

Product:

PSMA | G-NAF®

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G-NAF

Data Release Report

February 2019

Revision History

Date	Version	Change	Coordinator
February 2019	1.0	Initial Version	Anthony Hesling

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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 54,894 addresses overall which equates to an increase of 0.38%. The total number of addresses in G-NAF now stands at 14,608,227 of which 13,862,343 or 94.89% are principal.
- The confidence level distribution nationally remains unchanged from the November 2018 release with confidence level 2 addresses increasing by 33,968 represent 66.95% of principal addresses. Confidence 1 addresses have increased 7,688 and represent 14.65% while confidence 0 addresses have increased 10,417 and represent 18.40% of addresses.
- With respect to address reliability, there was an increase of 62,756 address level, a decrease of 9,693 in street locality addresses and a decrease of 990 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 96.71% address level an increase of 0.09% since the November 2018 release, 3.12% street locality addresses and 0.17% locality addresses.

Updates

- Updates and quality improvements have been undertaken for the February 2019 release of G-NAF, these include:
 - Ongoing de-duplication works resulting in an increase of some 7,400 principal/alias addresses.
 - Ongoing validation and removal of sensitive information in the building_name, address_site_name and geocode_site_name attributes

Issues

- See the Issues section in this report for details.

Updates and Issues

Updates

Ongoing de-duplication works resulting in an increase of some 7,400 principal/alias addresses.

Ongoing validation and removal of sensitive information in the building_name, address_site_name and geocode_site_name attributes

Issues

ADDRESS_FEATURE table

In the November 2018 release of G-NAF an issue was outlined in the release report regarding the ADDRESS_FEATURE table where a small number of addresses flagged in that table as having been retired in an earlier update were now “live” addresses (ie had a confidence of > -1) in the November 2018 release.

As explained in the November 2018 release report this had occurred because some 34 addresses in the August 2018 release were not supported by any of the contributors however in the November 2018 release at least one contributor had reinstated each of the addresses. Whilst this is unusual, it has historically happened from time to time over the life of G-NAF. As such, these addresses were no longer retired in G-NAF thus creating the anomaly in the Address Feature table.

Following a review of this issue it has been resolved to leave the ADDRESS_FEATURE table as it is currently. As a result, users of the ADDRESS_FEATURE table will find a very small number of addresses in that table flagged as retired however they are currently live in G-NAF.

This approach has been taken as it allows the ADDRESS_FEATURE table to represent the history of those instances where addresses have been retired and replaced by another addresses (eg lot number to street_number) at some point in time. This approach will be reviewed at some future date to ensure the ADDRESS_FEATURE table is meeting the needs of users of G-NAF.

LEGAL_PARCEL_ID's

Data processing issues as part of this update have resulted in either, many new addresses (i.e. approx. 38,000) not being allocated a legal_parcel id or some addresses losing the legal_parcel_id previously allocated (i.e. approx. 26,000). Whilst this has occurred across all jurisdictions to some extent, the majority has occurred in NSW, Queensland, Tasmania and Victoria. This will be resolved as part of the next update.

GNAF_PROPERTY_ID

Similar to the legal_parcel_ids, some 20,000 new addresses were not allocated a gnaf_property_id as part of this update. This mostly occurred in NSW, Queensland and Western Australia. This will be resolved as part of the next update.

PROPERTY_CENTROID GEOCODES IN VICTORIA.

Data processing issues have resulted in the majority of new addresses in Victoria not being allocated a PROPERTY_CENTROID geocode. They have only been allocated either a FRONT CENTRE SETBACK or PROPERTY ACCESS POINT geocode. This will be corrected in the next update of G-NAF.

Summary Statistics

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

Geocode Reliability of Principal Addresses Only

Reliability	No of Addresses	Percentage	Change since August 2018
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	13,261,614	95.67%	63,231
3 (gap geocoded)	144,462	1.04%	-475
4 (street level)	432,529	3.12%	-9,693
5 (locality level)	23,738	0.17%	-990
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
Total	13,862,343	100.00%	52,073

Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since August 2018
Addresses with a Confidence of 0	2,550,901	18.40%	10,417
Addresses with a Confidence of 1	2,030,331	14.65%	7,688
Addresses with a Confidence of 2	9,281,111	66.95%	33,968
Total	13,862,343	100.00%	52,073

Geocode Reliability of Addresses (Principals and Aliases)

Reliability	No of Addresses	Percentage	Change since August 2018
1 (GPS derived address level)	0	0.00%	0
2 (Within address site boundary)	14,004,192	95.87%	66,320
3 (gap geocoded)	145,591	1.00%	-497
4 (street level)	434,701	2.98%	-9,937
5 (locality level)	23,743	0.16%	-992
6 (topo level)	0	0.00%	0
No geocode	0	0.00%	0
Total	14,608,227	100.00%	54,894

Address Confidence Levels of Addresses (Principals and Aliases)

Confidence level	No of Addresses	Percentage	Change since August 2018
Addresses with a Confidence of 0	3,071,353	21.02%	10,227
Addresses with a Confidence of 1	2,245,070	15.37%	10,638
Addresses with a Confidence of 2	9,291,804	63.61%	34,029
Total	14,608,227	100.00%	54,894

Future Considerations

Further improvements based on additional address contributions

PSMA will continue to implement further improvements to G-NAF based on additional address contributions from reliable sources. The improvement will be documented at the time of the release where changes are made based on the additional address contributions.

Annex A – Detailed Statistics by Jurisdiction

The following tables show the changes that occur to principal only addresses between the new release (November 2018) and previous release (August 2018) 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. The statistics below do not include “retired” addresses (i.e. Confidence = -1).

Victoria

Victorian addresses represent 25.40% of the national total. Victoria has had an increase of 25,049 addresses for this release. Address reliability for Victoria shows improvement in for the February 2019 release, however the address confidence match has had a swing to confidence 0 addresses.

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	534,062	15.17%	520,908	14.90%	13,154	0.27%
Addresses with a Confidence of 1	528,054	15.00%	525,600	15.04%	2,454	-0.04%
Addresses with a Confidence of 2	2,458,433	69.83%	2,448,992	70.06%	9,441	-0.23%

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	3,470,208	98.57%	3,441,757	98.46%	28,451	0.11%
Addresses geocoded to Street level	47,225	1.34%	50,722	1.45%	-3,497	-0.11%
Addresses geocoded to Locality level	3,116	0.09%	3,021	0.09%	95	0.00%

New South Wales

New South Wales addresses represent 30.95% of the national total. There was an increase of 16,159 principal addresses for NSW. Address confidence and address reliability show improvement for the February 2019 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	798,348	18.61%	794,031	18.58%	4,317	0.03%
Addresses with a Confidence of 1	669,898	15.61%	670,677	15.69%	-779	-0.08%
Addresses with a Confidence of 2	2,822,032	65.78%	2,809,411	65.73%	12,621	0.05%

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	4,112,842	95.86%	4,093,644	95.78%	19,198	0.09%
Addresses geocoded to Street level	168,717	3.93%	170,475	3.99%	-1,758	-0.06%
Addresses geocoded to Locality level	8,719	0.20%	10,000	0.23%	-1,281	-0.03%

South Australia

South Australian addresses represent 7.69% of the national total. South Australia has had an increase of 737 principal addresses. Both address reliability and address confidence show improvement for South Australia in the February 2019 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	234,751	22.02%	236,605	22.21%	-1,854	-0.19%
Addresses with a Confidence of 1	136,432	12.80%	135,886	12.76%	546	0.04%
Addresses with a Confidence of 2	694,693	65.18%	692,648	65.03%	2,045	0.15%

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	1,030,510	96.68%	1,028,909	96.60%	1,601	0.08%
Addresses geocoded to Street level	33,210	3.12%	34,020	3.19%	-810	-0.08%
Addresses geocoded to Locality level	2,156	0.20%	2,210	0.21%	-54	-0.01%

Tasmania

Tasmanian addresses represent 2.37% of the national total. There was a decrease of 935 principal addresses for Tasmania in the February 2019 release. Address reliability shows improvement for Tasmania in the February 2019 release while the address confidence remains largely unchanged from the November 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	55,871	16.99%	55,638	16.97%	233	0.02%
Addresses with a Confidence of 1	43,516	13.24%	43,465	13.26%	51	-0.02%
Addresses with a Confidence of 2	229,372	69.77%	228,721	69.77%	651	0.00%

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	311,841	94.85%	310,606	94.75%	1,235	0.11%
Addresses geocoded to Street level	16,126	4.91%	16,393	5.00%	-267	-0.10%
Addresses geocoded to Locality level	792	0.24%	825	0.25%	-33	-0.01%

Western Australia

Western Australian addresses represent 10.38% of the national total. Western Australia has had an increase of some 2,752 principal addresses. Both confidence and address reliability show improvement for the February 2019 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	240,338	16.70%	240,255	16.73%	83	-0.03%
Addresses with a Confidence of 1	169,995	11.81%	169,935	11.83%	60	-0.02%
Addresses with a Confidence of 2	1,028,685	71.49%	1,026,076	71.44%	2,609	0.04%

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	1,394,507	96.91%	1,391,326	96.87%	3,181	0.04%
Addresses geocoded to Street level	42,121	2.93%	42,503	2.96%	-382	-0.03%
Addresses geocoded to Locality level	2,390	0.17%	2,437	0.17%	-47	0.00%

ACT

ACT addresses represent 1.57% of the national total. There was an increase of 863 principal addresses in ACT. Both address confidence and address reliability show a slight improvement for the February 2019 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	28,038	12.88%	28,220	13.01%	-182	-0.14%
Addresses with a Confidence of 1	15,876	7.29%	15,525	7.16%	351	0.13%
Addresses with a Confidence of 2	173,785	79.83%	173,091	79.83%	694	0.00%

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	216,246	99.33%	215,377	99.33%	869	0.01%
Addresses geocoded to Street level	1,453	0.67%	1,459	0.67%	-6	-0.01%
Addresses geocoded to Locality level	0	0.00%	0	0.00%	0	0.00%

Queensland

Queensland addresses represent 20.85% of the national total. There was an increase of some 5,396 principal addresses in Queensland. Queensland shows a slight improvement in both address confidence and reliability for the February 2019 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	634,819	21.97%	639,823	22.18%	-5,004	-0.21%
Addresses with a Confidence of 1	439,582	15.21%	434,909	15.08%	4,673	0.13%
Addresses with a Confidence of 2	1,815,678	62.82%	1,809,951	62.74%	5,727	0.08%

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	2,766,345	95.72%	2,758,352	95.62%	7,993	0.10%
Addresses geocoded to Street level	117,770	4.07%	120,709	4.18%	-2,939	-0.11%
Addresses geocoded to Locality level	5,964	0.21%	5,622	0.19%	342	0.01%

Northern Territory

Northern Territory addresses represent 0.77% of the national total. Northern Territory had an increase of 182 addresses. Both address confidence and address reliability for Northern Territory show a slight improvement for the February 2019 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	23,650	22.10%	23,980	22.45%	-330	-0.35%
Addresses with a Confidence of 1	25,364	23.70%	25,032	23.43%	332	0.27%
Addresses with a Confidence of 2	57,988	54.19%	57,808	54.12%	180	0.08%

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	100,898	94.30%	100,670	94.24%	228	0.05%
Addresses geocoded to Street level	5,602	5.24%	5,636	5.28%	-34	-0.04%
Addresses geocoded to Locality level	502	0.47%	514	0.48%	-12	-0.01%

Other Territories

Other Territories addresses represent 0.02% of the national total. The address confidence and address reliability are unchanged for Other Territories in the February 2019 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	33.21%	1,024	33.25%	0	-0.03%
Addresses with a Confidence of 1	1,614	52.35%	1,612	52.34%	2	0.01%
Addresses with a Confidence of 2	445	14.43%	444	14.42%	1	0.02%

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	2,679	86.90%	2,680	87.01%	-1	-0.12%
Addresses geocoded to Street level	305	9.89%	306	9.94%	-1	-0.04%
Addresses geocoded to Locality level	99	3.21%	94	3.05%	5	0.16%