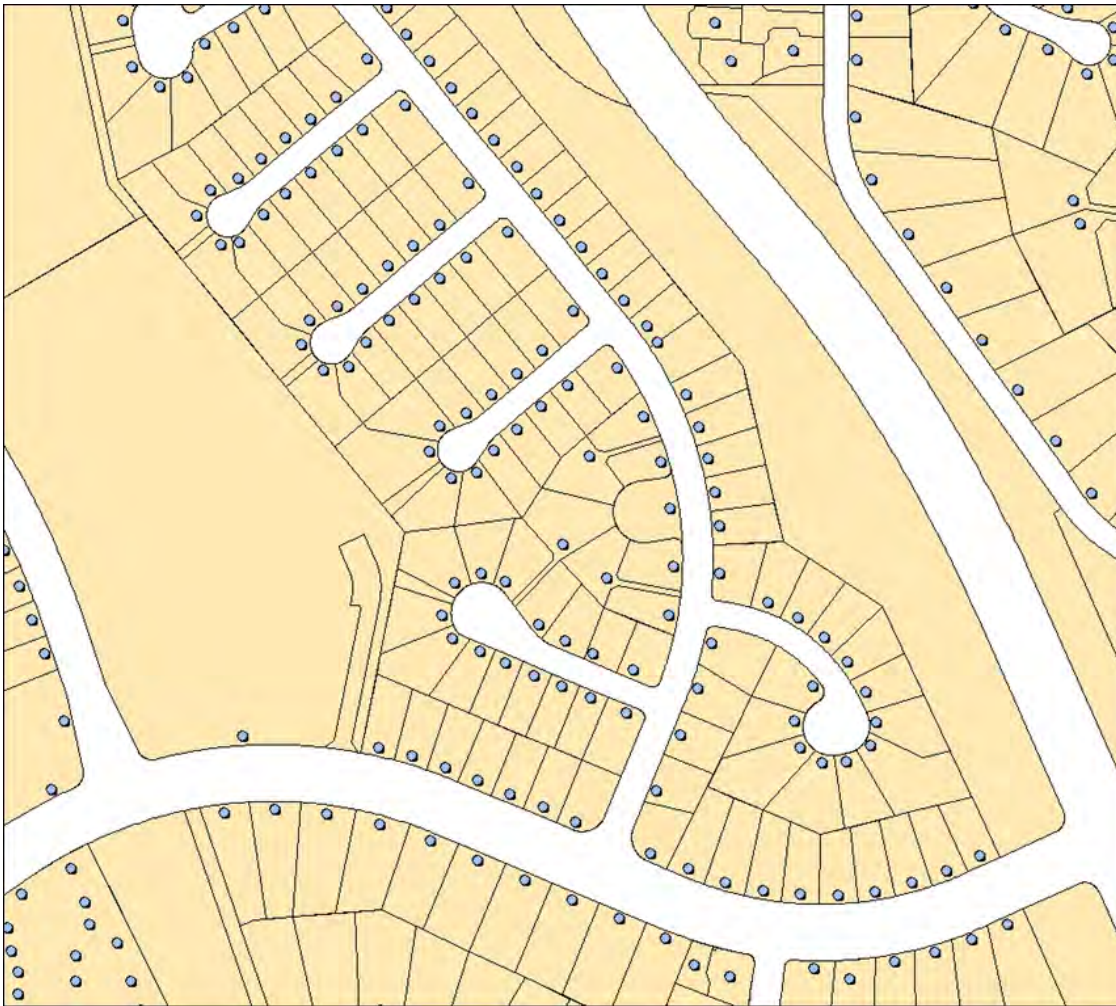
This table contains all address records at the parcel centroid.



GNAF_<State>_F.TAB

This file contains, reliability values 1-3 (parcel level precision). These tables contain all address records from G-NAF with high precision spatial coordinates, and are classified with a reliability code of 1, 2, or 3.

This table is appropriate for use when it is essential that high precision location is important. This table contains all address records at the parcel frontage.



GNAF_<State>_R.TAB

This file contains, reliability codes 4-6 (non-parcel level precision).

This table contains the remainder of address information in G-NAF that does not meet high precision geocoding criteria. In this table good address references can continue to be used but the locations of the points are less accurate.

Reliability codes 4, 5, and 6 suggest that the location for each address point is at the centre of a road centerline, the middle of gazetted locality, or at the centre of a known topographic feature in the area respectively.

Table Structure

Field Name	Description	Type	Indexed
GNAF_PID	G-NAF Primary Identifier (unique)	Char (14)	NO
SEARCH_ADDRESS	Full street address, including number range where applicable (eg 75-79 Jersey Street N)	Char (50)	YES
ADDRESS_TYPE	Type of address (eg house, lot, urban, rural)	Char (8)	NO
FLAT_NUMBER_PREFIX	Flat/unit number prefix	Char (2)	NO
FLAT_NUMBER	Flat/unit number	Decimal (5, 0)	NO
FLAT_NUMBER_SUFFIX	Flat/unit number suffix	Char (2)	NO
FLAT_TYPE	Specification of the type of separately identifiable portion within a building/complex	Char (4)	NO
LEVEL_TYPE	Level type	Char (2)	NO

Field Name	Description	Type	Indexed
LEVEL_NUMBER_PREFIX	Level number prefix	Char (2)	NO
LEVEL_NUMBER	Level number	Decimal (3, 0)	NO
LEVEL_NUMBER_SUFFIX	Level number suffix	Char (2)	NO
BUILDING_NAME	Combines both building and property name fields	Char (80)	NO
NUMBER_FIRST_PREFIX	Prefix for the first (or only) street number in address range	Char (3)	NO
NUMBER_FIRST	Identifies first (or only) street number in address range	Decimal (6, 0)	NO
NUMBER_FIRST_SUFFIX	Suffix for the first (or only) street number in address range	Char (2)	NO
NUMBER_LAST_PREFIX	Prefix for the last street number in address range	Char (3)	NO
NUMBER_LAST	Identifies last street number in address range	Decimal (6, 0)	NO
NUMBER_LAST_SUFFIX	Suffix for the last number in address range	Char (2)	NO
LOT_NUMBER_PREFIX	Lot number prefix	Char (2)	NO
LOT_NUMBER	Lot number	Char (5)	NO
LOT_NUMBER_SUFFIX	Lot number suffix	Char (2)	NO
STREET_NAME	Street name (eg Jersey)	Char (45)	NO
STREET_TYPE	Street type (eg Street)	Char (12)	NO
STREET_SUFFIX	Abbreviated street suffix (eg N = North)	Char (2)	NO

Field Name	Description	Type	Indexed
LOCALITY_NAME	Locality name (eg Hornsby)	Char (40)	YES
SL_UFI	The Suburbs and Localities Unique Feature Identifier. This identifier corresponds to a unique suburb / locality polygon from the Precisely Suburbs and Localities Australia product	Decimal (9, 0)	NO
POSTCODE	4-digit postcode. Postcodes are optional as prescribed by AS/NZS 4819-2011 and AS 4590-2006	Char(4)	YES
STATE_ABBREVIATION	State abbreviation: <ul style="list-style-type: none"> • <i>ACT – Australian Capital Territory</i> • <i>NSW – New South Wales</i> • <i>NT – Northern Territory</i> • <i>OT – Other Territories (including Jervis Bay, Cocos and Keeling Islands)</i> • <i>QLD – Queensland</i> • <i>SA – South Australia</i> • <i>TAS – Tasmania</i> • <i>VIC – Victoria</i> • <i>WA – Western Australia</i> 	Char (3)	NO
CONFIDENCE	Reflects how many source datasets this address was derived from: <ul style="list-style-type: none"> • <i>0 = 1 source dataset</i> • <i>1 = 2 source datasets</i> • <i>2 = 3 source datasets</i> 	Decimal (1, 0)	NO

Field Name	Description	Type	Indexed
RELIABILITY	<p>Spatial precision of the geocoded coordinates expressed as a number in the range:</p> <ul style="list-style-type: none"> • 1 - Geocode accuracy recorded to appropriate surveying standard • 2 - Geocode accuracy sufficient to place centroid within address site boundary • 3 - Geocode accuracy sufficient to place centroid near (or possibly within) address site boundary • 4 - Geocode accuracy sufficient to associate address site with a unique road feature • 5 - Geocode accuracy sufficient to associate address site with a unique locality or neighborhood • 6 - Geocode accuracy sufficient to associate address site with a unique region 	Decimal (1, 0)	NO

Field Name	Description	Type	Indexed
ADDRESS_CLASS	<p><i>A - Alias address record</i></p> <p><i>P - Principal address record</i></p> <p><i>PP - Principal primary address record</i></p> <p><i>PS - Principal secondary address record</i></p> <p><i>AP – Alias primary address record</i></p> <p><i>AS – Alias secondary address record, where:</i></p> <p><i>A primary address will be defined as a principal address which does not have a flat number but which matches the secondary address in all other respects OR is designated as owning secondary addresses by PSMA (e.g. involves private road in complex development).</i></p> <p><i>A secondary address will be defined as any address with a flat_number or more literally any address where flat_number_prefix, flat_number or flat_number_suffix is not null OR is designated as being linked to a primary address by PSMA (e.g. involves private road in a complex development).</i></p>	Char (2)	NO

Field Name	Description	Type	Indexed
LEVEL_GEOCODED_CODE	<p>Indicator of the level of geocoding precision the address point has:</p> <ul style="list-style-type: none"> • 0 - No geocode • 1 - No Locality geocode, No Street geocode, Address geocode • 2 - No Locality geocode, Street geocode, No Address geocode • 3 - No Locality geocode, Street geocode, Address geocode • 4 - Locality geocode, No Street geocode, No Address geocode • 5 - Locality geocode, No Street geocode, Address geocode • 6 - Locality geocode, Street geocode, No Address geocode • 7 - Locality geocode, Street geocode, Address geocode 	Decimal (1, 0)	NO

Field Name	Description	Type	Indexed
GEOCODE_TYPE		Char (30)	NO

Field Name	Description	Type	Indexed
	<p>Indicator of the type of geocoding precision the address point has:</p> <ul style="list-style-type: none"> • <i>Building Access Point - point of access to the building.</i> • <i>Building Centroid - point as centre of building and lying within its bounds (e.g. for u - shaped building).</i> • <i>Centre-line Dropped Frontage - a point on the road centre - line opposite the centre of the road frontage of an address site.</i> • <i>Driveway Frontage - centre of driveway on address site frontage.</i> • <i>Electricity Connection Point - electricity connection point (e.g. box, or underground chamber).</i> • <i>Electricity Meter - electricity meter point (e.g. box, or underground chamber).</i> • <i>Emergency Access - specific building or property access point for emergency services.</i> • <i>Emergency Access Secondary - specific building or property secondary access point for emergency services.</i> • <i>Front Door Access - front door of building.</i> • <i>Frontage Centre - point on the centre of the address site frontage.</i> • <i>Frontage Centre Setback - a point set back from the centre of the road frontage within an address site.</i> • <i>Gap Geocode - point programmatically</i> 		

Field Name	Description	Type	Indexed
	<p><i>allocated during the g-naf production process proportionally between adjacent address locations (based on number_first).</i></p> <ul style="list-style-type: none"> • <i>Gas Connection Point - gas connection point (e.g. box, or underground chamber).</i> • <i>Gas Meter - gas meter point (e.g. box, or underground chamber).</i> • <i>Internet Connection Point - internet connection point (e.g. box, or underground chamber).</i> • <i>Letterbox - place where mail is deposited.</i> • <i>Locality - point representing a locality</i> • <i>PBS - Frontage Centre Setback - a point set back from the centre of the road frontage within an address site. Location determined by Precisely processes.</i> • <i>PBS - Property Centroid - point at the centre of a parcel making up a property and lying within its boundaries (e.g. for I - shaped property). Location determined by Precisely processes.</i> • <i>Property Access Point - access point (centre of) at the road frontage of the property.</i> • <i>Property Access Point Setback - a point set back from the (centre of the) access point at the road frontage of the property.</i> • <i>Property Centroid - point of centre of parcels making up a property and lying within its boundaries (e.g. for I - shaped property).</i> 		

Field Name	Description	Type	Indexed
	<ul style="list-style-type: none"> • <i>Property Centroid Manual - point manually placed approximately at centre of parcels making up a property and lying within its boundaries (e.g. for I - shaped property).</i> • <i>Sewerage Connection point - sewerage connection point (e.g. box, or underground chamber).</i> • <i>Street Locality - point representing the extent of a street within a locality</i> • <i>Telephone Connection Point - telephone connection point (e.g. box, or underground chamber).</i> • <i>Unit Centroid - point at centre of unit and lying within its bounds (e.g. for u - shaped unit).</i> • <i>Unit Centroid Manual - point manually placed approximately at centre of unit and lying within its bounds (e.g. for u - shaped unit).</i> • <i>Unknown - the type of real world feature the point represents is not known.</i> • <i>Water Connection Point - water connection point (e.g. box, or underground chamber).</i> • <i>Water Meter - water meter point (e.g. box, or underground chamber).</i> 		
MESHBLK_2016	Mesh Blocks (2016 currency) - micro-level geographical unit for statistics.	Char (11)	YES

Field Name	Description	Type	Indexed
MESHBLK_CATEGORY_2016	<p>The category of land use allocated to mesh block (2016 currency).</p> <ul style="list-style-type: none"> • <i>Commercial</i> • <i>Education</i> • <i>Hospital / Medical</i> • <i>Industrial</i> • <i>Parkland</i> • <i>Primary Production</i> • <i>Residential</i> • <i>Transport</i> • <i>Water</i> • <i>Other</i> 	Char (18)	NO
PARCEL_ID	<p>Generic parcel id field to be used where custodial data provides such. Although the PARCEL_ID field is accurately represented when populated, coverage for the whole of Australia is not complete. It is not recommended that any cross referencing is undertaken to correlate with CadLite's jurisdiction_id field.</p>	Char (20)	YES
SA1	<p>Statistical Areas Level 1 (2016 currency). The SA1 boundaries are derived from the 2016 mesh block boundaries and form part of the 2016 Australian Statistical Geography Premium (ASGS).</p>	Decimal (11, 0)	YES
AREA_TYPE	<p>Indicator of type of area category</p> <p>DU = Dense Urban</p> <p>U = Urban</p> <p>RU = Rural Urban</p> <p>R = Rural</p>	Char (2)	NO

Field Name	Description	Type	Indexed
LONGITUDE	Longitude coordinates in decimal degrees with GDA94 datum.	Decimal (12, 8)	NO
LATITUDE	Latitude coordinates in decimal degrees with GDA94 datum.	Decimal (12, 8)	NO
DATE_CREATED	The date the G-NAF point was created by PSMA	Date	NO
DATE_MODIFIED	The date the G-NAF point was last modified by PSMA	Date	NO

3 - Notices and Product Support

In this section

Notices.....	22
Product Feedback and Support.....	23



Notices

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Contact our **Support** team for product support and additional product information. You can also submit your innovative ideas or comment on existing submissions in a way that is visible to all participants. Our Support site also includes information about our complete portfolio of Data products.



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