

NSW Address Database (GURAS)

Delivery Model Data Dictionary

Version 4.2

28th November 2017

Document summary

This document details the delivery model for the NSW Address Database (GURAS) maintained by Spatial Services.

Document management

Document control

Document	
Status	Final
Version	4.2
Version Date	28/11/2017
Author/s	I.S.S.U./Addressing Program
Owner	Spatial Services

Change history

Version	Version date	Name and role	Change details
4.0	3/03/2015	I.S.S.U.	
4.1	3/08/2017	Addressing Program	Migrated existing Data Dictionary to new format and performed minor content changes
4.2	28/11/2017	Addressing Program	Reviewed and updated Attribute Descriptions table

Approval

Name	Role	Date	Sections to be approved

Related documents

Document name

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1. Theme Index

1.1 GURAS Theme

The GURAS Theme includes those spatial features that are unique to the NSW Address Database and used to describe the location of an address. Its feature classes are:

- [AddressPoint](#)
- [WayPoint](#)
- [Proway](#)

1.2 Property Theme

The Property Theme contains spatial features that are generated using aspatial property definitions in the NSW Valuer General's Property database and Lot parcel information from the NSW Cadastral database. This theme includes the following feature classes:

- [Property](#)
- [PropertyFragment](#)

1.3 Object Classes

These aspatial tables are used in the construction and maintenance of features within the NSW Address Database. This theme includes the following tables:

- [AddressString](#)
- [PrincipalAddressSite](#)
- [PropertyLot](#)

2. Class Descriptions

2.1 AddressPoint

Description: A point feature class used to spatially locate an address / addressstring

Geometry Type: esriGeometryPoint **Has M:** False **Has Z:** True

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
PrincipalAddressSiteOID	Integer (0)	F	
AddressStringOID	Integer (0)	T	
Subtype	Integer (0)	T	Subtype values for this class
AddressPointUncertainty	Double (16,8)	T	
Containment	Integer (0)	F	DmG_Containment

2.2 AddressString

Description: An object class used to store address information, such as Housenumber, Roadname and Suburb.

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
AddressType	Integer (0)	F	DmG_AddressType
RuralAddress	Integer (0)	T	DmG_RuralAddress
PrincipalAddressType	Integer (0)	T	DmG_PrincipalAddressType
Subtype	Integer (0)	T	Subtype values for this class
PrincipalAddressSiteOID	Integer (0)	F	
OfficialAddressStringOID	Integer (0)	T	
RoadSide	Integer (0)	T	DmG_RoadSide
HouseNumberFirst	Integer (0)	T	
HouseNumberFirstSuffix	Char	T	
HouseNumberSecond	Integer (0)	T	
HouseNumberSecondSuffix	Char	T	
RoadName	Char	F	
RoadType	Char	T	
RoadSuffix	Char	T	
UnitType	Char	T	
UnitNumberPrefix	Char	T	

UnitNumber	Integer (0)	T	
UnitNumberSuffix	Char	T	
LevelType	Char	T	
LevelNumberPrefix	Char	T	
LevelNumber	Char	T	
LevelNumberSuffix	Char	T	
AddressSiteName	Char	T	
BuildingName	Char	T	
LocationDescription	Char	T	
PrivateStreetName	Char	T	
PrivateStreetType	Char	T	
PrivateStreetSuffix	Char	T	
SecondRoadName	Char	T	
SecondRoadType	Char	T	
SecondRoadSuffix	Char	T	
SuburbName	Char	T	
State	Integer (0)	T	DmC_State
Postcode	Integer (0,12)	T	
Council	Char	F	
DeliveryPointID	Integer (0)	F	
DeliveryPointBarCode	Char	F	
AddressConfidence	Integer (0)	F	
ContributorOrigin	Integer (0)	T	
ContributorID	Char	F	
Contributoralignment	Integer (0,12)	T	
RouteOID	Integer (0)	F	
GNAFPrimarySiteID	Integer (0)	T	
Containment	Integer (0)	T	DmG_Containment
PropID	Integer (0)	T	
SPPPropID	Integer (0)	T	

2.3 PrincipalAddressSite

Description: An object class providing a logical container for grouping related information for an address site. A principal address site can contain multiple AddressPoints, AddressStrings related to a Property.

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	

2.4 Property

Description: A polygon in GURAS that spatially represents an aspatial property description as provided by the Valuer Generals Department. A property can be defined as land parcels grouped into Valuations.

Geometry Type: esriGeometryPolygon **Has M:** False **Has Z:** False

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
PrincipalAddressSiteOID	Integer (0)	T	
Subtype	Integer (0)	F	Subtype values for this class
ValNetPropertyStatus	Integer (0)	T	DmG_ValNetPropertyStatus
ValNetPropertyType	Integer (0)	F	DmG_ValNetPropertyType
DissolveParcelCount	Integer (0)	F	
ValNetLotCount	Integer (0)	T	
ValNetWorkFlowID	Integer (0)	T	
PropID	Integer (0)	T	

2.5 PropertyFragment

Description: A Property Fragment is a spatial polygon that has a one to one or many to one relationship with the property feature class. If a property is a multi-part polygon, an individual PropertyFragment represents each part of the property polygon.

Geometry Type: esriGeometryPolygon **Has M:** False **Has Z:** False

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
PrincipalAddressSiteOID	Integer (0)	F	
PropertyOID	Integer (0)	F	

2.6 PropertyLot

Description: An object class providing aspatial relationships between the Property feature class and the Lot feature class of the NSW Cadastral database.

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
PropertyOID	Integer (0)	T	
PropID	Integer (0)	T	

ContributorOrigin	Integer (0)	T	DmG_ContributorOrigin
ContributorID	Char	T	
CadID	Integer (0)	T	
PlanLabel	Char		
PlanNumber	Integer (0)		
SectionNumber	Char	T	
LotNumber	Char	T	
PTLotSecPN	Char	T	
SPPPropID	Integer (0)	T	
PropIDType	Integer (0)	T	

2.7 Proway

Description: A Proway is a line that spatially connects the AddressPoint and WayPoint.

Geometry Type: esriGeometryPoint **Has M:** False **Has Z:** True

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
PrincipalAddressSiteOID	Integer (0)	T	
WayPointOID	Integer (0)	T	
AddressPointOID	Integer (0)	T	
Subtype	Integer (0)	F	Subtype values for this class

2.8 WayPoint

Description: A WayPoint is a point located on the RoadSegment feature class for an address where the road naming attributes from both the AddressString and the RoadSegment classes are identical. Indicates the approximate entry point of for an address.

Geometry Type: esriGeometryPoint **Has M:** False **Has Z:** True

Attribute Name	Data Type	Allow Nulls	Constraints
CreateDate	Date/Time	F	
GurasID	Integer (0)	F	
PrincipalAddressSiteOID	Integer (0)	T	
AddressStringOID	Integer (0)	F	
AddressPointOID	Integer (0)	F	
RoadNameExtentOID	Integer (0)	T	
Subtype	Integer (0)	F	Subtype values for this class
WayPointUncertainty	Double (16,8)	T	
ContributorOrigin	Integer (0)	T	DmG_ContributorOrigin
ContributorID	Char	T	
DerivedBy	Integer (0)	F	DmG_DerivedBy

3. Attribute Descriptions

ATTRIBUTE	DESCRIPTION	MAINTAINED Y/N
AddressConfidence	A quality statement developed by PSMA Australia for the Geocoded National Address File (GNAF). Three confidence levels exist: 0, 1 and 2, where 0 implies that no other data source matches an address; 1 implies that one data source matches an address; and 2 implies that two data sources match an address.	N
AddressPointOID	The objectid of an AddressPoint, referenced by another feature or object class.	Y
AddressPointUncertainty	A numeric value indicating the uncertainty of the spatial accuracy of an address point.	N
AddressSiteName	The official place name or culturally accepted common usage name for an address site, including the name of a building, homestead, building complex, agricultural property, park or unbounded address site. For example, Charles Sturt University, Bathurst Base Hospital, Sydney Opera House.	Y
AddressStringOID	The objectid of an AddressString, referenced by another feature or object class.	Y
AddressType	An Address must be one of three types: Property, Delivery, or Correspondence. GURAS currently only supports Property addresses.	Y
BuildingName	The official place name or culturally accepted common usage name for a building. For example, within a university campus buildings may be identified as Library, Chancellery, Building 20A	Y
CadID	A unique identifier of a cadastral feature in the Digital Cadastral Database of NSW.	Y
Containment	Boolean indicating whether an AddressPoint spatially intersects its related property polygon. True (1) indicates a spatial intersection; False (0) indicates no spatial intersection.	Y
Contributoralignment	Boolean indicating whether a GURAS address matches its related Valnet address. Contributor alignment of 1 indicates a match; a contributor alignment of 0 indicates no match.	Y
ContributorID	A unique object identifier supplied from the data contributor.	Y
ContributorOrigin	The source or origin of the GURAS address.	Y
Council	The name of the Local Government Area in which an AddressPoint is spatially located.	Y
CreateDate	The date at which a feature was created/last modified.	Y
DeliveryPointBarCode	A field created to store barcode information related to an Australia Post address.	N

DeliveryPointID	Delivery Point Identification Number. A unique number created by Australia Post for an address.	N
DerivedBy	The method by which the spatial accuracy of a WayPoint feature was derived. In GURAS, the method must be one of three methods: Urban calculated, Rural or Rural field derived.	Y
DissolveParcelCount	The number of cadastral lots that make up a Property.	Y
GNAFPrimarySiteID	A unique identifier relating to a primary site in the Geocoded National Address File, supplied by the PSMA Australia.	N
GurasID	A unique identifier of an addressing feature in the NSW Address Database.	Y
HouseNumberFirst	Identifies first (or only) street number in house number range.	Y
HouseNumberFirstPrefix	Identifies the prefix of the first number in a house number range.	Y
HouseNumberFirstSuffix	Identifies the suffix of the first number in a house number range.	Y
HouseNumberSecond	Identifies the last number in a house number range	Y
HouseNumberSecondPrefix	Identifies the prefix of the last number in a house number range	Y
HouseNumberSecondSuffix	Identifies the suffix of the last number in a house number range	Y
LevelNumber	An alpha or numeric value used to distinguish a floor or level of a multi-storey building.	Y
LevelNumberPrefix	Identifies the prefix of the LevelNumber.	Y
LevelNumberSuffix	Identifies the suffix of the LevelNumber.	Y
LevelType	Identifies the type of Level in a multi-storey building (e.g. Ground or Basement)	Y
LocationDescription	A free text data element to describe the position of the address relative to another physical site.	N
LotNumber	An alpha or numeric value allocated to a parcel of land created on a plan of subdivision or title e.g. Lot 10 DP12345	Y
OfficialAddressStringOID	An identifier in all AddressStrings which identifies the objectid field of its parent address (usually the objectid of the Primary address of the PrincipalAddressSite).	Y
PlanLabel	The plan number and type e.g. DP123, SP123, 102-3050 of a lot in the Digital Cadastral Database of NSW.	Y
PlanNumber	The number of a plan, unique for a particular type of plan.	Y
Postcode	The Australian numeric descriptor for a postal delivery area, aligned with locality, suburb or place.	Y
PrincipalAddressSiteOID	The objectid for a PrincipalAddressSite, referenced by another feature or object class.	Y
PrincipalAddressType	The type of address within a PrincipalAddressSite. Each PrincipalAddressSite must have only one 'Primary' PrincipalAddressType. Additional addresses can be stored as Secondary, Alternate or Alias.	Y

PrivateStreetName	The name of a private street to which an address can be applied.	N
PrivateStreetSuffix	The street type suffix of a private street to which an address can be applied.	N
PrivateStreetType	The street type of a private street to which an address can be applied.	N
PropertyOID	The objectid of a Property feature, referenced by another feature or object class.	Y
PropID	A unique identifier of a Property feature.	Y
PropIDType	Stored in the PropertyLot class. Indicates the Property type of the PropertyLot record. Possible values are Deposited Plan Property, Child Property and Common Property.	Y
PTLotSecPN	A field in the PropertyLot class storing a concatenation of the plantype, lotnumber, sectionnumber and plannumber.	Y
RoadName	The name of the road/thoroughfare applicable to the address site or complex.	Y
RoadNameExtentOID	The objectid of the RoadNameExtent feature class, referenced by another feature or object class.	N
RoadSide	Identifies whether an address is on the left or right side of a street.	N
RoadSuffix	The term used to represent the suffix of a road/thoroughfare applicable to the address site.	Y
RoadType	The term to distinguish the type of road/thoroughfare applicable to the address site. GURAS Road Types must conform with NSW DTDB business rules.	Y
RouteOID	The objectid of a Route feature, referenced by another feature or object class.	N
RuralAddress	Domain indicating the type of address (e.g.: Rural, Urban, Unknown or Waterway).	Y
SecondRoadName	May hold a secondary road name for an address site that has access from two roads e.g. a corner block.	N
SecondRoadSuffix	May hold the road suffix of a secondary road name for an address site that has access from two roads e.g. a corner block.	N
SecondRoadType	May hold the road type of a secondary road name for an address site that has access from two roads e.g. a corner block.	N
SectionNumber	Original subdivisions in a private town where large areas or estates were subdivided and the plan was divided into sections, so that lot numbers could be repeated in each section though still retaining unique parcel identities.	Y
SPPPropID	A unique identifier for a child property in a strata scheme	Y
State	Identifies the State where an address resides. The NSW Address Database only stores addresses situated within the state of NSW.	Y
SuburbName	The suburb or locality name used within an address.	Y
UnitNumber	Identifies the sub-address number for an address site.	Y

UnitNumberPrefix	Identifies the prefix of the sub-address number for an address site.	Y
UnitNumberSuffix	Identifies the suffix of the sub-address number for an address site.	Y
UnitType	Identifies the sub-address type of an address site (e.g. unit, villa, shop, house).	Y
ValNetLotCount	The number of lot records provided by Valnet in a Property description.	Y
ValNetPropertyStatus	The status of a property, provided by Valnet (e.g. Current, Proforma or Skeleton)	N
ValNetPropertyType	Identifies the type of Property, provided by Valnet (e.g. Nonval, Normal or UnderSP)	N
ValNetWorkFlowID	-	N
WayPointOID	The objectid of a WayPoint feature, referenced by another feature or object class.	Y
WayPointUncertainty	Number indicating the level of uncertainty associated with the spatial location of a way point.	N

4. Subtype Descriptions

4.1 AddressPoint

Property: Subtype value: **1**

Description: Default value. The AddressPoint is related to the property, but not spatially located on a dwelling.

Unit/Strata: Subtype value: **2**

Description: The AddressPoint is an address related to a strata property, but not spatially located on a dwelling.

Building: Subtype value: **3**

Description: The AddressPoint is spatially located on a Building.

Homestead: Subtype value: **4**

Description: The AddressPoint is spatially located on a Homestead.

Monument: Subtype value: **5**

Description: The AddressPoint spatially located on a Monument.

Other: Subtype value: **10**

Description: The AddressPoint is spatially located on an structure other than those above.

4.2 AddressString

Official: Subtype value: **1**

Description: indicates an address is verified and the Suburb name and boundaries have been gazetted.

Alias: Subtype value: **2**

Description: An address that is in common usage, but does not adhere to business rules for a verified address. For example an address with a suburbname that does not exist (e.g. Kings Cross). Also used to describe an address received into GURAS that is in conflict with addresses current held for a site.

Assigned: Subtype value: **3**

Description: the default AddressString type for all AddressStrings. The address has not been checked for completeness or accuracy.

Verified: Subtype value: **4**

Description: indicates an address is contained within its related polygon and the road name attributes are correct and match road name attributes held within the Digital Topographic Database.

4.3 Property

Property: Subtype value: **1**

Description: Indicates that all lots in a property description (supplied by Valnet) can be found in the lot feature class ($\text{DissolveParcelCount} = \text{ValnetLotCount}$).

Crown: Subtype value: **2**

Description: for future use.

NationalPark: Subtype value: **3**

Description: for future use

StateForest: Subtype value: **4**

Description: for future use.

Other: Subtype value: **5**

Description: Indicates a lot in the lot feature class cannot be found in any property description in Valnet.

Incomplete: Subtype value: **6**

Description: Indicates that one or more lots in a property description (supplied by Valnet) cannot be found in the lot feature class ($\text{DissolveParcelCount} < \text{ValnetLotCount}$).

4.4 WayPoint

Primary: Subtype value: **1**

Description: Indicates the WayPoint relates to the Primary address within a PrincipalAddressSite.

Secondary: Subtype value: **2**

Description: Indicates the WayPoint relates to a Secondary address within a PrincipalAddressSite.

Alternate: Subtype value: **3**

Description: Indicates the WayPoint relates to an Alternate address within a PrincipalAddressSite.

4.5 Proway

Left: Subtype value: **1**

Description: Indicates the address is located on the left side of the road when travelling and Housenumber ascending order.

Right: Subtype value: **2**

Description: Indicates the address is located on the right side of the road when travelling and Housenumber ascending order.

5. Domain Descriptions

5.1 DmC_State

Domain:

2: New South Wales

3: Victoria

5: South Australia

4: Queensland

1: Australian Capital Territory

5.2 DmG_AddressType

Domain:

1: Property Address

Description: The address of the physical location of a property

2: Delivery Address

Description: The address used for goods delivery purposes

3: Correspondence Address

Description: Also known as postal address, the address used by the client for receipt of correspondence.

5.3 DmG_DerivedBy

Domain:

1: Urban Calculated

Description: Indicates that the location of a WayPoint is placed at the shortest distance from an AddressPoint to a RoadSegment sharing the same road name attributes.

2: Rural Calculated

Description: Indicates the WayPoint has been placed on a RoadSegment, a distance from a known Datum Point, using measurement tool within GIS software.

3: Rural Field Derived

Description: Indicates the WayPoint has been placed on or near a RoadSegment, a distance from a known Datum Point, using measurement tools in the field.

5.4 DmG_GURASID_Range

Domain:

0: MinValue

Description: The theoretical minimum value of GURASIDs. Qualification: While zero (0) is within the range it is a reserved value indicating a GURASID has not been allocated.

999999999: MaxValue

Description: The theoretical maximum value of GURASIDs.

5.5 DmG_ContributorOrigin

Domain:

1: Council

2: VALNET

~~3: Crown~~

4: GNAF

~~5: Lease~~

6: GURAS

~~7: NSW Lands Topo~~

8: Land and Housing Corporation

9: RAAP

10: Australia Post

11: GURAS App

5.6 DmG_ValNetPropertyStatus

Domain:

1: CANCELLED

Description: Not in use. If a Valnet Property is cancelled it is removed from the GURAS Database.

2: CURRENT

Description: an active property containing address and valuation details.

3: PROFORMA

Description: elevation from 'skeleton' containing property description.

4: SKELETON

Description: auto generated when title is issued and the Land Titles office.

5.7 DmG_ValNetPropertyType

Domain:

1: NONVAL

Description: is a Property that has a lot description but is not valued by the Valuer Generals department.

2: NORMAL

Description: relates to a Property where its property description comprises of lots of type Deposited Plan

3: STRATA

Description: Not in use.

4: UNDERSP

Description: relates to a Property where its property description comprises of lots of type Strata Plan.

5.8 DmG_RuralAddress

Domain:

1: Rural

Description: Indicates that the address is Rural, complying with rural addressing standards in terms of house numbering and WayPoint location.

2: Urban

Description: Indicates that an address and associated components have been constructed under GURAS Urban business rules.

3: Unknown

Description: Indicates that the value of the RuralAddress field has not been defined. Unknown is the default value for new addresses in GURAS.

4: Waterway

Description: Indicates the address is primarily accessed by water (river, lake etc).

5.9 DmG_RoadSide

Domain:

1: Left

Description: Identifies that an address is on the left side of a street.

2: Right

Description: Identifies that an address is on the ride side of a street.

3: Unknown

Description: Roadside is unknown.

5.10 DmG_Containment

Domain:

1: Yes

Description: The AddressPoint spatially intersects its related Property polygon.

2: No

Description: The AddressPoint does not spatially intersect its related Property polygon.

3: Unknown

Description: Spatial intersection between Property and AddressPoint is unknown.

5.11 DmG_PrincipalAddressType

Domain:

1: Primary

Description: Indicates a feature is related to the Primary address of a site. Primary in Deposited Plan properties refers to the address of the residence at the property. Primary in Strata Properties is an address for the entire site (i.e. not a postal address). There can only be one Primary address for each PrincipalAddressSite.

2: Secondary

Description: Indicates a feature is related to a Secondary address. Secondary in Deposited Plan properties refers to an address of a second residence located at the site. Secondary in Strata Plan properties refers to the addresses of the actual units within the strata scheme. There can be many secondary addresses for a property.

3: Alternate

Description: Indicates another known address of a Primary or Secondary address. For example, a corner block that has two driveways or a large rural site that has multiple access points.

4: Unknown

Description: Not in use.

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