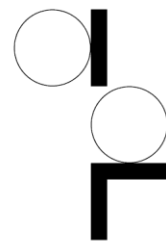
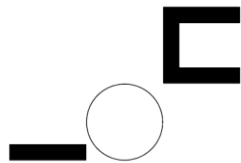
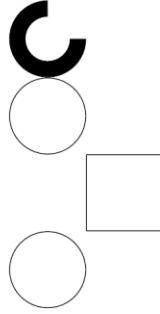


G-NAF

Data Release Report
August 2023



Geoscape



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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.

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.

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.

References

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

Contact

Geoscape Support

Geoscape Australia

Email: support@geoscape.com.au

Portal: support.geoscape.com.au

Web: www.geoscape.com.au

Overview

- Nationally, the August 2023 update of G-NAF shows an increase of 45,413 addresses overall (+0.29%). The total number of addresses in G-NAF now stands at 15,530,436 of which 14,704,939 or 94.68% are principal.
- The confidence level distribution nationally for the August 2023 release has the confidence 2 addresses increasing by 37,809 from the May 2023 release with the total percentage of confidence 2 addresses increasing to 68.37% of principal addresses. The number of confidence 1 addresses has increased by 478 and represent 14.33% of all principal addresses while confidence 0 addresses have increased by 6,170 and represent 17.30% of addresses.
- With respect to address reliability, there was an increase of 48,316 address level, a decrease of 3,580 in street locality addresses and a decrease of 279 in locality level addresses. The reliability of principal addresses in G-NAF is now made up of 97.52% address level, 2.45% street locality addresses and 0.03% locality addresses.

Update summary

- G-NAF complex site updates.
- For details on these updates, refer to the Updates section in this report.

Issues summary

- Addresses retired from G-NAF.
- Mismatches between Address Localities and the Geoscape Locality dataset
- For more information refer to the Updates section on these issues.

Future Considerations

- Changes to the ADDRESS_TYPE field and ADDRESS_TYPE_AUT table.
- Changes to Geoscape Cadastre and Property.
- Geoscape intends to alter the way product documentation is provided for the November 2023 release and onwards. We are looking to provide release reports and product guides/descriptions online, rather than packaged with the data. Geoscape will provide further information on this change closer to the changeover period.
- Details of these changes can be found under the 'Future Considerations' section of this report.

Updates

G-NAF Complex Site Updates

There is one additional site to those listed in the November 2021 and February 2022 Release Reports using the building name as part of the merge criteria, and that is 234 Maitland Vale Road, Maitland Vale, NSW. The addresses with building names at that site are:

ADDRESS_DETAIL_PID	BUILDING_NAME	ADDRESS_STRING	COMPLEX_ADDRESS
GANSW705273343	BONNIEVIEW	234 MAITLAND VALE ROAD, MAITLAND VALE	Y
GANSW721322047	ABINGDON	234 MAITLAND VALE ROAD, MAITLAND VALE	Y
GANSW721326879	HUSKVANAR	234 MAITLAND VALE ROAD, MAITLAND VALE	Y

Other ongoing changes

- As part of the ongoing review into non-parcel level addresses in G-NAF, some 1,600 addresses were flagged as retired (i.e. confidence -1) and 1,140 addresses in WA were allocated an alias status as part of this update.
- 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.

Issues

Addresses Retired from G-NAF

Following the May 2023 release of G-NAF, the South Australian Jurisdiction identified two lot numbered addresses that were incorrect, and these addresses have been rectified and re-supplied. The incorrect addresses have been removed from G-NAF rather than retain them as -1 in order to mitigate the possibility of address duplication.

The ADDRESS_DETAIL_PIDs of the removed addresses are:

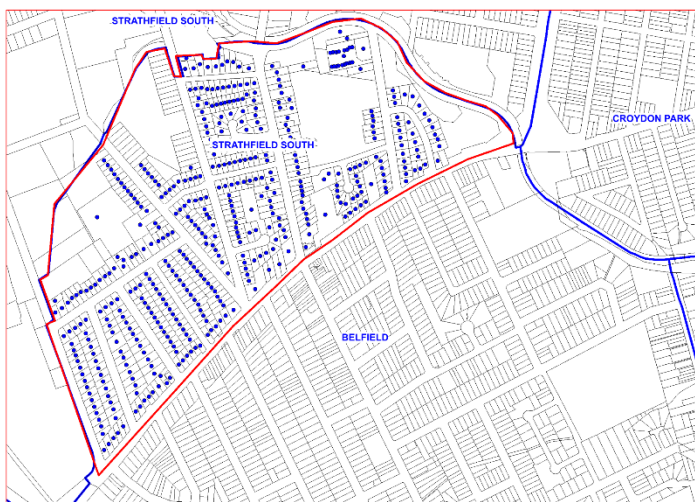
ADDRESS_DETAIL_PID
GASA_721199320
GASA_721199974

The ADDRESS_DETAIL_PIDs of the replacement addresses are:

ADDRESS_DETAIL_PID
GASA_721274629
GASA_721274993

Mismatches between Address localities and Geoscape Locality dataset

G-NAF uses the Locality dataset as a reference file as part of the address verification process. In this release, the locality dataset used by the G-NAF maintenance process had not been updated in time to reflect a significant change in a locality boundary in New South Wales. As a result, some 800 addresses that G-NAF currently has as being in the locality of BELFIELD NSW, are actually in the locality of SOUTH STRATHFIELD, NSW. An image showing the addresses impacted is provided below.



Future Considerations

Changes to the ADDRESS_TYPE field and ADDRESS_TYPE_AUT table

The review of the ADDRESS_TYPE code that was mentioned in the May2023 release report has been completed and changes to this field will be made in the November 2023 release of G-NAF.

The changes to be made are as follows:

- Remove several sub types from the ADDRESS_TYPE_AUT table. The table will contain just three rows describing URBAN, RURAL and UNKNOWN.
- Update the ADDRESS_TYPE of existing addresses to align with the updated AUT table.
- Update the ADDRESS_TYPE of addresses with a null address_type to UNKNOWN.

These changes will be reflected in the G-NAF Product Description.

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 to affect address geocodes that are relocated more than 1m from their previous geocode as a result of the boundary upgrades.

Move documentation online

Commencing with the November 2023 release, Geoscape intends to alter the way documentation is provided with data releases. We are looking to provide release reports and product guides/descriptions online, rather than packaged with the data. Geoscape will provide further information on this change closer to the changeover period.

New data download portal

For Geoscape data customers, Geoscape plans to release a new data download portal in September. More information on this service will be provided to affected customers closer to the release date.

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)

Geocode Reliability of Principal Addresses Only

Reliability	No of Addresses	Percentage	Change since May 2023
1 (GPS derived address level)	-	0.00%	-
2 (Within address site boundary)	14,197,278	96.55%	51,314
3 (gap geocoded)	142,406	0.97%	(2,998)
4 (street level)	360,449	2.45%	(3,580)
5 (locality level)	4,806	0.03%	(279)
6 (topo level)	-	0.00%	-
No geocode	-	0.00%	-
Total	14,704,939	100.00%	44,457

Address Confidence Levels of Principal Addresses Only

Confidence level	No of Addresses	Percentage	Change since May 2023
Addresses with a Confidence of 0	2,543,714	17.30%	6,170
Addresses with a Confidence of 1	2,107,065	14.33%	478
Addresses with a Confidence of 2	10,054,160	68.37%	37,809
Total	14,704,939	100%	44,457

Geocode Reliability of Addresses (Principals and Aliases)

Reliability	No of Addresses	Percentage	Change since May 2023
1 (GPS derived address level)	-	0.00%	-
2 (Within address site boundary)	15,020,495	96.72%	52,284
3 (gap geocoded)	143,414	0.92%	(2,999)
4 (street level)	361,672	2.33%	(3,593)
5 (locality level)	4,855	0.03%	(279)
6 (topo level)	-	0.00%	-
No geocode	-	0.00%	-
Total	15,530,436	100%	45,413

Address Confidence Levels of Addresses (Principals and Aliases)

Confidence level	No of Addresses	Percentage	Change since May 2023
Addresses with a Confidence of 0	3,124,385	20.12%	6,117
Addresses with a Confidence of 1	2,343,041	15.09%	1,360
Addresses with a Confidence of 2	10,063,010	64.80%	37,936
Total	15,530,436	100.00%	45,413

New Address ID Summary (Principals and Aliases)

	All new Address IDs	New Principal Address IDs	Updated Addresses IDs	Net new Address IDs
TAS	1,214	1,205	20	1,194
VIC	23,297	22,436	494	22,803
SA	5,052	5,018	1,324	3,728
WA	4,639	4,630	50	4,589
NT	296	294	0	296
QLD	13,268	12,894	1,233	12,035
NSW	19,177	18,822	1,387	17,790
ACT	1,379	1,377	0	1,379
OT	0	0	0	0
TOTAL	68,322	66,676	4,508	63,814

Annex A – Detailed Statistics by Jurisdiction

The following tables show the changes that occur to principal only addresses between the new release (August 2023) and the previous release (May 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).

Victoria

Address Summary - Vic	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	4,044,770		3,834,855	26.08%
May 2023	4,027,786		3,818,152	26.04%
Change	16,984		16,703	0.03%
Change %	0.42%		0.44%	

Confidence - Vic	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	2,705,599	70.55%	2,691,041	70.48%	14,558	0.07%
Addresses with a Confidence of 1	566,155	14.76%	570,303	14.94%	-4,148	-0.17%
Addresses with a Confidence of 0	563,101	14.68%	556,808	14.58%	6,293	0.10%

Level Geocoded - Vic	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	3,792,191	98.89%	3,774,293	98.85%	17,898	0.04%
Addresses geocoded to Street level	42,149	1.10%	43,072	1.13%	-923	-0.03%
Addresses geocoded to Locality level	515	0.01%	787	0.02%	-272	-0.01%

New South Wales

Address Summary - NSW	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	4,823,227		4,539,189	30.87%
May 2023	4,809,549		4,525,195	30.87%
Change	13,678		13,994	0.00%
Change %	0.28%		0.31%	

Confidence - NSW	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	3,042,818	67.03%	3,033,584	67.04%	9,234	0.00%
Addresses with a Confidence of 1	697,585	15.37%	695,893	15.38%	1,692	-0.01%
Addresses with a Confidence of 0	798,786	17.60%	795,718	17.58%	3,068	0.01%

Level Geocoded - NSW	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	4,392,738	96.77%	4,379,042	96.77%	13,696	0.00%
Addresses geocoded to Street level	145,094	3.20%	145,088	3.21%	6	-0.01%
Addresses geocoded to Locality level	1,357	0.03%	1,065	0.02%	292	0.01%

South Australia

Address Summary - SA	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	1,140,774		1,105,038	7.51%
May 2023	1,138,719		1,103,252	7.53%
Change	2,055		1,786	-0.01%
Change %	0.18%		0.16%	

Confidence - SA	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	740,951	67.05%	739,356	67.02%	1,595	0.04%
Addresses with a Confidence of 1	135,861	12.29%	135,666	12.30%	195	0.00%
Addresses with a Confidence of 0	228,226	20.65%	228,230	20.69%	-4	-0.03%

Level Geocoded - SA	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	1,077,086	97.47%	1,075,040	97.44%	2,046	0.03%
Addresses geocoded to Street level	27,740	2.51%	28,032	2.54%	-292	-0.03%
Addresses geocoded to Locality level	212	0.02%	180	0.02%	32	0.00%

Tasmania

Address Summary - Tas	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	353,526		345,640	2.35%
May 2023	352,595		344,658	2.35%
Change	931		982	0.00%
Change %	0.26%		0.28%	

Confidence - Tas	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	253,700	73.40%	252,433	73.24%	1,267	0.16%
Addresses with a Confidence of 1	42,124	12.19%	41,872	12.15%	252	0.04%
Addresses with a Confidence of 0	49,816	14.41%	50,353	14.61%	-537	-0.20%

Level Geocoded - Tas	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	330,718	95.68%	329,734	95.67%	984	0.01%
Addresses geocoded to Street level	14,816	4.29%	14,818	4.30%	-2	-0.01%
Addresses geocoded to Locality level	106	0.03%	106	0.03%	0	0.00%

Western Australia

Address Summary - WA	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	1,549,584		1,488,354	10.12%
May 2023	1,547,111		1,486,927	10.14%
Change	2,473		1,427	-0.02%
Change %	0.16%		0.10%	

Confidence - WA	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	1,091,303	73.32%	1,088,687	73.22%	2,616	0.11%
Addresses with a Confidence of 1	170,688	11.47%	169,904	11.43%	784	0.04%
Addresses with a Confidence of 0	226,363	15.21%	228,336	15.36%	-1,973	-0.15%

Level Geocoded - WA	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	1,457,255	97.91%	1,454,444	97.82%	2,811	0.10%
Addresses geocoded to Street level	30,978	2.08%	32,394	2.18%	-1,416	-0.10%
Addresses geocoded to Locality level	121	0.01%	89	0.01%	32	0.00%

Australian Capital Territory

Address Summary - ACT	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	242,942		237,970	1.62%
May 2023	241,996		236,893	1.62%
Change	946		1,077	0.00%
Change %	0.39%		0.45%	

Confidence - ACT	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	192,223	80.78%	191,668	80.91%	555	-0.13%
Addresses with a Confidence of 1	16,286	6.84%	15,962	6.74%	324	0.11%
Addresses with a Confidence of 0	29,461	12.38%	29,263	12.35%	198	0.03%

Level Geocoded - ACT	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	236,632	99.44%	235,558	99.44%	1,074	0.00%
Addresses geocoded to Street level	1,338	0.56%	1,335	0.56%	3	0.00%
Addresses geocoded to Locality level	0	0.00%	0	0.00%	0	0.00%

Queensland

Address Summary - QLD	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	3,258,783		3,040,425	20.68%
May 2023	3,250,723		3,032,216	20.68%
Change	8,060		8,209	-0.01%
Change %	0.25%		0.27%	

Confidence - QLD	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	1,962,765	64.56%	1,955,158	64.48%	7,607	0.08%
Addresses with a Confidence of 1	451,731	14.86%	450,315	14.85%	1,416	0.01%
Addresses with a Confidence of 0	625,929	20.59%	626,743	20.67%	-814	-0.08%

Level Geocoded - QLD	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	2,945,095	96.86%	2,935,510	96.81%	9,585	0.05%
Addresses geocoded to Street level	93,275	3.07%	94,281	3.11%	-1,006	-0.04%
Addresses geocoded to Locality level	2,055	0.07%	2,425	0.08%	-370	-0.01%

Northern Territory

Address Summary - NT	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	112,990		109,673	0.75%
May 2023	112,704		109,394	0.75%
Change	286		279	0.00%
Change %	0.25%		0.26%	

Confidence - NT	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	63,345	57.76%	62,968	57.56%	377	0.20%
Addresses with a Confidence of 1	25,925	23.64%	25,962	23.73%	-37	-0.09%
Addresses with a Confidence of 0	20,403	18.60%	20,464	18.71%	-61	-0.10%

Level Geocoded - NT	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	104,599	95.37%	104,377	95.41%	222	-0.04%
Addresses geocoded to Street level	4,719	4.30%	4,669	4.27%	50	0.03%
Addresses geocoded to Locality level	355	0.32%	348	0.32%	7	0.01%

Other Territories

Address Summary - OT	All Addresses		Principal Addresses	
	No of Addresses		No of Addresses	% National Total
Aug 2023	3,840		3,795	0.03%
May 2023	3,840		3,795	0.03%
Change	0		0	0.00%
Change %	0.00%		0.00%	

Confidence - OT	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses with a Confidence of 2	1,456	38.37%	1,456	38.37%	0	0.00%
Addresses with a Confidence of 1	710	18.71%	710	18.71%	0	0.00%
Addresses with a Confidence of 0	1,629	42.92%	1,629	42.92%	0	0.00%

Level Geocoded - OT	Aug 2023		May 2023		Change	
	No of Addresses	Address %	No of Addresses	Address %	No of Addresses	Address %
Addresses geocoded to Property level	3,370	88.80%	3,370	88.80%	0	0.00%
Addresses geocoded to Street level	340	8.96%	340	8.96%	0	0.00%
Addresses geocoded to Locality level	85	2.24%	85	2.24%	0	0.00%