

Product:

**PSMA** | G-NAF®

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# G-NAF

## Data Release Report

November 2017

## Revision History

Date	Version	Change	Coordinator
November 2017	1.0	Initial Version	Anthony Hesling

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# Contents

<b>Introduction</b> .....	<b>1</b>
Document Purpose.....	1
Audience.....	1
Support.....	1
<b>Overview</b> .....	<b>2</b>
<b>Updates and Issues</b> .....	<b>3</b>
Updates.....	3
Issues.....	4
<b>Summary Statistics</b> .....	<b>5</b>
<b>Future Considerations</b> .....	<b>6</b>
<b>Annex A – Detailed Statistics by Jurisdiction</b> .....	<b>6</b>

# Introduction

G-NAF (Geocoded National Address File) is the authoritative physical address index for Australia. It contains the state, suburb, street, number and coordinate reference or geocode for street addresses in Australia.

G-NAF uses existing and recognised address sources (referred to as contributors) including the state and territory government land records, as well as address data from the commonwealth government and other national sources. For more information please refer to the G-NAF Product Description.

## Document Purpose

This document provides a description of the key issues encountered and production changes applied during the assembly of this update. In addition, overarching release statistics and general change volumes are also included. This document should be read in conjunction with the accompanying G-NAF Product Description.

## Audience

This document is made available to PSMA staff, data contributors, direct clients and end users. It is intended to be used by business managers, data managers and analysts as a guide and reference to understanding the content and variations within a data release.

## Support

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## Overview

- Nationally, this update of G-NAF shows an increase of 68,026 addresses overall which equates to an increase of 0.48%. The total number of addresses in G-NAF now stands at 14,332,652 of which 13,711,856 or 95.67% are principal.
- Confidence levels nationally show an improvement in confidence level 2 addresses which have increased by 76,889 and now represent 66.06% of principal addresses. Confidence 1 addresses have decreased slightly since the August 2017 release from 14.83% to 14.73% and confidence 0 addresses have decreased from 19.37% to 19.21% of addresses.
- There was an increase of 64,396 address level, an increase of 583 in street locality addresses and a drop of 1,258 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 96.26% address level, 3.52% street locality addresses and 0.22% locality addresses.

### Updates

- A number of updates and quality improvements have been undertaken for the November 2017 release of G-NAF, these include:
  - Improvements to address and property linkage using GNAF\_PROPERTY\_PID field.
  - Allocation of postcode for locality of WHITSUNDAYS changed from 4802 to 4803 due to majority of addresses located at Hamilton Island.
  - Change in WA for LEGAL\_PARCEL\_ID
  - changes to Localities names and boundaries
- There has also been a series of minor updates to processing of addresses where minor anomalies have been identified and in each case affects a small number of addresses in a localised area.

### Issues

- There have been no significant production issues in the November 2017 release of PSMA G-NAF data.

# Updates and Issues

## Updates

### Address Property linkage through GNAF\_PROPERTY\_PID

Previously the GNAF\_PROPERTY\_PID field was partially populated with jurisdictional property identifiers and in some cases the values were incorrect or not current. The process has been updated for the NOVEMBER 2017 release with the GNAF\_PROPERTY\_PID field updated (where available) with the information on the property associated with an address. This change in production processing has resulted in a significant increase in the number of records where the GNAF\_PROPERTY\_PID field is populated. This identifier is the same as the JURISDICTION\_ID in the Property theme (PROPERTY table) of the Cadlite product.

As part of the update, the description for the GNAF\_PROPERTY\_PID field has been updated to the following:

*This field stores the property identifier provided by the jurisdiction for the property associated with the address. This identifier is the same as the JURISDICTION\_ID in the Property theme of Cadlite.*

The table below compares the counts for the GNAF\_PROPERTY\_PID field in the August 2017 and November 2017 releases.

State / Territory	Aug. 2017	Nov. 2017	change	As % of Property Level addresses in Nov. 2017
ACT	28,260	187,628	159,368	88.4%
NSW	3,738,630	3,565,795	-172,835	88.2%
NT	0	85,410	85,410	85.2%
OT	1,006	0	-1,006	0.0%
QLD	0	2,157,350	2,157,350	78.8%
SA	253,332	974,632	721,300	90.1%
TAS	270,410	270,493	83	87.7%
VIC	3,303,461	3,189,957	-113,504	94.0%
WA	1,347,498	1,256,681	-90,817	91.2%
<b>TOTAL</b>	<b>8,942,597</b>	<b>11,687,946</b>	<b>2,745,349</b>	<b>88.2%</b>

Whilst there has been a significant increase in the number of records containing information in the GNAF\_PROPERTY\_PID, it has also resulted in a reduction for some jurisdictions (NSW, OT, VIC and WA) which is due to a lack of available property information associated with an address.

### **Allocation of Postcodes**

Allocation of postcode for locality of WHITSUNDAYS changed from 4802 to 4803 due to the majority of addresses located at Hamilton Island, which has a different postcode.

### **Change in WA for LEGAL\_PARCEL\_ID**

Approximately 14,000 addresses in Western Australia have been reallocated a different LEGAL\_PARCEL\_ID. This is as a result of using the jurisdictional identifier related to the strata development which the address pertains to rather than the identifier of the underlying parent parcel ( e.g. from "P202115 245" to "1/S000311").

### **Changes to Localities names and boundaries**

The regular changes to locality names and boundaries will impact changes to the addresses. Addresses where their locality name changes for an address will as a consequence have their ADDRESS\_DETAIL\_PID change. Please refer to the release report for the Administrative Boundaries product for specific changes occurring to localities.

## **Issues**

There are no significant production issues.

# Summary Statistics

**Note:** The statistics below do not include “retired” addresses (ie. Confidence =-1).

## Geocode Reliability of Principal Addresses Only

Reliability	No of Addresses	Percentage	Change since August 2017
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	13,044,318	95.13%	63,260
3 (gap geocoded)	154,987	1.13%	1,136
4 (street level)	483,267	3.52%	583
5 (locality level)	29,284	0.21%	-1,258
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
<b>Total</b>	<b>13,711,856</b>	<b>100.00%</b>	<b>63,721</b>

## Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since August 2017
Addresses with a Confidence of 0	2,633,799	19.21%	-9,627
Addresses with a Confidence of 1	2,020,083	14.73%	-3,541
Addresses with a Confidence of 2	9,057,974	66.06%	76,889
<b>Total</b>	<b>13,711,856</b>	<b>100.00%</b>	<b>63,721</b>

## Geocode Reliability of Addresses (Principals and Aliases)

Reliability	No of Addresses	Percentage	Change since August 2017
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	13,660,649	95.31%	67,594
3 (gap geocoded)	156,390	1.09%	1,231
4 (street level)	486,282	3.39%	462
5 (locality level)	29,331	0.20%	-1,261
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
<b>Total</b>	<b>14,332,652</b>	<b>100.00%</b>	<b>68,026</b>

## Address Confidence Levels of Addresses (Principals and Aliases)

Confidence level	No of Addresses	Percentage	Change since August 2017
Addresses with a Confidence of 0	3,061,801	21.36%	-8,833
Addresses with a Confidence of 1	2,201,186	15.36%	-6
Addresses with a Confidence of 2	9,069,665	63.28%	76,865
<b>Total</b>	<b>14,332,652</b>	<b>100.00%</b>	<b>68,026</b>



# Future Considerations

## Change to character length for name fields

It has been identified that some address contributors are storing information for address name fields that is larger than the current 45 character limit used in G-NAF. To accommodate the additional text in the name fields and future supplies, PSMA will increase the name fields from the current 45 character limit to 200 character limit. The following fields will be updated for the FEBRUARY 2018 release of G-NAF with an increase in field lengths increasing from 45 to **200** characters for the following fields in G-NAF:

BUILDING\_NAME in the ADDRESS\_DETAIL table

ADDRESS\_SITE\_NAME in the ADDRESS\_SITE table

GEOCODE\_SITE\_NAME in the ADDRESS\_SITE\_GEOCODE table

# Annex A – Detailed Statistics by Jurisdiction

The following tables show the changes that occur between the current release (November 2017) and previous release (August 2017) for each jurisdiction. The table shows information on the change in the two far right columns, one shows the count difference between two releases (No of Addresses ) and the other the percentage of change based on the total of all addresses for the jurisdiction (Address %). As such, these two columns are not directly related to each other, but show the improvements that generally occur to addresses with increased confidence and reliability levels over time.

## Victoria

Victorian addresses represent 25.18% of the national total. Victoria has had an increase of 21,780 addresses for this release. Both address reliability and confidence show improvement in Victoria for the November 2017 release.

Confidence - Vic	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	541,004	15.67%	543,328	15.84%	-2,324	-0.17%
Addresses with a Confidence of 1	520,502	15.08%	524,519	15.29%	-4,017	-0.21%
Addresses with a Confidence of 2	2,391,104	69.25%	2,362,983	68.87%	28,121	0.38%

Level Geocoded - Vic	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	3,395,200	98.34%	3,372,542	98.30%	22,658	0.04%
Addresses geocoded to Street level	53,401	1.55%	54,528	1.59%	-1,127	-0.04%
Addresses geocoded to Locality level	4,009	0.12%	3,760	0.11%	249	0.01%

## New South Wales

New South Wales addresses represent 30.93% of the national total. There was an increase of 21,321 principal addresses for NSW. Both address reliability and confidence show improvement for the November 2017 release in NSW.

Confidence - NSW	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	822,172	19.38%	820,852	19.45%	1,320	-0.07%
Addresses with a Confidence of 1	672,019	15.84%	669,637	15.87%	2,382	-0.02%
Addresses with a Confidence of 2	2,747,349	64.77%	2,729,730	64.68%	17,619	0.09%

Level Geocoded - NSW	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	4,042,366	95.30%	4,021,370	95.29%	20,996	0.02%
Addresses geocoded to Street level	186,807	4.40%	186,327	4.42%	480	-0.01%
Addresses geocoded to Locality level	12,367	0.29%	12,522	0.30%	-155	-0.01%

## South Australia

South Australian addresses represent 7.76% of the national total. South Australia has had an increase of 1,210 principal addresses. Both address confidence and address reliability show improvement for South Australia in the November 2017 release.

Confidence - SA	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	247,773	23.29%	251,064	23.63%	-3,291	-0.34%
Addresses with a Confidence of 1	139,109	13.08%	139,712	13.15%	-603	-0.07%
Addresses with a Confidence of 2	676,937	63.63%	671,833	63.22%	5,104	0.41%

Level Geocoded - SA	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	1,021,618	96.03%	1,018,920	95.89%	2,698	0.14%
Addresses geocoded to Street level	39,458	3.71%	40,905	3.85%	-1,447	-0.14%
Addresses geocoded to Locality level	2,743	0.26%	2,784	0.26%	-41	0.00%

## Tasmania

Tasmanian addresses represent 2.38% of the national total. There was an increase of 183 principal addresses for Tasmania which continues to show improvement for both reliability and address confidence in the November 2017 release.

Confidence - Tas	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	57,015	17.45%	58,821	18.01%	-1,806	-0.56%
Addresses with a Confidence of 1	43,699	13.38%	48,877	14.97%	-5,178	-1.59%
Addresses with a Confidence of 2	225,986	69.17%	218,819	67.02%	7,167	2.16%

Level Geocoded - Tas	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	308,273	94.36%	307,540	94.19%	733	0.17%
Addresses geocoded to Street level	17,558	5.37%	18,132	5.55%	-574	-0.18%
Addresses geocoded to Locality level	869	0.27%	845	0.26%	24	0.01%

## Western Australia

Western Australian addresses represent 10.41% of the national total. Western Australia has had an increase of some 1,926 principal addresses. Both confidence and address reliability show improvement for the November 2017 release.

Confidence - WA	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	244,505	17.13%	248,209	17.42%	-3,704	-0.28%
Addresses with a Confidence of 1	172,815	12.11%	173,483	12.17%	-668	-0.06%
Addresses with a Confidence of 2	1,009,666	70.76%	1,003,368	70.41%	6,298	0.35%

Level Geocoded - WA	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	1,378,553	96.61%	1,375,013	96.49%	3,540	0.12%
Addresses geocoded to Street level	45,976	3.22%	46,327	3.25%	-351	-0.03%
Addresses geocoded to Locality level	2,457	0.17%	3,720	0.26%	-1,263	-0.09%

## ACT

ACT addresses represent 1.56% of the national total. There was a decrease of 782 principal addresses in ACT. Both address confidence and address reliability show a slight improvement in ACT for the November 2017 release.

Confidence - ACT	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	28,630	13.38%	29,869	13.90%	-1,239	-0.53%
Addresses with a Confidence of 1	16,769	7.83%	18,690	8.70%	-1,921	-0.87%
Addresses with a Confidence of 2	168,639	78.79%	166,261	77.40%	2,378	1.39%

Level Geocoded - ACT	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	212,327	99.20%	212,723	99.02%	-396	0.18%
Addresses geocoded to Street level	1,658	0.77%	2,049	0.95%	-391	-0.18%
Addresses geocoded to Locality level	53	0.02%	48	0.02%	5	0.00%

## Queensland

Queensland addresses represent 20.98% of the national total. There was an increase of some 17,229 principal addresses in Queensland. Overall Queensland shows a slightly decreasing trend in both address confidence and reliability with both confidence 1 and street addresses showing disproportionate increases compared to confidence 2 and property addresses.

Confidence - QLD	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	666,097	23.16%	664,807	23.25%	1,290	-0.09%
Addresses with a Confidence of 1	428,979	14.91%	422,379	14.77%	6,600	0.14%
Addresses with a Confidence of 2	1,781,124	61.93%	1,771,785	61.97%	9,339	-0.05%

Level Geocoded - QLD	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	2,738,009	95.20%	2,724,598	95.30%	13,411	-0.10%
Addresses geocoded to Street level	131,950	4.59%	128,003	4.48%	3,947	0.11%
Addresses geocoded to Locality level	6,241	0.22%	6,370	0.22%	-129	-0.01%

## Northern Territory

Northern Territory addresses represent 0.78% of the national total. Northern Territory had an increase of 817 addresses. Address confidence show a slight improvement while address reliability reveals a slight decrease for the November 2017 release.

Confidence - NT	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	25,579	23.93%	25,298	23.85%	281	0.08%
Addresses with a Confidence of 1	24,579	23.00%	24,484	23.08%	95	-0.09%
Addresses with a Confidence of 2	56,725	53.07%	56,284	53.07%	441	0.01%

Level Geocoded - NT	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	100,279	93.82%	99,535	93.84%	744	-0.02%
Addresses geocoded to Street level	6,153	5.76%	6,125	5.77%	28	-0.02%
Addresses geocoded to Locality level	451	0.42%	406	0.38%	45	0.04%

## Other Territories

Other territories addresses represent 0.02% of the national total. Address confidence shows a significant improvement as a result of increased contribution of AUSP addresses. Conversely, the additional addresses have impacted reliability with the ratio of both street and locality addresses increasing at the expense of property addresses for the November 2017 release.

Confidence - OT	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 0	1,024	33.25%	1,178	38.71%	-154	-5.47%
Addresses with a Confidence of 1	1,612	52.34%	1,843	60.57%	-231	-8.23%
Addresses with a Confidence of 2	444	14.42%	22	0.72%	422	13.69%

Level Geocoded - OT	Current Release		Previous Release		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	2,680	87.01%	2,668	87.68%	12	-0.66%
Addresses geocoded to Street level	306	9.94%	288	9.46%	18	0.47%
Addresses geocoded to Locality level	94	3.05%	87	2.86%	7	0.19%