

## NSW Point

### Product description

NSW Point provides address validation against an authoritative national address data set when embedded into online forms and applications. Agencies can customise the returned data from a validated address to suit their needs. Information returned to the agency in a data script may include address match and geocode location, postal address, LGA, State and Commonwealth Administrative Boundaries, ABS Mesh Block and Statistical Area (SA), and for NSW Lot DP. Data can be stored and utilised in spatial data analytics for reporting and planning purposes. Depending on options selected, address data returned is retrieved and verified against national data sets: GNAF-Live, GNAF and MailAddress.

### Web service uses

Designed to be embedded into online forms and applications, NSW Point will enable clients to select and validate the address against an authoritative source in real time at the time of input. The returned address data can be stored by the owner agency for use in internal reporting and business analytics purposes.

### Frequency of address updates

NSW Point uses GNAF Live, GNAF and MailAddress datasets as a source for address validation. The GNAF-Live database is updated nightly from Australian State and Territories, while GNAF and MailAddress are updated quarterly. MailAddress retrieves data from Australia Post PAF.

### What is 'predictive'

Predictive text is designed to provide an enhanced customer experience by reducing key strokes and providing suggested address listing for the user to select. As the address string is entered into a form, a range of address options will be provided, allowing users to view then select the correct address based on the information they have entered into the field. The predictive service also allows for 'alias' addresses, incorrectly entered addresses and neighbouring locality to be validated by way of fuzzy matching logic (e.g. Kings Cross address locality is Potts Point).

### How do I get access to NSW Point?

Access to the API service is provided by Spatial Services following acceptance of Terms of Use Agreement and completing a Service Request application. An initial 60 day trial will provide access to the current production environment for testing prior to enabling Production Service ID. The Service ID will provide access to NSW Point Address Widget and individual Web Service products which can be embedded to suit your individual application needs. Current arrangements allow NSW Point to be offered to NSW Government agencies free of charge.

This is a restrictive agreement (Not Creative Commons) due to the nature of underlying Agreements.

Once an Agreement is signed the nominated user will be issued a Service ID (API key) to allow access to the service. The use and security of this code will be the responsibility of a nominated the individual, who is also the contact person for notifications, including outages or releases.

## Product description and features

<b>NSW Point Address Widget V2</b>	Integrates key NSW Point Web Services that allows for the validation of a single address against known authoritative address datasets (GNAF-Live, GNAF and PAF) and return of all available geographical and administrative information related to the validated address. Fuzzy matching logic will enhance suggestions.  Features Predictive Address S1 and S2, can be customised to include Unparsed Address, Cadastral Parcel and Administrative Boundaries, to suit your organisations needs. Integration with Service Point* (BETA 15/8/19).	
<b>Parsed Address Validation Web Service</b>	Allows for the validation of a single parsed address (an address that is presented in separate fields) against known authoritative address datasets (currently GNAF Live, GNAF and PAF). This service will only provide high quality address matches and will not return a result unless there is a strong degree of confidence that it is the correct address.	
<b>Unparsed Address Validation Web Service</b>	Allows for the validation of a single unparsed address (an address that is presented as a single text string) against known authoritative address datasets (currently GNAF Live, GNAF and PAF). This service will only provide high quality address matches and will not return a result unless there is a strong degree of confidence that it is the correct address. Output includes Mailpoint.	
<b>Predictive Address S1 Web Service</b>	Improves the users experience when entering an address into an online form by minimising key strokes. The service provides a list of valid address suggestions from authoritative national address datasets (GNAF-Live, GNAF and PAF) for the user to select.	
<b>Predictive Address S2 Web Service</b>	Once a valid address is selected from Predictive Address Search 1, this service returns the full parsed address and related geographical information for the selected address, including geocode. Option to expand attributes Administrative Boundaries, Cadastral Parcel and Mailpoint/DPID from one service Please note: This service must be used in conjunction with Predictive S1 Web Service.	
<b>Cadastral Parcel Web Service</b>	Returns a list of all Properties and associated Cadastral Parcels (Lot, Section, DP, Strata) for a specifiable geographic location within NSW. This service must be used in conjunction with other NSW Point Web Service that provide a geocode in their output (e.g. Unparsed Address Validation, Parsed Address Validation and Predictive S2 Web Services).	
<b>Administrative Boundaries Web Service</b>	Provides a range of Administrative Boundary information associated with any specifiable geographic location within Australia. Returns the name and ID of Commonwealth, State Electoral and LGA boundaries, ABS statistical area codes. This service must be used in conjunction with other NSW Point Web Service that provide a geocode in their output (e.g. Unparsed Address Validation, Parsed Address Validation and Predictive Address S2 Web Services).	
<b>Mail point</b>	Allows for the validation of a single physical and postal address unparsed address against PAF address datasets. This service will only provide high quality address matches. Includes Delivery Point Identifier (DPID) unique 8 digit number.	
<b>ESRI Enabled Geocoder P1 Web Service (for users of ERSI mapping and spatial data software)</b>	Provides a list of address suggestions from an authoritative national address dataset (GNAF-Live) to a user as they are typing an address into an online form. This service accepts and responds in a manner that is compatible with some ESRI Services.	
<b>ESRI Enabled Geocoder P2 Web Service (for users of ERSI mapping and spatial data software)</b>	Provides the full parsed address and related geographical information for an address selected from suggestions provided by the ESRI Enabled Geocoder - Predictive 1 Web Service. Please note: This service must be used in conjunction with ESRI Enabled P1 Web Service.	
<b>Glossary</b>	<b>GNAF</b> - Geocoded National Address File <b>PAF</b> - Australia Post Postal Address File <b>DP</b> - Deposited Plans <b>ABS</b> - Australian Bureau of Statistics	<b>Geocode</b> - Geographical co-ordinates; latitude and longitude <b>Mailpoint</b> - Australia Post Delivery Point Identifier for the address, can be used for bulk mail out

## Standards and Specifications

Supplied address formats comply with:

- The NSW Address User Manual by Geographical Names Board (GNB)
- The National Address Management Framework (NAMF)
- AS4819 - Rural and urban addressing standard
- AS4590 - Interchange of client information standard

## Custodian agency and contact

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