

Product:

PSMA | G-NAF[®]

Prepared:

February 2018



G-NAF

Data Release Report

February 2018

Revision History

Date	Version	Change	Coordinator
February 2018	1.0	Initial Version	Dean Coslett

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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.

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Overview

- Nationally, this update of G-NAF shows an increase of 38,968 addresses overall which equates to an increase of 0.27%. The total number of addresses in G-NAF now stands at 14,371,620 of which 13,750,039 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 66.15% of principal addresses. Confidence 1 addresses have decreased slightly since the November 2017 release from 14.73% to 14.67% and confidence 0 addresses have decreased from 19.21% to 19.18% of addresses.
- There was an increase of 52,307 address level, a drop of 12,263 in street locality addresses and a drop of 1,861 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 96.38% address level, 3.43% street locality addresses and 0.20% locality addresses.

Updates

- Updates and quality improvements have been undertaken for the February 2018 release of G-NAF, these include:
 - name fields character length increase
 - 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

- changes occurring to LEGAL_PARCEL_ID

Updates and Issues

Updates

Name Fields Character Length increase

As mentioned in the November 2017 release report, 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 has implemented an increase to the name fields from the current 45 character limit to 200 character limit. The following fields have been updated with an increase in field lengths from 45 to **200** characters:

BUILDING_NAME in the ADDRESS_DETAIL table

ADDRESS_SITE_NAME in the ADDRESS_SITE table

GEOCODE_SITE_NAME in the ADDRESS_SITE_GEOCODE table

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.

Issue

Changes occurring to LEGAL_PARCEL_ID

Previous release reports have noted that some addresses have changed their LEGAL_PARCEL_ID. In some cases this is to be expected as properties are subdivided, however, there other changes resulting from issues in the updating process that should not be occurring. Whilst incorrect changes have been minimised over the past few updates, it is continuing to occur in a relatively small number of cases. Further work is being undertaken to resolve this issue.

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 November 2017
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	13,096,180	95.24%	51,862
3 (gap geocoded)	155,432	1.13%	445
4 (street level)	471,004	3.43%	-12,263
5 (locality level)	27,423	0.20%	-1,861
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
Total	13,750,039	100.00%	38,183

Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since November 2017
Addresses with a Confidence of 0	2,637,883	19.18%	4,084
Addresses with a Confidence of 1	2,016,553	14.67%	-3,530
Addresses with a Confidence of 2	9,095,603	66.15%	37,629
Total	13,750,039	100.00%	38,183

Geocode Reliability of Addresses (Principals and Aliases)

Reliability	No of Addresses	Percentage	Change since November 2017
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	13,713,679	95.42%	53,030
3 (gap geocoded)	156,730	1.09%	340
4 (street level)	473,759	3.30%	-12,523
5 (locality level)	27,452	0.19%	-1,879
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
Total	14,371,620	100.00%	38,968

Address Confidence Levels of Addresses (Principals and Aliases)

Confidence level	No of Addresses	Percentage	Change since November 2017
Addresses with a Confidence of 0	3,064,345	21.32%	2,544
Addresses with a Confidence of 1	2,199,912	15.31%	-1,274
Addresses with a Confidence of 2	9,107,363	63.37%	37,698
Total	14,371,620	100.00%	38,968

Future Considerations

Additional Address Contributions

PSMA is currently reviewing sources for additional address contributions with a view to their inclusion into G-NAF. More information will be provided either before or at the time of the next release (May 2018). It is envisaged that if any additional address contributions are planned for inclusion to G-NAF, it will not occur until the August 2018 release.

Tracking Address Changes in G-NAF

The most commonly used PID to identify an address in G-NAF is the ADDRESS_DETAIL_PID. This identifier reflects the uniqueness of each address label, rather than an addressable object (e.g. a property) that the address label represents. Currently in G-NAF, the address label representing an addressable object can change without any change occurring to that addressable object (e.g. it represents the same property) and after 12 months (4 releases) of the label not being supplied from contributors (-1 confidence) the address is removed from G-NAF. The allocation of a new address label (and ADDRESS_DETAIL_PID) in these circumstances is considered an issue for users seeking to track actual new addresses (i.e. representing new addressable objects) entering G-NAF.

PSMA has investigated the possibility of a change to the G-NAF structure that would assist users in identifying changes. The change is likely to be in the form of a new table rather than changes to existing tables. PSMA is currently engaging with major stakeholders regarding the possibility of a change and subject to feedback it is proposed that the change will occur in the August 2018 release.

More detailed information about the change will be provided either before or at the time of the May 2018 release.

Annex A – Detailed Statistics by Jurisdiction

The following tables show the changes that occur to principal only addresses between the current release (February 2018) and previous release (November 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 principal addresses only 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 25.21% of the national total. Victoria has had an increase of 13,788 addresses for this release. Both address reliability and confidence show improvement in Victoria for the February 2018 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	545,133	15.73%	541,004	15.67%	4,129	0.06%
Addresses with a Confidence of 1	517,668	14.93%	520,502	15.08%	-2,834	-0.14%
Addresses with a Confidence of 2	2,403,597	69.34%	2,391,104	69.25%	12,493	0.08%

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	3,410,191	98.38%	3,395,200	98.34%	14,991	0.04%
Addresses geocoded to Street level	52,600	1.52%	53,401	1.55%	-801	-0.03%
Addresses geocoded to Locality level	3,607	0.10%	4,009	0.12%	-402	-0.01%

New South Wales

New South Wales addresses represent 30.95% of the national total. There was an increase of 13,435 principal addresses for NSW. Both address reliability and confidence show improvement for the February 2018 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	824,090	19.37%	822,172	19.38%	1,918	-0.02%
Addresses with a Confidence of 1	671,536	15.78%	672,019	15.84%	-483	-0.06%
Addresses with a Confidence of 2	2,759,349	64.85%	2,747,349	64.77%	12,000	0.08%

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	4,058,682	95.39%	4,042,366	95.30%	16,316	0.08%
Addresses geocoded to Street level	185,002	4.35%	186,807	4.40%	-1,805	-0.06%
Addresses geocoded to Locality level	11,291	0.27%	12,367	0.29%	-1,076	-0.03%

South Australia

South Australian addresses represent 7.74% of the national total. South Australia has had an increase of 871 principal addresses. Both address confidence and address reliability show improvement for South Australia in the February 2018 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	246,052	23.11%	247,773	23.29%	-1,721	-0.18%
Addresses with a Confidence of 1	138,756	13.03%	139,109	13.08%	-353	-0.04%
Addresses with a Confidence of 2	679,882	63.86%	676,937	63.63%	2,945	0.22%

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	1,023,439	96.13%	1,021,618	96.03%	1,821	0.09%
Addresses geocoded to Street level	38,570	3.62%	39,458	3.71%	-888	-0.09%
Addresses geocoded to Locality level	2,681	0.25%	2,743	0.26%	-62	-0.01%

Tasmania

Tasmanian addresses represent 2.38% of the national total. There was an increase of 678 principal addresses for Tasmania which continues to show improvement for address reliability however confidence 2 addresses dropped slightly in the February 2018 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	57,198	17.47%	57,015	17.45%	183	0.02%
Addresses with a Confidence of 1	43,921	13.42%	43,699	13.38%	222	0.04%
Addresses with a Confidence of 2	226,259	69.11%	225,986	69.17%	273	-0.06%

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	309,064	94.41%	308,273	94.36%	791	0.05%
Addresses geocoded to Street level	17,481	5.34%	17,558	5.37%	-77	-0.03%
Addresses geocoded to Locality level	833	0.25%	869	0.27%	-36	-0.01%

Western Australia

Western Australian addresses represent 10.40% of the national total. Western Australia has had an increase of some 2,964 principal addresses. Both confidence and address reliability show improvement for the February 2018 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	245,232	17.15%	244,505	17.13%	727	0.02%
Addresses with a Confidence of 1	171,233	11.97%	172,815	12.11%	-1,582	-0.14%
Addresses with a Confidence of 2	1,013,485	70.88%	1,009,666	70.76%	3,819	0.12%

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	1,382,637	96.69%	1,378,553	96.61%	4,084	0.09%
Addresses geocoded to Street level	44,943	3.14%	45,976	3.22%	-1,033	-0.08%
Addresses geocoded to Locality level	2,370	0.17%	2,457	0.17%	-87	-0.01%

ACT

ACT addresses represent 1.56% of the national total. There was an increase of 864 principal addresses in ACT. Despite an overall increase in confidence 2 address numbers, the ratio of confidence 2 addresses fell slightly for the February 2018 release. Address reliability shows a slight improvement in ACT for the February 2018 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	29,016	13.50%	28,630	13.38%	386	0.13%
Addresses with a Confidence of 1	16,625	7.74%	16,769	7.83%	-144	-0.10%
Addresses with a Confidence of 2	169,261	78.76%	168,639	78.79%	622	-0.03%

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	213,367	99.29%	212,327	99.20%	1,040	0.09%
Addresses geocoded to Street level	1,535	0.71%	1,658	0.77%	-123	-0.06%
Addresses geocoded to Locality level	0	0.00%	53	0.02%	-53	-0.02%

Queensland

Queensland addresses represent 20.96% of the national total. There was an increase of some 5,309 principal addresses in Queensland. Reversing the trend of the November 2017 release, Queensland now shows a slightly improving trend for both address confidence and reliability in the February 2018 release.

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	664,311	23.05%	666,097	23.16%	-1,786	-0.10%
Addresses with a Confidence of 1	430,739	14.95%	428,979	14.91%	1,760	0.03%
Addresses with a Confidence of 2	1,786,459	62.00%	1,781,124	61.93%	5,335	0.07%

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	2,750,973	95.47%	2,738,009	95.20%	12,964	0.27%
Addresses geocoded to Street level	124,431	4.32%	131,950	4.59%	-7,519	-0.27%
Addresses geocoded to Locality level	6,105	0.21%	6,241	0.22%	-136	-0.01%

Northern Territory

Northern Territory addresses represent 0.78% of the national total. Northern Territory had an increase of 274 addresses. Address reliability reveals a slight improvement while confidence 2 addresses remain unchanged but confidence 1 addresses have dropped slightly for the February 2018 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	25,827	24.10%	25,579	23.93%	248	0.17%
Addresses with a Confidence of 1	24,463	22.83%	24,579	23.00%	-116	-0.17%
Addresses with a Confidence of 2	56,867	53.07%	56,725	53.07%	142	0.00%

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	100,579	93.86%	100,279	93.82%	300	0.04%
Addresses geocoded to Street level	6,136	5.73%	6,153	5.76%	-17	-0.03%
Addresses geocoded to Locality level	442	0.41%	451	0.42%	-9	-0.01%

Other Territories

Other territories addresses represent 0.02% of the national total. Address confidence and address reliability are unchanged for the February 2018 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%	1,024	33.25%	0	0.00%
Addresses with a Confidence of 1	1,612	52.34%	1,612	52.34%	0	0.00%
Addresses with a Confidence of 2	444	14.42%	444	14.42%	0	0.00%

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%	2,680	87.01%	0	0.00%
Addresses geocoded to Street level	306	9.94%	306	9.94%	0	0.00%
Addresses geocoded to Locality level	94	3.05%	94	3.05%	0	0.00%