Critchlow National Address Register (CNAR)

Gain better business intelligence with CNAR, a trusted source for aggregated address points linked to roads and place names.

Why CNAR?

Does your organisation undertake mapping or location-based analysis? Do you have addresses that are unable to be geocoded? Do you need a geocoding solution that offers a single, complete reference file of New Zealand addresses? If the answer to any of these questions is "yes", you need the Critchlow National Address Register (CNAR).

The CNAR database is an authoritative source for address points in New Zealand and provides unparalleled data accuracy. It brings together addressing and location information from many agencies and is provided to users in a consistent format. It is trusted by many global and local companies where accuracy is critical to their business.

Engineered with spatial accuracy and business integration in mind, CNAR is the essential reference source for all address validation, geocoding and reverse-geocoding solutions.

CNAR is an accurate and complete address reference database for organisations needing to validate, standardise, geocode and process New Zealand addresses.

- A single source of truth for your address validation, geocoding, reverse geocoding, and address processing solutions
- Extracted and supplied in spatial and non-spatial formats with the attributes you need
- Re-built monthly with monthly, quarterly and annual updates available

How is CNAR used?

CNAR is ideally suited to a wide variety of geocoding, analysis and reporting applications, as well as for the integration with marketing and logistics platforms, and corporate information solutions. Using CNAR makes it easy to provide a geocoding solution that allows your customers to analyse data geographically and make better informed business decisions.

With the power of CNAR in your solution, organisations can:

- analyse existing customer locations to find and target customers better
- determine eligibility for service or allocation of pricing zones
- determine the best places to locate your products, service outlets and distribution points
- assess risk based on customer location and proximity to hazards
- make smarter decisions about the allocation of sales territories and case loads

CNAR Source Data

CNAR comprises data from New Zealand's leading address point and locality suppliers. By conflating and enhancing these source datasets, CNAR is able to provide an unmatched level of accuracy and coverage.

NZ Post GeoPAF

GeoPAF from NZ Post is a dataset that uniquely defines and locates 1.9 million residential and business postal addresses in New Zealand.

LINZ Point Addresses

This source provides all officially allocated addresses as advised to LINZ by Territorial Authorities (TAs). Under the Local Government Act 1974 (section 319) it is the responsibility of the TAs to advise LINZ (the Surveyor General) of all allocated addresses in their district. Currently this dataset contains approximately 1.85 million address points.

Additional Address Sources

The CNAR database has been built in a very flexible manner, so that it is possible to incorporate additional validated address data from additional sources as these become available.

NZ Fire Service Suburbs

New Zealand has no official definition of suburb and community boundaries and their names, but the NZ Fire Service maintain a layer that has become the de-facto standard for suburbs in NZ.

NZ Post Postcodes

Every CNAR point in New Zealand has been assigned a postcode. Postcodes help to localise and identify the address where duplicated road and town names are present. NZ Post continuously maintains a layer of authoritative postcodes.

Statistics NZ Meshblock Codes

A meshblock is the smallest geographic unit for which statistical data is published by Statistics NZ. Meshblocks vary in size from part of a city block to large areas of rural land. While meshblocks are continuously maintained by Statistics NZ, CNAR incorporates the latest census meshblock pattern.

NationalMap™ Road Centrelines

The NationalMap road centrelines have been maintained by Critchlow Ltd for over 20 years and provide the most up to date nationally consistent road centreline network in NZ. Their role in building CNAR is to provide alternative road names where the legal, historic, or local name differs from the sign-posted name.

Versions

CNAR data is available in a variety of spatial and non-spatial formats to suit your solution, including:

MapInfo TAB, Esri Shape or Geodatabase, CSV, MS Access to name a few.

CNAR Build Process

The CNAR compilation process is performed monthly.

Each dataset is imported from its native format into a staging table in the main CNAR database. Here it is initially validated to avoid introducing inconsistencies, and then applied to the main CNAR table using predefined **delete**, **insert** or **update** procedures.

One of the most important issues for geocoding solutions is parsing an address string, and for this reason, we have put a significant effort into developing our parsing rules. In the compilation procedures, particular attention is paid to the parsing of road names and house numbers. Road names are parsed to cater for suffix, location and direction information, while particular attention has to be paid to house numbers to correctly cater for number ranges and unit/flat information.

To retain source information, all fields from the compilation process are represented in the main CNAR table, and customised outputs are generated by creating a client-specific view.

Supply of reference files from CNAR

Customer-specific views

Customer-specific views are created to extract a spatial or textual data product from CNAR. These views can extract the data to any format required (MapInfo TAB, ESRI Shape or Geodatabase, CSV, MS Access, etc.)

Coordinates

Customers have the ability to select the coordinates most suited to their application use cases (e.g. postal, property)

Alias Tables

To accompany a CNAR extract we are able to supply additional alias tables (a suburb and place name alias table, and an alternative road name table) for use in address processing applications to increase address processing algorithm match rates.

Technical Specifications

Geographic Coverage
New Zealand

Data Updates
Monthly, quarterly, annual

Unit of Sale
New Zealand

Mode of Purchase
Annual Subscription

Features

- Comprehensive New Zealand addressing
- Supplied with the attributes you need in the format you require
- Regular updates ensure access to the most current New Zealand address data.

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Critchlow enables organisations to **see, share and understand** information so they make the best business and operational decisions.

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