

References

- G-NAF Product Description (<u>https://geoscape.com.au/documentation/</u>)
- G-NAF Core (<u>https://geoscape.com.au/data/g-naf-core/</u>)

Overview

The Geocoded National Address File (G-NAF) is Australia's most trusted, geocoded address file. Over 50 million contributed addresses are distilled into more than 15.2 million G-NAF addresses every quarter. It contains the state, suburb, street, number and coordinate reference (or "geocode") for street addresses in Australia. G-NAF does not contain any personal information or details relating to an individual.

G-NAF Core reduces the complexity of G-NAF by delivering the data in a simplified table model. This reduces the need to select fields and build data relationships to access G-NAF's essential address data, making it easier to use with less technical effort.

Technical Description

Data format

G-NAF Core is provided as text files in pipe ("|") separated format. The files are significant in size and are unlikely to open using standard home or office spreadsheet applications.

Retired address file

G-NAF Core contains two files, one containing current active addresses (GNAF_CORE) and the other containing `retired' addresses (GNAF_CORE_RETIRED)

A retired address is an address that was previously active in G-NAF but is now no longer supplied by any of the G-NAF contributors. (-1 CONFIDENCE value in G-NAF)

In some cases, a retired address may have been replaced with an updated address with a new locality or street name.

G-NAF to G-NAF Core relationships

The accompanying Data Dictionary below contains a description of the mappings between G-NAF and G-NAF Core fields.

Geocodes

A 'geocode' is a point feature for an address described as a coordinate (LATITUDE/LONGITUDE).

Although G-NAF may have multiple geocodes representing various real-world features at an address (e.g. property centre, access point, building centre), G-NAF Core only provides the G-NAF 'default' geocode for each address. The GEOCODE_TYPE attribute describes the type of geocode applied to the address. This is typically the centre of the land parcel/property.

The coordinates in G-NAF Core reference the GDA2020 datum. <u>Click here</u> for more information about the GDA2020 datum.

Address label

G-NAF Core includes an 'ADDRESS_LABEL' attribute which is a formatted, readable address label combining an address's elements into a single descriptive string.

Other relationships

G-NAF Core includes references to assist integration with external information:

- a land parcel identifier (LEGAL_PARCEL_ID) and
- the Australian Bureau of Statistics Mesh Blocks (MB_CODE) for association with statistical data.

Licence

Like G-NAF, G-NAF Core is available as open data. It is licensed by Geoscape Australia for use in accordance with the End User License Agreement (EULA).

The EULA terms are based on the <u>Creative Commons Attribution 4.0 International license</u> (<u>CC BY 4.0</u>).

Use Restriction

G-NAF Core must not be used for the generation of an address or a compilation of addresses for the sending of mail unless the user has verified that each address to be used for the sending of mail can receive mail by reference to a secondary source of information.

Attribution

Users should note the following attribution requirements:

For the Licensed Material:

<u>G-NAF Core</u> © <u>Geoscape Australia</u> 2022 Copyright and Disclaimer Notice. Licensed by Geoscape Australia under the Open G-NAF Core <u>End User Licence Agreement.</u>

For Adapted Material:

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More Information

For more information on G-NAF please refer to the G-NAF Product Description

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Data Model

G-NAF CORE

GNAF_CORE

*PK ADDRESS_DETAIL_PID: VARCHAR (15) DATE_CREATED: DATE ADDRESS LABEL: VARCHAR (150) ADDRESS_SITE_NAME: VARCHAR (200) BUILDING_NAME: VARCHAR (200) FLAT TYPE: VARCHAR (50) FLAT NUMBER: VARCHAR (11) LEVEL_TYPE: VARCHAR (50) LEVEL_NUMBER: VARCHAR (9) NUMBER_FIRST: VARCHAR (13) NUMBER_LAST: VARCHAR (13) LOT_NUMBER: VARCHAR (11) STREET_NAME: VARCHAR (100) STREET_TYPE: VARCHAR (15) STREET_SUFFIX: VARCHAR (50) LOCALITY_NAME: VARCHAR (100) STATE: VARCHAR (3) POSTCODE: VARCHAR (4) LEGAL_PARCEL_ID: VARCHAR (20) MB_CODE: VARCHAR (15) ALIAS_PRINCIPAL: VARCHAR (9) PRINCIPAL_PID: VARCHAR (15) PRIMARY_SECONDARY: VARCHAR (9) PRIMARY PID: VARCHAR (15) GEOCODE_TYPE: VARCHAR (50) LONGITUDE: NUMBER (11,8) LATITUDE: NUMBER (10,8)

GNAF_CORE_RETIRED

*PK ADDRESS_DETAIL_PID: VARCHAR (15) DATE_CREATED: DATE ADDRESS_LABEL: VARCHAR (150) ADDRESS_SITE_NAME: VARCHAR (200) BUILDING_NAME: VARCHAR (200) FLAT_TYPE: VARCHAR (50) FLAT_NUMBER: VARCHAR (11) LEVEL_TYPE: VARCHAR (50) LEVEL_NUMBER: VARCHAR (9) NUMBER_FIRST: VARCHAR (13) NUMBER_LAST: VARCHAR (13) LOT NUMBER: VARCHAR (11) STREET_NAME: VARCHAR (100) STREET_TYPE: VARCHAR (15) STREET_SUFFIX: VARCHAR (50) LOCALITY_NAME: VARCHAR (100) STATE: VARCHAR (3) POSTCODE: VARCHAR (4) LEGAL_PARCEL_ID: VARCHAR (20) MB_CODE: VARCHAR (15) ALIAS_PRINCIPAL: VARCHAR (9) PRINCIPAL_PID: VARCHAR (15) PRIMARY_SECONDARY: VARCHAR (9) PRIMARY_PID: VARCHAR (15) GEOCODE_TYPE: VARCHAR (50) LONGITUDE: NUMBER (11,8) LATITUDE: NUMBER (10,8)

Data Dictionary

This data dictionary is applicable for the GNAF_CORE and GNAF_CORE_RETIRED tables.

Detailed descriptions of the attributes can be found in Appendix C of the G-NAF Product Description (<u>https://geoscape.com.au/documentation/</u>).

Name	Data Type	Description	G-NAF Mapping	Mandatory
ADDRESS_DETAIL_PID	string (15)	A persistent identifier unique to each address.	ADDRESS_DETAIL.ADDRESS_DETAIL_PID	Yes
DATE_CREATED	date	Date the record was created in G-NAF (dd-mm-yyyy).	ADDRESS_DETAIL.DATE_CREATED in dd-mm-yyyy format (day- month-year).	Yes
ADDRESS_LABEL	string (150)	A formatted, readable address label combining address elements into a single descriptive string.	Combination of ADDRESS_DETAIL, ADDRESS_SITE, FLAT_TYPE_AUT, LOCALITY, LEVEL_TYPE_AUT, STREET_LOCALITY, STREET_SUFFIX_AUT and STREET_TYPE_AUT attribution.	Yes
ADDRESS_SITE_NAME	string (200)	Site name.	ADDRESS_SITE.ADDRESS_SITE_NAME	No
BUILDING_NAME	string (200)	Building/property name.	ADDRESS_DETAIL.BUILDING_NAME	No
FLAT_TYPE	string (50)	The type of a separately identifiable portion within a building/complex. e.g. 'Flat', 'Unit', 'Shop'	FLAT_TYPE_AUT.NAME	No
FLAT_NUMBER	string (9)	Flat/unit number.	Combination of FLAT_NUMBER_PREFIX, FLAT_NUMBER and FLAT_NUMBER_SUFFIX from the ADDRESS_DETAIL table.	No
LEVEL_TYPE	string (50)	Level type. e.g. 'LEVEL', 'FLOOR', 'BASEMENT'	LEVEL_TYPE_AUT.NAME	No
LEVEL_NUMBER	string (7)	Level number.	Combination of LEVEL_NUMBER_PREFIX, LEVEL_NUMBER and LEVEL_NUMBER_SUFFIX from the ADDRESS_DETAIL table.	No
NUMBER_FIRST	string (11)	The first (or only) street number in a range.	Combination of NUMBER_FIRST_PREFIX, NUMBER_FIRST and NUMBER_FIRST_SUFFIX from the ADDRESS_DETAIL table.	No
NUMBER_LAST	string (11)	The last street number in a range.	Combination of NUMBER_LAST_PREFIX, NUMBER_LAST and NUMBER_LAST_SUFFIX from the ADDRESS_DETAIL table.	No

Name	Data Type	Description	G-NAF Mapping	Mandatory
LOT_NUMBER	string (9)	Lot number.	Combination of the LOT_NUMBER_PREFIX, LOT_NUMBER and LOT_NUMBER_SUFFIX from the ADDRESS_DETAIL table.	No
STREET_NAME	string (100)	Street name.	STREET_LOCALITY.STREET_NAME	Yes
STREET_TYPE	string (15)	Street type. e.g. 'STREET', 'ROAD', 'AVENUE'	STREET_TYPE_AUT.NAME	No
STREET_SUFFIX	string (50)	Street suffix. e.g. 'EAST', 'NORTH'	STREET_SUFFIX_AUT.NAME	No
LOCALITY_NAME	string (100)	The name of the locality or suburb.	LOCALITY.LOCALITY_NAME	Yes
STATE	string (3)	State or territory abbreviation.	STATE.STATE_ABBREVIATION	Yes
POSTCODE	string (4)	Postcode.	ADDRESS_DETAIL.POSTCODE	No
LEGAL_PARCEL_ID	string (20)	Land parcel identifier. See G-NAF Product Description for more information on the composition of this value.	ADDRESS_DETAIL.LEGAL_PARCEL_ID	No
MB_CODE	string (15)	ABS 2021 Mesh Block code.	MB_2021.MB_2021_CODE	No
ALIAS_PRINCIPAL	string (9)	An address is either a PRINCIPAL or ALIAS (alternate). An alias may not be the 'official' address for a site but is a version that is recognised or in popular use.	ADDRESS_DETAIL.ALIAS_PRINCIPAL	Yes
PRINCIPAL_PID	string (15)	If the address is an ALIAS, the identifier of its related principal.	ADDRESS_ALIAS.PRINCIPAL_PID	No
PRIMARY_SECONDARY	string (9)	An address is either a PRIMARY or SECONDARY. A secondary address is a separately identifiable portion within a primary address. e.g. a 'flat' or 'unit'	ADDRESS_DETAIL.PRIMARY_SECONDARY	No
PRIMARY_PID	string (15)	If the address is a SECONDARY, the identifier of the related primary address.	PRIMARY_SECONDARY.PRIMARY_PID	No
GEOCODE_TYPE	string (50)	Describes the type of geocode applied to the address. e.g. 'PROPERTY CENTROID', 'ACCESS POINT'. G-NAF Core provides only one geocode for each address.	GEOCODE_TYPE_AUT.NAME	Yes
LONGITUDE	number (11,8)	Longitude.	ADDRESS_DETAIL.LONGITUDE	Yes
LATITUDE	number (10,8)	Latitude.	ADDRESS_DETAIL.LATITUDE	Yes