IQ Office Geocode Service for Australia

ArcGIS® REST API Locator Service

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For more information about Intech Solutions products or services, or to see a demonstration, contact us:

W www.intechsolutions.com.au

E sales@intechiq.com

T +61 2 8305 2100

F +61 2 8305 2199

IQ Office Geocode Service for Australia

The **IQ Office Geocode Service** is an ArcGIS® REST API Locator service providing geocoding functionality using Intech Solutions' suite of *IQ Office* information quality tools. The IQ Office Geocoding Service ('The Service') is available as on-premises software or via a web API. The Service will prepare and cleanse your input data as part of its geocoding process.

The Service can:

Find address candidates - it will return a list of candidates based on address or location
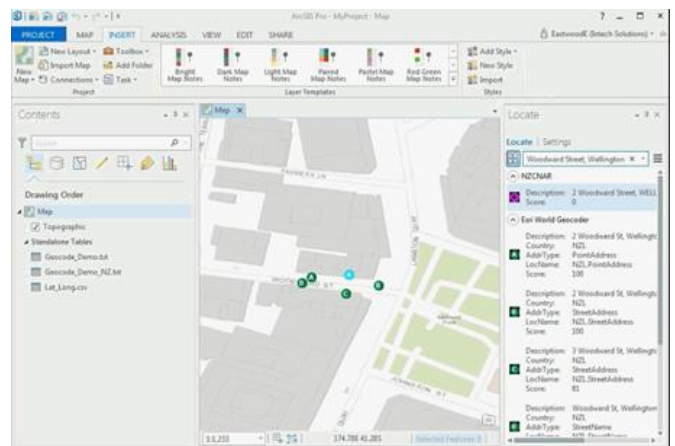
Reverse geocode - it will return information about address components pertaining to the reverse geocoded address as well as its exact location.

The Service appends latitude and longitude coordinates; we call that geocoding. This lets you select an address from the list to locate or 'pin-point' the address on a map. Alternatively, if you input a set of lat/long coordinates, The Service can return address(es) closest to that location.

Why IQ Office?

The primary benefits of using The Service are:

- ✓ Every address is cleansed (parsed, standardised and matched to authoritative reference data) prior to geocoding.
- ✓ Results are reliable and accurate because the reference data is mature, sourced from respected content creators and considered authoritative for its purpose.
- ✓ The Service tolerates misspelled or incomplete addresses as input.
- ✓ A geocode can be supplied even if the address does not uniquely match the reference data.
- ✓ Geocode quality indicators can be returned.
- ✓ The ArcGIS Rematch Address results are accurate.

IQ Office Locator Results Within ArcGIS

- ✓ High speed batch and real time processing.

Authoritative reference datasets are:

- Australia's Geocoded National Address File (G-NAF)
- the Critchlow National Address Reference (CNAR) for New Zealand
- your own reference dataset (on-premises usage only).

Powered by *IQ Office*

The Service uses standard *IQ Office* functionality. Additional functionality that can be provided by IQ Office includes:

- ✓ performing address validation in real time via single or multi-line search
- ✓ executing an enhanced search of street and postal addresses based on synonyms, neighbouring suburbs and misspelled or incomplete input data
- ✓ appending multiple geographic codes and boundary data to each address
- ✓ reverse geocode from lat/long or boundary data.

For a detailed list of *IQ Office* geocoding features and benefits, please see the Intech whitepaper *Geographic Coding with IQ Office* available at www.intechsolutions.com.au