



G-NAF

Data Release Report

November 2023

Geoscape

19 February 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 February 2024 update of G-NAF shows an increase of 42,549 addresses overall (+0.27%). The total number of addresses in G-NAF now stands at 15,608,317 of which 14,779,189 or 94.69% are principal.
- The confidence level distribution nationally for the February 2024 release has the confidence 2 addresses increasing by 29,063 from the November 2023 release with the total percentage of confidence 2 addresses increasing to 68.51% of principal addresses. The number of confidence 1 addresses has increased by 3,110 and represent 14.32% of all principal addresses while confidence 0 addresses have increased by 8,263 and represent 17.18% of addresses.
- With respect to address reliability, there was an increase of 42,559 address level, a decrease of 2,430 in street locality addresses and an increase of 307 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 97.57% address level, 2.40% street locality addresses and 0.03% locality addresses.

2.1 Release Summary

2.1.1 Update summary

- Retirement of addresses in Northern Territory and Queensland.
- Impact of cadastral shifts in Victoria.
- For details on these updates, refer to the Updates section in this report.

2.1.2 Issues summary

- For more information refer to the Updates 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 Northern Territory 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. Focus for the February 2024 Release has been applied to the Northern Territory where 850 addresses have been retired and in Queensland where 450 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 Impact of Cadastral shifts in Victoria on address geocodes

As mentioned in previous G-NAF Release reports, the Victorian Government’s spatial upgrade of cadastre has been occurring over the year. Whilst changes in the urban areas have only had a small impact on address geocodes, the shifts in rural areas are larger, resulting in more noticeable changes to many G-NAF address geocodes. The movements in geocodes range from 1 to 40 metres. Addresses with a geocode_type_code of PAPS (i.e. distance-based addresses) have not been moved as a result of the cadastre shift and in some cases, the address geocode may now be located outside of the parcel in the road easement. It is anticipated these will be moved at a later date to be consistent with the upgraded cadastre.

3.2 Notification of Change

3.2.1 Removal of the ‘Documents’ folder from data packages

From November 2023, Geoscape will be progressively moving product descriptions, guides and reports online to docs.geoscape.com.au

Commencing with the May 2024 release, data packages will no longer include the Documents folder.

Issues

4.1 New Issues

There are no new issues to report for the February 2024 G-NAF Release

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 Nov 2023
1 (GPS derived address level)		0.00%	
2 (Within address site boundary)	14,281,902	96.64%	44,660
3 (gap geocoded)	138,377	0.94%	(2,101)
4 (street level)	354,034	2.40%	(2,430)
5 (locality level)	4,876	0.03%	307
6 (topo level)		0.00%	
No geocode		0.00%	
Total	14,779,189	100%	40,436

Table 2: Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since Nov 2023
Addresses with a Confidence of 0	2,538,523	17.18%	8,263
Addresses with a Confidence of 1	2,115,909	14.32%	3,110
Addresses with a Confidence of 2	10,124,757	68.51%	29,063
Total	14,779,189	100%	40,436

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

Reliability	No of Addresses	Percentage	Change since Nov 2023
1 (GPS derived address level)		0.00%	
2 (Within address site boundary)	15,108,746	96.80%	46,769
3 (gap geocoded)	139,389	0.89%	(2,096)
4 (street level)	355,255	2.28%	(2,430)
5 (locality level)	4,927	0.03%	306
6 (topo level)		0.00%	
No geocode		0.00%	
Total	15,608,317	100%	42,549

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

Confidence level	No of Addresses	Percentage	Change since Nov 2023
Addresses with a Confidence of 0	3,119,790	19.99%	8,904
Addresses with a Confidence of 1	2,354,702	15.09%	4,468
Addresses with a Confidence of 2	10,133,825	64.93%	29,177
Total	15,608,317	100.00%	42,549

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	1,163	1,146	11	1,152
VIC	13,853	13,510	267	13,586
SA	4,899	4,874	620	4,279
WA	4,245	4,232	31	4,214
NT	667	662	0	667
QLD	14,298	14,079	1,067	13,231
NSW	16,417	16,071	330	16,087
ACT	779	687	1	778
OT	0	0	0	0
TOTAL	56,321	55,261	2,327	53,994

Annex A - Detailed Statistics by Jurisdiction

The following tables show the changes that occur to principal only addresses between the new release (November 2023) and the previous release (August 2023) 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
Feb 2024	4,071,204	3,860,391	26.12%
Nov 2023	4,059,741	3,849,212	26.12%
Change	11,463	11,179	0.00%
Change %	0.28%	0.29%	

Table 2: Confidence - Victoria

Confidence - Vic	Feb 2024			Nov 2023			Change		
	No of dresses	Ad- Address %	Address %	No of dresses	Ad- Address %	Address %	No of dresses	Ad- Address %	Address %
Addresses with a Confidence of 2	2,730,211	70.72%		2,720,206	70.67%		10,005		0.05%
Addresses with a Confidence of 1	569,295	14.75%		568,770	14.78%		525		-0.03%
Addresses with a Confidence of 0	560,885	14.53%		560,236	14.55%		649		-0.03%

Table 3: Level Geocoded - Victoria

Level Geocoded - Vic	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	3,817,986		98.90%	3,806,575		98.89%	11,411		0.01%
Addresses geocoded to Street level	41,814		1.08%	41,811		1.09%	3		0.00%
Addresses geocoded to Locality level	591		0.02%	826		0.02%	-235		-0.01%

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
Feb 2024	4,848,152	4,562,715	30.87%
Nov 2023	4,834,136	4,549,305	30.87%
Change	14,016	13,410	0.01%
Change %	0.29%	0.29%	

Table 5: Confidence - New South Wales

Confidence - NSW	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	3,061,073		67.09%	3,053,879		67.13%	7,194		-0.04%
Addresses with a Confidence of 1	698,891		15.32%	697,811		15.34%	1,080		-0.02%
Addresses with a Confidence of 0	802,751		17.59%	797,615		17.53%	5,136		0.06%

Table 6: Level Geocoded - New South Wales

Level Geocoded - NSW	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	4,417,099		96.81%	4,403,628		96.80%	13,471		0.01%
Addresses geocoded to Street level	144,284		3.16%	144,702		3.18%	-418		-0.02%
Addresses geocoded to Locality level	1332		0.03%	975		0.02%	357		0.01%

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
Feb 2024	1,144,329	1,109,140	7.50%
Nov 2023	1,142,277	1,106,970	7.51%
Change	2,052	2,170	-0.01%
Change %	0.18%	0.20%	

Table 8: Confidence - South Australia

Confidence - SA	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	746,516	67.31%	67.31%	744,197	67.23%	67.23%	2,319		0.08%
Addresses with a Confidence of 1	136,969	12.35%	12.35%	136,989	12.38%	12.38%	-20		-0.03%
Addresses with a Confidence of 0	225,655	20.35%	20.35%	225,784	20.40%	20.40%	-129		-0.05%

Table 9: Level Geocoded - South Australia

Level Geocoded - SA	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	1,082,023	97.56%	97.56%	1,079,043	97.48%	97.48%	2,980		0.08%
Addresses geocoded to Street level	26,956	2.43%	2.43%	27,762	2.51%	2.51%	-806		-0.08%
Addresses geocoded to Locality level	161	0.01%	0.01%	165	0.01%	0.01%	-4		0.00%

7.4 Tasmania

Table 10: Address Summary - Tasmania

Address Summary - Tas	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Feb 2024	351,454	343,150	2.32%
Nov 2023	350,540	342,269	2.32%
Change	914	881	0.00%
Change %	0.26%	0.26%	

Table 11: Confidence - Tasmania

Confidence - Tas	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	255,790		74.54%	254,806		74.45%	984		0.10%
Addresses with a Confidence of 1	42,117		12.27%	42,024		12.28%	93		0.00%
Addresses with a Confidence of 0	45,243		13.18%	45,439		13.28%	-196		-0.09%

Table 12: Level Geocoded - Tasmania

Level Geocoded - Tas	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	331,512		96.61%	330,585		96.59%	927		0.02%
Addresses geocoded to Street level	11,529		3.36%	11,601		3.39%	-72		-0.03%
Addresses geocoded to Locality level	109		0.03%	83		0.02%	26		0.01%

7.5 Western Australia

Table 13: Address Summary - Western Australia

Address Summary - WA	All Addresses	Principal Addresses	
	No of Addresses	No of Addresses	% National Total
Feb 2024	1,555,375	1,494,166	10.11%
Nov 2023	1,551,450	1,490,219	10.11%
Change	3,925	3,947	0.00%
Change %	0.25%	0.26%	

Table 14: Confidence - Western Australia

Confidence - WA	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	1,098,035		73.49%	1,094,845		73.47%	3,190		0.02%
Addresses with a Confidence of 1	170,257		11.39%	170,807		11.46%	-550		-0.07%
Addresses with a Confidence of 0	225,874		15.12%	224,567		15.07%	1,307		0.05%

Table 15: Level Geocoded - Western Australia

Level Geocoded - WA	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	1,463,471		97.95%	1,459,669		97.95%	3,802		0.00%
Addresses geocoded to Street level	30,581		2.05%	30,461		2.04%	120		0.00%
Addresses geocoded to Locality level	114		0.01%	89		0.01%	25		0.00%

7.6 Australian Capital Territory

Table 16: Address Summary - Australian Capital Territory

Address Summary - ACT	All Addresses		Principal Addresses
	No of Addresses	No of Addresses	% National Total
Feb 2024	244,034	238,942	1.62%
Nov 2023	243,793	238,793	1.62%
Change	241	149	0.00%
Change %	0.10%	0.06%	

Table 17: Confidence - Australian Capital Territory

Confidence - ACT	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	194,217		81.28%	194,094		81.28%	123		0.00%
Addresses with a Confidence of 1	15,810		6.62%	15,690		6.57%	120		0.05%
Addresses with a Confidence of 0	28,915		12.10%	29,009		12.15%	-94		-0.05%

Table 18: Level Geocoded - Australian Capital Territory

Level Geocoded - ACT	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	237,601		99.44%	237,451		99.44%	150		0.00%
Addresses geocoded to Street level	1,341		0.56%	1,342		0.56%	-1		0.00%
Addresses geocoded to Locality level	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
Feb 2024	3,277,029	3,057,538	20.69%
Nov 2023	3,266,889	3,048,405	20.68%
Change	10,140	9,133	0.01%
Change %	0.31%	0.30%	

Table 20: Confidence - Queensland

Confidence - QLD	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	1,973,606	64.55%	64.55%	1,968,694	64.58%	64.58%	4,912		-0.03%
Addresses with a Confidence of 1	456,364	14.93%	14.93%	454,097	14.90%	14.90%	2,267		0.03%
Addresses with a Confidence of 0	627,568	20.53%	20.53%	625,614	20.52%	20.52%	1,954		0.00%

Table 21: Level Geocoded - Queensland

Level Geocoded - QLD	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	2,961,702	96.87%	96.87%	2,952,700	96.86%	96.86%	9,002		0.01%
Addresses geocoded to Street level	93,696	3.06%	3.06%	93,703	3.07%	3.07%	-7		-0.01%
Addresses geocoded to Locality level	2140	0.07%	0.07%	2,002	0.07%	0.07%	138		0.00%

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
Feb 2024	112,917	109,364	0.74%
Nov 2023	113,119	109,797	0.74%
Change	-202	-433	0.00%
Change %	-0.18%	-0.39%	

Table 23: Confidence - Northern Territory

Confidence - NT	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	63,806	58.34%	58.34%	63,470	57.81%	57.81%	336		0.54%
Addresses with a Confidence of 1	25,530	23.34%	23.34%	25,935	23.62%	23.62%	-405		-0.28%
Addresses with a Confidence of 0	20,028	18.31%	18.31%	20,392	18.57%	18.57%	-364		-0.26%

Table 24: Level Geocoded - Northern Territory

Level Geocoded - NT	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses geocoded to Property level	105,513	96.48%	96.48%	104,697	95.36%	95.36%	816		1.12%
Addresses geocoded to Street level	3,494	3.19%	3.19%	4,743	4.32%	4.32%	-1,249		-1.12%
Addresses geocoded to Locality level	357	0.33%	0.33%	357	0.33%	0.33%	0		0.00%

7.9 Other Territories

Table 25: Address Summary - Other Territories

Address Summary - OT	All Addresses	Principal Addresses	
	No of Addresses	No of Addresses	% National Total
Feb 2024	3,823	3,783	0.03%
Nov 2023	3,823	3,783	0.03%
Change	0	0	0.00%
Change %	0.00%	0.00%	

Table 26: Confidence - Other Territories

Confidence - OT	Feb 2024			Nov 2023			Change		
	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %	No of dresses	Ad-Address %	Address %
Addresses with a Confidence of 2	1,503	39.73%	39.73%	1,503	39.73%	39.73%	0		0.00%
Addresses with a Confidence of 1	676	17.87%	17.87%	676	17.87%	17.87%	0		0.00%
Addresses with a Confidence of 0	1,604	42.40%	42.40%	1,604	42.40%	42.40%	0		0.00%

Table 27: Level Geocoded - Other Territories

Level Geocoded - OT	Feb 2024			Nov 2023			Change		
	No of dresses	Ad- dress %	Address %	No of dresses	Ad- dress %	Address %	No of dresses	Ad- dress %	Address %
Addresses geocoded to Property level	3372		89.14%	3372		89.14%	0		0.00%
Addresses geocoded to Street level	339		8.96%	339		8.96%	0		0.00%
Addresses geocoded to Locality level	72		1.90%	72		1.90%	0		0.00%