

G-NAF

Data Release Report

Aug 2024

Geoscape

19 August 2024

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Introduction

G-NAF (Geocoded National Address File) is the trusted 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.

1.1 Document Purpose

This document provides a description of the issues, changes, features, updates and overarching statistics relating to the applicable data release. This document should be read in conjunction with the relevant Product Description.

1.2 Audience

This document is made available to Geoscape 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.

1.3 References

- G-NAF Product Description (geoscape.com.au/documentation/)
- Geoscape Data (geoscape.com.au/data/g-naf/)

1.4 Contact

Geoscape Australia Support

Geoscape Australia

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Overview

- Nationally, the Aug 2024 update of G-NAF shows an increase of 44,191 addresses overall (+0.28%). The total number of addresses in G-NAF now stands at 15,698,769 of which 14,864,193 or 94.68% are principal.
- The confidence level distribution nationally for the Aug 2024 release has the confidence 2 addresses increasing by 41,258 from the May 2024 release with the total percentage of confidence 2 addresses increasing to 68.67% of principal addresses. The number of confidence 1 addresses has decreased by 2,617 and represent 14.22% of all principal addresses while confidence 0 addresses have increased by 5,357 and represent 17.11% of addresses.
- With respect to address reliability, there was an increase of 45,286 address level, a decrease of 1,082 in street locality addresses and a decrease of 206 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 97.61% address level, 2.36% street locality addresses and 0.03% locality addresses.

Locality changes not included in this release

Geoscape is aware of locality changes that occurred after our cutoff period for extracting Localities. These changes will be included in the November 2024 release.

- NT: Locality name change of 'Beswick' to 'Wugularr'.
- NT: Locality name change of 'Pigeon Hole' to 'Nitjpurru'.
- NSW: Boundary alignment change between 'Razorback' and 'Mount Hunter'.

2.1 Release Summary

2.1.1 Update summary

- Retirement of addresses in NSW and Queensland.
- Impact of cadastral shifts in Victoria.
- Retirement of addresses in G-NAF.
- For details on these updates, refer to the 'Change Notification' section in this report.

2.1.2 Issues summary

- ACT Legal Parcel ID and GNAF Property ID updates.
- For more information refer to the 'Issues' section on these issues.

2.1.3 Future Considerations

- Changes to Geoscape Cadastre and Property.
- Details of these changes can be found under the 'Future Considerations' section of this report.

Change Notification

3.1 Enhancements

3.1.1 Retirement of addresses in NSW and Queensland

Geoscape has continued to review and retire addresses that were provided by contributors where they are considered to be either: historical and have been replaced by other addresses or are “infill” addresses and focus for the Aug 2024 Release has been in New South Wales where 660 addresses have been retired and Queensland where 440 addresses have been retired. In both cases, the addresses are considered not in use by the community and as such, have been retired and allocated a confidence level of -1.

3.1.2 Retirement of addresses in G-NAF

This release has seen the continuation of the process of retiring addresses where they are considered to be either historical and have been replaced by other addresses or are “infill” addresses. “Infill” addresses being addresses created by contributors to complete a street number sequence, however analysis indicates they are not real-world addresses. In the August 2024 update as part of the improvement process, a further 1180 addresses have been retired (ie NSW 660, QLD 440 & VIC 80).

In the November 2024 update, it is proposed to retire approximately 100,000 addresses based on the same criteria for retiring addresses used over the past 12 months. Given the average increase in G-NAF addresses over the past four updates has been approximately 40,000, this will result in a reduction of the number of “live” addresses in G-NAF. As in previous updates, these retired addresses will remain in G-NAF with a confidence of -1.

An estimate of the retired addresses by State and Territory is in the following table.

ACT	300
NSW	41,000
NT	300
QLD	24,000
SA	8,400
TAS	2,000
VIC	14,000
WA	10,000
	100,000

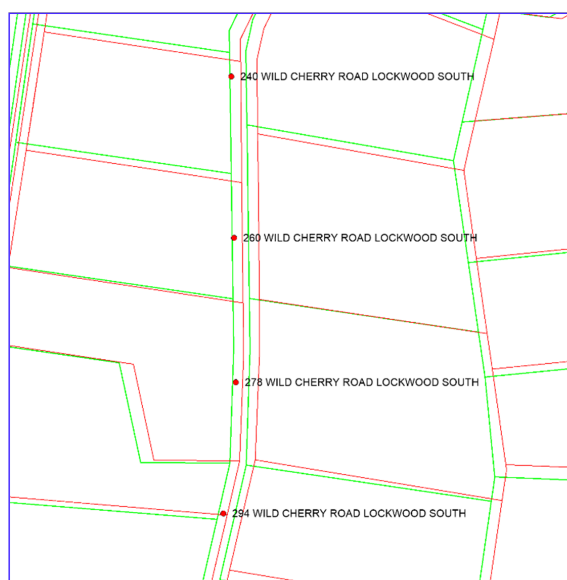
3.1.3 Impact of Cadastral shifts in Victoria on address geocodes

As mentioned in previous updates of G-NAF, the spatial upgrade works being undertaken in Victoria are continuing and as a result of the cadastral shifts generated, the geocodes of many addresses related to those parcels have moved.

In the Aug 2024 update, approximately 25,000 address geocodes have been moved. These movements generally range from 1 metre to 40 metres with the majority being around 2 to 7 metres. The highest concentrations of the movements have been in the following LGA's:

- Alpine Shire
- Benalla Rural City
- Gannawarra Shire
- Hindmarsh Shire
- Indigo Shire
- Mansfield Shire
- Mount Alexander Shire
- Northern Grampians Shire
- Strathbogie Shire
- Towong Shire

As previously noted in the May 2024 update, in a small number of cases the address geocode has not been moved by the jurisdiction resulting in the address geocode being located in the road casement, and an example of the change is shown below. As explained in the February 2024 release notes, this is limited to addresses with a geocode type of PAPS. It is not known at this time when these geocodes will be moved by the jurisdiction back within the parcel boundaries.



Green cadastre is the spatially adjusted cadastre
Red cadastre is the cadastre before adjustment
As can be seen these addresses are now located within the road casement as a result of the 12 metre shift which occurred along this road.

3.2 Notification of Change

3.2.1 Removal of the 'Documents' folder from data packages

Geoscape has moved product descriptions, guides and reports online to <https://docs.geoscape.com.au>
Data packages no longer include the 'Documents' folder.

Issues

4.1 New Issues

4.1.1 ACT Legal Parcel ID and GNAF Property ID updates

It was identified that there were significant mismatches in the links between G-NAF and Geoscape Cadastre and Geoscape Property in the ACT.

For the August 2024 release of G-NAF, there have been some 13,000 updates to the LEGAL_PARCEL_ID attribute and 75,000 updates to the GNAF_PROPERTY_PID attribute in the ACT, and these changes have been undertaken to better align the G-NAF, Geoscape Cadastre and Geoscape Property products.

4.2 Resolved Issues

4.3 Ongoing Issues

4.3.1 Other ongoing changes

- Identifying and creating principal–alias address relationships including address de-duplication.
- Ongoing validation and removal of sensitive information in the building_name, address_site_name and geocode_site_name attributes.
- Targeted address improvements and corrections as required.

Future Considerations

This section outlines enhancements under consideration, but not planned into a specific release. For further details on these please contact Support.

5.1 Changes to Geoscape Cadastre and Property

As noted in the November 2022 G-NAF Release Report, the upgrades to the cadastral and property boundaries in Victoria are ongoing and these changes may affect address geocodes that are relocated more than 1m from their previous geocode as a result of the boundary upgrades.

5.2 Further improvements

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

Summary Statistics

Note

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

Table 1: Geocode Reliability of Principal Addresses Only

Reliability	No of Addresses	Percentage	Change since May 2024
1 (GPS derived address level)		0.00%	
2 (Within address site bdry)	14,375,575	96.71%	46,857
3 (gap geocoded)	133,428	0.90%	(1,571)
4 (street level)	350,368	2.36%	(1,082)
5 (locality level)	4,822	0.03%	(206)
6 (topo level)		0.00%	
No geocode		0.00%	
Total	14,864,193	100.00%	43,998

Table 2: Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since May 2024
Addresses Confidence of 0	2,543,352	17.11%	5,357
Addresses Confidence of 1	2,114,073	14.22%	(2,617)
Addresses Confidence of 2	10,206,768	68.67%	41,258
Total	14,864,193	100.00%	43,998

Table 3: Geocode Reliability of Addresses (Principals and Aliases)

Reliability	No of Addresses	Percentage	Change since May 2024
1 (GPS derived address level)		0.00%	
2 (Within address site bdry)	15,207,992	96.87%	47,206
3 (gap geocoded)	134,320	0.86%	(1,663)
4 (street level)	351,585	2.24%	(1,137)
5 (locality level)	4,872	0.03%	(215)
6 (topo level)		0.00%	
No geocode		0.00%	
Total	15,698,769	100.00%	44,191

Table 4: Address Confidence Levels of Addresses (Principals and Aliases)

Confidence level	No of Addresses	Percentage	Change since May 2024
Addresses Confidence of 0	3,125,593	19.91%	3,813
Addresses Confidence of 1	2,357,152	15.01%	(1,000)
Addresses Confidence of 2	10,216,024	65.08%	41,378
Total	15,698,769	100.00%	44,191

Table 5: New Address ID Summary (Principals and Aliases)

	All new Address IDs	New Principal Address IDs	Updated Addresses IDs	Net new Address IDs
TAS	1,259	1,253	5	1,254
VIC	17,310	16,584	650	16,660
SA	4,388	4,354	662	3,726
WA	5,721	5,685	138	5,583
NT	225	220	7	218
QLD	9,643	9,443	587	9,056
NSW	20,792	20,355	367	20,425
ACT	1,569	1,569	0	1,569
OT	0	0	0	0
TOTAL	60,907	59,463	2,416	58,491

Annex A - Detailed Statistics by Jurisdiction

The following Confidence and Level Geocoded tables show the changes that occur to principal only addresses between the new release (Aug 2024) and the previous release (May 2024) 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 (Address %). The statistics below do not include "retired" addresses (i.e. Confidence = -1).

7.1 Victoria

Table 1: Address Summary - Victoria

Address Summary - Vic	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Aug 2024	4,100,458	3,886,261	26.15%
May 2024	4,087,648	3,874,249	26.14%
Change	12,810	12,012	0.00%
Change %	0.31%	0.31%	

Table 2: Confidence - Victoria

Confidence - Vic	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	2,751,785	70.81%	2,739,830	70.72%	11,955	0.09%
Address Confidence of 1	568,287	14.62%	569,330	14.70%	-1,043	-0.07%
Address Confidence of 0	566,189	14.57%	565,089	14.59%	1,100	-0.02%

Table 3: Level Geocoded - Victoria

Level Geocoded - Vic	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	3,844,511	98.93%	3,832,354	98.92%	12,157	0.01%
Street level geocode	41,253	1.06%	41,300	1.07%	-47	0.00%
Locality level geocode	497	0.01%	595	0.02%	-98	0.00%

7.2 New South Wales

Table 4: Address Summary - New South Wales

Address Summary - NSW	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Aug 2024	4,877,126	4,591,170	30.89%
May 2024	4,860,981	4,575,499	30.87%
Change	16,145	15,671	0.01%
Change %	0.33%	0.34%	

Table 5: Confidence - New South Wales

Confidence - NSW	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	3,085,982	67.22%	3,075,379	67.21%	10,603	0.00%
Address Confidence of 1	700,267	15.25%	698,867	15.27%	1,400	-0.02%
Address Confidence of 0	804,921	17.53%	801,253	17.51%	3,668	0.02%

Table 6: Level Geocoded - New South Wales

Level Geocoded - NSW	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	4,446,423	96.85%	4,429,926	96.82%	16,497	0.03%
Street level geocode	143,594	3.13%	144,196	3.15%	-602	-0.02%
Locality level geocode	1,153	0.03%	1,377	0.03%	-224	0.00%

7.3 South Australia

Table 7: Address Summary - South Australia

Address Summary - SA	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Aug 2024	1,149,371	1,114,307	7.50%
May 2024	1,147,009	1,111,856	7.50%
Change	2,362	2,451	-0.01%
Change %	0.21%	0.22%	

Table 8: Confidence - South Australia

Confidence - SA	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	751,730	67.46%	749,874	67.44%	1,856	0.02%
Address Confidence of 1	136,134	12.22%	135,541	12.19%	593	0.03%
Address Confidence of 0	226,443	20.32%	226,441	20.37%	2	-0.04%

Table 9: Level Geocoded - South Australia

Level Geocoded - SA	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	1,086,863	97.54%	1,084,311	97.52%	2,552	0.01%
Street level geocode	27,274	2.45%	27,385	2.46%	-111	-0.02%
Locality level geocode	170	0.02%	160	0.01%	10	0.00%

7.4 Tasmania

Table 10: Address Summary - Tasmania

Address Summary - Tas	All Addresses	Principal Addresses	% National Total
	No of Addresses	No of Addresses	
Aug 2024	353,567	345,425	2.32%
May 2024	352,576	344,312	2.32%
Change	991	1,113	0.00%
Change %	0.28%	0.32%	

Table 11: Confidence - Tasmania

Confidence - Tas	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	257,990	74.69%	256,902	74.61%	1,088	0.07%
Address Confidence of 1	41,677	12.07%	41,718	12.12%	-41	-0.05%
Address Confidence of 0	45,758	13.25%	45,692	13.27%	66	-0.02%

Table 12: Level Geocoded - Tasmania

Level Geocoded - Tas	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	333,812	96.64%	332,730	96.64%	1,082	0.00%
Street level geocode	11,486	3.33%	11,466	3.33%	20	0.00%
Locality level geocode	127	0.04%	116	0.03%	11	0.00%

7.5 Western Australia

Table 13: Address Summary - Western Australia

Address Summary - WA	All Addresses	Principal Addresses	% National Total
	No of Addresses	No of Addresses	
Aug 2024	1,564,429	1,503,152	10.11%
May 2024	1,559,231	1,497,974	10.11%
Change	5,198	5,178	0.00%
Change %	0.33%	0.35%	

Table 14: Confidence - Western Australia

Confidence - WA	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	1,106,040	73.58%	1,101,766	73.55%	4,274	0.03%
Address Confidence of 1	170,467	11.34%	170,548	11.39%	-81	-0.04%
Address Confidence of 0	226,645	15.08%	225,660	15.06%	985	0.01%

Table 15: Level Geocoded - Western Australia

Level Geocoded - WA	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	1,472,576	97.97%	1,467,231	97.95%	5,345	0.02%
Street level geocode	30,461	2.03%	30,648	2.05%	-187	-0.02%
Locality level geocode	115	0.01%	95	0.01%	20	0.00%

7.6 Australian Capital Territory

Table 16: Address Summary - Australian Capital Territory

Address Summary - ACT	All Addresses	Principal Addresses	% National Total
	No of Addresses	No of Addresses	
Aug 2024	247,134	241,872	1.63%
May 2024	245,644	240,499	1.62%
Change	1,490	1,373	0.00%
Change %	0.61%	0.57%	

Table 17: Confidence - Australian Capital Territory

Confidence - ACT	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	196,457	81.22%	195,412	81.25%	1,045	-0.03%
Address Confidence of 1	16,240	6.71%	16,187	6.73%	53	-0.02%
Address Confidence of 0	29,175	12.06%	28,900	12.02%	275	0.05%

Table 18: Level Geocoded - Australian Capital Territory

Level Geocoded - ACT	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	240,454	99.41%	239,163	99.44%	1,291	-0.03%
Street level geocode	1,418	0.59%	1,336	0.56%	82	0.03%
Locality level geocode	0	0.00%	0	0.00%	0	0.00%

7.7 Queensland

Table 19: Address Summary - Queensland

Address Summary - QLD	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Aug 2024	3,289,501	3,068,434	20.64%
May 2024	3,284,511	3,062,423	20.66%
Change	4,990	6,011	-0.02%
Change %	0.15%	0.20%	

Table 20: Confidence - Queensland

Confidence - QLD	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	1,991,025	64.89%	1,980,772	64.68%	10,253	0.21%
Address Confidence of 1	454,860	14.82%	458,391	14.97%	-3,531	-0.14%
Address Confidence of 0	622,549	20.29%	623,260	20.35%	-711	-0.06%

Table 21: Level Geocoded - Queensland

Level Geocoded - QLD	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	2,975,054	96.96%	2,968,870	96.95%	6,184	0.01%
Street level geocode	90,750	2.96%	91,299	2.98%	-549	-0.02%
Locality level geocode	2,630	0.09%	2,254	0.07%	376	0.01%

7.8 Northern Territory

Table 22: Address Summary - Northern Territory

Address Summary - NT	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Aug 2024	113,360	109,789	0.74%
May 2024	113,155	109,600	0.74%
Change	205	189	0.00%
Change %	0.18%	0.17%	

Table 23: Confidence - Northern Territory

Confidence - NT	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	64,256	58.53%	64,072	58.46%	184	0.07%
Address Confidence of 1	25,465	23.19%	25,432	23.20%	33	-0.01%
Address Confidence of 0	20,068	18.28%	20,096	18.34%	-28	-0.06%

Table 24: Level Geocoded - Northern Territory

Level Geocoded - NT	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	105,938	96.49%	105,760	96.50%	178	0.00%
Street level geocode	3,793	3.45%	3,481	3.18%	312	0.28%
Locality level geocode	58	0.05%	359	0.33%	-301	-0.27%

7.9 Other Territories

Table 25: Address Summary - Other Territories

Address Summary - OT	All Addresses	Principal Addresses	% National Total
	No of Addresses	No of Addresses	
Aug 2024	3,823	3,783	0.03%
May 2024	3,823	3,783	0.03%
Change	0	0	0.00%
Change %	0.00%	0.00%	

Table 26: Confidence - Other Territories

Confidence - OT	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Address Confidence of 2	1,503	39.73%	1,503	39.73%	0	0.00%
Address Confidence of 1	676	17.87%	676	17.87%	0	0.00%
Address Confidence of 0	1,604	42.40%	1,604	42.40%	0	0.00%

Table 27: Level Geocoded - Other Territories

Level Geocoded - OT	Aug 2024		May 2024		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Property level geocode	3,372	89.14%	3,372	89.14%	0	0.00%
Street level geocode	339	8.96%	339	8.96%	0	0.00%
Locality level geocode	72	1.90%	72	1.90%	0	0.00%