Australia G-NAF

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Introduction

Australia G-NAF Address Data Information

This chapter provides an overview of the Australia Geocoded National Address File (G-NAF) dataset.

AUG Address Dataset

Dataset Code:	AU
Approximate Data Size:	600Mb
Data Source:	• G-NAF: © PSMA Australia Limited: Spatial Data • G-NAF DataPlus: © PSMA Australia Limited: Spatial Data • Administrative Boundaries DataPlus: © PSMA Australia Limited: Spatial Data
Update Frequency:	Quarterly
Expiry:	The Quarterly release dates are: • March • June • September • December
	Data files will expire approximately 6 months after receipt. For example, March data will expire in September of the same year. Ensure every data update is applied promptly, otherwise the data may expire and the product will become unusable.

About This Data

Area Covered

The Australia G-NAF (AUG) dataset covers all postal addresses within eight states and territories of the Commonwealth of Australia.

Address Elements

The following address elements are stored within the AUG data files:

Address Element	Example	Element Code
Building name	Treasury Building	P12
Flat/Unit name	Flat 2	P31
Flat/Unit type	Flat	P311
Flat/Unit number	2	P312
Sub-building number	5a	P32
Sub-building number (number)	5	P321
Sub-building number (alpha)	a	P322
Building Level	Level 7	P21
Building Level type	Level	P211
Building Level number	7	P212
Building number	1-131	P11
Building number (first)	1	P111
Building number (last)	131	P112
Allotment number	Lot 16	P13
Allotment lot	Lot	P131
Allotment number	16	P132
Street	Tudor Court East	S11
Street name	Tudor	S111
Street type	Court	S112
Street type suffix	East	S113
Private Street	Private Street	S12
Locality	Ayr	L21
Bordering Locality	Mt Kelly	L22
State Code	QLD	L11
State name	Queensland	
Postcode	4807	C11
Country name	Australia	X11
Two Character Country Code	AU	X12
Three Character Country Code	AUS	X13

Address Element Definitions

Abbreviations

In an output address, the Building Level Type, Flat/Unit Type, Street Type, or Street Type Suffix address elements are returned in an abbreviated or expanded form, depending on your address formatting settings. Some examples are shown in the table below:

Element	Abbreviated Form	Expanded Form
Building Level Type:	Fl 2	Floor 2
	L 7	Level 7
Flat/Unit Type:	F 10	Flat 10
	U 3	Unit 3
	Dupl 13	Duplex 13
	Fcty 4	Factory 4
	Mbth 18	Marine Berth 18
	Offc 9	Office 9
	Stll 12	Stall 12
	Whse 51	Warehouse 51
Street Type:	Acacia Ave	Acacia Avenue
	Acacia Av	Acacia Avenue
	High St	High Street
	Tomlinson Arty	Tomlinson Artery
	Henley Br	Henley Brace
	Royal Cswy	Royal Causeway
	Durham Cr	Durham Crescent
	Summerdown Csac	Summerdown Cul-De-Sac
	Southern Cutt	Southern Cutting
	Morbury Dvwy	Morbury Driveway
	Grays Ex	Grays Extension
	Bright Glde	Bright Glade
	Tomlinson Hird	Tomlinson Highroad
	Pacific Mtwy	Pacific Motorway
	Queens Pde	Queens Parade
	Didcot Pwy	Didcot Parkway
	Matherson Pway	Matherson Pathway
	Downlands Thfr	Downlands Thoroughfare
	Victorian Viad	Victorian Viaduct
Street Type Suffix:	River Rd W	River Road West
	Lr Queens St	Lower Queens Street
	Up Queens St	Upper Queens Street

Postal Code Structure

Australian postal codes consist of four numbers. The first two numbers represent a zone within a State/Territory. The full four digits represent a specific delivery office. PO Box installations have separate postal codes to street addresses, and large volume receivers may have their own postal code.

Postal codes have been allocated to each state and territory as follows:

State/Territory	State Code	Postal Code Ranges
Australian Capital Territory	ACT	0200-0299, 2600-2620, 2900-2921
New South Wales	NSW	1000-2599, 2620-2899, 2921-2999
Northern Territory	NT	0800-0899
Queensland	QLD	4000-4999, 9000-9799
South Australia	SA	5000-5999
Tasmania	TAS	7000-7999
Victoria	VIC	3000-3999, 8000-8999
Western Australia	WA	6000-6999

Address Formatting

There are four different types of addresses in Australia. The format of the returned address depends on which address elements are present in the address:

Address Format	Layou
Routine Street Address Example:	<Building Number> <Street Name> <Locality> <State Code> (<Postcode>) 16 Banjo Street OLD ADAMINABY NSW 2629
Flat or Unit Address Example:	<Flat/Unit Number> <Building Number><Street Name> <Locality> <State Code> (<Postcode>) Flat 9 8 Trenerry Crescent ABBOTSFORD VIC 3067
Multi-Storey Building Address Example:	<Flat/Unit Address> <Level Number> <Building Number> <Street Name> Flat 4 Level 1 51 Rhyll-Newhaven Road RHYLL VIC 3923
Allotment Address Example	<Lot Number> <Street Name> <Locality> <State Code> (<Postcode>) Lot 2556 Daisy Hill Road BUCKAJO NSW 2550

Default Address Format

Australian addresses are defined upwards from the last line. The last line is displayed in block capitals and contains the locality name, state code and postal code, each separated by two spaces. The line above contains premises and street information.

The building number is shown before the street name. If the address contains sub-premises information, it is shown immediately in front of the building number, separated from it by a forward slash ('/'). For example:

Any building level or flat/unit information is displayed before the sub-premises information. If both of these items are populated, the flat/unit information is written on the line above. Any building names are given on the next line up. If premises information has not been allocated, then an allotment number appears in place of the building number.

If the output address line count is fixed to be four, and the elements on the last line is fixed to be <Locality> <State> <Postcode>, the output address will be presented as:

Address Line 1	16 Banjo Street
Address Line 2	<Blank>
Address Line 3	<Blank>
Address Line 4	OLD ADAMINABY NSW 2629

Forms Of Address

There are two Forms of Address stored in the AUG data files:

G-NAF Layout

Using this layout, only G-NAF address elements and the common address elements can be returned.

The following elements appear in the G-NAF layout:

Address Layout	Elements Returned	Default Element
<auto>	Flat, Building level, Building number, Allotment and Street information are returned on the first three lines.	P31, P32, P21, P11, P13, S11
<auto>		
<auto>		
Locality, State Code, Postcode	Locality, State code and Postcode are fixed on the last line.	L21, L11, C11

G-NAF Layout AS4590 (NAMF)

The G-NAF Layout AS4590 (NAMF) is almost identical in content to the G-NAF layout above, however it directly complies with the address interoperability NAMF standard. They have a few variations in order to be compliant with the AS4590:2006 standard. There is more information about the National Address Management Framework at http://www.finance.gov.au.

About DataPlus Information

Each DataPlus set (.dap) is divided into one or more elements. This section details the DataPlus sets currently available for AUG data.

You can configure your Products to use any of the DataPlus sets that are available for AUG data. Please refer to the relevant section of the product documentation for information on configuring Products to return DataPlus information.

DataPlus Sets for AUG Address Data

The following DataPlus sets are available with Australia G-NAF data:

- G-NAF Geocode Level and Type
- G-NAF Address-Level Geocode
- G-NAF Street-Level Geocode
- G-NAF Locality-Level Geocode
- G-NAF Highest-Level Geocode
- G-NAF Persistent Identifier
- G-NAF Address Type
- G-NAF Street Persistent Identifier
- G-NAF Locality Persistent Identifier
- G-NAF Confidence Level Type
- G-NAF Mesh Block
- G-NAF Complex Address
- G-NAF Legal Parcel Identifier
- Administrative Boundaries Collector Districts
- Administrative Boundaries Commonwealth Electoral Boundaries
- Administrative Boundaries Local Government Areas
- Administrative Boundaries Statistical Local Areas
- Administrative Boundaries State Electoral Boundaries
- Mosaic Group and Type
- Mosaic Segments
- Mosaic Factor 1
- Mosaic Factor 2
- Mosaic Factor 3
- Mosaic Factor 4
- Mosaic Factor 5
- Length of Residence
- Head of Household Age
- Children at Address
- Adults at Address
- Household Composition

- Lifestage
- Household Income
- Affluence
- Risk Insight
- Credit Demand

G-NAF Geocode Level and Type

Identifier: AUGGLT

This DataPlus set returns the geocode level and type of the address.

Every principal address within the G-NAF data must have at least a locality level geocode. It may also have a street level geocode and a parcel level geocode.

The AUGGLT DataPlus set contains the following elements:

Element	Code	Description
Geocode Level Code	GeocodeLvlCode	This is the geocode level code. The value is a number between 0 and 7; for example, "2". For a list of all possible values, see the table below.
Geocode Level Description	GeocodeLvlDesc	This is the geocode level description; for example, "Street level geocode only". For a list of all possible values, see the table below.
Geocode Type Code	GeocodeTypeCode	This is the geocode type code. The value is 2-4 alphabetic characters in uppercase; for example, "LB". For a list of all possible values, see the table on page 10.
Geocode Type Description	GeocodeTypeDesc	This is the geocode type description; for example, "Letterbox". For a list of all possible values, see the table on page 10.

The following table lists the possible geocode levels:

Code	Description
0	No geocode information
1	Parcel level geocode only
2	Street level geocode only
3	Street and parcel level geocodes
4	Locality level geocode only
5	Locality and parcel level geocode
6	Locality and street level geocodes
7	Locality, street and parcel level geocodes

The following table lists the possible geocode types:

Cod	Description
BAP	Building access point
B	Building centroid

Cod	Description
CDF	Centre-line dropped frontage
DF	Driveway frontage
EA	Emergency access
EAS	Emergency access secondary
ECP	Electricity connection point
EM	Electricity meter
FC	Frontage centre
FCS	Frontage centre setback
FDA	Front door access
GCP	Gas connection point
GG	Gap geocode
GM	Gas meter
ICP	Internet connection point
LB	Letterbox
PAP	Property access point
PAPS	Property access point setback
PC	Property centroid
PCM	Property centroid manual
SCP	Sewerage connection point
TCP	Telephone connection point
UC	Unit centroid
UCM	Unit centroid manual
UNK	Unknown
WCP	Water connection point
W	Water meter

G-NAF Address-Level Geocode Information

Identifier:AUGGAD

This DataPlus set returns address-level geocode information. Note that not all addresses have geocode information to address-level detail.

The AUGGAD DataPlus set contains the following elements:

Element	Code	Description
Address-Level Longitude	Longitude	The address-level longitude in degrees.
Address-Level Latitude	Latitude	The address-level latitude in degrees.
Address-Level Elevation	Elevation	The address-level elevation.
Address-Level Planimetric Accuracy	PlanimetricAccuracy	The address-level planimetric accuracy.
Address-Level Boundary Extent	BoundaryExtent	The address-level boundary extent.
Address-Level Geocode Reliability Code	GeocodeReliabilityCode	The address-level geocode reliability code; for example, "2". For a list of all possible values, see the table on page 12.
Address-Level Geocode Reliability Description	GeocodeReliabilityDesc	The address-level geocode reliability description; for example, "Geocode accuracy sufficient to place centroid within address site boundary". For a list of all possible values, see the table on page 12.

The following table lists the possible reliability codes and their descriptions:

Cod	Description
1	Geocode accuracy recorded to appropriate surveying standard
2	Geocode accuracy sufficient to place centroid within address site boundary
3	Geocode accuracy sufficient to place centroid near (or possibly within) address site boundary
4	Geocode accuracy sufficient to associate address site with a unique road feature
5	Geocode accuracy sufficient to associate address site with a unique locality or neighbourhood
6	Geocode accuracy sufficient to associate address site with a unique region

G-NAF Street-Level Geocode Information

Identifier: AUGGST

This DataPlus set returns street-level geocode information. Note that not all addresses have geocode information to street-level detail.

The AUGGST DataPlus set contains the following elements:

Element	Code	Description
Street-Level Longitude	Longitude	The street-level longitude in degrees.
Street-Level Latitude	Latitude	The street-level latitude in degrees.
Street-Level Planimetric Accuracy	PlanimetricAccuracy	The street-level planimetric accuracy.
Street-Level Boundary Extent	BoundaryExtent	The street-level boundary extent.
Street-Level Geocode Reliability Code	GeocodeReliabilityCode	The street-level geocode reliability code. The value of this is either "4", or blank.
Street-Level Geocode Reliability Description	GeocodeReliabilityDesc	The street-level geocode reliability description. If the reliability code is "4", this is "Geocode accuracy sufficient to associate address site with a unique road feature".

G-NAF Locality-Level Geocode Information

Identifier:AUGGLC

This DataPlus set returns locality-level geocode information.

The AUGGLC DataPlus set contains the following elements:

Element	Code	Description
Locality-Level Longitude	Longitude	The locality-level longitude in degrees.
Locality-Level Latitude	Latitude	The locality-level latitude in degrees.
Locality-Level Planimetric Accuracy	PlanimetricAccuracy	The locality-level planimetric accuracy.
Locality-Level Geocode Reliability Code	GeocodeReliabilityCode	The locality-level geocode reliability code. The value of this is either "5", "6", or blank.
Locality-Level Geocode Reliability Description	GeocodeReliabilityDesc	The locality-level geocode reliability description; for example, "Geocode accuracy sufficient to associate address site with a unique locality or neighbourhood". See the table on page 12 for the descriptions.

G-NAF Highest-Level Geocode Information

Identifier:AUGGHL

This DataPlus set contains the highest-level geocode information for a particular address.

The level of detail returned by this DataPlus set depends on the value of the "Geocode Level Code" element in the AUGGLT DataPlus set. For example, if the highest-level geocode information for the address is street-level, this DataPlus set will return geocode information to street-level. The possible geocode level values are listed in the table on page 10.

The AUGGHL DataPlus set contains the following elements:

Element	Code	Description
Longitude	Longitude	The highest-level longitude in degrees.
Latitude	Latitude	The highest-level latitude in degrees.
Elevation	Elevation	The highest-level elevation.
Planimetric Accuracy	PlanimetricAccuracy	The highest-level planimetric accuracy.
Boundary Extent	BoundaryExtent	The highest-level boundary extent.
Geocode Reliability Code	GeocodeReliabilityCode	The highest-level geocode reliability code.
Geocode Reliability Description	GeocodeReliabilityDesc	The highest-level geocode reliability description.

G-NAF Persistent Identifier

Identifier:AUGGID

This DataPlus set returns the persistent identifier of an address. The persistent identifier (PID) is a unique code issued for all records.

The AUGPID DataPlus set contains the following elements:

Element	Cod	Description
G-NAF PID	GNAFPID	Persistent identifier of an address. This is a unique 14-character alphanumeric identifier of the address record; for example, "GANSW716798454".

G-NAF Address Type

Identifier:AUGADT

This DataPlus set indicates the type of address.

The AUGADT DataPlus set contains the following elements:

Element	Code	Description
Address type code	AddrTypeCode	This is the address type code; for example, "R/RMB". The possible values are presented in the table below.
Address type description	AddrTypeDesc	This is the address type description; for example, "Rural Roadside Mail Box". The possible values are in the table below.

The table below lists the address type codes and their descriptions:

Cod	Description
R	Rural
R/BLOCK	Rural Block
R/CABIN	Rural Cabin
R/FLAT	Rural Flat
R/HOUSE	Rural House
R/LOT	Rural Lot
R/RES	Rural Reserve
R/RMB	Rural Roadside Mail Box
R/ROOM	Rural Room
R/RSD	Rural Roadside Mail Delivery
R/RSM	Rural Roadside Mail Service
R/SEC	Rural Section
R/SITE	Rural Site
R/UNIT	Rural Unit
UN	Unknown
UN/APT	Unknown Apartment
UN/BLOCK	Unknown Block
UN/CABIN	Unknown Cabin
UN/CTGE	Unknown Cottage
UN/CVAN	Unknown Caravan
UN/FARM	Unknown Farm
UN/FLAT	Unknown Flat
UN/GD	Unknown Ground FLoor
UN/HOUSE	Unknown House
UN/LOC	Unknown Location
UN/LOT	Unknown Lot

Cod	Description
UN/LWR	Unknown Lower
UN/POR	Unknown Portion
UN/PTHS	Unknown Penthouse
UN/REAR	Unknown Rear
UN/RES	Unknown Reserve
UN/RMB	Unknown Roadside Mail Box
UN/RMS	Unknown Roadside Mail Service
UN/ROOM	Unknown Room
UN/RSD	Unknown Roadside Mail Delivery
UN/RSM	Unknown Roadside Mail Service
UN/SEC	Unknown Section
UN/SITE	Unknown Site
UN/TNHS	Unknown Townhouse
UN/UNIT	Unknown Unit
UN/VILLA	Unknown Villa
UR	Urban
UR/BLOCK	Urban Block
UR/CABIN	Urban Cabin
UR/FLAT	Urban Flat
UR/HOUSE	Urban House
UR/LOT	Urban Lot
UR/RES	Urban Reserve
UR/RMB	Urban Roadside Mail Box
UR/RMS	Urban Roadside Mail Service
UR/ROOM	Urban Room
UR/RSD	Urban Roadside Mail Delivery
UR/RSM	Urban Roadside Mail Service
UR/SEC	Urban Section
UR/SITE	Urban Site
UR/UNI	Urban Unit

G-NAF Street Persistent Identifier

Identifier:AUGSID

This DataPlus set indicates the street persistent identifier.

The AUGSID DataPlus set contains the following elements:

Element	Cod	Description
Street PID	StreetPID	This is a unique street persistent identifier.

G-NAF Locality Persistent Identifier

Identifier:AUGLID

This DataPlus set indicates locality persistent identifier.

The AUGLID DataPlus set contains the following elements:

AUGAddressLine7=W60,AUGLID.

Element	Cod	Description
Locality PID	LocalityPID	This is a unique locality persistent identifier.

G-NAF Confidence Level

Identifier:AUGCFL

This DataPlus set indicates the confidence level of the address.

G-NAF consists of addresses provided by all the States and Territories of Australia (Jurisdictions), Australian Electoral Commission (AEC) and Australia Post. Validated addresses are merged into G-NAF, producing a single occurrence of each unique addresses supplied by the data contributors.

This DataPlus set returns information about the confidence level assigned to each address. The AUGCFL DataPlus set contains the following elements:

Element	Code	Description
Confidence Level Code	ConfLvlCode	This is the confidence level code. The value is numerical; for example "2". For a list of all possible values, see the table below.
Confidence Level Description	ConfLvlDesc	This is the confidence level descriptor. The value is alphabetic; for example "All three contributors have supplied an identical address". For a list of all possible values, see the table below.

The following table lists the possible confidence level codes:

Code	Description
0	Only a single contributor holds this address.
1	A match has been achieved between only two contributors.
2	All three contributors have supplied an identical address.

G-NAF Mesh Block

Identifier:AUGMBL

This DataPlus set provides the Mesh Block ID for an address. Mesh Blocks are a micro-level geographical unit for statistics. There are over 300,000 spatial Mesh Blocks covering Australia with most residential Mesh Blocks containing approximately 30 to 60 dwellings.

Mesh Block IDs are not unique to each address, and not all addresses have a Mesh Block assigned to them.

The AUGMBL DataPlus set contains the following elements:

Element	Code	Description
2021 Mesh Block ID	2021MeshBlockID	The 2021 version of the Mesh Block ID. This element consists of the 15 alphanumeric characters: a 4 character descriptor, followed b the 11 digit Mesh Block Code.
2021 Mesh Block Code	2021MeshBlockCode	The 11-digit 2021 version of the Mesh Block Code.
2021 Mesh Block Match Code	2021MatchCode	The code for the level of matching to the 2021 Mesh Block.
2021 Mesh Block Match Description	2021MatchDesc	The description of the 2021 Mesh Block match level.
2016 Mesh Block ID	2016MeshBlockID	The 2016 version of the Mesh Block ID. This element consists of 15 alphanumeric characters: a 4 character descriptor, followed by the 11 digit Mesh Block Code.
2016 Mesh Block Code	2016MeshBlockCode	The 11-digit 2016 version of the Mesh Block Code.
2016 Mesh Block Match Code	2016MatchCode	The code for the level of matching to 2016 Mesh Blocks.
2016 Mesh Block Match Description	2016MatchDesc	The description of the 2016 Mesh Block match level.
2011 Mesh Block ID (Discontinued)	2011MeshBlockID	Depreciated element, always blank, e.g. " ".
2011 Mesh Block Code (Discontinued)	2011MeshBlockCode	Depreciated element, always blank, e.g. " ".
2011 Mesh Block Match Code (Discontinued)	MatchCode	Depreciated element, always blank, e.g. " ".
2011 Mesh Block Match Description (Discontinued)	MatchDesc	Depreciated element, always blank, e.g. " ".

The following table lists the possible Mesh Block match codes:

Match Code	Match Code Description
1	Parcel level match (a parcel level geocode for this address has been applied and is clearly within the boundaries of a single Mesh Block. The Mesh Block ID allocated to the address in most cases is at a very high level of confidence.)
2	Gap geocoded address level match (a gap geocoded match for the address has been applied and is clearly within the boundaries of a single Mesh Block. The Mesh Block ID allocated to the address in most cases is at a high level of confidence.)
3	Street locality level single match (a street-locality level geocode for this address has been applied and is clearly within the boundaries of a single Mesh Block. The Mesh Block ID allocated to the address in most cases is at a high level of confidence.)

Match Code	Match Code Description
4	Street locality level multiple match (a street-locality level geocode for this address has been applied and is within the boundaries of multiple Mesh Blocks. The Mesh Block ID allocated to the address is at a low level of confidence.)
5	Locality level multiple match (a locality level geocode for the address has been applied and is within the boundaries of multiple Mesh Blocks. The Mesh Block ID allocated to the address is at a very low level of confidence.)

G-NAF Complex Addresses

Identifier:AUGCPX

This DataPlus set indicates if there is a link between Primary and Secondary addresses, and the PID of the Primary address if it exists.

The AUGCPX DataPlus set contains the following elements:

Element	Code	Description
Address Type Code	AddressTypeCode	Returns the Address Type, indicating if the address is a Primary or Secondary address. If the Primary/Secondary relationship does not exist, then this element would be blank, otherwise the possible values are P and S: P: Primary Address S: Secondary Address
Primary InAddress PID	PrimaryAddressPID	This element will only be populated if the input address is a secondary address. that case, this element would contain the PID of the primary address.
Address Join Type Code	JoinType	Returns the Join Type Code. The possible values are 1 or 2: 1: Both parent and child have the same root address. 2: Parent and child may or may not have the same root address.

G-NAF Legal Parcel Identifier

Identifier:AUGLPI

This DataPlus set provides the cadastral information captured from the address supplied by the jurisdiction, where possible. This process is done at the time that the address data is supplied by the jurisdiction and more accurately represents the cadastral information used for an address by the jurisdiction. Addresses from other contributors will also be allocated the same cadastral information where the geocode is at the same location.

The AUGLPI DataPlus set contains the following elements:

Element	Cod	Description
G-NAF Legal Parcel Identifier	LPIPID	The Legal Parcel Id field is populated with the cadastral information using the same concatenations (where applicable) as adopted for the Jurisdiction Id used in the Cadastre theme (CAD table) of the CadLite product.

Administrative Boundaries Collector Districts

Identifier:AUGCLD

This DataPlus set indicates the Collector District persistent identifier and code.

The AUGCLD DataPlus set contains the following elements:

Element	Code	Description
Collector District ID	CollectorDistrictPID	This is a unique Collector District persistent identifier.
Collector District Code	CollectorDistrictCode	This is the Collector District Code.

Administrative Boundaries Commonwealth Electoral Boundaries

Identifier: AUGCWE

This DataPlus set indicates the Commonwealth Electoral Boundary persistent identifier and name.

The AUGCWE DataPlus set contains the following elements:

Element	Code	Description
Commonwealth Electoral Boundary ID	CommonWealthElectoralPID	This is a unique Commonwealth Electoral Boundary persistent identifier.
Commonwealth Electoral Boundary Name	CommonWealthElectoralName	This is the Commonwealth Electoral Boundary name.

Administrative Boundaries Local Government Areas

Identifier:AUGLGA

This DataPlus set indicates the Local Government Area persistent identifier and name.

The AUGLGA DataPlus set contains the following elements:

Element	Code	Description
Local Government Area ID	LGAPID	This is a Local Government Area persistent identifier.
Local Government Area Name	LGAName	This is the Local Government Area name.

Administrative Boundaries Statistical Local Areas

Identifier:AUGSLA

This DataPlus set indicates the Statistical Local Area persistent identifier, code and name.

The AUGSLA DataPlus set contains the following elements:

Element	Code	Description
Statistical Local Area ID	SLAPID	This is a Statistical Local Area persistent identifier.
Statistical Local Area Code	SLACode	This is a Statistical Local Area code.
Statistical Local Area Name	SLAName	This is a Statistical Local Area name.

Administrative Boundaries State Electoral Boundaries

Identifier:AUGSTE

This DataPlus set indicates the State Electoral Boundary persistent identifier and name.

The AUGSTE DataPlus set contains the following elements:

Element	Code	Description
State Electoral Boundary ID	StateElectoralPID	This is a State Electoral Boundary persistent identifier.
State Electoral Boundary Name	StateElectoralName	This is a State Electoral Boundary name.
State Electoral Effective Start	StateElectoralEffectiveStart	This is the date that the electorate becomes effective.
State Electoral Effective End	StateElectoralEffectiveEnd	This is the end date when electorate is no longer in effect.
State Electoral New Boundary ID	StateElectoralNewPID	This is the State Electoral Boundary identifier for new electorate that will be in effect.
State Electoral New Boundary Name	StateElectoralNewName	This is the State Electoral Boundary name for new electorate that will be in effect.
State Electoral New Effective Start	StateElectoralNewEffectiveStart	This is the start date that the new electorate will become effective.
State Electoral New Effective End	StateElectoralNewEffectiveEnd	This is the end date when the new electorate will no longer be in effect.

Mosaic Group and Type

Identifier: AUGMO

The AUGMOS DataPlus set will return the Mosaic codes for the address searched on. Mosaic classifies all Australian households into 49 unique Types and 13 overarching Groups. For more information about Mosaic, visit the Mosaic Australia website:

http://www.experian.com.au/marketing-services/consumer-segmentation.html

Element	Code	Description
Mosaic Group	Group	Mosaic Group, e.g. "K".
Mosaic Type	Type	Mosaic Group and Type, e.g. "K39".

Mosaic Segments

Identifier: AUGMS

Mosaic Segments offer the next level of discrimination from Mosaic Types, with 197 Segments available. Segments are available at the household and Meshblock level and can be used to build your own segmentation solution whilst retaining the link with Mosaic Groups and Types and the wealth of information that comes with Mosaic. For more information about Mosaic Segments visit the Mosaic Australia website:

http://www.experian.com.au/marketing-services/consumer-segmentation.html

The AUGSID DataPlus set contains the following elements:

Element	Cod	Description
Mosaic Segment Code	Cod	Mosaic Segment, eg "A01_3".

Mosaic Factor 1

Identifier: AUGFC1

This DataPlus set returns the geodemographic Factor values for Household Composition from the last Mosaic build.

Factors data provides information about key characteristics for every meshblock in Australia. The Factors DataPlus sets return scores and percentiles for each meshblock. The average score for each Factor is zero, and the standard deviation is 10,000. This means that 68% of the meshblocks will have a score between 10,000 and -10,000. Each Percentile contains 1% of the households in Australia, ranging from 0 to 99.

For more information about Factors data, speak to your Experian Account Manager.

The AUGFC1 DataPlus set contains the following elements:

Element	Code	Description
Factor 1 Score	Score	Factors score, e.g. "- 24255".
Factor 1 Percentile	Percentile	Factors percentile, e.g. "13".

Mosaic Factor 2

Identifier: AUGFC2

This DataPlus set returns the geodemographic Factor values for Transience from the last Mosaic build.

Factors data provides information about key characteristics for every meshblock in Australia. The Factors DataPlus sets return scores and percentiles for each meshblock. The average score for each Factor is zero, and the standard deviation is 10,000. This means that 68% of the meshblocks will have a score between 10,000 and -10,000. Each Percentile contains 1% of the households in Australia, ranging from 0 to 99.

For more information about Factors data, speak to your Experian Account Manager.

The AUGFC2 DataPlus set contains the following elements:

Element	Code	Description
Factor 2 Score	Score	Factors score, e.g. "- 024255".
Factor 2 Percentile	Percentile	Factors percentile, e.g. "13".

Mosaic Factor 3

Identifier: AUGFC3

This DataPlus set returns the geodemographic Factor values for Workforce Participation from the last Mosaic build.

Factors data provides information about key characteristics for every meshblock in Australia. The Factors DataPlus sets return scores and percentiles for each meshblock. The average score for each Factor is zero, and the standard deviation is 10,000. This means that 68% of the meshblocks will have a score between 10,000 and -10,000. Each Percentile contains 1% of the households in Australia, ranging from 0 to 99.

For more information about Factors data, speak to your Experian Account Manager.

The AUGFC3 DataPlus set contains the following elements:

Element	Code	Description
Factor 3 Score	Score	Factors score, e.g. "- 24255".
Factor 3 Percentile	Percentile	Factors percentile, e.g. "13".

Mosaic Factor 4

Identifier: AUGFC4

This DataPlus set returns the geodemographic Factor values for Wealth from the last Mosaic build.

Factors data provides information about key characteristics for every meshblock in Australia. The Factors DataPlus sets return scores and percentiles for each meshblock. The average score for each Factor is zero, and the standard deviation is 10,000. This means that 68% of the meshblocks will have a score between 10,000 and -10,000. Each Percentile contains 1% of the households in Australia, ranging from 0 to 99.

For more information about Factors data, speak to your Experian Account Manager.

The AUGFC4 DataPlus set contains the following elements:

Element	Code	Description
Factor 4 Score	Score	Factors score, e.g. "- 24255".
Factor 4 Percentile	Percentile	Factors percentile, e.g. "13".

Mosaic Factor 5

Identifier: AUGFC5

This DataPlus set returns the geodemographic Factor scores for Cultural Diversity from the last Mosaic build.

Factors data provides information about key characteristics for every meshblock in Australia. The Factors DataPlus sets return scores and percentiles for each meshblock. The average score for each Factor is zero, and the standard deviation is 10,000. This means that 68% of the meshblocks will have a score between 10,000 and -10,000. Each Percentile contains 1% of the households in Australia, ranging from 0 to 99.

For more information about Factors data, speak to your Experian Account Manager.

The AUGFC5 DataPlus set contains the following elements:

Element	Code	Description
Factor 5 Score	Score	Factors score, e.g. "- 24255".
Factor 5 Percentile	Percentile	Factors percentile, e.g. "13".

Length of Residence

Identifier: AUGRL

The Length of Residence DataPlus set returns an estimate of the length of time a person or family has lived at an address. Length of residency is divided into 15 bands. For more information about the Length of Residence data, speak to your Experian Account Manager.

The AUGRLN DataPlus set contains the following elements:

Element	Cod	Description
Length of Residence	Cod	The code representing the Length of Residence band, e.g. "2".

Head of Household Age

Identifier: AUGAG

This DataPlus set returns a predictor of age for the person likely to be the head of household. Ages are returned in one of 15 bands, or marked as unclassified. For more information about the Age data, speak to your Experian Account Manager.

The AUGAGE DataPlus set contains the following elements:

Element	Cod	Description
Head of Household Age	Cod	The code representing the Age band, e.g. "11".

Children at Address

Identifier: AUGCA

The Children at Address DataPlus set returns a predictor of the presence of children in a household. The likelihood of children living in a household is grouped into 10 bands, or marked as unclassified. For more information about the Children at Address data, speak to your Experian Account Manager.

The AUGCAD DataPlus set contains the following elements:

Element	Code	Description
Propensity for Children 0 - 10 years	Cld010Code	Double digit code representing the band, e.g. "02".
Propensity for Children 11 - 18 years	Cld1118Code	Double digit code representing the band, e.g. "02".

Adults at Address

Identifier: AUGAAD

The Adults at Address DataPlus set returns an estimate of the number of people aged 18 and over in a household. For more information about the Adults at Address data, speak to your Experian Account Manager.

The AUGAAD DataPlus set contains the following elements:

Element	Cod	Description
Adults at Address	NumAdults	An estimate of the number of adults at the address, e.g. "3".

Household Composition

Identifier: AUGCM

Household Composition provides an indication of the type of household in which the people at an address are living in.

Households are grouped in one of 6 categories, or marked as unclassified. For more information about the Household Composition data, speak to your Experian Account Manager.

The AUGCMP DataPlus set contains the following elements:

Element	Cod	Description
Household Composition	Cod	Single digit code representing the Household Composition band, e.g."2".

Lifestage

Identifier: AUGLST

The Lifestage DataPlus set returns an indication of the stage of life of the household occupants. The Lifestage for a household is returned in one of 10 bands. For more information about the Lifestage data, speak to your Experian Account Manager.

The AUGLST DataPlus set contains the following elements:

Element	Cod	Description
Lifestag	Cod	2-digit code representing the Lifestage band, e.g. "09".

Household Income

Identifier: AUGEI

Household Income predicts the annual income of every household in Australia.

Household Income classifies every household into one of 7 income bands. For more information speak to your Experian Account Manager.

The AUGEIN DataPlus set contains the following elements:

Element	Cod	Description
Household Income	Cod	Single digit code representing the Household Income band, e.g. "5".

Affluence

Identifier: AUGAFF

Affluence is an indicator of household level wealth based on income, assets and investments. It differs from Household Income in that it offers an indication of disposable income.

Affluence for a household is returned in one of seven bands. For more information speak to your Experian Account Manager.

The AUGAFF DataPlus set contains the following elements:

Element	Cod	Description
Affluence	Cod	Single digit code representing the Affluence band, e.g. "3".

Risk Insight

Identifier: AUGRSK

Risk Insight provides an indicator of risk at the sub meshblock level. For privacy reasons, the bureau data is aggregated to a geographical region, rather than a single address.

Risk Insight, for a household, is returned in one of 12 bands plus one category used for households that are in a sub-Meshblock with no presence on the bureau. For more information speak to your Experian Account Manager.

The AUGRSK DataPlus set contains the following elements:

Element	Cod	Description
Risk Insight	Cod	Code representing the Risk Insight band, e.g. "7".

Credit Demand

Identifier: AUGCRD

Credit Demand provides an indicator of demand for credit at the sub meshblock level. For privacy reasons, the credit data is aggregated to a geographical region, rather than a single address.

The data is categorised into 12 distinct bands. For more information speak to your Experian Account Manager.

The AUGCRD DataPlus set contains the following elements:

Element	Cod	Description
Credit Demand	Cod	Code representing the Credit Demand band, e.g. "7".

Using This Data

This chapter provides search tips and other product-specific information when using Products.

> These searches are accurate at the time of data release. However, search results may differ depending on the data release you are using.

With Pro

Address Elements

Sub-Premises Formatting

The default sort order in Australia is for the sub-premises to appear after the premises (i.e. all the primary points are grouped together). This behaviour allows refinement on both premises and sub-premises information, but clearly distinguishes between the two types of information in the picklist.

For an example of a picklist that contains sub-premises information, do a Single Line search on trinity avenue,sydney.
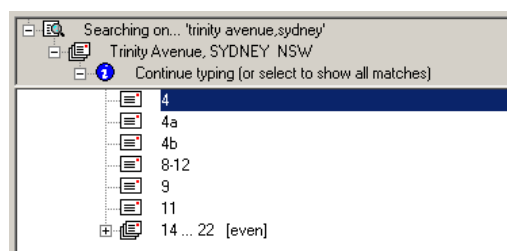
Bordering Localities

When you search for a street, you may not know the correct postal locality in which it is situated. Pro and Pro Web searches for the street you specify in all the localities which border the input locality and/or the input postal code.

For example, searching on banks street,parramatta will return matches in the locality of Parramatta and in its bordering localities, including Mays Hill. Matches found in these bordering localities are marked as aliases in the resulting picklist:
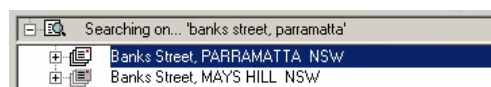
When a picklist entry is from a bordering locality, this is also prominently displayed in the status line when that entry is highlighted. The status line can be seen in Pro and in the Intranet: Rapid Addressing - Active X API scenario of Pro Web.

Search Examples: Typedown

The following table provides a list of these search types:

Search type	Exampl
Full address known	1. Type the postcode 2303 and press Enter.
	2. Type the first four letters of the street name, brid and press Enter. This is enough to uniquely identify Bridge Street because there are no other places with the postcode 2303 that start with brid.
	3. Type the premises number 18 and press Enter. The correct address is returned: 18 Bridge St HAMILTON NSW 2303
Post code unknown	1. Type the first word of the location, bears, and press Enter. In this example, bears is enough to uniquely identify the location Bears Lagoon because there are no other places in Australia that start with bears.
	2. Type the first four letters of the street name, dalz, and press Enter.
	3. Type the premises number 146 and press Enter. The correct address is returned: 146 Dalziels Road BEARS LAGOON VIC 3517
Full sub-premises address known	1. Type the postcode 4000 and press Enter.
	. Type the first two letters of the street name, ad and press Enter. This is enough to uniquely identify Adelaide Street because there are no other places with the postcode 4000 that start with ad.
	3 Type the premises number 15 and press Enter.
	. Type the sub-premises number 9 and press Enter.
	4 Level 9 15 is selected. Press Enter to accept this address. The correct address is returned: L 9 15 Adelaide St BRISBANE QLD 4000

Search Examples: Single Line

The following table provides a list of these example search types:

- Full address known (below)
- Full sub-premises address known (below)
- Postcode unknown (below)
- Street name known (below)
- Character missing from address (page 29)
- Address contains spelling mistake (page 29)
- Only partial address information known (page 30)

Search type	Exampl
Full address known	Type the following premises number and postcode and press Enter: 40 roma st,4000 The correct address is returned: 40 Roma Street BRISBANE QLD 4000
Full sub-premises address known	Type the sub-premises details, followed by the premises number, street, and postcode, and press Enter: 9/18 ridge st,north sydney The correct address is returned: 9/18 Ridge Street NORTH SYDNEY NSW 2060
Postcode unknown	Type the following premises number, street name, and locality, and press Enter: 8 fuller st,melrose The correct address is returned: 8 Fuller St MELROSE SA 5483
Street name known	If the street name only is known, typing the street name will return a picklist from which the correct one can be selected. Type fairfield st, and press Enter, to view a list of every street of that name in the country.
Character missing from address	If one character is missing from the address the unknown character can be replaced with a question mark. Type 12 ?arden rd,hope valley and press Enter. The correct address is returned: 12 Garden Road HOPE VALLEY WA 6165
Address contains spelling mistake	Entering an address that contains one or more spelling errors can still return the correct address. Entering 10 perhaw st,castlemaine will still return the correct address: 10 Preshaw Street CASTLEMAINE VIC 3450

Search type	Exampl
Only partial address information known	If you only have partial address information, you can replace the remainder of an address element with an asterisk.
	Entering high street, strat* will display a picklist of High Streets in all places beginning with 'Strat' - Strathfield, Stratford, and Strathalbyn.
	Sometimes it is advisable to tag a part of the search string to let Pro know which part of the address it is. For example, the king@s,nsw tag tells Pro to look for all streets containing the text 'King' in New South Wales.
	For a complete list of available tags, refer to "Search Constraints" below.

Search Constraints

The following search constraints can be used to restrict searches when using the Single Line search engine in Pro, Pro Web or Batch Interactive.

Constraint	Elements Restricted to	Example Search
@C	State code/name	victoria@c
@L/@T	Locality	King*@l, nsw
@P	Premises information	20@p, brighton
@S	Street	grove*@s,qld
@X	Postal code	1 mckay st, 08*@x

With Pro Web

Scenarios

The following table indicates the relevant search examples for each Pro Web scenario and search engine that supports AUG data.

Scenario	Search engine	For search examples, see:
Address Capture on the Intranet	Single Line hierarchical	Pro Single Line search examples on page 29.
Address Capture on the Web	Single Line flattened	Pro Single Line search examples on page 29.
Address Capture	Single Line flattened	Pro Single Line search examples on page 29.
Single Line	Single Line hierarchical	Pro Single Line search examples on page 29.
Standard	Typedown Single Line hierarchical	Pro Typedown examples on page 28. Single Line search examples on page 29.
Address Verification on the Web	Verification	Verification Search examples on page 31.

Search Examples: Verification

Users of Pro Web can use address verification functionality to verify a customer's address once they have typed it in full into a web form.

The table on the following page provides a list of example searches and the Verify level they return.

Verify level	Exampl
Verified	11 Dalgleish Close Spence ACT 2615 This search brings back a verified address with the verify level of "Verified".
Multiple	27 Alma Street VIC 3012 This search brings back a verify level of "Multiple", as there is a street and a premises number matching in more than one city: Maidstone and West Footscray. This requires further interaction from the user.
None	12 Raymount Way Mayfield NSW 2304 This search brings back a verify level of "None" as not enough information was provided in the search.
StreetPartial	Hickson PlaceWest Hobart TAS 7000 This search brings back a verify level of "StreetPartial" as the search did not define a property number for the street location "Hickson Place".
InteractionRequired	16-18 Alfreds Gdn KINGSTON TAS 7050 This search brings back a verify level of "InteractionRequired", since the premise number has been changed (will match to 16 Alfreds Gdn) so the address requires verification from the user.

With Batch

Subset Functionality

The subset functionality is used to licence the Australia Enhanced data. The Australia Enhanced data contains an additional secure subset file which defines the parameters for your subset of AUG dataset so that metered searches for addresses within your subset do not incur any royalty charges. Searches that fall outside the parameters of the subset are subject to royalty charges. The subset file is provided to you at the time of licencing, and will need to be copied into the folder where you installed your copy of Batch.

The key configuration parameter that defines the subset is "State Code" for State administration area awareness, and "LGA Code" for Local administration area awareness. This code is stored in the subset file, and will be referenced when a search is made using Batch to determine whether the search is within or outside of the area defined in the subset.

This version of Batch includes two counters, one for those address searches that fall within your administrative area and do not incur royalty charges, and one for those addresses that are outside the area and therefore incur royalty charges.

Use of the subset functionality requires a special licence key that replaces the usual licence key for the AUG dataset.

Bordering Localities

If you are unsure whether an input address contains the correct postal locality, Batch can be configured to search against that locality and all bordering localities. This functionality also caters for changes to locality and postcode boundaries, and any delays in such updates appearing within official postal data.

By default, when Batch makes an address match via bordering locality data, it will change the supplied locality to the correct postal locality for the matched address.

To instruct Batch to retain a supplied bordering locality within its formatted return address, the `RetainBorderingLocality` configuration setting must be set to "True". See "RetainBorderingLocality={boolean}" on page 36 for more information about this setting.

Secondary Information

Batch enables you to retain unmatched secondary information that does not exist in the G-NAF data. This is useful if you want to modify the way addresses supplied by the Postcode Address File (PAF) are presented.

The secondary information that does not exist in the data can be, for example, a sub-premises number. Take the input address Suite 5/12 Ann St, NSW as an example. By default, Batch would not retain the sub-premises "Suite 5", which does not exist in PAF. In order for Batch to return the secondary information present in the address, the `FormatSecondaryInfo` configuration setting must be set to "True". See "FormatSecondaryInfo={boolean}" on page 35 for more information about this setting.

Address Cleaning Modes

There are three available address cleaning modes in Batch;

- Whole Address;
- Enhanced Address;
- Postal Code Only.

The recommended cleaning mode for AUG data is the Whole Address mode. Because the Enhanced Address mode is very similar to the Batch AUG matching rules, this cleaning mode offers no additional benefits when cleaning your database against the AUG data.

The Whole Address mode will retain any unmatched premises info, and will format it according to the AUG address formatting rules. The Enhanced mode may not retain all unmatched premises info, or may retain it in a format that does not follow AUG formatting rules.

For example, take the address 14th Floor 61 Mary Street, Brisbane as an example. As the sub-premises is not separated from the building number (for example, with a comma), in Enhanced Mode the entire line is used for the search. The sub-premises is not matched, and therefore not returned:

> 61 Mary Street, Brisbane QLD 4000

If the sub-premises is separated from the building number as in the address 14th Floor, 61 Mary Street, Brisbane, in Enhanced Mode Batch retains the sub-premises number in the output in the same format that it was in the input address:

> 14th Floor, 61 Mary Street, Brisbane QLD 4000

When the address 14th Floor 61 Mary Street, Brisbane (without the separating comma) is ran through Batch in the Whole Address Mode the sub-premises is retained, and formatted according to the AUG formatting rules:

> Floor 14 61 Mary Street, Brisbane QLD 4000

For more information about the Address Cleaning modes, see the main Batch documentation.

Postal Delivery Addresses

If a valid Postal Delivery Address type is supplied in the input address, Batch will automatically categorise the address as unmatched (K). In this case, the AUG-specific information bit 00100000 will be set. This enables you to filter out all Postal Delivery Address types from the genuine unmatched records for interactive cleaning and reporting purposes.

For more information about the AUG-specific information bits, see "AUG-Specific Information Bits" on page 34. For more information about filters and match codes, see the Batch help file.

The following table lists the Postal Delivery Address types that result in an unmatched (K) address if they appear in the input address:

Expanded PO Box Type	Abbreviated PO Box Type
Care of Post Office	Care PO
Community Mail Agent	CMA
Community Mail Bag	CMB
General Post Office Box	GPO Box
Locked Mail Bag Service	Locked Bag
Mail Service	MS
Post Office Box	PO Box
Poste Restante	Care PO
Private Mail Bag Service	Private Bag
Roadside Delivery	RSD
Roadside Mail Bag	RMB
Roadside Mail Box	RMB
Roadside Mail Service	RMS
Community Postal Agent	CPA

AUG-Specific Information Bits

When using AUG data a selection of dataset-specific information bits can be returned.

- For Standalone users, AUG-specific information bits are returned as the first 8 digits of the 16-digit extended match result as displayed in Interactive.
- For API users, these are returned by the function QABatchWV_GetMatchInfo as parameter *rlCountryInfo1*, and from the function QABatchWV_Clean in the parameter *rsReturnCode* from the 13th to 20th characters. Refer to the Batch API Guide for further information about these functions.

The following table provides a full list of AUG-specific information bits that can be returned.

Information Bit	Description
10000000	A street alias has been matched and may be retained in the output address if the street alias output item has been fixed during configuration.
20000000	A locality alias has been matched and may be retained in the output address if the locality alias output item has been fixed during configuration.
40000000	A bordering locality has been matched and may be retained in the output address if the `RetainBorderingLocality` configuration setting has been enabled.
01000000	A match has been made to premises-level, specifically building number, only. No sub-premises item has been matched.
02000000	No additional valid secondary information has been supplied in the input address. A building number has been supplied and matched.
04000000	A building number and valid secondary information have been supplied in the input address but neither matched. The unmatched secondary information may be retained in the output address if the `FormatSecondaryInfo` configuration setting has been set to "True".
0010000	A valid PO Box type has been supplied in the input address.

Refer to the Batch help file for information on matching rules and information bits.

Configuration Settings

This section deals with the specific configuration of Batch for use with the AUG dataset.

Products make use of configuration (INI) files when they are loaded. These contain all the necessary configurable settings that the product will use during its operation. The general format of a configuration setting is:

Keyword=Value

For example:

```
FormatSecondaryInfo=True
```

Please refer to the section of the main documentation dealing with configuration settings for further information on the structure and content of these files.

The AUG-specific configuration settings are held in the [AUG] section of the qaworld.ini file. They can be preceded with "AUG", or the prefix can be left out:

```
FormatSecondaryInfo=True
```

or:

```
AUGFormatSecondaryInfo=True
```

FormatSecondaryInfo={boolean}

Default:

True (not present in the configuration file by default)

Purpose:

This setting determines whether Batch will retain supplied unmatched secondary information within a formatted return address.

Example:

Supplied address:

Kiosk 3 39 Nicholson St
Bairnsdale VIC 3875

Address in data:

39 Nicholson St
Bairnsdale VIC 3875

By default Batch will output the address with the input descriptor:

Kiosk 3 39 Nicholson St
Bairnsdale VIC 3875

If `RetainSecondaryType` is set to "False", Batch will output the address without the input descriptor:

39 Nicholson St
Bairnsdale VIC 3875

RetainBorderingLocality={boolean}

Default:

False (not present in the configuration file by default)

Purpose:

This setting determines whether Batch will retain supplied bordering locality information within a formatted return address.

By default, when Batch matches an address via bordering locality data, the supplied locality will be changed to the correct postal locality for the matched address.

Due to the lack of bordering postcode information in G-NAF, postcode will not be returned if the bordering locality is retained to avoid returning incorrect combination of bordering locality and main locality postcode.

Example:

Supplied address:

1 Coombs St
EDMONTON QLD 4869

If `RetainBorderingLocality` is set to "True", Batch will output the bordering locality without the postcode:

1 Coombs St
EDMONTON QLD

If `RetainBorderingLocality` is set to "False", Batch will output the correct postal locality with the postcode:

1 Coombs St
WHITE ROCK QLD 4868